

Period Review Report

73 – 79 West Huron Street Site Buffalo, New York BCP Site No. C915282

April 28, 2024 to April 28, 2025 Certifying Period

August 2025

Prepared for:

Emerson Huron, LLC.



Prepared by:

Roux Environmental Engineering and Geology, D.P.C.

2558 Hamburg Turnpike, Suite 300 Buffalo, New York 14218

Environmental Consulting & Management +1.800.322.ROUX rouxinc.com

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1. Introduction

Roux Environmental Engineering & Geology, D.P.C. (Roux), has prepared this Periodic Review Report (PRR) on behalf of Emerson Huron, LLC to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C915282, deemed the "73-79 West Huron Street Site", located in the City of Buffalo, Erie County, New York (hereinafter referred to as the "Site") (see Figure 1).

This PRR has been prepared in accordance with NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (Ref 1). Appendix A includes the Institutional and Engineering Control (IC/EC) Certification Forms completed based on the Site inspection performed on April 14th, 2025. This PRR and associated certifications have been completed to document post remedial activities at the Site for the April 28th, 2024, to April 28th, 2025, PRR reporting period.

1.1 Site Background

The Site is approximately 0.6-acres in size and comprised of three separate parcels identified as 73-79 West Huron Street in the City of Buffalo, Erie County, New York. The three parcels include Erie County Tax Map SBLs #111.37-4-10 (73 West Huron), #111.37-4-11 (77 West Huron), and #111.37-4-17.2 (79 West Huron) (see Figures 1 and 2). The subject site is located in a commercial district in the City of Buffalo and is bound to the north by another paved parking lot, to the south by West Huron Street, and to the east by 210 Franklin Street (Curtiss Hotel) and 220 Franklin Street (Capello Salon). The properties to the west include an auto repair shop (former Sunoco), as well as a mix of commercial and office buildings. The Site is currently improved with a renovated six-story brick building (73 West Huron) and a two-story gymnasium built on piers to accommodate parking below (77 and 79 West Huron) (see Figure 2). Building renovations and the gymnasium construction activities were completed in March 2020; the building is currently used as the Emerson School of Hospitality.

The original on-site building was constructed around 1892-94 as a three bay Romanesque-Style commercial building and horse stable with a flat roof by C.W. Miller Livery. The building was constructed with a steel frame used as structural support for the first floor with a supporting truss to suspend the remaining floors. The building was modified in 1924 with ramps to accommodate motor vehicle parking. The exterior of the building is constructed of brick and large stone blocks and consists of six floors, a roof top mechanical room, and subterranean basement. An automotive fueling station with underground storage tanks (USTs) once operated in the parking lot west of the building; however, on-site excavation confirmed that any associated tanks have since been removed. Historic operations impacted the on-Site soil, soil vapor, and groundwater with petroleum related volatile organic compounds (VOCs).

The Site, along with the adjacent parcel addressed as 181 Delaware Avenue to the west (a former Sunoco Inc. gas station) has been the subject of several environmental site assessments and subsurface investigations (soil, groundwater, and soil vapor) since 1993 and under a remedial action since 2008. Most of these remedial activities were associated with NYSDEC Spill No. 03-75208 that included the three contiguous properties of 181 Delaware (former Sonoco station) and the Hurondel Site parcels of 73 and 77 West Huron (Figure 1).

1. Iyer Environmental Group, PLLC (IEG). Site Investigation/Interim Remedial Measure (SI/IRM) Work Plan, 73-79 West Huron Street Site, Buffalo, New York. BCP Site #C915282. June 2015.

1.2 Remedial History

In September of 2011 the NYSDEC separated the 181 Delaware Avenue site from the three-parcel group and issued new Spill No. 11-06834 for the 73-77 Huron St. Site. In September of 2014, the 73-79 W. Huron St. Site was entered into the NYSDEC Brownfield Cleanup Program (BCP) and issued BCP site No. C915282. Remedial actions undertaken for the BCP site are as follows.

- February through April 2015 start of BCP Site Investigations (SI) activities.
- March through December 2015 Completion of an Interim Remedial Measures (IRM) involving impacted soil/fill excavation and backfill with low permeability soil on the western sidewall adjacent to the 181 Delaware property as further described below and in the SI/IRM Work Plan (Ref. 2)..
- June 2016 Completion of intrusive site investigation work for the SI/IRM.
- May 2017 Completion of SI-IRM- Alternative Analysis (AA) Report (Ref. 3)
- March April 2019 Completion of Final Remedial Measures involving ASD system installation (March 2019) and final cover system construction (April 2019)
- November 2017 Submission of Site Management Plan (SMP) (Ref. 4)
- December 2017 Final Engineering Report (Ref. 5) Submitted and NYSDEC issuance of Certificate of Completion (COC) issued.

1.2.1 IRM

IRM activities involved excavation and off-site disposal of 4,458.1 tons of petroleum-impacted soil at the Tonawanda Landfill (a NYSDEC-permitted solid waste disposal facility located in Tonawanda, New York); treatment and sanitary sewer discharge of approximately 10,000 gallons of groundwater through granular-activated carbon (GAC); confirmatory soil sampling; and backfilling with stockpiled "clean" overburden sand mixed with a low permeable clay. Twenty-four confirmatory post-excavation sidewall and 12 bottom samples were collected by IEG to verify compliance with NYSDEC Restricted Residential Soil Clean up Objectives (RRSCOs). Figures 7 through 12 from the SMP, which, illustrate IRM activities, are located in Appendix H.

Emerson Huron, LLC completed redevelopment of the Site as the Emerson School of Hospitality in March 2020

1.3 Compliance

At the time of the annual Site inspection (April 14th, 2025), the Site was fully compliant with the NYSDEC-approved SMP (Ref 4). Signed IC/EC forms can be found in Appendix A, a photolog documenting site conditions during the April 14th, 2025, site visit can be found in Appendix B. System sheets documenting monthly ASD readings can be found in Appendix C. Field forms and analytical data package can be found in Appendix D. The 2020 Spill closure report for 181 Delaware Ave (Former Sunoco Station) is located in Appendix E and Historical trend analysis for monitoring wells HMW-2, HMW-3, HMW-4, MW-10 and GSW-1 can be located in Appendix F.

1.4 Recommendations

At the time of the annual Site inspection (April 14th, 2025), the Site was compliant with the NYSDEC-approved SMP (Ref 4), The road box at monitoring well HMW-1 (which was noted as damaged during the April 24th, 2024, site inspection), was repaired on October 14th, 2024. Off Site monitoring well HMW-5 as

historically exhibited total petroleum VOC concentrations as non-detect since 2017. Roux recommends discontinuing groundwater sampling at HMW-5.

2. Site Overview

Previous environmental investigations completed at the Site identified contamination from past uses of the Site that required remediation. Hurondel I, Inc. entered into the BCP to further investigate and remediate the Site for future redevelopment. The remedial activities were completed in 2015, including:

- Excavation and off-site disposal of 4,458.1 tons of petroleum-impacted soil at the Tonawanda Landfill.
- Treatment and sanitary sewer discharge of approximately 10,000 gallons of groundwater through granular activated carbon (GAC).
- Removal of ACM, which included 150 linear feet (LF) of pipe insulation, 100 square feet (SF) of boiler insulation, and 2,500 SF of floor tiles and transportation with off-Site by The Environmental Service Group (NY) Inc. to Waste Management's Chaffee Landfill for disposal.

The remedial program was successful in achieving the remedial objectives for the Site. An Environmental Easement restricting end use of the Site and enforcing adherence to the SMP was filed in November 2017 and approved in December 2017. The Final Engineering Report (FER) was approved in December 2017. Concurrently, a Certificate of Completion (COC) was issued for the Site by the NYSDEC in December 2017.

3. Remedy Performance

A post-remedial site inspection involving a walk-over of the Site covered by this PRR was performed on April 14th, 2025, to visually observe and document the use of the Site for restricted residential use, confirm absence of site groundwater use, and verify performance of the SSDS system under the SMP. The Site inspection confirmed that the controls are in place and functioning as intended in accordance with the SMP.

4. Site Management Plan

A Site-wide SMP was prepared for the Site and approved by the Department in December 2017. Benchmark updated the SMP in October of 2021 to address the ASD system operation, maintenance and monitoring requirements. In December 2022, Benchmark prepared and submitted to the NYSDEC an errata sheet to document a change to the SMP. The errata documented changes to the reported magnehelic gauge readings incorrectly stated in previous versions of the SMP. Section 5.3 of the SMP was revised to state: "Over the past two years, magnehelic gauge MAG-1 readings have ranged between 0.75 and 1-inches of water column (iwc) and magnehelic gauge MAG-2 readings have ranged between 1.25 and 1.9 iwc." Key components of the SMP are described below. Roux notes that inches of water column (iwc) is a unit of pressure, Magnehelic gauge reads negative pressure differential between atmospheric pressure and vacuum caused by suction of ASD mechanism. Submitted errata sheets are located in Appendix G

4.1 Institutional and Engineering Control (IC/EC) Plan

Since soil/fill containing constituents above Restricted Residential Soil Cleanup Objectives (SCOs) and residual groundwater impact exists beneath the Site, institutional and engineering controls are required to protect human health and the environment. The IC/EC Plan describes the procedures for the implementation and management of all IC/ECs at the Site.

4.1.1 Institutional Controls

The Site has a series of Institutional Controls (ICs) in the form of site restrictions. Adherence to these ICs is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

- The property may only be used for restricted-residential, commercial, and industrial use provided that the long-term Engineering and Institutional Controls included in the SMP are employed.
- All ECs must be operated and maintained as specified in the SMP.
- All ECs must be inspected at a frequency and in a manner defined in the SMP.
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Erie County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department.
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP.

- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the SMP.
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP.
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP.
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP.
- Access to the site must be provided to agents, employees, or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.
- The potential for vapor intrusion must be evaluated for any buildings developed on-site, and any potential impacts that are identified must be monitored or mitigated.
- Vegetable gardens and farming on the site are prohibited.
- An evaluation shall be performed to determine the need for further investigation and remediation should large scale redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible.

4.1.2 Engineering Controls

There are no Engineering Controls (ECs) associated with the Site under the implemented Track 2 cleanup except for an ASD system as described in Section 4.3, below. The Site is either covered with hardscape (asphalt) or the on-site building, with no green space cover. The ASD system was observed to be in working order at the time of site inspection, readings at magnehelic gauges Mag-1 and Mag-2 (see Figure 3) were measured at 0.90 and 1.30 inches of water column, respectively.

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/fill material during any future intrusive activities. Any intrusive work that may disturb remaining contamination during maintenance or redevelopment work on the Site must be performed in compliance with the EWP and must also be conducted in accordance with a site-specific Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) meeting the minimum requirements of the sample HASP and CAMP included with the SMP.

No intrusive activities were completed during the reporting period (April 28th, 2024 to April 28th, 2025).

4.3 Active Subslab Depressurization (ASD) System

The NYSDEC-approved Site Management Plan (SMP – Ref. 4) required that measures to address subslab vapor concerns be undertaken if a vadose zone developed beneath the basement floor slab. Prior to renovation work the groundwater table was in contact with the basement floor. However, the renovation work involved cracking the original basement floor to mitigate settlement and installing an overlying layer of stone and a new slab above the former floor, creating a vadose zone. Accordingly, an active sub-slab depressurization (ASD) system was designed and approved by the NYSDEC for implementation in the existing building. The ASD system was installed concurrently with interior building renovations over a one-year period, from March 2019 through March 2020 in accordance with the May 2018 Work Plan for Active Sub-slab Depressurization System Installation (Ref. 6) and the NYSDEC-approved January 2019 design drawings and specifications.

The ASD system is comprised of six extraction legs constructed with 4-inch diameter sub-slab perforated PVC pipe and solid risers located within interior partition walls. The risers are connected to the above-grade extraction system comprised of vertical piping vent stacks manifolded to one of two exhaust fans. Six vacuum monitoring points were installed through the slab and two magnehelic gauges were installed on the manifold risers in the basement to measure the instantaneous negative pressure produced by the inline fans. Magnehelic gauges read negative pressure differential between atmospheric pressure and the negative pressure caused by the fans. As indicated in the Site Management Plan (SMP), magnehelic gauges are required to maintain a reading of .25 inches of water column (iwc) to ensure sufficient vacuum is generated by in-line fans. The system began operation in February 2020 and has operated continuously since that time.

On March 18, 2020, post-installation confirmatory testing was performed by Benchmark. Magnehelic gauge readings and vacuum port measurements indicated that the ASD system was operating properly. During the vapor assessment, performed on February 3, 2021 (see below), Benchmark verified that the ASD system fans were operating properly, as indicated by the readings on the magnehelic gauges. Figure 3 illustrates magnehelic gauge locations and readings collected April 14th, 2025. Appendix B provides photos of the April 14th, 2025, annual magnehelic gauge pressure readings.

During the April 2024 site inspection elevated vacuum readings (1.95 inches of water column as compared to typical 1.30 inches of water column) on the MAG-2 monitoring location are believed to be caused by fluctuating groundwater levels that, upon rising, partially restricted the ASD extraction piping. This caused system fans to work harder creating a higher vacuum to give elevated readings. The elevated water levels were suspected to be attributable to maintenance issues associated with a submersible pump in an offsite utility vault located in the sidewalk along W. Huron St on the south side of the building.

4.4 Vapor Assessment

In accordance with the May 2020 Periodic Review Report (revised June 2020), approved by the New York State Department of Environmental Conservation (NYSDEC) on June 30, 2020, indoor air and outdoor air samples were collected in February of 2021 to satisfy Site Management Plan (SMP) requirements for evaluating the efficacy of the ASD system installed in the existing building.

The vapor assessment sampling was performed on February 3, 2021. At that time, the basement of the building was in partial use by teaching staff; all student classes were on upper floors. The existing ASD and heating systems were active, and doors and windows were closed as typical for winter weather conditions. A report summarizing the sampling event was submitted to the Department under separate cover, dated March 23, 2021 (Ref. 7). Figure 3 shows the vapor assessment sample locations. Based on the findings of the assessment, no further ASD evaluation work is required for the existing building other than routine system vacuum gauge checks as indicated in the NYSDEC and NYSDOH acceptance letter dated March 29, 2021.

4.5 Annual Inspection and Certification Program

The Annual Inspection and Certification Program outlines requirements for certifying and attesting that the IC/ECs employed on the Sites are unchanged from the original design and/or previous certification. The Annual Certification includes a site inspection and completion of the NYSDEC's IC/EC Certification Form. The Site inspection is intended to 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.

Formal inspection of the Site was conducted by Mr. Thomas Behrendt, of Roux on April 14th, 2025. Mr. Behrendt meets the requirements of a Qualified Environmental Professional (QEP) per 6NYCRR Part 375.12. At the time of the inspection, the Site was fully compliant with the NYSDEC-approved SMP. No observable indication of intrusive activities was noted during the Site inspection, nor was any observable use of groundwater noted during the Site inspection. Signed IC/EC forms are located in Appendix A and a photolog documenting site conditions can be found in Appendix B.

During the inspection, minimal hairline cracks on the concrete slab were observed. However, the cracks appear superficial, and do not appear to affect the performance of the ASD system. Additionally, the concrete slab overlies a vapor barrier consisting of poly-sheeting. Magnehelic monitoring location 2 has been reading between 1.25 iwc and 1.30 iwc during this inspection period. At the time of the April 14th , 2025 site inspection the magnehelic gauge read approximately 1.30 iwc. Recorded ASD system sheets can be found in Appendix C.

The onsite monitoring well HMW-1 road box, which was noted has damaged in the 2024 PRR, was repaired/replaced on October 14th, 2024.

4.6 Operation, Monitoring and Maintenance Plan

An addendum to the December 2017 SMP was prepared in October of 2021.and approved by the NYSDEC. The SMP addendum describes the functional ASD system and includes procedures for routine monitoring of the ASD manometers by school maintenance staff, who will perform the monitoring in concert with routine HVAC system checks. In addition, signage was posted next to the MAG-1 and MAG-2 locations providing contact information and instructions for building personnel in the event the ASD system vacuum drops below 0.25 inches of water column.

5 Groundwater Monitoring

Per the SMP, two (2) years of groundwater monitoring were completed at the Site at monitoring wells HMW-1, HMW-2, HMW-3, HMW-4, HMW-5, HMW-6, and MW-10 and groundwater beneath the basement floor slab was sampled at groundwater sump GSW-1. The SMP required semi-annual groundwater monitoring and checks of groundwater levels beneath the basement floor slab for a period of approximately two years, then annually thereafter until the NYSDEC allows monitoring to be terminated. Sampling was not performed during the 2021 PRR reporting period as Benchmark believed the monitoring obligation was satisfied following the two (2) years of semi-annual monitoring that occurred in 2018-2020, however it was performed in 2021 and 2022. Note that in concert with building redevelopment activities GSW-1 was relocated approximately 25 feet east of its prior location.

- The NYSDECs approval letter for the PRR for the certifying period of April 28th, 2021, to April 28, 2022, included approval to remove sampling of alkalinity (as CaCO3) and perform the sampling via the use of diffusion bags (The PDB sampler is a semi-permeable, low-density polyethylene membrane designed to allow volatile organic compounds (VOCs) to flow into the PDB until equilibrium is reached between the formation and the PDB).
- Upon NYSDEC approval of the PRR for the certifying period of April 28th, 2022, to April 28th, 2023, the Department agreed to allow discontinuance of monitoring at HMW-1 and HMW-6.

The Groundwater monitoring was performed during the subject reporting period in August 2024. Approval for a reduced parameter list and reduction in network monitoring wells is located in Appendix G.

5.1 August 2024 Groundwater Monitoring Event

Roux personnel deployed the PDBs on July 25th, 2024. Retrieval and sampling of the PDBs was performed on August 15th, 2024. PDB deployment and retrieval logs are included in Appendix D. Groundwater was analyzed for Target Compound List (TCL) plus Commissioners Policy -51 (CP-51) Volatile Organic Compounds (VOCs) per USEPA Method 8260C. Groundwater samples were transferred to laboratory supplied, pre-preserved sample vials and transported, under chain of custody control, to Alpha Laboratories, (Alpha) located in Westborough, Massachusetts for analysis. Appendix D includes analytical data packages and field data sheets for the August 2024 sampling event. Table 1 summarizes the results and post COC groundwater monitoring results completed in accordance with the SMP (May 2018, through August 2024) along with data collected in June 2016 and January 2017 (during the RI) and provides a comparison to Groundwater Quality Standards/Guidance Values (GWQS/GVs).

In general, VOC concentrations from the August 2024 monitoring event are lower compared to historical sampling events. Results for HMW-2, HMW-4 and HMW-5 were reported non-detect for petroleum VOCs. Elevated concentrations above GWQS of petroleum VOCs are noted in MW-10 but fall well below one (1) part per million (ppm). HMW-3 exhibits total VOCs in excess of one (1) ppm. This may be due to discontinuation of groundwater remediation efforts on the adjacent upgradient former Sunoco site (an inactive NYSDEC Spill site, no. 1106834), which has a long history of use as a petroleum service station with numerous storage tanks and dispensers. Appendix E provides a status report issued for the former Sunoco Site in 2020 which summarizes the relevant history of the property. Prior to 2020 active groundwater remediation on the former Sunoco site was undertaken. The site and spill area are

hydraulically upgradient of HMW-3 and MW-10 (see Figure 4) and all onsite petroleum-impacted soils were removed from the BCP Site as part of the Track 2 Restricted Residential cleanup completed in 2015. It is possible that post-treatment rebound is contributing to elevated levels in HMW-3.

Basement sump (GSW-1) sample shows a decrease in chlorinated VOC levels compared to the August 2023 sampling event and continues to be lower than historic highs.

The electronic data delivery (EDD) format has been uploaded to NYSDEC's EQuIS database. The next sampling event is scheduled for August 2025.

5.1.1 Historical Analysis and comparisons

Attached in Appendix F are historical trend analysis for monitoring locations HMW-2, through HMW-4, MW-10 and GSW-.1 for total VOC concentrations are discussed below:

- HMW 2, Total petroleum VOC concentrations have decreased significantly and are now at nondetect levels.
- HMW-3, Total VOC concentrations have declined to levels similar to those reported prior to 2022.
- HMW 4, Total petroleum VOC concentrations have dropped significantly and are now at nondetect levels.
- MW-10, Although the trendline indicates an overall upward trend, VOC concentrations for the 2024 event were lower than previous events since 2017.
- GSW 1, Total VOC concentrations for the 2024 event indicate a decreasing trend of VOCs.

Based on the last two sampling events August 2023 and 2024 where passive diffusion bags were deployed, VOC concentrations have remained consistent with historical low flow sampling events with the exception of HMW-2 where concentrations have dropped, potentially due to continued attenuation (HMW-2 is north of the area predominantly impacted by the historic Sunoco spill site).

5.2 Groundwater Flow Direction

In conjunction with the August 15th, 2024 groundwater monitoring event, a round of water levels (Table 2) was collected from each monitoring location (including GSW-1). The recorded water levels were used to develop an isopotential map (Figure 4). Ground water flow is in an easterly direction with a slight southern component.

6 Conclusions and Recommendations

Conclusions for this reporting period and recommendations for the next reporting period are as follows:

- At the time of the annual Site inspection (April 14th, 2025), the Site was compliant with the NYSDEC-approved SMP (Ref 4),
- Off Site monitoring well HMW-5 as historically exhibited total petroleum VOC concentrations as non-detect since 2017. Roux recommends discontinuing groundwater sampling at HMW-5.
- Petroleum VOC concentrations are lower in several wells. The site will continue to be monitored with an annual round of groundwater sampling performed in August of 2025.
- The HMW-1 road box was repaired on October 14th, 2024.

7 Declaration/Limitations

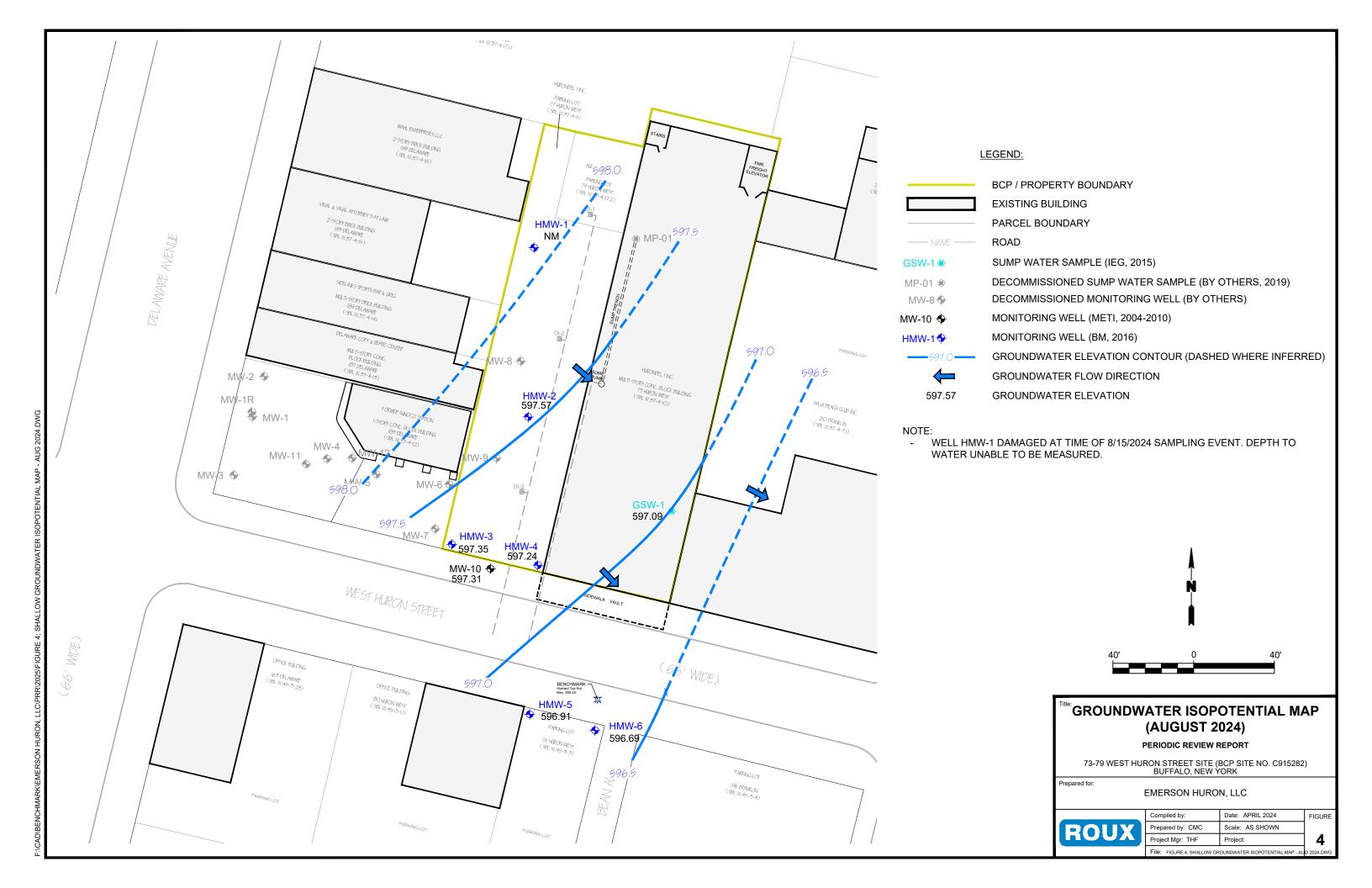
This report has been prepared for the exclusive use of Emerson Huron, LLC. The contents of this report are limited to information available at the time of the site inspections. The findings herein may be relied upon only at the discretion of Emerson Huron, LLC. Use of or reliance upon this report or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

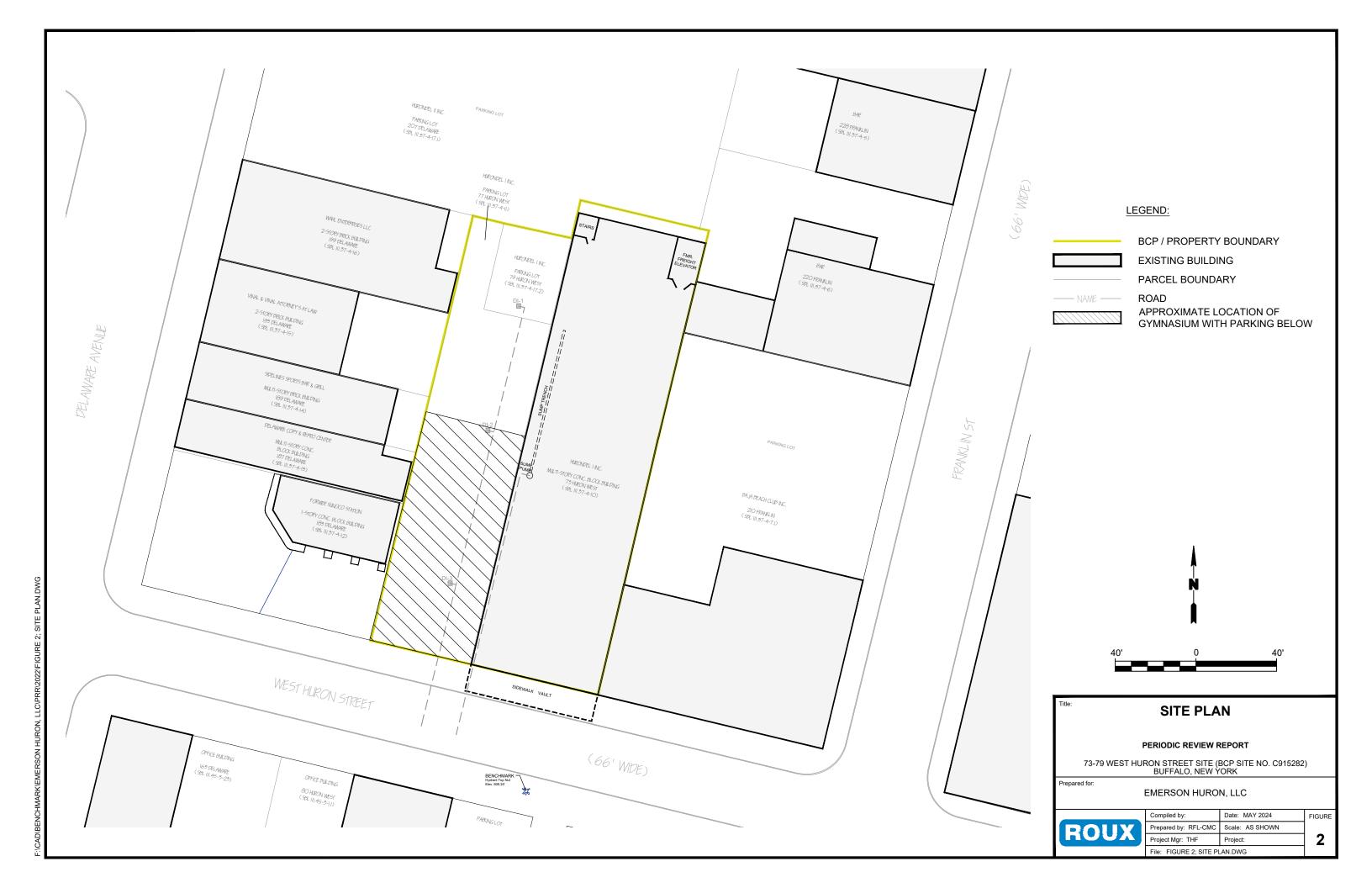
References

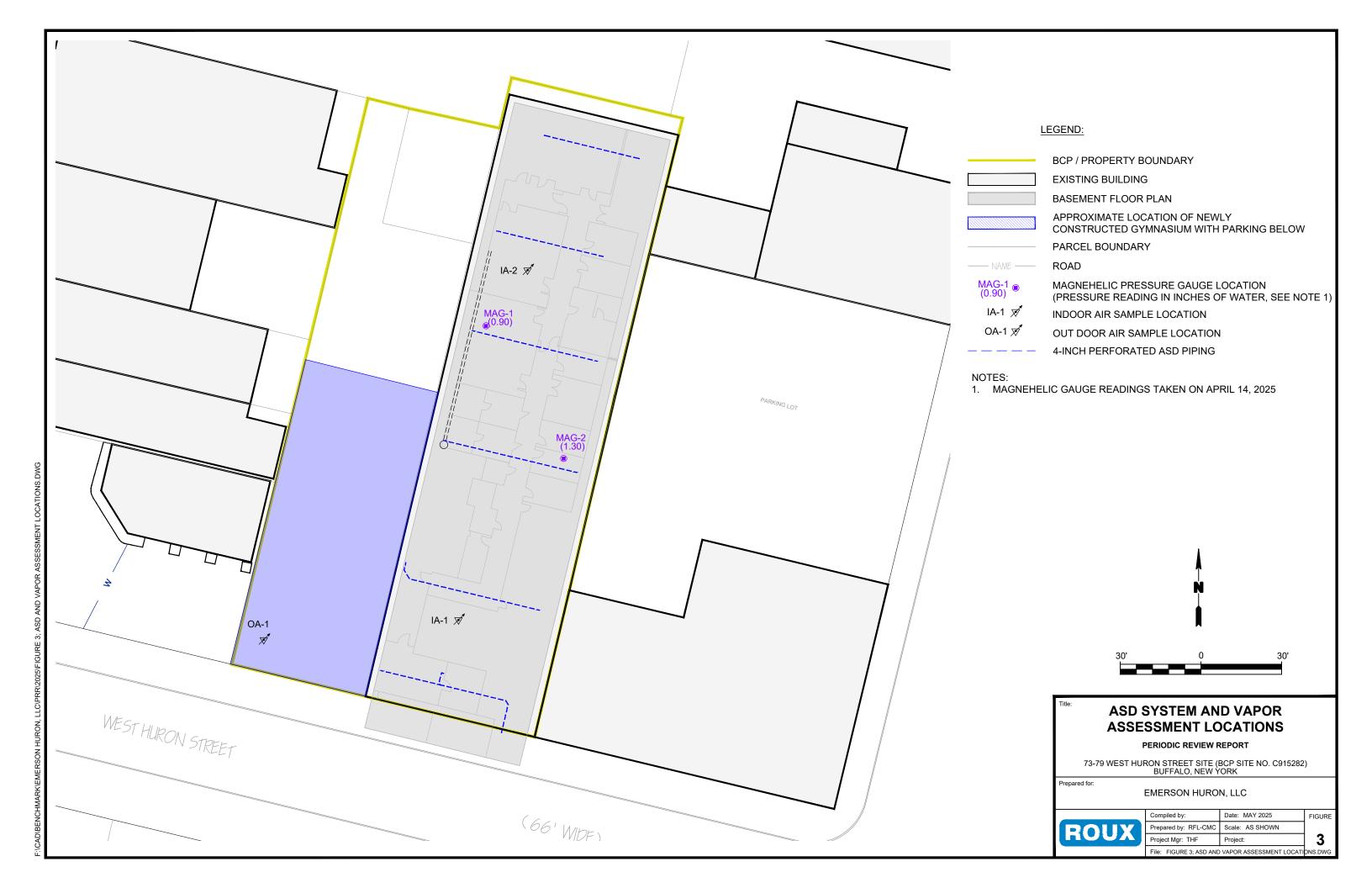
- 2. New York State Department of Environmental Conservation. *DER-10/Technical Guidance for Site Investigation and Remediation*. May 3, 2013.
- 3. Iyer Environmental Group, PLLC (IEG). Site Investigation/Interim Remedial Measure (SI/IRM) Work Plan, 73-79 West Huron Street Site, Buffalo, New York. BCP Site #C915282. June 2015.
- 4. Benchmark Environmental Engineering & Science, PLLC (Benchmark). Final Site Investigation/Interim Remedial Measures/Alternatives Analysis Report, 75-77 West Huron Street Property, Buffalo, New York. May 2017.
- 5. Benchmark Environmental Engineering & Science, PLLC (Benchmark). Site Management Plan for 73-79 West Huron Street Site. November 2017, Revised October 2021.
- Benchmark Environmental Engineering & Science, PLLC (Benchmark). Final Engineering Report for 73-79 West Huron Street Site. November 2017.
- 7. Benchmark Environmental Engineering & Science, PLLC (Benchmark). Work Plan for Active Subslab Depressurization System (ASD) Installation for 73-79 West Huron Street Site. May 2018.
- 8. Benchmark Environmental Engineering & Science, PLLC (Benchmark). Post-Remedial Vapor Assessment Report. March

FIGURES

:\CAD\BENCHMARK\EMERSON HURON, LLC\PRR\2024\FIGURE 1; SITE LOCATION & VICINITY MAP.DWG







Tables



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SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS

Post Remedial Monitoring 73-79 West Huron Street Site (C915282) Buffalo, New York

ATILE ORGANICS (VOCs, ug/L) 1,2,4-Trimethylbenzene 5 1,3,5-Trimethylbenzene 5 1-Methyl-2-pentanone 2-Butanone 50	1.5 ND	6 01/11/17 ND ND	ND ND	51	08/20/19	02/13/20 1.9 J	07/15/21	08/17/22	08/17/23																					
2,4-Trimethylbenzene	ND	_			62	101				08/15/24	06/16/16	01/11/17	05/17/18	10/24/18	08/20/19	02/13/20	7/1521	08/17/22	08/17/23	08/15/24	06/16/16	01/11/17	05/17/18	10/24/18	08/20/19	02/13/20	07/15/21	08/17/22	08/17/23	3
1,3,5-Trimethylbenzene 5 4-Methyl-2-pentanone 2-Butanone 50	ND	_			62	101																								
1-Methyl-2-pentanone 2-Butanone 50		ND	ND				42	14	ND	ND	880	760 D	ND	540 D	5.2	520	710	380	ND	ND	380	30	ND	5.9	4.3	33	140	91	12	
2-Butanone 50	ND			ND	ND	7.3	340	110	ND	6.9	51	33	ND	ND	3.4 J	15	4 J	ND	ND	ND	35 J	ND	ND	53	ND	59	140	190	73	4
		ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	\perp								
			ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	4.9 J	ND	ND	ND	ND	ND	ND		ND	\perp						
,1-Dichloroethene 5			ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND							
Acetone 50			27	ND	ND	ND	ND	18 J	21 J	ND	ND		ND	ND	ND	ND	ND	ND	10	16	ND		ND	ND	ND	ND	ND	20 J	13 J	
Senzene 1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	П
Chloroform 7			ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	Т						
cis-1,2-Dichloroethene 5			ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	\neg						
Cyclohexane			50	180	95	76	200	190	20	110	290		140	69	ND	97	110	37	ND	ND	460		190 D	96	12	130	140	180	140	П
thylbenzene 5	66.2	ND	72	500	160	150	25	250	8.4	55	19 J	31	17	10	30	ND	ND	ND	ND	ND	1800	840	490 D	31	ND	100	230	670	320	
-Hexanone 50	-		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND							
opropylbenzene 5	13.6	2.6	20	61	33	18	15	6.8 J	0.81 J	7.4	74	71	58	73	12	ND	48	39	ND	ND	110	17 J	54	18	8.3	12	6 J	15 J	11 J	П
1ethylcyclohexane			ND	8 J	48 J	8.7 J	140 J	61	3.8 J	19 J	59 J	-	38	13	ND	32 J	42	15 J	ND	ND	160 J		94	64	12	45	62	70 J	12 J	П
Butvlbenzene 5	ND	ND	ND	1.9 J	5.4	ND	3.5 J	5.3 J	ND	1.6 J	13 J	13	ND	9.3 J	ND	5.1 J	4.7 J	4.8 J	ND	ND	16 J	34 J	ND	12	7.3	11	ND	ND	ND	_
Propylbenzene 5	38.1	4	ND	110	65	84	53	4.8 J	1.5 J	42	170	180	ND	140 J	3.1 J	120	130	100	ND	ND	210	ND	ND	110	66	21	6 J	23 J	4.1 J	_
-Isopropyltoluene 5	ND	ND	ND	ND	1.3 J	ND	6 J	6.9 J	ND	ND	ND	14	ND	2.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.7 J	2.6 J	3 J	ND	ND	ND	_
ec-Butylbenzene 5	1.8		ND	9.2	5.7	4.8 J	7.2	3.5 J	ND	2.1 J	8.2 J	ND	ND	ND	ND	6.1 J	ND	6.1	ND	ND	ND	ND	ND	9.1	6	5.1 J	ND	ND	ND	_
etrachloroethene 5		-	ND	ND	ND	ND	ND	ND.	ND	ND	1.8 J	-	ND	ND	ND	ND	2.4	ND	ND	ND	ND		ND	\dashv						
oluene 5	1.2		39	12	4.6	18	120	900	1.1	170	ND	ND	ND	ND	7.8	ND	ND	ND	ND	ND	490	350	7.6	9	ND	59	1000 D	410	110	
otal Xylenes 5	6	ND	371	319	87	255	1260 D	1037	9.4	77	ND	3.2 J	0.95 J	ND	107	ND	ND	ND	ND	ND	2900	427 J	555 D	92	8.9	550	2150	3300	970	
richloroethene 5			ND	ND	ND	ND	ND.	ND	ND.	ND	ND		ND.	ND	ND	ND	ND	ND	ND	ND	ND		ND.	ND	ND.	ND	ND	ND	ND	-
ans-1.2-Dichloroethene 5	 		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	_						
inyl chloride 2	-		ND	ND	ND	ND	ND	ND	ND	0.14 J	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	_						
	128.4		502	1252.1 J	567 J	623.7 J	2211.7 J	2607.3 J		502.14 J	1566 J	1105.2 J	253.95 J	857.2 J	173.4 J	795.2 J			10	28	6101 J	1698	1390.6 J	505.7 J	115.4 J	1028.1 J	3874 J		1665.1 J	_
AL VOCs	128.4		502	1252.1 J		539 J			21.21 J			1105.2 J			1/3.4 J	666.2 J			0	0	5941 J	1698 J	1106.6			853.1 J	3672 J		1500.1 J	
	120.4		0	1064.13	0	0 0	10/1./ J	0	21.21 J	0.14 J	1.8 J		_	0	100.5 J	000.2 J	2.4	0	0	0			1106.6	345.7 J	95.13	053.13	0	4699 J	1500.1 3	J
AL cVOCs eral Chemistry (mg/L)	U	-	0	0	U U	0	0	U	U	0.143	1.0 J		0	U	U	U	2.4	0	U	U	0	-	U	U	U	0		0	U	_
		T	518	476	467	733	312	NA	NA	NA		т —	305	320	239	258	246	NA.	NA	NA			470	396	394	538	311	NA	NA	_
Alkalinity (asCaCO ₃) ⁶	-	-	516	476	467	733	312	INA	INA	INA		-	305	320	239	200	240	INA	INA	INA		-	470	390	394	536	311	INA	NA.	_

- Definished roag settlying settlying settlying settly to the first of the analyte as positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

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



Page 2 of 2 TABLE 1

SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS

Post Remedial Monitoring 73-79 West Huron Street Site (C915282) Buffalo, New York

Parameter	GWQS/GV					нм	IW-4									ни	W-5										GSW-1 (SUMP - 1)					
		06/16/16	01/11/17	05/17/18	10/24/18	08/20/19	02/13/20	07/15/21	08/17/22	08/17/23	08/15/24	06/16/16	01/11/17	05/17/18	10/24/18	08/20/19	02/13/20	07/15/21	08/17/22	08/17/23	08/15/24	04/24/15	06/05/15	05/17/18	06/05/18	10/24/18	08/20/19	02/13/20	07/15/21	08/17/22	08/17/23	08/15/24
VOLATILE ORGANICS (VOC:	s, ug/L)																															
1,2,4-Trimethylbenzene	5	ND	ND	ND	1 J	280 J	ND			ND	ND	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND											
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	24	5	ND	1		ND	ND	ND	ND	ND	ND														
4-Methyl-2-pentanone		ND	12	ND	7		9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND														
2-Butanone	50	ND		ND		ND	ND	ND	ND	ND	7		ND	ND	5.7	ND	ND	ND	85	ND	ND	ND	ND	ND								
1,1-Dichloroethene	5	ND		ND		ND	ND	ND	ND	ND	7		ND	ND	ND	0.17 J	ND	0.17 J														
Acetone	50	ND		ND	ND	ND	ND	ND	18	11	16	ND		ND	ND	ND	ND	ND	1		15	ND	ND	ND	ND	ND	170	ND	ND	ND	ND	ND
Benzene	1	0.17 J	ND	0.23 J	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND														
Chloroform	7	ND		ND	3.8		2.3 J	ND	ND	3.1	11			2.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
cis-1,2-Dichloroethene	5	ND		ND		ND	ND	ND	ND	ND	7		ND	ND	ND	25	24	31	28	6	26	59	9.5	63								
Cyclohexane		ND		ND	ND	90 J	7.7 J	95	46	ND	ND	0.59 J		ND	ND	ND	ND	ND	7		ND	ND	4.8 J	ND	ND	ND	ND	ND	ND	ND	ND	0.77 J
Ethylbenzene	5	0.77 J	ND	ND	ND	ND	4.9	11	24	ND	No access	No access	ND	ND	ND	ND	ND	ND														
2-Hexanone	50	ND		ND		ND	ND	ND	ND	ND	to	to	ND	ND	ND	ND	ND	ND														
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	14	2.6	ND	monitoring	monitoring	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Methylcyclohexane		0.48 J		ND	ND	13 J	ND	29	34	ND	ND	0.44		ND	ND	ND	ND	ND	well 5	well 5	ND	ND	0.49 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	3.9 J	ND	ND	1.6 J	ND	7		ND	ND	ND	ND	ND	ND														
n-Propylbenzene	5	0.9 J	ND	ND	ND	98 J	1 J	19	15	ND	7		ND	ND	4.8	ND	ND	ND	ND	ND	ND	ND	ND	ND								
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	0.82 J	2.1 J	ND	7		ND	ND	ND	ND	ND	ND														
sec-Butylbenzene	5	0.7 J	ND	ND	ND	6.8 J	ND	1.6 J	4.3	ND	7		ND	ND	ND	ND	ND	ND														
Tetrachloroethene	5	ND		ND	ND	0.29 J	ND	ND	ND	ND	ND	0.54		0.35 J	0.43 J	0.29 J	0.25 J	0.36 J	7		ND	3.4	4.9	550	480	680	300	110	190	17	99	11
Toluene	5	ND	ND	ND	ND	ND	1.7 J	4.5 J	2.5	ND	7		ND	ND	ND	ND	ND	ND														
Total Xylenes	5	0.84 J	ND	ND	ND	ND	29.5	31.4	12.8 J	ND	7		ND	ND	0.91 J	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Trichloroethene	5	ND		ND		ND	ND	ND	ND	ND	7		ND	ND	0.52 J	13 J	12	16	14	4	7.4 J	4.2	3.6	2.2								
trans-1,2-Dichloroethene	5	ND		ND		ND	ND	ND	ND	ND	7		ND	ND	1.2 J	2.1 J	ND	1.8 J														
Vinyl chloride	2	ND		ND		ND	ND	ND	ND	ND	7		ND	ND	0.52 J	ND	ND	ND	ND	ND	3	4	ND	5.8								
TOTAL VOCs		3.86	0	0	1 J	491.99 J	44.8 J	230.32 J	167.9 J	11	28	5.6	0	2.65	0.43 J	0.29 J	3.35 J	11.36 J	NA	NA	26.6 J	3.4	29.72 J	588 J	516	727	597	120 J	227.6 J	86.47 J	112.1 J	84.57 J
TOTAL pVOCs		3.38	0	0	1 J	388.7 J	37.1 J	92.32 J	69.9 J	0	0	0.23	0	0	0	0	0	0	NA	NA	0	0	13.31 J	0	0	0	0	0	0	0	0	0
TOTAL cVOCs		0		0	0	0.29 J	0 J	0 J	0 J	0	0	0.54		0.35	0.43 J	0.29 J	0.25 J	0.36 J	NA	NA	0	3.4	11.12 J	588 J	516	727	597	120 J	227.6 J	86.47 J	112.1 J	83.97 J
General Chemistry (mg/L)																																
T. Alkalinity (asCaCO ₃) ⁶	-			108	196	466	450	282	NA	NA	NA			237	336	245	356	255	NA	NA	NA			331		338	334	327	316	NA	NA	NA

- Qualifiers:

 J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

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



TABLE 2 SUMMARY OF GROUNDWATER ELEVATIONS

August 2024 Post Remedial Monitoring Event 73-79 West Huron Street Site (C915282) Buffalo, New York

	TOR	08/1	5/24
Location	Elevation (fmsl)	DTW (fbTOR)	GWE (fmsl)
HMW-1	609.52	(6)	(6)
HMW-2	606.75	9.18	597.57
HMW-3	606.45	9.10	597.35
HMW-4	606.75	9.51	597.24
HMW-5	606.31	9.4	596.91
HMW-6	606.20	9.51	596.69
MW-10	606.44	9.13	597.31
GSW - 1	600.02	2.93	597.09

Notes:

- 1. DTW = depth to water
- 2. fbTOR = feet below top of riser
- 3. fmsl = feet above mean sea level
- 4. GWE = groundwater elevation
- 5. TOR = top of riser
- 6. No water level measurement obtained, due to damage of roadbox.

APPENDIX A

SITE INSPECTION (IC/EC) FORM
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



6''	- No	C045282	Site Details		Box 1	
Sit	e No.	C915282				
Sit	e Name 73-	79 W. Huron St.				
Cit Co	e Address: 7 y/Town: But unty:Erie e Acreage: (Zip Code: 14202			
Re	porting Perio	od: April 28, 2024 to April	28, 2025			
					YES	NO
1.	Is the inform	mation above correct?			X -	
	If NO, inclu	de handwritten above or	on a separate sheet.			
2.		or all of the site property the nendment during this Rep	peen sold, subdivided, merg orting Period?	ed, or undergone a	į.	X
3.		peen any change of use a RR 375-1.11(d))?	t the site during this Reporti	ing Period		×
4.		ederal, state, and/or local property during this Rep	permits (e.g., building, disconting Period?	harge) been issued		*
	If you answ	wered YES to questions nentation has been prev	2 thru 4, include docume viously submitted with this	ntation or evidence s certification form.		
5.	Is the site of	currently undergoing deve	lopment?			X
					Box 2	
					YES	NO
6.		nt site use consistent wit Residential, Commercial,	n the use(s) listed below? and Industrial		≰	П
7.	Are all ICs	in place and functioning a	s designed?	×	Ü,	
	IF TH	HE ANSWER TO EITHER DO NOT COMPLETE TH	QUESTION 6 OR 7 IS NO, si E REST OF THIS FORM. Of	ign and date below a therwise continue.	nd	
AC	Corrective M	easures Work Plan must	be submitted along with th	is form to address th	iese issu	ies.
Sic	nature of Ow	ner, Remedial Party or De	signated Representative	Date		

	Box 2	Α
	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.		
 Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years) 	×	U Já
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. C915282	Воз	c 3
Description of Institutional Controls		

Parcel 111.37-4-10 Owner

Emerson Huron, LLC

Institutional Control

Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan

IC/EC Plan

Ground Water Use Restriction

- Site use is limited to Restricted Residential, Commercial and Industrial uses as described in 6 NYCRR Part 375;
- Prohibition against use of groundwater without treatment
- · Provision for SVI evaluation of occupied buildings on site
- Annual monitoring of groundwater
- Compliance with excavation plan
- Monitoring to assess the performance and effectiveness of the remedy

111.37-4-11

Emerson Huron, LLC

IC/EC Plan

Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan

- Site use is limited to Restricted Residential, Commercial and Industrial uses as described in 6 NYCRR Part 375;
- · Prohibition against use of groundwater without treatment;
- · Provision for SVI evaluation of occupied buildings on site;
- Annual monitoring of groundwater;
- · Compliance with excavation plan and
- Monitoring to assess the performance and effectiveness of the remedy.

111.37-4-17.2

Emerson Huron, LLC

Monitoring Plan
Landuse Restriction
Site Management Plan

IC/EC Plan

Ground Water Use Restriction Soil Management Plan

- Site use is limited to Restricted Residential, Commercial and Industrial uses as described in 6 NYCRR Part 375;
- · Prohibition against use of groundwater without treatment;
- Provision for SVI evaluation of occupied buildings on site;
- Annual monitoring of groundwater;
- · Compliance with excavation plan and
- Monitoring to assess the performance and effectiveness of the remedy.

Box 4

Description of Engineering Controls

<u>Parcel</u>

Engineering Control

111.37-4-10

Vapor Mitigation

Active SSDS

Periodic Review Report (PRR) Certification Statements

 I certify by checking "YES" be 	wore	mat
--	------	-----

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

YES NO



- 2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:
 - (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
 - (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
 - (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
 - (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
 - (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO



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

A Corrective Measures Work Plan must be submitted alon-	g with this form to address these issues:
---	---

Signature of Owner, Remedial Party or Designated Representative	Date

IC CERTIFICATIONS SITE NO. C915282

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.

print name at 455 Cayana rel	Suite 100
print name print business addr	ess
am certifying as Sentor Property Manager	(Owner or Remedial Party)
for the Site named in the Site Details Section of this form.	d v
Cont Make	4/22/25
Signature of Owner, Remedial Party, or Designated Representative	Date
Rendering Certification	

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional 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.

Thomas H. Forbes, P.E.	at Roux Env Eng & Geo, DPC 2558 Hamburg Turnpike, Buffalo, NY 14218
print name	print business address
am certifying as a Qualified Environment	ental Professional for the Remedial Party
, , ,	(Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification Date

APPENDIX B

SITE PHOTOLOG



Client Name: Site Location:

Project No.:

Emerson Huron, LLC

Photo No. Date

1

04/14/25

Direction Photo Taken:

Interior

Description:

Vapor Assessment ASD System Monitoring:

Magnehelic Gauge Pressure Reading MAG-1 (0.90 inches of water)



Photo No. Date 2 04/14/25

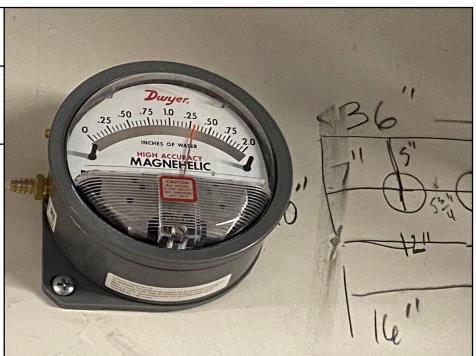
Direction Photo Taken:

Interior

Description:

Vapor Assessment ASD System Monitoring:

Magnehelic Gauge Pressure Reading MAG-2 (1.30 inches of water)





Client Name:

Site Location:

Project No.:

Emerson Huron, LLC

Photo No.

Date

3

04/14/25

Direction Photo Taken:

South

Description:

Annual Site Inspection:

Exterior Elevated Gymnasium Addition.

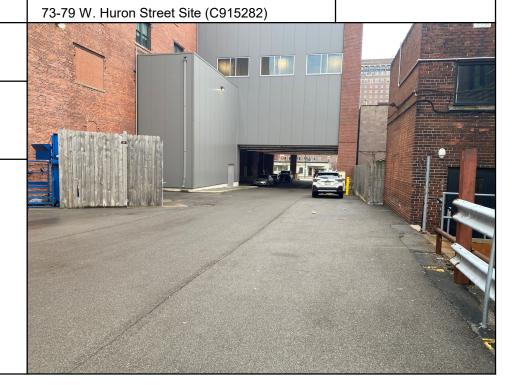


Photo No.

Date

4

04/14/25

Direction Photo Taken:

Interior

Description:

Annual Site Inspection:

Sealed sumps in northside of basement.

Maxithins



Client Name:

Site Location:

Project No.:

Emerson Huron, LLC

Date

5

Photo No.

04/14/25

Direction Photo Taken:

Interior

Description:

Annual Site Inspection: Sealed sump in basement.



Photo No.

Date

6

04/14/25

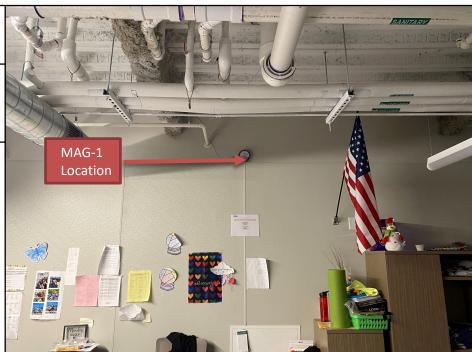
Direction Photo Taken:

Interior

Description:

Annual Site Inspection:

Classroom location of MAG-1





Client Name:

Site Location:

Project No.:

Emerson Huron, LLC

Photo No. Date

7

04/14/25

Direction Photo Taken:

Interior

Description:

Annual Site Inspection
Telecommunications Room

location of MAG-2



Photo No.

Date

8

04/14/25

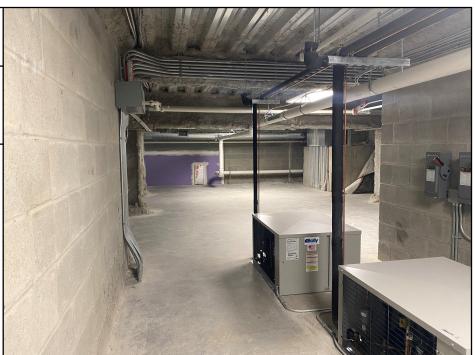
Direction Photo Taken:

Interior

Description:

Annual Site Inspection:

Basement crawl space west side of the building.





PHOTOGRAPHIC LOG

Client Name:

Emerson Huron, LLC

Photo No.

Date

9

04/14/25

Direction Photo Taken:

Interior

Description:

Annual Site Inspection:

Electrical room north end of building



73-79 W. Huron Street Site (C915282)

Project No.:

B0441-022-001

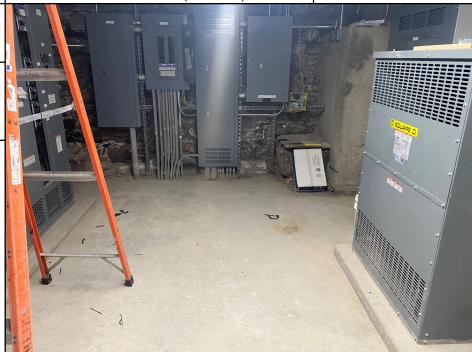


Photo No. Date

10

04/14/25

Direction Photo Taken:

Interior

Description:

Annual Site Inspection:

Main hallway in basement.



Prepared By: TAB



PHOTOGRAPHIC LOG

Client Name:

Emerson Huron, LLC

Photo No.

Date

11

04/14/25

Direction Photo Taken:

West/Northwest

Description:

Annual Site Inspection:

Exterior elevated gymnasium addition façade on West Huron Street.



73-79 W. Huron Street Site (C915282)

Project No.:

B0441-022-001



Photo No.

Date

12

04/14/25

Direction Photo Taken:

West

Description:

Annual Site Inspection:

Sidewalk along West Huron Street.



Prepared By: _____TAB



PHOTOGRAPHIC LOG

Client Name:

Emerson Huron, LLC

Photo No.

Date

13

04/24/24

Direction Photo Taken:

West/Northwest

Description:

Annual Site Inspection:

Damaged monitoing well HMW-1. Repaired in October 2024.



73-79 W. Huron Street Site (C915282)

Project No.:

B0441-022-001



Photo No.

Date

14

04/14/25

Direction Photo Taken:

West

Description:

Annual Site Inspection:

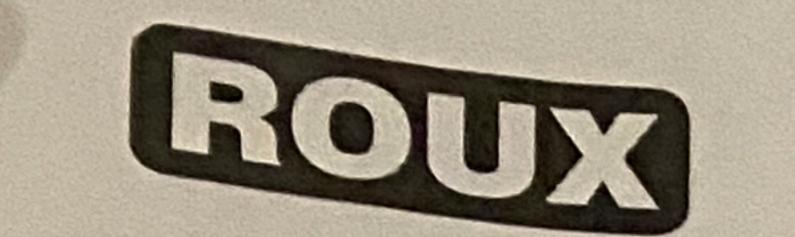
Repaired HMW-1



Prepared By: _____TAB

APPENDIX C

ASD SYSTEM INSPECTION SHEETS

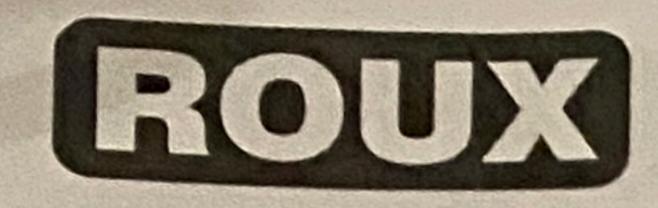


Monthly Log Sheet Active Sub-Slab Depressurization System MAG - 1

Emerson School, 73 - 79 West Huron Street Site, Buffalo NY

Room

Buffalo NY						
Date	Initials	Pressure Reading (inches of WC)	Time of Reading	Notes/Information		
8/17-123	TARS	0.90	944	gove Benestrani to Junes + Kylen		
9/18/23	9.4.Ag	0.85	9:25			
10/18/23	Q.C. A	0,90	10:20			
/ //	1.0/		7:27			
1/18/23	1.15	0.85	1:15			
1 1			7:45			
2/1/04			9:04 pm			
3/18/24	4.4.	0.90	1:14 PM			
4/17/24	4.6.	0.90	9:20 AM			
5/16/24			9:08 AM			
6/17/24		0.85	2:10 AM			
7/19/24	11/1/	0,90	9:43 AM			
8/15/24	41/1	0.90	8.15 AM			
19/1/2/			1:25,000			
10/1/24	1.1.	1,90	11:25 AM			
1-1-1						



Monthly Log Sheet Active Sub-Slab Depressurization System MAG - 1

Emerson School, 73 - 79 West Huron Street Site, Buffalo NY

B14

	Buttalo NY				
	Date	Initials	Pressure Reading (inches of WC)	Time of Reading	Notes/Information
	11/18/24	40.1	0.90	1:30,000	
	12/19/24	4.6.	0.90	213300	
	1/23/25	4.0	0.50	10:50 AM	
	2/24/25			1:17,00	
1900000	3/20/25			9:03 AM	
	4111 125	《通报》	0.90	8:25	Annul Forspritin

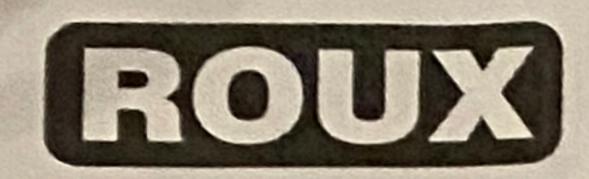


Monthly Log Sheet Active Sub-Slab Depressurization System MAG - #2

Emerson School, 73 - 79 West Huron Street Site, Buffalo NY

Date	Initials	Pressure Reading (inches of WC)	Time of Reading	Notes/Information
10/18/2	3 A.A.	1,90	10:20 AM	
1/20/2	3/1/10	1,90	7:29 AM	
12/15/2	3 4.1.	1.90	1:15 pm	
1/23/2	4 1.0.	1.90	7:40 An	
2/16/2	4.48	1.90	9:01 AM	
3/18/24	As 4.	1.70	1:12 PM	
4/17/24			9:22 AM	
5/16/2			9:05 AM	
, ,	4.6.6		2:08 PM	
12/1	11/		9:145 AM	
8/15/24	4.15	1.30	8:15 AM	
9/17/23	19/1/8	1.35~	1:27 pm	
10/17/29	1 9.6.	1.35	11:25 AM	
11/18/24	1.6.1	1.35	1:32 pm	
12/1/2	4/1/8	1,35	2:34/00	

BI



Monthly Log Sheet Active Sub-Slab Depressurization System MAG - 12

Emerson School, 73 - 79 West Huron Street Site, Buffalo NY

	Date	Initials	Pressure Reading (inches of WC)	Time of Reading	Notes/Information
	1/23/25	An C.X	1.30	10:57 AM	
	2/24/25	1.1/	1.30	1:19 PM	
10000000	3/3/1/5		201	9:02 AM	
	4114125	ARS	1,30	8.24 AM	Annal Inspection
-					
-					
-					
-					
-					

APPENDIX D

GROUNDWATER ANALYTICAL DATA PACKAGE & FIELD SHEETS



Project Name: Emerson	Scho-		WELL NUMBER: HMW- 7		
Project Number:	(Sample Matrix: ☐ GROUNDWATER ☐		
Client:			Weather:		
WELL DATA:					
Casing Diameter (inches):	2"		Casing Material: 0 V C		
Screened interval (fbTOR):	20 to 10		Screen Material:		
Static Water Level (fbTOR):		18	Bottom Depth (fbTOR): 556.75		
Elevation Top of Well Riser (fms	1: 666.7	5	Ground Surface Elevation (fmsl):		
Elevation Top of Screen (fmsl):	596.75		Stick-up (feet): Flush mut		
PDB DATA:					
Depth of PDB in well (fbTOR):	588.75	Is PDB har	ness and line dedicated to sample location?	yes	no
Condition of Well:	2007	Is PDB loc	ated at center of screen?	yes	ng
Field Personnel:	T43		~ 3.0' of al Bottom of	! well	
Date of PDB placement. Time of PDB placement:	7/25/29				
	940				
Retrieval:					
Date of PDB retrieval.	8115/20	1			
Time of PDB retrieval:	830				
Condition of PDB:	9009				
Disposal:					
Remaining groundwater disposal	method:				
GROUND SURFACE	MOBILE CARBON UNIT				
□ CONTAINERIZED □	OTHER				
If PDB contains visible sedi	iment, check PE)B integrity	and re-sample.		
COMMENTS:				0	
	PREPAR	PED BY:	243		
	FILEN	LU DI.	<u> </u>		



Project Name: EMUSSON	School		WELL NUMBER: HMW	r-3	
Project Number:		Sample Matrix: ☐ GROUNDWATER ☐			
Client:			Weather:		
WELL DATA:					
Casing Diameter (inches):	211		Casing Material:	۲	
Screened interval (fbTOR):	18'-8'		Screen Material:	<u></u>	
Static Water Level (fbTOR):	9.10		Bottom Depth (fbTOR):	588.45	
Elevation Top of Well Riser (fmsl)			Ground Surface Elevation (fms		
Elevation Top of Screen (fmsl):	598.4		Stick-up (feet):	Flushent	
PDB DATA:					
	552.54	Is PDB ha	rness and line dedicated to sample	e location?	no
Condition of Well:		Is PDB loc	ated at center of screen?	yes	(ng
Field Personnel: 1+3			~3.0' ell ol	Biten	
Pate of PDB retrieval. Time of PDB retrieval: Condition of PDB:	8 15 25 200 2 500 2		-		
Disposal:			1		
Remaining groundwater disposal r	_				
	IOBILE CARBON UNIT				
f PDB contains visible sedin	nent, check PL	B integrity	and re-sample.		
	PREPAR	RED BY:	TAB		



<i>1</i> 3				(FAGGIVE	L DIFFOSION BAG
Project Name: Emesea S	chool		WELL NUMBER: HMW-	1	
Project Number:			Sample Matrix: GROUNDWAT	ER 🗆	
Client:			Weather:		
WELL DATA:					
Casing Diameter (inches):	2"		Casing Material: PVL		
Screened interval (fbTOR):	18-8		Screen Material:		
Static Water Level (fbTOR):	9.51			8.75	
Elevation Top of Well Riser (fmsl)		25	Ground Surface Elevation (fms		
Elevation Top of Screen (fmsl):	598.7			ishment	
PDB DATA:					
Depth of PDB in well (fbTOR):	582.75	ls PDB han	ness and line dedicated to sample	e location?	no
Condition of Well:	9602	Is PDB loca	ated at center of screen?	yes	6
Field Personnel:	T+3		~3.0 of	aft Botton	
Installation: Date of PDB placement. Time of PDB placement: Retrieval: Date of PDB retrieval.	7/25/24				
Time of PDB retrieval:		24			
Condition of PDB:	910		-		
Disposal:	50	01		a'	
Remaining groundwater disposal r					-3
	OBILE CARBON UNIT				
□ CONTAINERIZED □ O	OTHER				
f PDB contains visible sedin	nent, check PD	B integrity	and re-sample.		
	ppen.	ED BY:	n+3		
	PKFPAKI	-11 PC Y -	1 3/		



Project Name: Emcoson	School		WELL NUMBER: HMW.5		
Project Number:			Sample Matrix: ☐ GROUNDWATER ☐		
Client:			Weather:		
WELL DATA.					
WELL DATA:	2.,		0.1/		-
Casing Diameter (inches):	2"		Casing Material: PUC Screen Material: PVC		
Screened interval (fbTOR):	0.40				
Static Water Level (fbTOR):	940		Bottom Depth (fbTOR): 589.37		
Elevation Top of Well Riser (fmsl)	599.37		Ground Surface Elevation (fmsl):		
Elevation Top of Screen (fmsl):	5/1.3 F		Stick-up (feet): Flusher+		
PDB DATA:					
Depth of PDB in well (fbTOR):	586.37	is PDB har	ness and line dedicated to sample location?	yes	(ng
Condition of Well: 5 v	0 2	Is PDB loc	ated at center of screen?	yes	90
Field Personnel: TA	3				
Installation:					
Date of PDB placement.	7/25/2	2.4			
Time of PDB placement:	1022	/			
Retrieval:					
Date of PDB retrieval.	815124				
Time of PDB retrieval:	725		2		
Condition of PDB:	300				
Disposal:					
Remaining groundwater disposal r	method:				
	OBILE CARBON UNIT			*	
	OTHER				
If PDB contains visible sedin	nent, check PD	OB integrity	and re-sample.		
	PREPAR	RED BY:	TAB		



Project Name: Emusson	School	WELL NUMBER: MW-/O
Project Number:		Sample Matrix: ☐ GROUNDWATER ☐
Client:		Weather:
WELL DATA:		
Casing Diameter (inches):	43	Casing Material:
Screened interval (fbTOR):	15 - 5	Screen Material:
Static Water Level (fbTOR):	9.10	Bottom Depth (fbTOR): 5-5/. 4 9
Elevation Top of Well Riser (fmsl)		
Elevation Top of Screen (fmsl):	601,4	
PDB DATA:		
Depth of PDB in well (fbTOR): 5	75.49	Is PDB harness and line dedicated to sample location? yes no
Condition of Well:	1.	Is PDB located at center of screen? yes no
Field Personnel: TAG		~ 3.0 Pf form Botton
Time of PDB placement: Retrieval: Date of PDB retrieval. Time of PDB retrieval: Condition of PDB:	8/15/ 8/15/ 900/	855
Disposal:		
Remaining groundwater disposal n	nethod:	
☐ GROUND SURFACE ☐ M	OBILE CARBON UNIT	
If PDB contains visible sedin	nent, check PDI	DB integrity and re-sample.
	PREPARE	RED BY: TWO



GROUNDWATER FIELD FORM

Project Nar	ne: Eme	run s	Looks					Date:	8/15	124
Location:	01.10			Project	No.:			Field Te		100
Well No	. (SU)	1-1	Diameter (in	nches): Suc	vr.1	Samp	ie Dat	e/Time: 😽	15/27	
	pth (fbTOR):	_	Water Colu	mn (ft):			_	sampled:	2,53	
	c) (fbTOR):	.93		olume (gal):	_			Development	☐ Sample	☐ Purge & Sample
Total Depth				e Purged (gal):		Purge				
	Water	Acc		l	1			E + + *		
Time	Level (fbTOR)	Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbio (NTU		DO (mg/L)	ORP (mV)	Appearance & Odor
815	o Initial	_	7.36	18.4	3277	125		_	115	der No 6
	1									
	2									
	3	i				-				
	4	t				<u> </u>	_			
	5	1					-			
	6					-	-	<u> </u>		
	7									
	9		-							
	9							U		
	10									
Sample l	nformation:									
	S1									
	S2									
Well No			Di	- 5 3 -			-	(T)		
			Diameter (in				_	/ Time:		
Product Dep			Water Colum			DTW when sampled:				
DTW (static			One Well Vo			Purpose: Development Sample Purgo Purge Method:			☐ Purge & Sample	
Total Depth	7/1	· · · · · · · · · · · · · · · · · · ·	lotal volum	e Purged (gal):		Purge	Metho	d:		
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbid (NTU		DO (mg/L)	ORP (mV)	Appearance & Odor
	o Initial						\neg			
	1									
	2						\neg			
	3		•				-			
	4						\dashv			
	5						\dashv			
	6						-			
	7						-			
	8						-			
							-			
							-			
	10									
	formation:									
	51									
	52									
									Stabi	lization Criteria
REMARKS	S:						Volun	ne Calculation	Paramet	er Criteria
							Diar		pН	± 0.1 unit
							1"		SC	± 3%
						Turbidit				
lote: All wet	or loval man	wiromorto -	n in fact di	anna form !	n af dec -		4"		DO	± 0.3 mg/L
iole. All Wâl	e: All water level measurements are in feet, distance from top of riser. 6" 1.469 ORP ± 10 mV									

PREPARED BY:



ANALYTICAL REPORT

Lab Number: L2446388

Client: Roux

2558 Hamburg Turnpike

Suite 300

Buffalo, NY 14218

ATTN: Thomas Forbes Phone: (716) 856-0599

Project Name: EMERSON SCHOOL

Project Number: 4332.0061B000-03

Report Date: 08/22/24

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

ANALYTICAL

Project Name: EMERSON SCHOOL **Project Number:** 4332.0061B000-03

Lab Number: Report Date: L2446388

rt Date: 08/22/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2446388-01	HMW-2	WATER	BUFFALO NY	08/15/24 08:30	08/15/24
L2446388-02	HMW-3	WATER	BUFFALO NY	08/15/24 08:45	08/15/24
L2446388-03	HMW-4	WATER	BUFFALO NY	08/15/24 09:10	08/15/24
L2446388-04	HMW-5	WATER	BUFFALO NY	08/15/24 09:25	08/15/24
L2446388-05	GSW-1	WATER	BUFFALO NY	08/15/24 08:15	08/15/24
L2446388-06	MW-10	WATER	BUFFALO NY	08/15/24 08:55	08/15/24



Project Name:EMERSON SCHOOLLab Number:L2446388Project Number:4332.0061B000-03Report Date:08/22/24

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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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 question	ons.



Project Name:EMERSON SCHOOLLab Number:L2446388Project Number:4332.0061B000-03Report Date:08/22/24

Case Narrative (continued)

Report Submission

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

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

Cattlin Wallet Caitlin Walukevich

Authorized Signature:

Title: Technical Director/Representative

Date: 08/22/24



ORGANICS



VOLATILES



L2446388

Project Name: EMERSON SCHOOL

Project Number: 4332.0061B000-03

SAMPLE RESULTS

Report Date: 08/22/24

Lab Number:

Lab ID: L2446388-01 Date Collected: 08/15/24 08:30

Client ID: Date Received: 08/15/24 HMW-2 Sample Location: Field Prep: **BUFFALO NY** Not Specified

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 08/21/24 00:15

Analyst: MJV

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



MDL

Dilution Factor

Project Name: EMERSON SCHOOL Lab Number: L2446388

Project Number: 4332.0061B000-03 **Report Date:** 08/22/24

SAMPLE RESULTS

Lab ID: L2446388-01 Date Collected: 08/15/24 08:30

Client ID: HMW-2 Date Received: 08/15/24 Sample Location: BUFFALO NY Field Prep: Not Specified

Qualifier

Units

RL

Result

Sample Depth:

Parameter

Parameter	Result	Qualifier	Jillo	NL	WIDE	Dilution Factor
Volatile Organics by GC/MS - Wes	stborough Lab					
1,3-Dichlorobenzene	ND	1	ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND	ı	ug/l	2.5	0.17	1
p/m-Xylene	ND	ı	ug/l	2.5	0.70	1
o-Xylene	ND	ı	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND	ı	ug/l	2.5	0.70	1
Styrene	ND	ı	ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND	ı	ug/l	5.0	1.0	1
Acetone	16	ı	ug/l	5.0	1.5	1
Carbon disulfide	ND	ı	ug/l	5.0	1.0	1
2-Butanone	ND	ı	ug/l	5.0	1.9	1
4-Methyl-2-pentanone	12	ı	ug/l	5.0	1.0	1
2-Hexanone	ND	ı	ug/l	5.0	1.0	1
Bromochloromethane	ND	ı	ug/l	2.5	0.70	1
1,2-Dibromoethane	ND	ı	ug/l	2.0	0.65	1
n-Butylbenzene	ND	ı	ug/l	2.5	0.70	1
sec-Butylbenzene	ND	ı	ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND	ı	ug/l	2.5	0.70	1
Isopropylbenzene	ND	ı	ug/l	2.5	0.70	1
p-Isopropyltoluene	ND	ı	ug/l	2.5	0.70	1
n-Propylbenzene	ND	ı	ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND	ı	ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND	ı	ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND	ı	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND	ı	ug/l	2.5	0.70	1
Methyl Acetate	ND	1	ug/l	2.0	0.23	1
Cyclohexane	ND	ı	ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND	1	ug/l	2.5	0.70	1
Methyl cyclohexane	ND	ı	ug/l	10	0.40	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	111	70-130	
Toluene-d8	95	70-130	
4-Bromofluorobenzene	88	70-130	
Dibromofluoromethane	105	70-130	



Project Name: EMERSON SCHOOL

Project Number: 4332.0061B000-03

Lab Number: L2446388

Report Date: 08/22/24

SAMPLE RESULTS

Lab ID: L2446388-02 D

Client ID: HMW-3 Sample Location: **BUFFALO NY**

08/15/24 08:45 Date Received: 08/15/24 Field Prep: Not Specified

Date Collected:

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 08/21/24 14:06

Analyst: **RAW**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Wes	stborough Lab						
Methylene chloride	ND		ug/l	12	3.5	5	
1,1-Dichloroethane	ND		ug/l	12	3.5	5	
Chloroform	ND		ug/l	12	3.5	5	
Carbon tetrachloride	ND		ug/l	2.5	0.67	5	
1,2-Dichloropropane	ND		ug/l	5.0	0.68	5	
Dibromochloromethane	ND		ug/l	2.5	0.74	5	
1,1,2-Trichloroethane	ND		ug/l	7.5	2.5	5	
Tetrachloroethene	ND		ug/l	2.5	0.90	5	
Chlorobenzene	ND		ug/l	12	3.5	5	
Trichlorofluoromethane	ND		ug/l	12	3.5	5	
1,2-Dichloroethane	ND		ug/l	2.5	0.66	5	
1,1,1-Trichloroethane	ND		ug/l	12	3.5	5	
Bromodichloromethane	ND		ug/l	2.5	0.96	5	
trans-1,3-Dichloropropene	ND		ug/l	2.5	0.82	5	
cis-1,3-Dichloropropene	ND		ug/l	2.5	0.72	5	
Bromoform	ND		ug/l	10	3.2	5	
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	0.84	5	
Benzene	ND		ug/l	2.5	0.80	5	
Toluene	280		ug/l	12	3.5	5	
Ethylbenzene	330		ug/l	12	3.5	5	
Chloromethane	ND		ug/l	12	3.5	5	
Bromomethane	ND		ug/l	12	3.5	5	
Vinyl chloride	ND		ug/l	5.0	0.36	5	
Chloroethane	ND		ug/l	12	3.5	5	
1,1-Dichloroethene	ND		ug/l	2.5	0.84	5	
trans-1,2-Dichloroethene	ND		ug/l	12	3.5	5	
Trichloroethene	ND		ug/l	2.5	0.88	5	
1,2-Dichlorobenzene	ND		ug/l	12	3.5	5	



Project Name: EMERSON SCHOOL Lab Number: L2446388

Project Number: 4332.0061B000-03 **Report Date:** 08/22/24

SAMPLE RESULTS

Lab ID: L2446388-02 D Date Collected: 08/15/24 08:45

Client ID: HMW-3 Date Received: 08/15/24 Sample Location: BUFFALO NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough Lab					
1,3-Dichlorobenzene	ND		ug/l	12	3.5	5
1,4-Dichlorobenzene	ND		ug/l	12	3.5	5
Methyl tert butyl ether	ND		ug/l	12	0.83	5
p/m-Xylene	1000		ug/l	12	3.5	5
o-Xylene	23		ug/l	12	3.5	5
cis-1,2-Dichloroethene	ND		ug/l	12	3.5	5
Styrene	ND		ug/l	12	3.5	5
Dichlorodifluoromethane	ND		ug/l	25	5.0	5
Acetone	ND		ug/l	25	7.3	5
Carbon disulfide	ND		ug/l	25	5.0	5
2-Butanone	ND		ug/l	25	9.7	5
4-Methyl-2-pentanone	6.8	J	ug/l	25	5.0	5
2-Hexanone	ND		ug/l	25	5.0	5
Bromochloromethane	ND		ug/l	12	3.5	5
1,2-Dibromoethane	ND		ug/l	10	3.2	5
n-Butylbenzene	ND		ug/l	12	3.5	5
sec-Butylbenzene	ND		ug/l	12	3.5	5
1,2-Dibromo-3-chloropropane	ND		ug/l	12	3.5	5
Isopropylbenzene	9.0	J	ug/l	12	3.5	5
p-Isopropyltoluene	ND		ug/l	12	3.5	5
n-Propylbenzene	7.9	J	ug/l	12	3.5	5
1,2,3-Trichlorobenzene	ND		ug/l	12	3.5	5
1,2,4-Trichlorobenzene	ND		ug/l	12	3.5	5
1,3,5-Trimethylbenzene	99		ug/l	12	3.5	5
1,2,4-Trimethylbenzene	38		ug/l	12	3.5	5
Methyl Acetate	ND		ug/l	10	1.2	5
Cyclohexane	110		ug/l	50	1.4	5
1,4-Dioxane	ND		ug/l	1200	300	5
Freon-113	ND		ug/l	12	3.5	5
Methyl cyclohexane	16	J	ug/l	50	2.0	5
			-			

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	99	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	88	70-130	
Dibromofluoromethane	99	70-130	



08/15/24 09:10

Project Name: EMERSON SCHOOL

Project Number: 4332.0061B000-03

SAMPLE RESULTS

Lab Number: L2446388

Report Date: 08/22/24

Lab ID: L2446388-03

Client ID: HMW-4

Sample Location: BUFFALO NY

Date Received: 08/15/24 Field Prep: Not Specified

Date Collected:

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/21/24 01:05

Analyst: MJV

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

ND

ND

ND

ND



1

1

1

1

0.50

2.5

0.50

2.5

ug/l

ug/l

ug/l

ug/l

0.17

0.70

0.18

0.70

1,1-Dichloroethene

Trichloroethene

1,2-Dichlorobenzene

trans-1,2-Dichloroethene

MDL

Dilution Factor

Project Name: EMERSON SCHOOL Lab Number: L2446388

Project Number: 4332.0061B000-03 **Report Date:** 08/22/24

SAMPLE RESULTS

Lab ID: L2446388-03 Date Collected: 08/15/24 09:10

Client ID: HMW-4 Date Received: 08/15/24 Sample Location: BUFFALO NY Field Prep: Not Specified

Qualifier

Units

RL

Result

Sample Depth:

Parameter

- urumeter			• • • •			
Volatile Organics by GC/MS - Wes	tborough 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	0.17	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	16	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	12	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	
n-Butylbenzene	ND	ug/l	2.5	0.70	1	
sec-Butylbenzene	ND	ug/l	2.5	0.70	1	
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5	0.70	1	
Isopropylbenzene	ND	ug/l	2.5	0.70	1	
p-Isopropyltoluene	ND	ug/l	2.5	0.70	1	
n-Propylbenzene	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	
1,3,5-Trimethylbenzene	ND	ug/l	2.5	0.70	1	
1,2,4-Trimethylbenzene	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	

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	108	70-130	
Toluene-d8	95	70-130	
4-Bromofluorobenzene	90	70-130	
Dibromofluoromethane	101	70-130	



08/15/24 09:25

Project Name: EMERSON SCHOOL

Project Number: 4332.0061B000-03

SAMPLE RESULTS

Lab Number: L2446388

Report Date: 08/22/24

Lab ID: L2446388-04 Date Collected:

Client ID: Date Received: 08/15/24 HMW-5 Sample Location: Field Prep: **BUFFALO NY** Not Specified

Sample Depth:

Matrix: Water Analytical Method: 1,8260D

Analytical Date: 08/21/24 01:30

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Wes	tborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1	
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1	
Chloroform	2.1	J	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	



MDL

Dilution Factor

Project Name: EMERSON SCHOOL Lab Number: L2446388

Project Number: 4332.0061B000-03 **Report Date:** 08/22/24

SAMPLE RESULTS

Lab ID: L2446388-04 Date Collected: 08/15/24 09:25

Client ID: Date Received: 08/15/24
Sample Location: BUFFALO NY Field Prep: Not Specified

Qualifier

Units

RL

Result

Sample Depth:

Parameter

- urumeter			• • • •			
Volatile Organics by GC/MS - Wes	tborough 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	0.17	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	15	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	9.5	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	
n-Butylbenzene	ND	ug/l	2.5	0.70	1	
sec-Butylbenzene	ND	ug/l	2.5	0.70	1	
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5	0.70	1	
Isopropylbenzene	ND	ug/l	2.5	0.70	1	
p-Isopropyltoluene	ND	ug/l	2.5	0.70	1	
n-Propylbenzene	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	
1,3,5-Trimethylbenzene	ND	ug/l	2.5	0.70	1	
1,2,4-Trimethylbenzene	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	

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	95	70-130	
4-Bromofluorobenzene	89	70-130	
Dibromofluoromethane	105	70-130	



08/15/24 08:15

Project Name: EMERSON SCHOOL

Project Number: 4332.0061B000-03

SAMPLE RESULTS

Lab Number: L2446388

Report Date: 08/22/24

Lab ID: L2446388-05 Date Collected:

Client ID: Date Received: GSW-1 Sample Location: **BUFFALO NY**

08/15/24 Field Prep: Not Specified

Sample Depth:

Matrix: Water Analytical Method: 1,8260D

Analytical Date: 08/21/24 01:56

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westb	orough 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	11		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	5.8		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.17	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	1.8	J	ug/l	2.5	0.70	1
Trichloroethene	2.2		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1



Project Name: EMERSON SCHOOL Lab Number: L2446388

Project Number: 4332.0061B000-03 **Report Date:** 08/22/24

SAMPLE RESULTS

Lab ID: L2446388-05 Date Collected: 08/15/24 08:15

Client ID: GSW-1 Date Received: 08/15/24
Sample Location: BUFFALO NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough 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	0.17	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	63		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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	0.77	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	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	95	70-130	
4-Bromofluorobenzene	89	70-130	
Dibromofluoromethane	104	70-130	



08/15/24 08:55

Project Name: EMERSON SCHOOL

Project Number: 4332.0061B000-03

SAMPLE RESULTS

Lab Number: L2446388

Report Date: 08/22/24

SAMPLE RESUL

Lab ID: L2446388-06 D

Client ID: MW-10 Sample Location: BUFFALO NY Date Received: 08/15/24
Field Prep: Not Specified

Date Collected:

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/21/24 02:21

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Westl	oorough 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	ND		ug/l	1.0	0.32	2	
Toluene	170		ug/l	5.0	1.4	2	
Ethylbenzene	55		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	0.14	J	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: EMERSON SCHOOL Lab Number: L2446388

Project Number: 4332.0061B000-03 **Report Date:** 08/22/24

SAMPLE RESULTS

Lab ID: L2446388-06 D Date Collected: 08/15/24 08:55

Client ID: MW-10 Date Received: 08/15/24 Sample Location: BUFFALO NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough 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	0.33	2
p/m-Xylene	72		ug/l	5.0	1.4	2
o-Xylene	5.0		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	11		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
n-Butylbenzene	1.6	J	ug/l	5.0	1.4	2
sec-Butylbenzene	2.1	J	ug/l	5.0	1.4	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Isopropylbenzene	7.4		ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
n-Propylbenzene	42		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
1,3,5-Trimethylbenzene	6.9		ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	ND		ug/l	5.0	1.4	2
Methyl Acetate	ND		ug/l	4.0	0.47	2
Cyclohexane	110		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	19	J	ug/l	20	0.79	2

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	97	70-130	
4-Bromofluorobenzene	92	70-130	
Dibromofluoromethane	89	70-130	



Project Name:EMERSON SCHOOLLab Number:L2446388Project Number:4332.0061B000-03Report Date:08/22/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 08/20/24 18:47

Analyst: MAG

arameter	Result	Qualifier Units	RL	MDL
olatile Organics by GC/MS	- Westborough Lab	for sample(s):	01,03-06 Bato	h: WG1961984-5
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:EMERSON SCHOOLLab Number:L2446388Project Number:4332.0061B000-03Report Date:08/22/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 08/20/24 18:47

Analyst: MAG

arameter	Result	Qualifier Units	RL	. MDL	
olatile Organics by GC/MS - \	Westborough Lab	for sample(s):	01,03-06	Batch: WG1961984	4-5
1,4-Dichlorobenzene	ND	ug/l	2.5	0.70	
Methyl tert butyl ether	ND	ug/l	2.5	0.17	
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	
n-Butylbenzene	ND	ug/l	2.5	0.70	
sec-Butylbenzene	ND	ug/l	2.5	0.70	
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5	0.70	
Isopropylbenzene	ND	ug/l	2.5	0.70	
p-Isopropyltoluene	ND	ug/l	2.5	0.70	
n-Propylbenzene	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	
1,3,5-Trimethylbenzene	ND	ug/l	2.5	0.70	
1,2,4-Trimethylbenzene	ND	ug/l	2.5	0.70	
Methyl Acetate	ND	ug/l	2.0	0.23	
Cyclohexane	ND	ug/l	10	0.27	
1,4-Dioxane	ND	ug/l	250	61.	
Freon-113	ND	ug/l	2.5	0.70	
Methyl cyclohexane	ND	ug/l	10	0.40	



Project Name: EMERSON SCHOOL Lab Number: L2446388

Project Number: 4332.0061B000-03 **Report Date:** 08/22/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 08/20/24 18:47

Analyst: MAG

Parameter Result Qualifier Units RL MDL

Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-06 Batch: WG1961984-5

		Acceptance		
Surrogate	%Recovery 0	Qualifier Criteria		
1,2-Dichloroethane-d4	103	70-130		
Toluene-d8	97	70-130		
4-Bromofluorobenzene	91	70-130		
Dibromofluoromethane	103	70-130		



 Project Name:
 EMERSON SCHOOL
 Lab Number:
 L2446388

 Project Number:
 4332.0061B000-03
 Report Date:
 08/22/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 08/21/24 12:28

Analyst: PID

arameter	Result	Qualifier Units	RL	MDL
olatile Organics by GC/MS -	· Westborough Lab	for sample(s):	02 Batch:	WG1962441-5
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:
 EMERSON SCHOOL
 Lab Number:
 L2446388

 Project Number:
 4332.0061B000-03
 Report Date:
 08/22/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 08/21/24 12:28

Analyst: PID

arameter	Result	Qualifier Units	RL	MDL
olatile Organics by GC/MS - \	Westborough Lab	for sample(s):	02 Batch:	WG1962441-5
1,4-Dichlorobenzene	ND	ug/l	2.5	0.70
Methyl tert butyl ether	ND	ug/l	2.5	0.17
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
n-Butylbenzene	ND	ug/l	2.5	0.70
sec-Butylbenzene	ND	ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5	0.70
Isopropylbenzene	ND	ug/l	2.5	0.70
p-Isopropyltoluene	ND	ug/l	2.5	0.70
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND	ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND	ug/l	2.5	0.70
Methyl Acetate	ND	ug/l	2.0	0.23
Cyclohexane	ND	ug/l	10	0.27
1,4-Dioxane	ND	ug/l	250	61.
Freon-113	ND	ug/l	2.5	0.70
Methyl cyclohexane	ND	ug/l	10	0.40



Project Name: EMERSON SCHOOL Lab Number: L2446388

Project Number: 4332.0061B000-03 **Report Date:** 08/22/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 08/21/24 12:28

Analyst: PID

Parameter Result Qualifier Units RL MDL

Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1962441-5

	Acceptance							
Surrogate	%Recovery 0	Qualifier Criteria						
1,2-Dichloroethane-d4	103	70-130						
Toluene-d8	101	70-130						
4-Bromofluorobenzene	93	70-130						
Dibromofluoromethane	106	70-130						



Project Name: EMERSON SCHOOL

Project Number: 4332.0061B000-03

Lab Number: L2446388

Parameter	LCS %Recovery	Qual	LCSD %Recov		Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Volatile Organics by GC/MS - Westborough I	Lab Associated	sample(s):	01,03-06 B	atch:	WG1961984	-3 WG19619	34-4			
Methylene chloride	89		88			70-130	1		20	
1,1-Dichloroethane	97		95			70-130	2		20	
Chloroform	92		93			70-130	1		20	
Carbon tetrachloride	100		100			63-132	0		20	
1,2-Dichloropropane	90		95			70-130	5		20	
Dibromochloromethane	86		88			63-130	2		20	
1,1,2-Trichloroethane	86		91			70-130	6		20	
Tetrachloroethene	100		100			70-130	0		20	
Chlorobenzene	93		94			75-130	1		20	
Trichlorofluoromethane	78		100			62-150	25	Q	20	
1,2-Dichloroethane	97		98			70-130	1		20	
1,1,1-Trichloroethane	94		96			67-130	2		20	
Bromodichloromethane	93		95			67-130	2		20	
trans-1,3-Dichloropropene	78		83			70-130	6		20	
cis-1,3-Dichloropropene	92		96			70-130	4		20	
Bromoform	90		95			54-136	5		20	
1,1,2,2-Tetrachloroethane	82		91			67-130	10		20	
Benzene	95		95			70-130	0		20	
Toluene	92		92			70-130	0		20	
Ethylbenzene	95		95			70-130	0		20	
Chloromethane	88		84			64-130	5		20	
Bromomethane	46		58			39-139	23	Q	20	
Vinyl chloride	100		100			55-140	0		20	



Project Name: EMERSON SCHOOL

Project Number: 4332.0061B000-03

Lab Number: L2446388

Parameter	LCS %Recovery	Qual	LCSD %Recovery	%Recovery Qual Limits	RPD	RPD Qual Limit	s
olatile Organics by GC/MS -	Westborough Lab Associated	l sample(s):	01,03-06 Batch:	WG1961984-3 WG1961984	1-4		
Chloroethane	55		69	55-138	23	Q 20	
1,1-Dichloroethene	100		98	61-145	2	20	
trans-1,2-Dichloroethene	93		92	70-130	1	20	
Trichloroethene	88		93	70-130	6	20	
1,2-Dichlorobenzene	94		95	70-130	1	20	
1,3-Dichlorobenzene	95		96	70-130	1	20	
1,4-Dichlorobenzene	94		94	70-130	0	20	
Methyl tert butyl ether	87		98	63-130	12	20	
p/m-Xylene	95		95	70-130	0	20	
o-Xylene	95		95	70-130	0	20	
cis-1,2-Dichloroethene	94		92	70-130	2	20	
Styrene	95		95	70-130	0	20	
Dichlorodifluoromethane	79		75	36-147	5	20	
Acetone	100		100	58-148	0	20	
Carbon disulfide	100		97	51-130	3	20	
2-Butanone	92		98	63-138	6	20	
4-Methyl-2-pentanone	85		96	59-130	12	20	
2-Hexanone	86		97	57-130	12	20	
Bromochloromethane	99		97	70-130	2	20	
1,2-Dibromoethane	90		96	70-130	6	20	
n-Butylbenzene	93		93	53-136	0	20	
sec-Butylbenzene	94		93	70-130	1	20	
1,2-Dibromo-3-chloropropane	88		92	41-144	4	20	



Project Name: EMERSON SCHOOL

Project Number: 4332.0061B000-03

Lab Number: L2446388

arameter	LCS %Recovery	Qual	LC. %Rec		Qual	%Recovery Limits	RPD	Qual	RPD Limits	
olatile Organics by GC/MS - Westborough La	ab Associated	sample(s):	01,03-06	Batch:	WG19619	984-3 WG196198	1-4			
Isopropylbenzene	94		9	06		70-130	2		20	
p-Isopropyltoluene	94		9	95		70-130	1		20	
n-Propylbenzene	94		9	95		69-130	1		20	
1,2,3-Trichlorobenzene	97		1	00		70-130	3		20	
1,2,4-Trichlorobenzene	97		9	08		70-130	1		20	
1,3,5-Trimethylbenzene	93		9	95		64-130	2		20	
1,2,4-Trimethylbenzene	92		9	04		70-130	2		20	
Methyl Acetate	86		9	13		70-130	8		20	
Cyclohexane	100		1	00		70-130	0		20	
1,4-Dioxane	126		116			56-162	8		20	
Freon-113	100		1	00		70-130	0		20	
Methyl cyclohexane	97		9	18		70-130	1		20	

	LCS	LCSD	Acceptance	
Surrogate	%Recovery Qual	%Recovery Qual	Criteria	
1,2-Dichloroethane-d4	101	104	70-130	
Toluene-d8	97	97	70-130	
4-Bromofluorobenzene	92	95	70-130	
Dibromofluoromethane	99	98	70-130	



Project Name: EMERSON SCHOOL

Project Number: 4332.0061B000-03

Lab Number: L2446388

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	RPD Qual Limits	
olatile Organics by GC/MS - Westborough	Lab Associated	sample(s): 0	02 Batch: WG1	962441-3	WG1962441-4			
Methylene chloride	100		98		70-130	2	20	
1,1-Dichloroethane	100		100		70-130	0	20	
Chloroform	110		110		70-130	0	20	
Carbon tetrachloride	110		110		63-132	0	20	
1,2-Dichloropropane	100		100		70-130	0	20	
Dibromochloromethane	100		100		63-130	0	20	
1,1,2-Trichloroethane	99		100		70-130	1	20	
Tetrachloroethene	110		110		70-130	0	20	
Chlorobenzene	110		110		75-130	0	20	
Trichlorofluoromethane	120		110		62-150	9	20	
1,2-Dichloroethane	100		100		70-130	0	20	
1,1,1-Trichloroethane	100		100		67-130	0	20	
Bromodichloromethane	100		100		67-130	0	20	
trans-1,3-Dichloropropene	99		98		70-130	1	20	
cis-1,3-Dichloropropene	100		100		70-130	0	20	
Bromoform	98		94		54-136	4	20	
1,1,2,2-Tetrachloroethane	96		96		67-130	0	20	
Benzene	100		100		70-130	0	20	
Toluene	100		100		70-130	0	20	
Ethylbenzene	110		110		70-130	0	20	
Chloromethane	82		79		64-130	4	20	
Bromomethane	98		96		39-139	2	20	
Vinyl chloride	100		99		55-140	1	20	



Project Name: EMERSON SCHOOL

Project Number: 4332.0061B000-03

Lab Number: L2446388

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	RPD Qual Limits	
Volatile Organics by GC/MS - Westbo	rough Lab Associated	sample(s): 0	2 Batch: WG	1962441-3	WG1962441-4			
Chloroethane	120		120		55-138	0	20	
1,1-Dichloroethene	99		100		61-145	1	20	
trans-1,2-Dichloroethene	110		110		70-130	0	20	
Trichloroethene	100		100		70-130	0	20	
1,2-Dichlorobenzene	110		100		70-130	10	20	
1,3-Dichlorobenzene	110		110		70-130	0	20	
1,4-Dichlorobenzene	110		110		70-130	0	20	
Methyl tert butyl ether	97		96		63-130	1	20	
p/m-Xylene	110		110		70-130	0	20	
o-Xylene	110		110		70-130	0	20	
cis-1,2-Dichloroethene	100		100		70-130	0	20	
Styrene	110		110		70-130	0	20	
Dichlorodifluoromethane	99		97		36-147	2	20	
Acetone	69		71		58-148	3	20	
Carbon disulfide	110		100		51-130	10	20	
2-Butanone	76		73		63-138	4	20	
4-Methyl-2-pentanone	81		77		59-130	5	20	
2-Hexanone	70		71		57-130	1	20	
Bromochloromethane	110		110		70-130	0	20	
1,2-Dibromoethane	98		96		70-130	2	20	
n-Butylbenzene	110		100		53-136	10	20	
sec-Butylbenzene	110		100		70-130	10	20	
1,2-Dibromo-3-chloropropane	80		82		41-144	2	20	



Project Name: EMERSON SCHOOL

Project Number: 4332.0061B000-03

Lab Number: L2446388

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
olatile Organics by GC/MS - Westbord	ough Lab Associated	sample(s): 02	2 Batch: W0	G1962441-3	WG1962441-4				
Isopropylbenzene	110		100		70-130	10		20	
p-Isopropyltoluene	110		100		70-130	10		20	
n-Propylbenzene	110		100		69-130	10		20	
1,2,3-Trichlorobenzene	93		93		70-130	0		20	
1,2,4-Trichlorobenzene	100		97		70-130	3		20	
1,3,5-Trimethylbenzene	110		100		64-130	10		20	
1,2,4-Trimethylbenzene	110		100		70-130	10		20	
Methyl Acetate	68	Q	72		70-130	6		20	
Cyclohexane	96		94		70-130	2		20	
1,4-Dioxane	76		76		56-162	0		20	
Freon-113	110		100		70-130	10		20	
Methyl cyclohexane	100		100		70-130	0		20	

	LCS	LCSD	Acceptance
Surrogate	%Recovery Qual	%Recovery Qual	Criteria
1,2-Dichloroethane-d4	98	99	70-130
Toluene-d8	102	100	70-130
4-Bromofluorobenzene	95	94	70-130
Dibromofluoromethane	105	101	70-130



Serial_No:08222411:50

Lab Number: L2446388

Report Date: 08/22/24

Sample Receipt and Container Information

Were project specific reporting limits specified?

EMERSON SCHOOL

Cooler Information

Project Name:

Cooler Custody Seal

Project Number: 4332.0061B000-03

A Absent

Container Information			Initial Final 7	Temp			Frozen			
Container ID	Container Type	Cooler		рН		Pres	Seal	Date/Time	Analysis(*)	
L2446388-01A	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-01B	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-01C	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-02A	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-02B	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-02C	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-03A	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-03B	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-03C	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-04A	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-04B	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-04C	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-05A	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-05B	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-05C	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-06A	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-06B	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	
L2446388-06C	Vial HCl preserved	Α	NA		4.3	Υ	Absent		NYTCL-8260-R2(14)	



Project Name: Lab Number: **EMERSON SCHOOL** L2446388 **Project Number:** 4332.0061B000-03 **Report Date:** 08/22/24

GLOSSARY

Acronyms

LCSD

LOD

MS

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).

Laboratory Control Sample Duplicate: Refer to LCS.

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.

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.

- 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

> 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

MDI - 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.

- 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.

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

Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

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

values; although the RPD value will be provided in the report.

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

associated field samples.

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

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

TEO - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF

and then summing the resulting values.

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

Report Format: DU Report with 'J' Qualifiers



Project Name:EMERSON SCHOOLLab Number:L2446388Project Number:4332.0061B000-03Report Date:08/22/24

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.

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

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

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

Data Qualifiers

- A -Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- 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 concentrations of the analyte at less than ten times (10x) the 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- 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

Report Format: DU Report with 'J' Qualifiers



Project Name:EMERSON SCHOOLLab Number:L2446388Project Number:4332.0061B000-03Report Date:08/22/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

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

Report Format: DU Report with 'J' Qualifiers



Serial_No:08222411:50

Project Name:EMERSON SCHOOLLab Number:L2446388Project Number:4332.0061B000-03Report Date:08/22/24

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Serial_No:08222411:50

Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 21 Published Date: 04/17/2024

Page 1 of 1

Certification Information

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

Westborough Facility

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

EPA 625.1: alpha-Terpineol

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

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

Mansfield Facility SM 2540D: TSS.

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.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

EPA 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 Kieldahl-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 II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

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

Mansfield Facility:

Drinking Water

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

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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

Document Type: Form

Pre-Qualtrax Document ID: 08-113

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APPENDIX E

JUNE 2020 STATUS REPORT FORMER SUNOCO SITE



June 26, 2020

Ms. Francine Gallego NYSDEC Region 9 Division of Environmental Remediation 270 Michigan Avenue Buffalo, New York 14203

Re: 2nd Quarter 2020 Site Status Report

Former Sunoco Station 181 Delaware Avenue Buffalo, New York 14202 DUNS #0000-1289 NYSDEC Spill #11-06834 Matrix Project #10-043

Dear Ms. Gallego:

Enclosed is the 2nd Quarter 2020 Site Status Report for the above-referenced site ("Site"). This report includes results of the groundwater sampling event performed on June 8, 2020.

With NYSDEC approval, the oxygen injection system was deactivated on September 4, 2019. Results of the 2nd quarter 2020 and fourth post-remediation sampling event indicate that groundwater volatile organic compound ("VOC") concentrations are non-detect or below the closure goal of 1 mg/L in all Site monitoring wells. Based on four consecutive quarters of groundwater samples below the closure goal, "no further action" status for Spill #11-06834 is requested.

Pending your approval of spill closure, the remediation infrastructure will be removed from the Site and all wells (monitoring, injection and vapor) will be decommissioned in accordance with NYSDEC guidelines. Should you have any questions or require further information, please contact the undersigned.

Sincerely,

Matrix Environmental Technologies Inc.

Steven L. Marchetti Sr. Project Manager

Sean R. Carter, P.E. Principal Engineer

Enclosure

cc: Amanda Kistler, Evergreen Resources Group, LLC

Kevin Dunleavy, Esq., Evergreen Resources Management Operations, a series of Evergreen

Resources Group, LLC

Robert Knoer, Esq., The Knoer Group

Richard A. Moore, Esq.



OUARTERLY STATUS REPORT

2nd Quarter 2020 June 2020

Former Sunoco DUNS #0000-1289 181 Delaware Avenue Buffalo, New York

Matrix Env. Project #10-043 NYSDEC Spill #11-06834

Matrix Env. Project Manager: Steven L. Marchetti NYSDEC Contact: Francine Gallego

REMEDIATION INFORMATION: Matrix Oxygen Injection System

Equipment specifications: 80 SCFH, 32-point manifold

Injection point specifications: IP1-IP27: 1-inch ID SCH40 PVC

System Activated: October 14, 2011 System Deactivated: September 4, 2019

REMEDIATION DESCRIPTION

As a result of oxygen injection system operation and injection of sodium persulfate (Oxygen BioChem; "OBC") for *in situ* chemical oxidation (ISCO), groundwater VOC concentrations in the monitoring wells have decreased significantly in recent quarters. Approximately six months following system deactivation, dissolved oxygen (DO) and oxidation-reduction potential (ORP) levels in the monitoring wells have declined to background levels, averaging 4.2 mg/L and -32 mV respectively.

Based on four consecutive quarters of groundwater samples below the closure VOC goal of 1 mg/L, "no further action" status for Spill #11-06834 is requested.

SITE ACTIVITIES COMPLETED DURING PERIOD:

<u>Date</u> <u>Activities Completed</u>

6/8/20 Quarterly groundwater sampling event. Groundwater monitoring included

the measurement of DO, ORP, pH and temperature, and collection of groundwater samples for laboratory analysis of CP-51 List VOCs from all

accessible monitoring wells.

SITE and ADJACENT PROPERTIES HISTORY:

(The 1^{st} quarter report annually will include a complete Site History. The Site History is replaced with an abbreviated version in the 2^{nd} , 3^{rd} , and 4^{th} quarter Site Status Report)

- 1889 As indicated on an 1889 Sanborn Map, the Site, identified as 183 Delaware Avenue, was utilized as a dwelling. The properties listed as 73, 75, 79, 85, and 87 West Huron Street were also utilized as dwellings.
- 1899 As indicated on an 1899 Sanborn Map, the Site, identified as 183 Delaware Avenue, remained a dwelling. The C.W. Miller Livery occupied 73-75 West Huron Street; 79, 85, and 87 West Huron remained dwellings.

- 1925 As indicated on a 1925 Sanborn Map, the Site, identified as 183 Delaware Avenue, was utilized as a dwelling. 73-75 West Huron Street is identified as the Huron Garage and included one (1) gas tank (GT) near West Huron Street. 79 West Huron Street is identified as a gas station and included one (1) GT. 85 and 87 West Huron Street remained dwellings.
- May 2, 1931 (approx.) A survey completed by the City of Buffalo Fire Department indicates the presence of one (1) 7,000-gallon, one (1) 1,000-gallon, two (2) unknown-volume tanks (all for gasoline storage), and six (6) pumps on the adjacent 77-79 West Huron Street property for the Huron Street Garage Corp. The tanks were installed in 1931. Notes on the survey indicate that the application for an additional 1,100-gallon capacity tank was disapproved on May 2, 1931.
- March 9, 1945 A survey completed by the City of Buffalo Fire Department indicates the presence of four (4) tanks on the 75 West Huron Street property; one (1) 8,400-gallon, two (2) 1,000-gallon, and one (1) 550-gallon. The tanks were installed between 1930 and 1935, contained gasoline and alcohol, had a total capacity of 11,000 gallons, and were used for a commercial filling station. Six (6) pumps were located on the site; three inside the building. A hand drawn sketch on the back of the survey sheet identifies the location of 3 pumps inside the building, tank vents, tanks, and fill ports on the 75 West Huron Street property.
- 1951 As indicated on a 1951 Sanborn Map, the Site, identified as 181 Delaware Avenue, was utilized as a filling station and contained four (4) GTs. 79 West Huron Street is identified as a gas station and included three (3) GTs. 73-75 West Huron Street was occupied by the Huron Garage with a capacity for 350 cars. Filling stations are identified south of the Site at 169 Delaware Avenue and southwest of the Site at 170 Delaware Avenue (with three GTs).
- January 3, 1955 A Notice of Violations was issued from the Buffalo Fire Department Bureau of Fire Prevention to the Huron Street Garage at 75 West Huron Street to "provide mechanical ventilation for a grease pit 3rd floor, provide underground tank for waste oil, provide explosion proof bulbs for grease pit."
- July 17, 1963 Buffalo Fire Department records indicate that one (1) 1,000-gallon tank for waste oil storage was replaced on the 73-77 West Huron Street property for the 75 West Huron Corp. The tank was for private use. A hand-drawn sketch on the back of the document identifies the location of the tank on the West Huron Street property.
- September 15, 1965 Buffalo Fire Department records indicate the installation of one (1) 4,000-gallon capacity tank for diesel storage on the 75 West Huron Street property. The tank was installed for Hertz U Drive It and included one (1) pump. A hand-drawn sketch on the back of the document identifies the location of one (1) 4,000-gallon tank, pump island, shack, and existing waste oil tank.
- August 18, 1967 A City of Buffalo Inter Departmental Correspondence states that there is a 1,000-gallon underground tank out of service on the 75 West Huron Street property. The correspondence states that the property owner will contact Mobil Gas for instructions and compliance.
- September 1, 1967 the Buffalo Fire Department investigated the 75 West Huron Street property (Huron U-Drive It Corp) and determined instead that a 500-gallon gas tank was out

of use. The site assistant manager, Harry Sedler, will call Mobil Oil to inquire about replacing the tank.

- September 20, 1967 Mobil Oil intends to replace the 500-gallon tank with a new 500-gallon tank at 75 West Huron Street.
- December 27, 1967 Harry Sedler (misspelled "Settler") stated that Socony Oil (a.k.a. Mobil) has contracted a local contractor to complete the tank removal at 75 west Huron street according to contractor's availability.
- January 23, 1968 Buffalo Fire Department Bureau of Fire Prevention records indicate that at 75 West Huron Street, one (1) 550-gallon capacity gasoline tank was installed and connected to one (1) pump. Permit #A39695 was issued for the work. Mobil Oil Co. is listed as the supplier. The words "Replace Leaker" are written on the bottom of the document. A hand-drawn sketch on the back of the document identifies the location of the tank.
- March 8, 1974 Correspondence from Alvin Hyman, President of Huron U-Drive-It Corp. located at 75 West Huron Street to The Buffalo Sewer Authority states that "spillage of diesel fuel...will not occur in the future as our method of obtaining fuel has been altered. In the meantime, we have cleaned up the area in the street in front of our lot and are consulting with various paving companies concerning covering the affected area that might have presented a problem due to the spillage."
- March 13, 1974 Buffalo Fire Department record indicates that four (4) USTs were removed from the 181 Delaware Ave. property. One (1) 4,000-gallon capacity, two (2) 3,000-gallon capacity, and one (1) 550-gallon capacity USTs were removed by Izzo Tank and Pump Co. A hand drawn sketch on the back of the document identifies the approximate locations of the USTs.
- 1980 Stuart Gellman purchased the 181 Delaware Avenue Site from Sun Oil, Inc.
- February 6, 1980 Correspondence from Joseph E. Hynes, Chief, Bureau of Fire Prevention, to Mr. Alvin Hyman, President of Huron U-Drive-It Corp., states that upon inspection of 75 West Huron Street, evidence of two abandoned gasoline tanks was found on the 75 West Huron Street property; one (1) 1,000-gallon capacity and one (1) 550-gallon capacity. Chief Hynes requested that the tanks be removed if they are out of service.
- February 29, 1980 A document from the Bureau of Fire Prevention indicates that a Mr. Ray Duffy will decide whether he will remove two tanks on the 75 West Huron Street property or have them filled with concrete. The tanks in questions were reported "located in busy driveway and also under at least 10 inches of concrete and blacktop, so this office (Buffalo Fire Department Bureau of Fire Prevention) would consider allowing Mr. Duffy to have them filled with concrete if he so desires."
- October 2, 1980 A City of Buffalo Fire Department document indicates the removal of two (2) tanks on the 75 West Huron property; one (1) 1,000-gallon capacity and one (1) 550-gallon capacity. The contractor performing the work is listed as Fleischmann Service Corp. of 74 Skillen Street, Buffalo, NY.

- 1981 As indicated on the 1981 Sanborn Map, The Site and neighboring property to the east, 79 West Huron Street are no longer identified as filling stations.
- November 12, 1985 Correspondence from C.A. Batt Construction Corp to Lt. Russ Knox, Buffalo Fire Department, indicates that three (3) underground petroleum storage tanks at the 75 West Huron Street property were removed by the Niagara Pump and Tank Division. The tanks capacities and contents were as follows; one (1) 8,000-gallon (unleaded gasoline); one (1) 4,000-gallon (diesel fuel); and one (1) 1,000-gallon (waste oil).
- June 28, 1993 Enasco Inc. Environmental Services completed a Level I Environmental Report of the 75 West Huron Street property for Mr. Peter Burke, co-owner (at that time) of the property. Two (2), 275-gallon ASTs were observed on the first floor and 10 empty 55-gallon metal drums were observed on the fifth floor. The tanks were out of service and identified as "possibly empty and in good condition with no apparent leakage." Although City directories, which identified historical property use as a garage, and a 1925 Sanborn Map were reviewed, it was the opinion of Enasco that the "site carries a low probability of environmental risk."
- May 26, 1999 Maxim Technologies Inc ("Maxim") completed a Phase I Environmental Site Assessment ("ESA") of the 75-77 West Huron Street property for Gautieri Development. The ESA included a summary of permits for the property obtained from the City of Buffalo Permit Department, which included permits for the installation of a 1,000-gallon waste oil tank, 4,000-gallon diesel tank, 550-gallon gasoline tank, and replacement of two (2) gasoline pumps. A summary of the City of Buffalo Fire Prevention Department UST records was also included and revealed nine records between 1931 and 1985 associated with the survey, installation, inspection, or removal of multiple USTs. It was the opinion of Maxim that recognized environmental concerns were present at the property; specifically, possible UST leakage and possible historic petroleum spillage. Maxim recommended that a Phase II ESA be completed.
- August 2001 For use in a potential real estate transaction, Benchmark Environmental Engineering & Science, PLLC ("Benchmark") reviewed Sanborn Maps and excavated six (6) test pits in the parking lot of 75-77 West Huron Street property for the then-owner Huron Parking Services, Inc. No underground storage tanks or impacts to shallow soils were identified.
- June 10, 2003 A Memo from Chief Robert J. Stasio, Fire Prevention Bureau, to Gary Ziolkowski, Director of Housing, indicated that, among other violations, gasoline is being illegally stored on the first floor of the 75 West Huron Street building.
- June 2003 GeoEnvironmental, Inc. (GZA) performed a subsurface investigation at 75-79 West Huron on behalf of a prospective purchaser of the property via 10 soil borings throughout the parking lot. Multiple VOCs and SVOCs were detected in soil and groundwater at concentrations above NYSDEC guidance values/standards and resulted in the NYSDEC Spill #03-75208. The findings of the August 2001 Benchmark investigation and June 2003 GZA investigation were summarized by Benchmark in a document dated August 2003.
- September 2003 Between September 17 and 29, 2003, Nature's Way Environmental Consultants (NWEC), at the request of NYSDEC, conducted a subsurface investigation at 181 Delaware via ten soil borings. Multiple VOCs were detected above guidance values in five of seven soil samples submitted for laboratory analysis.

- December 17, 2003 Sunoco was notified by the NYSDEC that they have been identified as a
 potentially responsible party for the impacts discovered on 181 Delaware Avenue and 75-77
 West Huron Street properties.
- May 2004 March 2006 GES, for Sunoco, supervised the installation of groundwater monitoring wells, completed soil and groundwater sampling and results analysis, and completed pilot testing for soil vapor extraction (SVE) and combined air sparging (AS)-SVE on the 181 Delaware Avenue property.
- January 2007 GES collected three indoor ambient air samples from the basement of the Huron Garage building located at 73-79 West Huron Street and one outdoor air sample immediately adjacent to the garage building. Laboratory analysis of the air samples did not identify any impacts at the Huron Garage building.
- June 2007 GES submitted a Remedial Action Plan (RAP) to the NYSDEC proposing the installation of an air-sparge (AS) and soil vapor extraction (SVE) system to address petroleum impacts. The main focus of the RAP was to remediate hydrocarbon impacts sourced from the 181 Delaware Avenue property. The footprint of the remedial system design included 181 Delaware Avenue and was extended onto a portion of the 75-77 West Huron Street property.
- August 13, 2007 In correspondence from the NYSDEC to the Knoer Group, the NYSDEC stated that the 75-77 West Huron property "utilized underground storage tanks (USTs) to dispense fuel" and that "the former USTs contained gasoline which is the contamination of concern on both your client's (Hurondel) and the adjacent property at 181 Delaware. Given its past uses, the 75-77 West Huron property may have contributed to the contamination to be addressed by the RAP. As such, your client (Hurondel) could be considered a potentially responsible party for the spill."
- October 10, 2007 NYSDEC approved the June 2007 RAP submitted by GES on behalf of Sunoco (to remediate impacts sourced from the 181 Delaware Avenue property).
- May-June 2008 GES supervised the installation of air sparge wells SP-2 through SP-10, soil vapor extraction wells V-1 and V-2, and installation of AS/SVE process piping. While trenching, two 1,500-gallon steel underground storage tanks (USTs) were encountered and, subsequently, closed in place at 181 Delaware Avenue. Ground-penetrating radar (GPR) and apparent conductivity surveys were also completed.
- July 14, 2008 The SVE system was activated.
- August 28, 2008 The AS system was activated.
- September 23, 2008 Hydrocarbon vapors were detected in the 181 Delaware Avenue building as well as three neighboring buildings. The AS system was deactivated, and vapor mitigation activities were conducted at all affected buildings until ambient air PID readings in the buildings reduced to non-detect.
- November 30, 2009 Following testing of the AS/SVE system, GES determined that the SVE system could not provide adequate vapor recovery while the AS was operating.

- December 7, 2009 Since the SVE could not be used in conjunction with the AS and operating only the SVE resulted in little to no vapor recovery, the NYSDEC approved the deactivation of the SVE system. The SVE was deactivated.
- March 2010 GES supervised the installation of groundwater monitoring well MW-12, horizontal soil vapor extraction laterals HSVE-1 and HSVE-2, and completed a pilot test of insitu technologies on the 181 Delaware Avenue property.
- March 2011 METI supervised a Subsurface Investigation including the advancement of 18 soil borings, the installation of one (1) piezometer, and two (2) oxygen injection points. Details of the subsurface investigation were summarized in the Subsurface Investigation Results report¹.
- March 16, 2011 to April 19, 2011 Bio-Trap® samplers from Microbial Insights, Inc. were deployed in monitoring wells MW2, MW7 and MW10 for an assessment of biodegradation potential.
- May 31, 2011 to June 20, 2011 An oxygen injection pilot test was completed at injection points on the 181 Delaware Avenue property. Pilot test and Bio-Trap® results were summarized and presented in the 2011 RAP by METI. Also presented in the RAP was a summary of the historical use of the Site and neighboring properties to the east (73 & 77 West Huron Street) as filling stations, summary of tank permits issued for the properties, NYSDEC spill history summaries for the properties, and an evaluation of historical and recent soil and groundwater data for the properties with respect to potential plume sources. The evaluation suggested the existence of three plume sources; one on the 181 Delaware Avenue property, and two on the 77 West Huron Street property.
- July 1, 2011 to August 31, 2011 A bioaugmentation and oxygen injection pilot test was completed in the vicinity of injection points IP1 and IP2 and monitoring well MW11. Details of the pilot test were summarized in the Remedial Action Plan Addendum.
- September 2, 2011 Based on the data presented in the August 2011 RAP, the NYSDEC assigned a new spill number (11-06834) to impacts associated with 181 Delaware Avenue. The 75-77 West Huron property retained NYSDEC Spill #03-75208.
- October 3, 2011 to October 14, 2011 Installation of a 32-point oxygen injection system and decommissioning of historical sparge and SVE wells on Site.
- October 14, 2011 A full scale oxygen injection system was activated at the Site.
- October 19, 2011 to October 20, 2011 Full scale bioaugmentation consisting of 13 biomass injections across the Site.
- December 20, 2012 Approximately 60 pounds of concentrated diammonium phosphate was hydrated and applied to injection points across the Site. This process will continue on a monthly basis to stimulate bioremediation.

¹ "Subsurface Investigation Results, Former Sunoco Station, 181 Delaware Avenue, Buffalo, New York" prepared for Sunoco, Inc. (R&M) by METI, dated May 5, 2011.

- October 16, 2013 The NYSDEC received a Brownfield Cleanup Program (BCP) application and a Site Investigation/Interim Remedial Measure Work Plan (SI/IRM WP) from Hurondel I, Inc. ("Hurondel") for 73-79 West Huron Street which is located directly east of the Site. The Hurondel property was assigned BCP ID #C915282.
- May 13, 2014 to June 23, 2014 A source area dissolved oxygen (DO) drop test was conducted at the Site to evaluate the distribution of DO in the subsurface and the effects of altering current system operation parameters on groundwater contaminant concentrations.
- October 2, 2014 The Hurondel site at 73-79 West Huron Street was accepted into the BCP as a "participant" after initially being denied as a "volunteer."
- November 3, 2014 Sparge wells SP8, SP9, and SP10, vent wells V1, and V2, and groundwater monitoring wells MW8 and MW9, all located on the 77-79 West Huron Avenue property, were decommissioned. METI supervised Nothnagle Drilling Inc. for the over-drilling, removal of casing and grouting at each well location.
- March 9, 2015 The excavation of soil at the Hurondel site began as part of their BCP activities; however, the site SI/IRM WP had not received NYSDEC approval at that time. Therefore, Hurondel performed the work at risk. The excavation was backfilled with clay and, for the most part, was completed on May 8, 2015. METI personnel observed the soil excavation activities on Sunoco's behalf.
- July 30, 2015 Following four revisions, the Hurondel SI/IRM WP was approved by the NYSDEC; however, the majority of the IRM work had already been completed earlier in the year.
- April 4, 2016 METI, on behalf of Sunoco, submitted a work plan to the NYSDEC to remove two (2) 1,500-gallon capacity USTs, and one (1) 500-gallon capacity unregistered UST at the Site. The work plan was approved by the NYSDEC on April 4, 2016 via email correspondence.
- April 6, 2016 In accordance with the NYSDEC-approved work plan, METI deactivated injection points IP1-IP24 and began collecting groundwater samples from wells MW1R, MW3 (when accessible), MW5, and MW12 on a monthly basis to evaluate for matrix diffusion and monitor groundwater quality under static conditions.
- September 14, 2016 The oxygen injection system was deactivated and removed from the Site in preparation of the removal of three (3) USTs.
- October 24 through November 3, 2016 A total of five (5) USTs were removed from three areas of the Site; four (4) 1,000-gallon capacity and one (1) 550-gallon capacity. The 1,000-gallon USTs were single-walled steel construction and filled with concrete. The 550-gallon UST was single-walled construction and contained approximately 3-inches of fluid. A total of 707 tons of impacted soil was excavated from the vicinity of the USTs and disposed of at the Town of Tonawanda Landfill. Injection points IP2-4, IP7-8, IP14, and IP17, and the oxygen delivery piping to points IP5-6 and IP18 were destroyed during the remedial excavations. Well MW1R was also destroyed. A total of 1,200 pounds of powdered OBC (sodium persulfate and calcium peroxide) was applied to saturated soil in two excavations to oxidize and biodegrade residual VOCs.

- November 4, 2016 The oxygen injection system was returned to the Site and injection points IP16, 19, 20, and 21-27 were reactivated.
- December 5, 2018 Injection of OBC (sodium persulfate and calcium peroxide) was completed for *in situ* chemical oxidation.
- September 4, 2019 The oxygen injection system was deactivated.

FUTURE ACTIVITIES

 Remove remediation system infrastructure and decommission groundwater monitoring wells, injection points and vapor monitoring points

CLOSURE GOALS & OBJECTIVES

The primary remedial goal is to reduce VOC concentrations in groundwater and saturated soils to within acceptable limits for spill inactive status associated with the release at 181 Delaware Avenue.

The specific objectives to meet the remedial goal include:

- 1. Reduce total STARS list VOC concentrations in groundwater to within 1 mg/L.
- 2. Reduce total STARS list VOC concentrations in soil to levels that no longer contribute to groundwater VOCs exceeding 1 mg/L.

EXPOSURE ASSESSMENT:

Potential Receptors:

• The monitoring program includes monthly vapor readings from the headspace of monitoring wells and vapor monitoring points near the onsite building. There have been no reported or detected vapor intrusion issues under the current remediation program.

Water Supply:

Municipal source.

GENERAL GEOLOGY:

Based on subsurface investigations completed by METI, native soils at the Site consist of mostly fine-to-medium-grained sand with less than 20% silt and clay to at least 20 feet below grade; however, construction debris and fill material has been encountered at shallower depths in areas of the site. Bedrock was not encountered during subsurface investigations. The water table is present at approximately 7.5 to 10 feet below grade and historically slopes to the south-southeast. Hydrocarbon impacts in soil and groundwater have been identified and are greatest in the vicinity of monitoring well MW12.

MONITORING:

Well Specifications: MW2 through MW-7, MW-9, MW-11, MW12:

4 -inch ID SCH40 PVC MW8: 2-inch SCH40 PVC

Gauging Frequency: Quarterly

Groundwater Sampling

Frequency and Analytical Method: Quarterly, EPA Method 8260 CP-51 List

Laboratory Used: VOC samples were submitted to Pace Laboratories,

NYS TNI #10888. Samples for the evaluation of nutrient dosing were submitted to Test America,

NYSDEC ELAP #10026.

PERMIT/LEGAL INFORMATION

None.

LIST OF ATTACHMENTS

• Figure 1: Groundwater Elevations & Quality Summary

• Table 1: Historical Groundwater Data Summary

• Table 2: Groundwater Elevations

• Table 3: Groundwater VOC Data Summary

Table 4: Dissolved Oxygen Concentrations in Monitoring Wells
 Table 5: Oxidation Reduction Potential in Monitoring Wells

• Table 6: Organic Vapor Meter Reading Summary

• Table 7: Post-Injection pH Data Summary

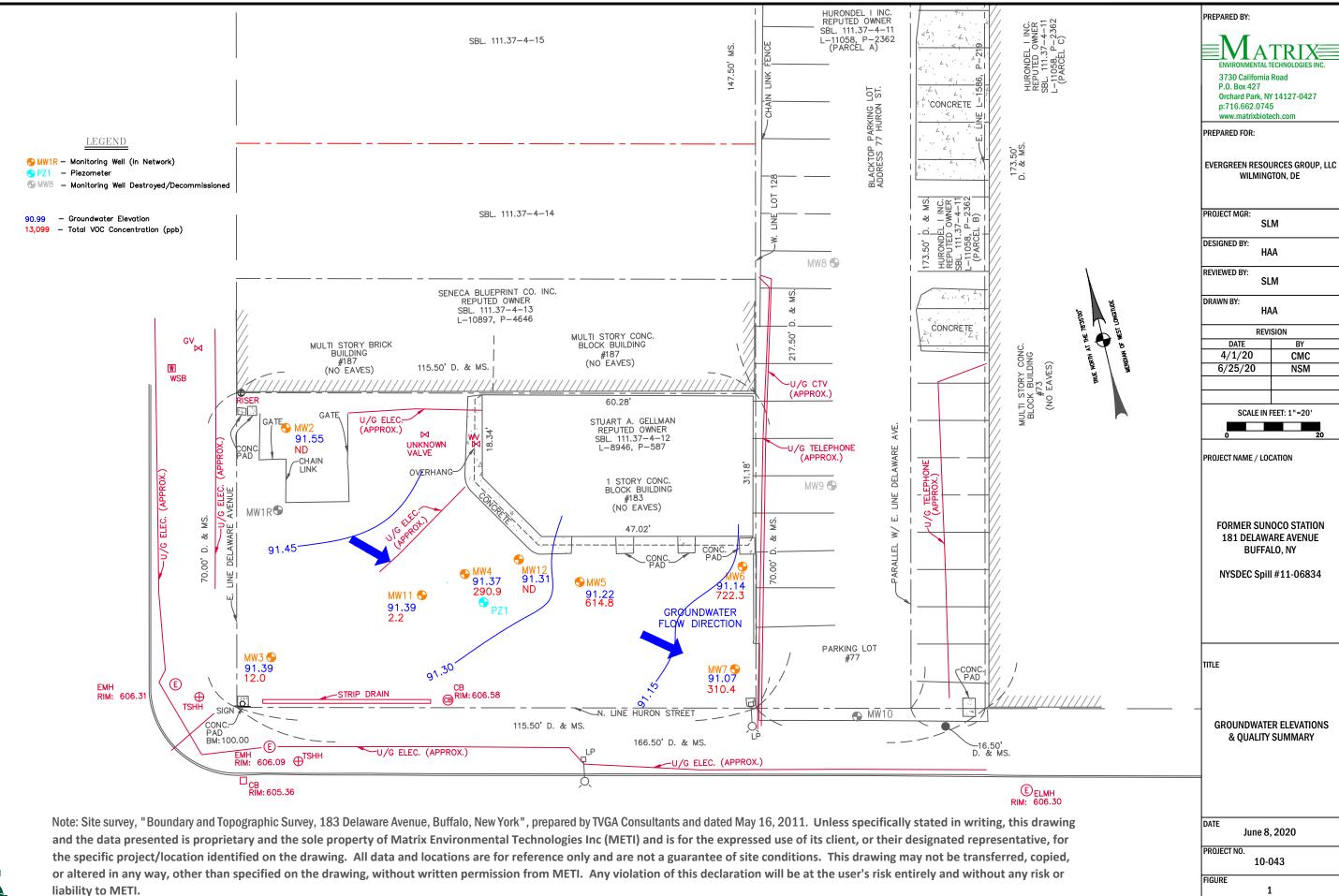
Chart 1: Site Source Area Monitoring Wells
 Chart 2: Upgradient Monitoring Wells
 Chart 3: Downgradient Monitoring Wells

Chart 4: Average Site DOChart 5: Average Site ORP

• Chart 6: DO v. Groundwater Quality

Appendix A: Laboratory Analytical Reports

FIGURES





TABLES

Table 1

Historical Groundwater Data Summary
Former Sunoco Station
181 Delaware Avenue
Buffalo, New York

Well ID# and			LNAPL	GW							STARS
Casing	Date	Depth to	Thickness	Elevation	Benzene	Toluene	EthylBenzene	Xylenes	BTEX	MTBE	VOCS
Elevation (ft)	Date	Water (ft)	(ft)	(ft)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(μg/L)
MW1	06/19/2004	8.40	0.00	91.03	ND	148	583	2,936	3,667	ND	(μς/2)
99.43	10/31/2005	8.48	0.00	90.95	ND	12	64	400	476	ND	
	01/30/2006	8.19	0.00	91.24	ND	93	290	2,200	2,583	ND	
4-inch PVC	04/18/2006	8.52	0.00	90.91	ND	140	660	4,500	5,300	66	
Total Depth:	10/02/2006	8.31	0.00	91.12	1.0	180	610	3,900	4,691	ND	
18'	03/13/2007	8.47	0.00	90.96	ND	19	120	940	1,079	ND	
Screen Interval:	06/25/2007	8.68	0.00	90.75	ND	44	210	1,700	1,954	ND	
3-18'	11/30/2007	8.40	0.00	91.03	ND	18	150	660	828	ND	
	02/19/2008	8.41	0.00	91.02	ND	96	230	1,200	1,526	ND	
	05/27/2008	8.63	0.00	90.80	ND	130	220	1,900	2,250	ND	
	08/28/2008	5.50	0.00	93.93	ND	44	220	1,100	1,364	ND	
	11/24/2008	8.34	0.00	91.09	ND	ND	5.8	96.7	102.5	ND	
Well removed on	02/11/2009	8.28	0.00	91.15	ND	19	102	506	627	ND	
10/26/09, replaced with	05/13/2009	8.33	0.00	91.10	ND	10.3	69.4	343	422.7	ND	
MW-1R.	08/19/2009	7.82	0.00	91.61	ND	15.3	48.1	363	426.4	ND	ll
MW1R	11/17/2009	8.76	0.00	90.36	ND	ND	165	2,020	2,185	ND	
99.12	02/23/2010	8.61	0.00	90.51	ND	ND	105	923	1,028	ND	
4-inch PVC	05/17/2010	8.55	0.00	90.57	ND	ND	48.3	617	665.3	ND	
Total Depth:	09/22/2010	8.78	0.00	90.34	ND	ND	83.9	671	754.9	ND	
15'	12/07/2010	8.42	0.00	90.70	ND	ND	9.5	184	193.5	ND	
Depth to Screen:	03/16/2011	7.95	0.00	91.17	ND<0.5	ND<0.7	5.0	48	53	ND<0.5	275
4.28'	06/22/2011	8.43	0.00	90.69	ND<0.50	ND<1.0	29.8	176.2	206	ND<1.0	596.5
99.52	09/08/2011	8.45	0.00	91.07	ND<2.5	ND<5.0	9.6	165	174.6	ND<5.0	978.3
100.18	12/01/2011	8.28	0.00	91.90	ND<0.50	ND<1.0	29.5	294	323.5	ND<1.0	1,235.1
	03/26/2012	8.33	0.00	91.85	ND<0.50	ND<1.0	12.2	67.9	80.1	ND<1.0	199.9
	06/25/2012	7.38	0.00	92.80	ND<0.50	ND<1.0	14.2	160.0	174.2	ND<1.0	848.0
	09/11/2012	8.43	0.00	91.75	ND<0.50	ND<1.0	17.6	193	210.6	ND<1.0	1,063.9
	12/13/2012	8.51	0.00	91.67	ND<0.50	ND<1.0	12.6	122	134.6	ND<1.0	459.2
	03/11/2013	8.16	0.00	92.02	ND<0.50	4.4	3.5	63.5	72.0	ND<1.0	240.8
	06/07/2013	7.57	0.00	92.61	ND<0.50	ND<1.0	42.0	139	181	ND<1.0	679.4
	09/16/2013	8.45	0.00	91.73	ND<0.50	ND<1.0	68.3	352	420	ND<1.0	1,680
	12/13/2013	7.88	0.00	92.30	ND<0.50	ND<1.0	1.7	26.3	28.0	ND<1.0	187
	03/24/2014	8.25	0.00	91.93	ND<0.50	ND<1.0	1.2	4.0	5.2	ND<1.0	33.1
	06/09/2014	8.45	0.00	91.73	ND<0.50	ND<1.0	51.6	164	216	ND<1.0	1,060
	09/12/2014	8.61	0.00	91.57	ND<2.5	ND<5.0	128.0	417	545	ND<5.0	1,386
	12/08/2014	8.46	0.00	91.72	ND<0.50	ND<1.0	ND<1.0	7.6	7.6	ND<1.0	47.0
	03/24/2015	9.42	0.00	90.76	ND<0.50	ND<1.0	47.5	191	239	ND<1.0	1,019
	06/25/2015	8.86	0.00	91.32 90.92	ND<2.0	ND<4.0	53.2	365 467	418 559	ND<4.0	1,717
	09/11/2015	9.26			ND<2.0	ND<4.0	91.6			ND<4.0	2,276
	12/04/2015	9.34	0.00	90.84	ND<2.5	ND<5.0	63.0 108	417	480	ND<5.0	1,803
	03/11/2016	8.73 9.22	0.00	91.45	ND<1.0 ND<1.0	ND<1.0 ND<1.0	35.4	204 170	312	ND<1.0	1,508
	06/23/2016	8.93	0.00	90.96 91.25	ND<1.0 ND<1.0	ND<1.0 ND<1.0	33.4 67.7	380	206 448	ND<1.0 ND<1.0	1,040
	09/28/2016	8.93	0.00	91.25	ND<1.0			380	448	ND<1.0	1,730
						Well Destro	yed				

Buffalo, New York													
Well ID# and Casing Elevation (ft)	Date	Depth to Water (ft)	LNAPL Thickness (ft)	GW Elevation (ft)	Benzene (ug/L)	Toluene (ug/L)	EthylBenzene (ug/L)	Xylenes (ug/L)	BTEX (ug/L)	MTBE (ug/L)	STARS VOCS (µg/L)		
MW2	06/19/2004	8.67	0.00	91.17	32	ND	ND	ND	32	ND			
99.84	10/31/2005	8.74	0.00	91.10	ND	ND	ND	ND	ND	ND			
	01/30/2006	8.46	0.00	91.38	ND	ND	ND	ND	ND	ND			
4-inch PVC	04/18/2006	8.77	0.00	91.07	ND	9.1	ND	7.7	16.8	25			
Total Depth:	10/02/2006	8.60	0.00	91.24	ND	ND	ND	ND	ND	ND			
20'	03/13/2007	8.73	0.00	91.11	ND	ND	ND	ND	ND	ND			
Depth to Screen:	06/25/2007	8.91	0.00	90.93	ND	ND	ND	ND	ND	ND			
7.38'	11/30/2007	8.70	0.00	91.14	ND	ND	ND	ND	ND	ND			
	02/19/2008	8.60	0.00	91.24	ND	ND	ND	5.7	5.7	ND			
	05/27/2008	8.89	0.00	90.95	ND	ND	ND	ND	ND	ND			
	08/28/2008	6.01	0.00	93.83	ND	ND	ND	ND	ND	ND			
	11/24/2008	9.18	0.00	90.66	ND	ND	ND	ND	ND	ND			
	02/11/2009	8.70	0.00	91.14	ND	ND	ND	ND	ND	ND			
	05/13/2009	8.80	0.00	91.04	ND	ND	ND	ND	ND	ND			
	08/19/2009	8.37	0.00	91.47	ND	ND	ND	ND	ND	ND			
	11/17/2009	8.98	0.00	90.86	ND	ND	ND	ND	ND	ND			
	02/23/2010	8.87	0.00	90.97	ND	ND	ND	ND	ND	ND	1		
	05/17/2010	8.75	0.00	91.09	ND	ND	ND	ND	ND	ND			
	09/22/2010	8.99	0.00	90.85	ND	ND	ND	ND	ND	ND			
	12/07/2010	8.64	0.00	91.20	ND	ND	ND	ND	ND	ND			
	03/16/2011	8.26	0.00	91.58	ND<0.5	ND<0.7	ND<0.8	ND<1.6	ND	ND<0.5	ND		
	06/22/2011	8.70	0.00	91.14	ND<0.5	ND<10	ND<1.0	ND<1.0	ND	ND<1.0	ND		
	09/08/2011	8.71	0.00	91.13	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND	ND<1.0	ND		
100.74	12/01/2011	8.70	0.00	92.04	ND<0.5	ND<1.0	ND<1.0	3.0	3	ND<1.0	44		
	03/26/2012	8.83	0.00	91.91	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND	ND<1.0	5.9		
	06/25/2012	8.91	0.00	91.83	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND	3	ND		
	09/11/2012	8.88	0.00	91.86	ND<0.50	ND<1.0	ND<1.0	3.2	3.2	ND<1.0	34.3		
	12/13/2012	9.02	0.00	91.72	ND<0.50	ND<1.0	ND<1.0	13.7	13.7	ND<1.0	130.5		
	03/11/2013	8.75	0.00	91.99	ND<0.50	2	1	12.9	15.9	ND<1.0	87.4		
	06/07/2013	8.52	0.00	92.22	ND<0.50	ND<1.0	ND<1.0	5.1	7.6	ND<1.0	26.8		
	09/16/2013	8.94	0.00	91.80	ND<0.50	ND<1.0	ND<1.0	4.5	4.5	ND<1.0	40.3		
	12/13/2013	8.89	0.00	91.85	ND<0.50	ND<1.0	ND<1.0	7.1	7.1	ND<1.0	30.6		
	03/24/2014	8.75	0.00	91.99	ND<0.50	ND<1.0	ND<1.0	4.1	4.1	ND<1.0	38.3		
	06/09/2014	8.86	0.00	91.88	ND<0.50	ND<1.0	ND<1.0	4.0	4.0	ND<1.0	9.0		
	09/12/2014	9.10	0.00	91.64	ND<0.50	ND<1.0	ND<1.0	2.3	2.3	ND<1.0	2.3		
	12/08/2014	9.02	0.00	91.72	ND<0.50	ND<1.0	ND<1.0	1.3	1.3	ND<1.0	1.3		
	03/24/2015	9.95	0.00	90.79	ND<0.50	ND<1.0	ND<1.0	1.4	1.4	ND<1.0	8.0		
	06/25/2015	9.40	0.00	91.34	ND<0.50	ND<1.0	0.38	4.8	5.2	ND<1.0	16.0		
	09/11/2015	9.74	0.00	91.00	ND<0.50	ND<1.0	ND<1.0	1.6	1.6	ND<1.0	10.8		
	12/04/2015	9.85	0.00	90.89	ND<0.50	ND<1.0	ND<1.0	2.4	2.4	ND<1.0	5.5		
	03/11/2016	9.28	0.00	91.46	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	4.1		
	06/23/2016	9.74	0.00	91.00	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	5.2		
	09/28/2016	9.40	0.00	91.34	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	7.1		
	12/01/2016	9.48	0.00	91.26	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	1.1		
	03/23/2017	9.40	0.00	91.34	ND<1.0	ND<1.0	ND<1.0	6.2	6.2	ND<1.0	7.5		
	06/23/2017	9.28	0.00	91.46	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND		
	09/22/2017	9.65	0.00	91.09	ND<1.0	ND<1.0	ND<1.0	11.9	11.9	ND<1.0	15.0		
	12/08/2017	9.48	0.00	91.26	ND<1.0	ND<1.0	ND<1.0	6.7	6.7	ND<1.0	13.1		
	03/26/2018	9.39	0.00	91.35	ND<1.0	ND<1.0	ND<1.0	28.7	28.7	ND<1.0	45.5		
	06/22/2018	9.49	0.00	91.25	ND<1.0	ND<1.0	ND<1.0	8.7	8.7	ND<1.0	14.9		
	09/25/2018	9.63	0.00	91.11	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	5.2		
	12/13/2018	9.19	0.00	91.55	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND		
	03/21/2019	9.47	0.00	91.27	ND<1.0	ND<1.0	ND<1.0	5.2	5.2	ND<1.0	7.6		
	06/07/2019	9.56	0.00	91.18	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	5.8		
	09/18/2019	9.40	0.00	91.34	ND<1.0	ND<1.0	ND<1.0	1.2	1.2	ND<1.0	5.3		
	12/31/2019	9.13	0.00	91.61	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND		
	03/25/2020	9.36	0.00	91.38	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND		
	06/08/2020	9.19	0.00	91.55	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND		

	Buffalo, New York													
Well ID# and Casing Elevation (ft)	Date	Depth to Water (ft)	LNAPL Thickness (ft)	GW Elevation (ft)	Benzene (ug/L)	Toluene (ug/L)	EthylBenzene (ug/L)	Xylenes (ug/L)	BTEX (ug/L)	MTBE (ug/L)	STARS VOCS (µg/L)			
MW3	06/19/2004	7.81	0.00	90.97	ND	ND	ND	7,250	7,250	ND				
98.78	10/31/2005	NG	0.00	NG	NS	NS	NS	NS	NS	NS				
	01/30/2006	7.63	0.00	91.15	ND	3.9	220	470	693.9	ND				
4-inch PVC	04/18/2006	7.91	0.00	90.87	ND	9.4	750	3,400	4,159	ND				
Total Depth:	10/02/2006	7.75	0.00	91.03	ND	4.4	390	1,500	1,894	ND				
20'	03/13/2007	7.98	0.00	90.80	ND	17	980	4,500	5,497	ND				
Depth to Screen:	06/25/2007	8.18	0.00	90.60	ND	8.6	780	3,100	3,889	ND				
8.06'	11/30/2007	7.86	0.00	90.92	ND	18	1,200	3,400	4,618	ND				
	02/19/2008	7.71	0.00	91.07	ND	ND	36	61	97	ND				
	05/27/2008	8.11	0.00	90.67	ND	ND	13	22	35	ND				
	08/28/2008	7.97	0.00	90.81	29	97	930	6,500	7,556	ND				
	11/24/2008	8.28	0.00	90.50	5.7	5.0	16.1	240	267	ND				
	02/11/2009	7.73	0.00	91.05	ND	12	307	529	848	ND				
	05/13/2009	8.89	0.00	89.89	ND	ND	333	424	757	ND				
	08/19/2009	7.87	0.00	90.91	ND	10.5	1,520	3,330	4,861	ND				
	11/17/2009	8.19	0.00	90.59	ND	9.3	1,070	2,880	3,959	ND				
	02/23/2010	8.01	0.00	90.77	ND	13.2	1,370	4,940	6,323	ND				
	05/17/2010	7.95	0.00	90.83	ND	9.0	1,070	3,690	4,769	ND				
	09/22/2010	8.17	0.00	90.61	ND	6.6	373	978	1,358	ND				
	12/07/2010	7.79	0.00	90.99	ND	28.9	1,480	3,780	5,289	ND				
	03/16/2011	7.28	0.00	91.50	1.0	12.0	1,000	1,340	2,353	ND<1.0	3,806			
	06/22/2011	7.80	0.00	90.98	1.2	10.5	786	1,810	2,608	ND<1.0	3,611			
	09/08/2011	7.85	0.00	90.93	ND<10	92.7	1,880	7,360	9,333	ND<20	11,291			
99.39	12/01/2011	7.29	0.00	92.10	ND<0.50	26.3	831	5,690	6,547	ND<1.0	8,655			
	03/26/2012	7.25	0.00	92.14	ND<5.0	27.0	1,010	6,540	7,577	ND<10	9,405			
	06/25/2012	7.66	0.00	91.73	ND<5.0	19.8	1,170	6,740	7,930	ND<10	10,711			
	09/11/2012	7.71	0.00	91.68	ND<5.0	ND<10	487	3,560	4,047	ND<10	6,068			
	12/13/2012	7.82	0.00	91.57	ND<0.50	5.0	670	4,070	4,745	ND<1.0	6,840			
	03/11/2003	7.38	0.00	92.01	ND<0.10	ND<0.20	573	3,560	4,133	ND<2.0	5,394			
	06/07/2013	7.29	0.00	92.10	ND<2.0	4.3	1,220	3,760	4,984	ND<4.0	7,058			
	09/16/2013	NG	0.00	NG	NSI	NSI	NSI	NSI	NSI	NSI	NSI			
	12/13/2013	7.87	0.00	91.52	ND<1.0	ND<2.0	244	973	1,217	ND<2.0	2,098			
	03/24/2014	7.50	0.00	91.89	ND<0.50	ND<1.0	123	616	739	ND<1.0	1,181			
	06/09/2014	NG	0.00	NG	NSI	NSI	NSI	NSI	NSI	NSI	NSI			
	09/12/2014	7.81	0.00	91.58	ND<0.50	ND<1.0	124	339	463	ND<1.0	648			
	12/08/2014	7.70	0.00	91.69	ND<0.50	1.2	244	765	1,010	ND<1.0	1,408			
	03/24/2015	8.70	0.00	90.69	ND<0.50	ND<1.0	309	971 NGI	1,280	ND<1.0	1,792			
	06/25/2015	NG	0.00	NG 01.41	NSI ND <2.5	NSI ND<5.0	NSI 274	NSI	NSI	NSI ND <5.0	NSI			
	09/11/2015	7.98 8.69	0.00	91.41 90.70	ND<2.5 ND<1.0	ND<5.0 ND<2.0	274 194	463 837	737 1,031	ND<5.0 ND<2.0	835			
	12/04/2015 03/11/2016	7.99	0.00	90.70	ND<1.0 ND<1.0	ND<2.0 ND<1.0	1.5	8.1	9.6	ND<2.0 ND<1.0	1,398 13.4			
	06/23/2016	8.53	0.00	90.86	ND<1.0 ND<1.0	ND<1.0	528	1,709	2,237	ND<1.0	2,876			
	09/28/2016	8.24	0.00	91.15	ND<1.0 ND<1.0	ND<1.0	328 464	580	1,044	ND<1.0	1,651			
	12/01/2016	8.30	0.00	91.13	ND<1.0 ND<1.0	ND<1.0	294	262	556	ND<1.0	923			
	03/23/2017	NG	0.00	91.09 NG	NSI	ND<1.0	NSI	NSI	NSI	NSI	NSI			
	06/23/2017	8.09	0.00	91.30	ND<1.0	ND<1.0	316	597	913	ND<1.0	1,205			
	09/22/2017	NG	0.00	91.30 NG	NSI	NSI	NSI	NSI	NSI	NSI	NSI			
	12/08/2017	NG	0.00	NG	NSI	NSI	NSI	NSI	NSI	NSI	NSI			
	03/26/2017	NG	0.00	NG	NSI	NSI	NSI	NSI	NSI	NSI	NSI			
	07/26/2018	NG	0.00	NG	ND<1.0	ND<1.0	314	649	963	ND<1.0	1,381			
	09/25/2018	8.44	0.00	90.95	ND<1.0	ND<1.0	529	1,403	1,932	ND<1.0	2,883			
	12/19/2018	8.15	0.00	91.24	6.2	ND<1.0	ND<1.0	ND<2.0	6.2	ND<1.0	6.2			
	04/18/2019	7.99	0.00	91.24	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND			
	07/11/2019	1.99 NG	0.00	91.40 NG	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND ND	ND			
	10/10/2019	NG	0.00	NG	1.6	ND<1.0	ND<1.0	ND<2.0	1.6	ND<1.0	1.6			
	12/31/2019	8.11	0.00	91.28	ND<1.0	ND<1.0	2.2	2.6	4.8	ND<1.0	6.1			
	03/25/2020	8.15	0.00	91.28	ND<1.0	ND<1.0	3.4	33.8	37.2	ND<1.0	48.0			
	06/08/2020	8.00	0.00	91.24	ND<1.0	ND<1.0	2.6	9.4	12.0	ND<1.0	12.0			

Elevation (ft)	Date 5/19/2004 5/19/2004 5/19/2004 5/19/2005 1/30/2006 1/18/2006 5/13/2006 5/13/2007 5/25/2007 1/30/2007 2/13/2007 2/13/2007 2/13/2008 5/27/2008 5/27/2008 5/27/2008 5/27/2008 5/27/2009 5/19/2009 5	Bepth to Water (ft) 8.47 8.52 8.31 8.57 8.33 8.39 9.00 8.23 8.43 8.61 4.73 8.90 8.40 8.58	LNAPL Thickness (ft) 0.00 0.00 0.01 0.00 0.02 0.24 0.31 0.18 0.02 0.00 0.00 0.00	GW Elevation (ft) 90.93 90.88 91.10 90.83 91.09 91.20 90.65 91.31 90.99 90.79 94.67	Benzene (ug/L) 286 300 NSP 390 NSP NSP NSP NSP NSP NSP 120	Toluene (ug/L) 4,630 1,600 NSP 1,900 NSP NSP NSP NSP NSP	EthylBenzene (ug/L) 2,120 1,100 NSP 1,800 NSP NSP NSP NSP	Xylenes (ug/L) 8,920 8,600 NSP 7,900 NSP NSP NSP	BTEX (ug/L) 15,956 11,600 NSP 11,990 NSP NSP NSP	MTBE (ug/L) ND ND NSP ND NSP NSP NSP	STARS VOCS (µg/L)
Elevation (ft)	5/19/2004 1/31/2005 1/30/2006 1/30/2006 1/30/2006 1/30/2006 1/30/2007 1/30/2007 1/30/2007 1/30/2007 1/30/2008 1/24/2008 1/24/2008 1/24/2008 1/3/3/2009 1/3/3/2009 1/3/3/2009	8.47 8.52 8.31 8.57 8.33 8.39 9.00 8.23 8.43 8.61 4.73 8.90 8.40	(ft) 0.00 0.00 0.01 0.00 0.02 0.24 0.31 0.18 0.02 0.00 0.00	(ft) 90.93 90.88 91.10 90.83 91.09 91.20 90.65 91.31 90.99 90.79 94.67	(ug/L) 286 300 NSP 390 NSP NSP NSP NSP NSP	(ug/L) 4,630 1,600 NSP 1,900 NSP NSP NSP NSP	(ug/L) 2,120 1,100 NSP 1,800 NSP NSP NSP	(ug/L) 8,920 8,600 NSP 7,900 NSP NSP NSP	(ug/L) 15,956 11,600 NSP 11,990 NSP NSP NSP	ND ND NSP ND NSP NSP NSP	
MW4 06/ 99.40 10/ 01/ 4-inch PVC 04/ Total Depth: 20/ 03/ Depth to Screen: 8.63' 11/ 02/ 05/5 08/ 08/ 11/ 02/ 05/ 08/ 11/ 02/ 05/ 08/	0/31/2005 1/30/2006 1/30/2006 1/18/2006 0/02/2006 3/13/2007 1/30/2007 1/30/2007 2/19/2008 5/27/2008 3/28/2008 1/24/2008 2/11/2009 5/13/2009	8.47 8.52 8.31 8.57 8.33 8.39 9.00 8.23 8.43 8.61 4.73 8.90 8.40	0.00 0.00 0.01 0.00 0.02 0.24 0.31 0.18 0.02 0.00 0.00	90.93 90.88 91.10 90.83 91.09 91.20 90.65 91.31 90.99 90.79 94.67	286 300 NSP 390 NSP NSP NSP NSP NSP	4,630 1,600 NSP 1,900 NSP NSP NSP NSP	2,120 1,100 NSP 1,800 NSP NSP NSP	8,920 8,600 NSP 7,900 NSP NSP NSP	15,956 11,600 NSP 11,990 NSP NSP NSP	ND ND NSP ND NSP	(μg/L)
99.40 10/ 01/ 4-inch PVC 04/ Total Depth: 20' 03/ Depth to Screen: 8.63' 11/ 02/ 05/ 08/ 11/ 02/ 05/ 08/ 11/ 02/ 05/ 08/ 11/	0/31/2005 1/30/2006 1/30/2006 1/18/2006 0/02/2006 3/13/2007 1/30/2007 1/30/2007 2/19/2008 5/27/2008 3/28/2008 1/24/2008 2/11/2009 5/13/2009	8.52 8.31 8.57 8.33 8.39 9.00 8.23 8.43 8.61 4.73 8.90 8.40	0.00 0.01 0.00 0.02 0.24 0.31 0.18 0.02 0.00 0.00	90.88 91.10 90.83 91.09 91.20 90.65 91.31 90.99 90.79 94.67	300 NSP 390 NSP NSP NSP NSP	1,600 NSP 1,900 NSP NSP NSP NSP	1,100 NSP 1,800 NSP NSP NSP	8,600 NSP 7,900 NSP NSP NSP	11,600 NSP 11,990 NSP NSP NSP	ND NSP ND NSP	
4-inch PVC 04/ Total Depth: 10/ 20 03/ Depth to Screen: 06/ 8.63' 11/ 02/ 05/ 08/ 11/ 02/ 05/ 08/ 11/ 02/ 05/ 08/ 11/ 02/ 05/	1/30/2006 4/18/2006 1/18/2006 1/18/2006 1/19/2006 1/13/2007 1/30/2007 1/30/2007 1/30/2007 1/30/2008 1/24/2008 1/24/2008 1/24/2009 1/30/2009 1/30/2009 1/30/2009	8.31 8.57 8.33 8.39 9.00 8.23 8.43 8.61 4.73 8.90 8.40 8.58	0.01 0.00 0.02 0.24 0.31 0.18 0.02 0.00 0.00	91.10 90.83 91.09 91.20 90.65 91.31 90.99 90.79 94.67	NSP 390 NSP NSP NSP NSP NSP	NSP 1,900 NSP NSP NSP NSP	NSP 1,800 NSP NSP NSP	NSP 7,900 NSP NSP NSP	NSP 11,990 NSP NSP NSP	NSP ND NSP NSP	
4-inch PVC Total Depth: 20/ 03/ Depth to Screen: 06/ 8.63' 11/ 02/ 05/ 08/ 11/ 02/ 05/ 08/ 11/ 11/ 01/ 02/ 05/ 08/ 11/ 11/ 01/ 01/ 01/ 01/ 01/ 01/ 01/ 01	4/18/2006 0/02/2006 8/13/2007 1/30/2007 1/30/2007 1/30/2007 2/19/2008 8/28/2008 1/24/2008 2/11/2009 5/13/2009 8/19/2009	8.57 8.33 8.39 9.00 8.23 8.43 8.61 4.73 8.90 8.40 8.58	0.00 0.02 0.24 0.31 0.18 0.02 0.00 0.00 0.00	90.83 91.09 91.20 90.65 91.31 90.99 90.79 94.67	390 NSP NSP NSP NSP	1,900 NSP NSP NSP NSP	1,800 NSP NSP NSP	7,900 NSP NSP NSP	11,990 NSP NSP NSP	ND NSP NSP	
Total Depth: 20 03/ 03/ 05/ 06/ 05/ 08/ 02/ 05/ 08/ 11// 02/ 05/ 08/ 11// 11// 02/ 05/ 08/ 11// 01/ 05/ 08/ 11// 01/ 05/ 08/ 11// 01/ 05/ 08/ 01/ 01/ 01/ 05/ 08/ 01/ 01/ 01/ 01/ 01/ 01/ 01/ 01/ 01/ 01	0/02/2006 8/13/2007 5/25/2007 1/30/2007 2/19/2008 5/27/2008 8/28/2008 1/24/2008 2/11/2009 5/13/2009 8/19/2009	8.33 8.39 9.00 8.23 8.43 8.61 4.73 8.90 8.40 8.58	0.02 0.24 0.31 0.18 0.02 0.00 0.00 0.00	91.09 91.20 90.65 91.31 90.99 90.79 94.67	NSP NSP NSP NSP NSP	NSP NSP NSP NSP	NSP NSP NSP	NSP NSP NSP	NSP NSP NSP	NSP NSP	
20' 03/ Depth to Screen: 06/ 8.63' 11/ 02/ 05/5 08/ 111/ 02/ 05/ 08/ 11/ 02/ 05/ 08/	8/13/2007 5/25/2007 1/30/2007 2/19/2008 5/27/2008 8/28/2008 1/24/2008 2/11/2009 5/13/2009 8/19/2009	8.39 9.00 8.23 8.43 8.61 4.73 8.90 8.40 8.58	0.24 0.31 0.18 0.02 0.00 0.00 0.00	91.20 90.65 91.31 90.99 90.79 94.67	NSP NSP NSP NSP	NSP NSP NSP	NSP NSP	NSP NSP	NSP NSP	NSP	
Depth to Screen: 8.63' 11/ 02/ 05/ 08/ 11/ 02/ 05/ 05/ 11/ 11/ 02/ 05/ 11/ 11/ 11/ 11/ 11/ 11/ 11	5/25/2007 1/30/2007 2/19/2008 5/27/2008 8/28/2008 1/24/2008 2/11/2009 5/13/2009 8/19/2009	9.00 8.23 8.43 8.61 4.73 8.90 8.40 8.58	0.31 0.18 0.02 0.00 0.00 0.00	90.65 91.31 90.99 90.79 94.67	NSP NSP NSP	NSP NSP	NSP	NSP	NSP		
8.63' 11/ 02/ 05/ 08/8 11/ 02/ 05/ 08/8 11/	1/30/2007 2/19/2008 5/27/2008 8/28/2008 1/24/2008 2/11/2009 5/13/2009 8/19/2009	8.23 8.43 8.61 4.73 8.90 8.40 8.58	0.18 0.02 0.00 0.00 0.00	91.31 90.99 90.79 94.67	NSP NSP	NSP				NSP I	
02/ 05/ 08/ 11// 02/ 05/ 08/ 11/	2/19/2008 5/27/2008 8/28/2008 1/24/2008 2/11/2009 5/13/2009 8/19/2009	8.43 8.61 4.73 8.90 8.40 8.58	0.02 0.00 0.00 0.00	90.99 90.79 94.67	NSP		NGP				l l
05/, 08/, 11/, 02/ 05/ 08/ 11/	5/27/2008 8/28/2008 1/24/2008 1/24/2009 1/24/2009 1/24/2009 1/24/2009 1/24/2009 1/24/2009	8.61 4.73 8.90 8.40 8.58	0.00 0.00 0.00	90.79 94.67				NSP	NSP	NSP	
08/ 11/: 02/ 05/ 08/ 11/	3/28/2008 1/24/2008 2/11/2009 5/13/2009 3/19/2009	4.73 8.90 8.40 8.58	0.00	94.67		NSP	NSP	NSP	NSP	NSP	
11/: 02/ 05/ 08/ 11/	1/24/2008 2/11/2009 5/13/2009 8/19/2009	8.90 8.40 8.58	0.00			1,300	3,300	16,000	20,720	ND	
02/ 05/ 08/ 11/	2/11/2009 5/13/2009 8/19/2009	8.40 8.58			390 29.4	2,600	3,100	14,000	20,090	ND	
05/ 08/ 11/	5/13/2009 8/19/2009	8.58		90.50 91.00	29.4	640 275	2,540	10,900	14,109	ND ND	
08/ 11/	3/19/2009		0.00	90.82		212	1,820 1,920	5,490 4,660	7,608	ND ND	
11/		8.57	0.00	90.82	25.6 23.9	372	2,280	6,870	6,818 9,546	ND ND	
	1/1//2009	8.96	0.00	90.83	23.9 ND	304	1,060	2,650	4,014	ND ND	
	2/23/2010	8.83	0.00	90.44	ND ND	277	984	2,860	4,014	ND ND	
	5/17/2010	8.60	0.00	90.80	7.9	489	1,180	4,010	5,687	ND	
	9/22/2010	8.80	0.00	90.60	7.6	294	1,220	3,550	5,072	ND	
	2/07/2010	8.53	0.00	90.87	34.6	677	1,510	4,030	6,252	ND	
	3/16/2011	8.03	0.00	91.37	35.0	770	2,600	6,400	9,805	ND<3.0	12,895
	5/22/2011	8.46	0.00	90.94	22.7	766	2,280	5,990	9,059	ND<3.0	12,711
	9/08/2011	8.52	0.00	90.88	29.7	764	1,670	4,980	7,444	ND<10	9,404
	2/01/2011	8.37	0.02	91.84	16.1	801	1,280	9,040	11,137	ND<1.0	17,336
	3/26/2012	8.49	0.00	91.72	ND<10	848	839	8,490	10,177	ND<20	14,201
	5/25/2012	8.63	0.00	91.58	ND<10	915	1,280	8,630	10,825	ND<20	14,593
09/	9/11/2012	7.85	0.00	92.36	ND<5.0	332	666	5,900	6,898	ND<10	10,806
	2/13/2012	8.64	0.00	91.57	ND<0.50	98.5	54.2	4,970	5,123	ND<1.0	11,286
03/	3/11/2013	8.40	0.00	91.81	ND<0.25	108.0	403.0	5,510	6,021	ND<50	11,695
06/	5/07/2013	8.19	0.00	92.02	ND<10	54.4	658.0	7,560	8,272	ND<20	11,326
09/	9/16/2013	8.64	0.00	91.57	ND<0.50	7.7	167	1,140	1,315	ND<1.0	2,015
12/	2/13/2013	8.49	0.00	91.72	ND<0.50	1.3	7.4	41.9	50.6	ND<1.0	66.7
	3/24/2014	8.45	0.00	91.76	ND<0.50	4.2	65.4	631	701	ND<1.0	1,077
06/	5/09/2014	8.42	0.00	91.79	ND<0.50	2.7	27.8	342	373	ND<1.0	584
	9/12/2014	8.79	0.00	91.42	ND<0.50	ND<1.0	15.7	236	252	ND<1.0	468
	2/08/2014	8.69	0.00	91.52	ND<0.50	2.7	27.4	329	359	ND<1.0	646
	3/24/2015	9.69	0.00	90.52	ND<0.50	ND<1.0	5.0	67	72	ND<1.0	157
	5/25/2015	9.08	0.00	91.13	ND<0.50	2.5	15.7	162	180	ND<1.0	383
	9/11/2015	9.35	0.00	90.86	ND<0.50	0.56	12.3	105	118	ND<1.0	435
	2/04/2015	9.54	0.00	90.67	ND<0.50	ND<1.0	12.8	152	165	ND<1.0	718
	3/11/2016	8.94	0.00	91.27	ND<1.0	ND<1.0	2.5	69	71	ND<1.0	193
	5/23/2016	9.36 9.08	0.00	90.85	ND<1.0	31.5 23.4	108 53.1	81.1	221 121	ND<1.0	721
	9/28/2016 2/01/2016	9.08	0.00	91.13 90.70	ND<1.0 ND<1.0	1.1	2.1	93.0	96.2	ND<1.0 ND<1.0	455 363
	3/23/2017	9.51	0.00	90.70	ND<1.0 ND<1.0	1.1 ND<1.0	2.1 ND<1.0	5.9	5.9	ND<1.0 ND<1.0	16.5
	5/23/2017	9.05 8.88	0.00	91.16	ND<1.0 ND<1.0	7.1	31.7	92.8	131.6	ND<1.0 ND<1.0	283
	9/22/2017	9.28	0.00	90.93	ND<1.0	7.1 ND<1.0	ND<1.0	7.4	7.4	ND<1.0 ND<1.0	79.7
	2/08/2017	9.28	0.00	91.06	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	2.3
	3/26/2018	9.06	0.00	91.15	ND<1.0	ND<1.0	ND<1.0	19.8	19.8	ND<1.0	46.0
	5/22/2018	9.17	0.00	91.04	ND<1.0	20.6	21.4	64.9	106.9	ND<1.0	134.2
	9/25/2018	9.30	0.00	90.91	ND<1.0	ND<1.0	9.4	1.0	10.4	ND<1.0	69.3
	2/13/2018	8.78	0.00	91.43	ND<1.0	ND<1.0	1.8	5.1	6.9	ND<1.0	13.3
	3/21/2019	9.18	0.00	91.03	ND<1.0	ND<1.0	ND<1.0	7.8	7.8	ND<1.0	17.1
	5/07/2019	9.16	0.00	91.05	ND<1.0	10.0	20.9	48.2	79.1	ND<1.0	162.7
	9/18/2019	9.06	0.00	91.15	ND<1.0	5.2	22.4	21.9	49.5	ND<1.0	171.2
	2/31/2019	8.95	0.00	91.26	ND<1.0	3.3	13.7	25.2	42.2	ND<1.0	77.0
	3/25/2020	9.02	0.00	91.19	ND<1.0	27.2	30.3	193	250	ND<1.0	418
	5/08/2020	8.84	0.00	91.37	ND<1.0	26.5	73.6	30	130	ND<1.0	290.9

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Well ID# and	.	Depth to	LNAPL	GW	Benzene	Toluene	EthylBenzene	Xylenes	BTEX	MTBE	STARS
Casing	Date	Water (ft)	Thickness	Elevation	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	VOCS
Elevation (ft) MW5	06/19/2004	8.64	(ft) 0.00	(ft) 90.92	ND	2,940	2,030	7,870	12,840	ND	(μg/L)
99.56	10/31/2005	8.72	0.00	90.92	ND ND	2,940	390	670	1,280	ND ND	
99.50	01/30/2006	8.51	0.00	91.05	10	2,100	1,300	4,700	8,110	ND ND	
4-inch PVC	04/18/2006	8.72	0.00	90.84	ND	1,200	780	2,700	4,680	ND	
Total Depth:	10/02/2006	8.55	0.00	91.01	2.7	810	650	2,200	3,663	ND	
20'	03/13/2007	8.71	0.00	90.85	ND	1,700	950	4,200	6,850	ND	
Depth to Screen:	06/25/2007	9.38	0.00	90.18	ND	1,200	910	3,200	5,310	ND	
8.58'	11/30/2007	8.70	0.00	90.86	ND	780	970	2,400	4,150	ND	
	02/19/2008	8.63	0.00	90.93	ND	870	390	1,100	2,360	ND	
	05/27/2008	8.85	0.00	90.71	ND	1,900	1,400	4,200	7,500	ND	
	08/28/2008	2.62	0.00	96.94	ND	63	61	200	324	ND	
	11/24/2008	9.02	0.00	90.54	ND	27.6	45.8	104	177.4	ND	
	02/11/2009	8.64	0.00	90.92	ND	614	393	918	1,925	ND	
	05/13/2009	8.72	0.00	90.84	ND	885	1,350	3,740	5,975	ND	
	08/19/2009	8.69	0.00	90.87	ND	1,750	1,560	3,970	7,280	ND	
	11/17/2009	9.01	0.00	90.55	ND	2,390	1,360	4,570	8,320	ND	
	02/23/2010	8.90	0.00	90.66	ND	2,300	1,550	5,810	9,660	ND	
	05/17/2010	8.72	0.00	90.84	ND	1,260	1,080	3,840	6,180	ND	
	09/22/2010	8.97	0.00	90.59	ND ND	1,100	322 1,250	944	2,366	ND ND	
	12/07/2010 03/16/2011	8.60 8.19	0.00	90.96 91.37	ND<1.0	1,440 1,200	1,100	4,110 3,280	6,800 5,580	ND<1.0	6,722
	06/22/2011	8.63	0.00	90.93	0.9	1,490	1,300	3,930	6,721	ND<1.0	8,421
	09/08/2011	8.64	0.00	90.93	ND<2.5	781	820	1,950	3,551	ND<1.0	4,538
100.32	12/01/2011	8.58	0.00	91.74	0.7	659	833	2,330	3,823	ND<1.0	5,122
100.52	03/26/2012	8.70	0.00	91.62	ND<2.5	556	851	1,860	3,267	ND<5.0	4,154
	06/25/2012	8.80	0.00	91.52	ND<5.0	623	860	2,420	3,903	ND<10	5,051
	09/11/2012	8.71	0.00	91.61	ND<5.0	189	569	1,850	2,608	ND<10	3,731
	12/13/2012	8.82	0.00	91.50	ND<0.50	546	605	1,170	2,321	ND<1.0	2,970
	03/11/2013	8.68	0.00	91.64	ND<0.50	491	535	1,170	2,196	ND<10	2,942
	06/07/2013	8.46	0.00	91.86	ND<2.0	719	1,090	1,460	3,269	ND<4.0	4,532
	09/16/2013	8.83	0.00	91.49	ND<0.50	590	808	1,280	2,678	ND<1.0	3,865
	12/13/2013	8.78	0.00	91.54	ND<2.5	543	944	1,200	2,687	ND<5.0	3,980
	03/24/2014	8.62	0.00	91.70	ND<0.50	55.2	150	135	340	ND<1.0	751
	06/09/2014	8.59	0.00	91.73	ND<0.50	59.7	113	110	283	ND<1.0	394
	09/12/2014	8.85	0.00	91.47	ND<0.50	253	620	675	1,548	ND<1.0	2,337
	12/08/2014	8.78	0.00	91.54	ND<1.0	210	638	725	1,573	ND<2.0	2,251
	03/24/2015	9.90	0.00	90.42	ND<0.5	21.1	124	230	375	ND<1.0	541
	06/25/2015	9.24	0.00	91.08	ND<2.5	62.3	595	669	1,326	ND<5.0	1,965
	09/11/2015 12/04/2015	8.64 9.52	0.00	91.68 90.80	ND<1.0 ND<1.0	26.8 34.2	386 1,000	720 1,270	1,133 2,304	ND<5.0 ND<2.0	1,659 3,689
	03/11/2016	9.52 8.98	0.00	90.80	ND<1.0 ND<1.0	34.2	64.8	1,270	2,304	ND<2.0 ND<1.0	3,689
	06/23/2016	9.49	0.00	90.83	ND<1.0 ND<1.0	24.2	126	228	378	ND<1.0 ND<1.0	512
	09/28/2016	9.30	0.00	91.02	ND<1.0	10.0	247	242	499	ND<1.0	712
	12/01/2016	9.36	0.00	90.96	ND<1.0	5.4	123	92	221	ND<1.0	367
	03/23/2017	9.11	0.00	91.21	ND<1.0	3.5	67.0	46.4	116.9	ND<1.0	176.2
	06/23/2017	9.01	0.00	91.31	ND<1.0	84.7	346	332	762	ND<1.0	1,051
	09/22/2017	9.40	0.00	90.92	ND<1.0	12.9	243	247	503	ND<1.0	777
	12/08/2017	9.19	0.00	91.13	ND<1.0	8.0	33.6	8.5	50.1	ND<1.0	82.6
	03/26/2018	9.10	0.00	91.22	ND<1.0	164	201	231	596	ND<1.0	755
	06/22/2018	9.17	0.00	91.15	ND<1.0	28.1	218	169	416	ND<1.0	657
	09/25/2018	9.33	0.00	90.99	ND<1.0	29.3	87.1	46.8	163	ND<1.0	218
	12/13/2018	9.03	0.00	91.29	ND<1.0	5.4	79.9	162.2	248	ND<1.0	342
	03/21/2019	9.31	0.00	91.01	ND<1.0	76.1	212.0	110.6	399	ND<1.0	560
	06/07/2019	9.29	0.00	91.03	ND<1.0	11.1	107	18.0	136	ND<1.0	250
	09/18/2019	9.30	0.00	91.02	ND<1.0	27.4	335	28.1	391	ND<1.0	597
	12/31/2019	9.21	0.00	91.11	ND<1.0	16.7	540	29.7	586	ND<1.0	1,311
	03/25/2020	9.28	0.00	91.04	ND<1.0	13.7	260	106	380	ND<1.0	833
	06/08/2020	9.10	0.00	91.22	ND<1.0	10.4	139	155.6	305	ND<1.0	614.8

Well ID# and			LNAPL	GW	_						STARS
Casing	Date	Depth to	Thickness	Elevation	Benzene	Toluene	EthylBenzene	Xylenes	BTEX	MTBE	vocs
Elevation (ft)		Water (ft)	(ft)	(ft)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(µg/L)
MW6	06/19/2004	9.19	0.00	90.81	ND	4,080	1,750	7,740	13,570	ND	
100.00	10/31/2005	9.31	0.00	90.69	ND	2,600	1,300	5,800	9,700	ND	
	01/30/2006	9.03	0.00	90.97	ND	4,400	1,200	5,500	11,100	ND	
4-inch PVC	04/18/2006	9.31	0.00	90.69	80	2,400	740	3,500	6,720	18	
Total Depth:	10/02/2006	9.14	0.00	90.86	4.0	4,500	1,300	5,500	11,304	ND	
20'	03/13/2007	9.27	0.00	90.73	ND	3,900	980	4,900	9,780	ND	
Depth to Screen:	06/25/2007	10.47	0.00	89.53	ND	3,500	830	3,800	8,130	ND	
8.68'	11/30/2007	9.23	0.00	90.77	ND	1,200	260	1,700	3,160	ND	
	02/19/2008	9.21	0.00	90.79	ND	1,300	190	980	2,470	ND	
	05/27/2008	9.39	0.00	90.61	ND	1,200	390	2,200	3,790	ND	
	08/28/2008	7.79	0.00	92.21	ND	190	110	360	660	ND	
	11/24/2008	9.55	0.00	90.45	ND	6.0	ND (52	69.5	75.5	ND	
	02/11/2009	9.22	0.00	90.78	ND	1,110	652	2,340	4,102	ND	
	05/13/2009	9.27	0.00	90.73	ND	2,430	1,460	5,840	9,730	ND	
	08/19/2009	9.24	0.00	90.76	ND	1,930	1,030	3,940	6,900	ND	
	11/17/2009	9.45 9.42	0.00	90.55	ND ND	2,760	1,120	4,900	8,780	ND ND	
	02/23/2010		0.00	90.58 90.79	ND ND	3,870 2,020	1,720 749	8,070 3,570	13,660 6,339	ND ND	
	05/17/2010	9.21					276				
	09/22/2010	9.48	0.00	90.52	ND ND	1,550		1,070	2,896 5,904	ND ND	
	12/07/2010 03/16/2011	9.18 8.81	0.00	90.82 91.19	ND<3.0	1,760 2,300	764 850	3,380 3,900	7,050	ND<3.0	8,282
	06/22/2011	9.17	0.00	90.83	ND<3.0 ND<0.50	1,160	785	3,900	4,995	ND<3.0 ND<1.0	6,446
100.03	06/22/2011	9.17	0.00	90.83	ND<0.50 ND<2.5	790	785 593	2,140	3,523	ND<1.0 ND<5.0	4,169
100.69	12/01/2011	8.98	0.00	91.71	ND<2.3 ND<0.50	912	143	4,360	5,415	ND<3.0	6,592
100.03	03/26/2012	9.10	0.00	91.71	ND<0.50	170	44	3,000	3,214	ND<1.0	3,976
	06/25/2012	9.19	0.00	91.50	ND<5.0	447	62	3,750	4,259	ND<10	5,147
	09/11/2012	9.14	0.00	91.55	ND<5.0	362	28.1	2,410	2,800	ND<10	3,363
	12/13/2012	9.19	0.00	91.50	ND<0.50	395	27.2	3,140	3,562	ND<1.0	4,355
	03/11/2013	9.03	0.00	91.66	ND<0.50	384	18.4	3,330	3,732	ND<10	4,476
	06/07/2013	8.83	0.00	91.86	ND<0.50	40.5	20.4	573	634	ND<1.0	831
	09/16/2013	9.20	0.00	91.49	ND<0.50	34.2	31.7	385	451	ND<1.0	672
	12/13/2013	9.22	0.00	91.47	ND<1.0	52.4	9.6	905	967	ND<2.0	1,151
	03/24/2014	8.74	0.00	91.95	ND<0.50	32.7	2.7	405	440	ND<1.0	509
	06/09/2014	9.10	0.00	91.59	ND<0.50	101.0	14.0	1,560	1,675	ND<1.0	2,017
	09/12/2014	9.32	0.00	91.37	ND<0.50	22.3	6.2	642	671	ND<1.0	872
	12/08/2014	9.28	0.00	91.41	ND<0.50	1.6	1.3	49.4	52.3	ND<1.0	61.8
	03/24/2015	10.38	0.00	90.31	ND<0.50	1.4	2.4	13.1	16.9	ND<1.0	23.9
	06/25/2015	9.68	0.00	91.01	ND<0.50	5.5	3.2	260.0	268.7	ND<1.0	317.4
	09/11/2015	9.66	0.00	91.03	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND	ND<1.0	ND
	12/04/2015	10.04	0.00	90.65	ND<0.50	ND<1.0	ND<1.0	1.3	1.3	ND<1.0	1.3
	03/11/2016	9.51	0.00	91.18	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	1.0
	06/23/2016	10.01	0.00	90.68	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND
	09/28/2016	9.70	0.00	90.99	ND<1.0	1.1	ND<1.0	19.6	20.7	ND<1.0	21.9
	12/01/2016	9.74	0.00	90.95	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND
	03/23/2017	9.56	0.00	91.13	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND
	06/23/2017	9.44	0.00	91.25	ND<1.0	ND<1.0	ND<1.0	13.4	13.4	ND<1.0	16.3
	09/22/2017	9.90	0.00	90.79	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND
	12/08/2017	9.75	0.00	90.94	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND
	03/26/2018	9.69	0.00	91.00	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND
	06/22/2018	9.77	0.00	90.92	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND
	09/25/2018	9.77	0.00	90.92	ND<1.0	41.0	15.1	59.4	115.5	ND<1.0	122.7
	12/13/2018	9.39	0.00	91.30	ND<1.0	ND<1.0	ND<1.0	10.1	10.1	ND<1.0	12.8
	03/21/2019	9.38	0.00	91.31	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND
	06/07/2019	9.86	0.00	90.83	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND
	09/18/2019	9.72	0.00	90.97	ND<1.0	5.4	2.1	478	486	ND<1.0	627
	12/31/2019	9.62	0.00	91.07	ND<1.0	3.4	18.1	137	159	ND<1.0	221
	03/25/2020	9.69	0.00	91.00	ND<1.0	3.4	11.3	210	224	ND<1.0	384
	06/08/2020	9.55	0.00	91.14	ND<1.0	9.4	3.7	476	489.1	ND<1.0	722.3

Historical Groundwater Data Summary Former Sunoco Station 181 Delaware Avenue Buffalo, New York

Well ID# and		Depth to	LNAPL	GW	Benzene	Toluene	EthylBenzene	Xvlenes	BTEX	MTBE	STARS
Casing	Date	Water (ft)	Thickness	Elevation	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	VOCS
Elevation (ft)	0.5/4.0/2.004	` '	(ft)	(ft)	(0)	, ,	, ,	, ,	(8)		(μg/L)
MW7	06/19/2004	7.98	0.00	90.79	648	3,100	2,320	10,450	16,518	ND	
98.77	10/31/2005	8.11	0.00	90.66	710	2,400	1,300	7,800	12,210	ND	
	01/30/2006	7.85	0.00	90.92	870	4,200	2,500	13,000	20,570	ND	
4-inch PVC	04/18/2006 10/02/2006	8.07 7.91	0.00	90.70 90.86	910 560	4,800 3,900	2,400 2,100	13,000 9,500	21,110 16,060	ND ND	
Total Depth: 20'	03/13/2007	NG-i	0.00	90.86 NG-i	NSI	3,900 NSI	2,100 NSI	9,500 NSI	NSI	NSI	
Depth to Screen:	06/25/2007	8.29	0.00	90.48	ND	ND	ND	ND	ND	ND	
8.58'	11/30/2007	8.02	0.00	90.48	160	2,500	1,500	8,700	12,860	ND	
6.36	02/19/2008	8.04	0.00	90.73	200	3,300	1,700	8,300	13,500	ND	
	05/27/2008	8.18	0.00	90.59	22	190	360	1,900	2,472	ND	
	08/28/2008	7.49	0.00	91.28	ND	310	180	610	1,100	ND	
	11/24/2008	8.79	0.00	89.98	48.9	2,130	365	8,350	10,894	ND	
	02/11/2009	8.45	0.00	90.32	36.1	1,070	823	3,650	5,579	ND	
	05/13/2009	8.50	0.00	90.27	71.8	1,450	2,350	10,000	13,872	ND	
	08/19/2009	8.47	0.00	90.30	57.3	1,950	2,590	13,600	18,197	ND	
	11/17/2009	8.76	0.00	90.01	38.1	2,150	1,920	9,010	13,118	ND	
	02/23/2010	NG-i	0.00	NG-i	NSI	NSI	NSI	NSI	NSI	NSI	
	05/17/2010	8.48	0.00	90.29	23.4	2,240	1,960	9,570	13,793	ND	
	09/22/2010	NG-i	0.00	NG-i	NSI	NSI	NSI	NSI	NSI	NSI	
	12/07/2010	8.41	0.00	90.36	18.9	2,820	1,890	9,990	14,719	ND	
	03/16/2011	7.96	0.00	90.81	12	2,200	1,800	9,500	13,512	ND<3.0	15,362
	06/22/2011	8.36	0.00	90.41	11.9	2,290	1,830	9,840	13,972	ND<1.0	16,421
99.17	09/08/2011	8.40	0.00	90.77	51.1	2,930	2,200	10,600	15,781	ND<20	17,569
99.96	12/01/2011	8.32	0.00	91.64	2.2	568	208	10,400	11,178	ND<1.0	13,459
	03/26/2012	8.43 8.52	0.00	91.53 91.44	ND<5.0 ND<5.0	132 60.6	60.2 21.8	6,740	6,932	ND<10 ND<10	8,435 7,163
	06/25/2012	8.53	0.00	91.44	ND<5.0	40.1	54.9	5,810 2,660	5,892 2,755	ND<10	3,669
	09/11/2012 12/13/2012	8.65	0.00	91.43	ND<5.0 ND<0.50	40.1	20.5	645	669.6	ND<10	1,002
	03/11/2013	8.31	0.00	91.65	ND<0.50	2.3	10.0	578	590.3	ND<1.0	951
	06/07/2013	8.17	0.00	91.79	ND<0.50	11.0	14.7	624	649.7	ND<1.0	1,081
	09/16/2013	8.76	0.00	91.20	ND<0.50	6.5	7.9	61.8	76.2	ND<1.0	139.2
	12/13/2013	8.53	0.00	91.43	ND<0.50	4.2	2.9	15.2	22.3	ND<1.0	37.8
	03/24/2014	8.42	0.00	91.54	ND<0.50	ND<1.0	ND<1.0	13.9	13.9	ND<1.0	56.8
	06/09/2014	8.37	0.00	91.59	ND<0.50	9.0	5.6	135	150	ND<1.0	589
	09/12/2014	8.64	0.00	91.32	ND<0.50	7.0	6.6	23	36	ND<1.0	61
	12/08/2014	8.56	0.00	91.40	ND<0.50	ND<1.0	ND<1.0	2.0	2.0	ND<1.0	7.5
	03/24/2015	9.73	0.00	90.23	ND<0.50	5.6	3.1	12.0	20.7	ND<1.0	20.7
	06/25/2015	9.00	0.00	90.96	ND<5.0	ND<10	ND<10	ND<10	ND	ND<10	0.88
	09/11/2015	8.24	0.00	91.72	ND<0.50	1.7	0.89	3.3	5.9	ND<1.0	7.2
	12/04/2015	9.38	0.00	90.58	ND<0.50	ND<1.0	ND<1.0	2.2	2.2	ND<1.0	2.9
	03/11/2016	8.82	0.00	91.14	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND
	06/23/2016	9.24	0.00	90.72	ND<1.0	15.0	22.60	37.2	74.8	ND<1.0	84.5
	09/28/2016	9.03	0.00	90.93	ND<1.0	5.9	1.2	ND<2.0	7.1	ND<1.0	14.2
	12/01/2016	9.05	0.00	90.91	ND<1.0	2.6	8.3	3.1	14.0	ND<1.0	17.8
	03/23/2017	8.93	0.00	91.03	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND<1.0	ND
	06/23/2017	8.88	0.00	91.08	ND<1.0	112	60.8	329	502	ND<1.0	557
	09/22/2017	9.26	0.00	90.70 90.84	ND<1.0	3.8 ND<1.0	1.8 ND<1.0	6.2 ND<2.0	11.8 ND	ND<1.0	11.8 ND
	12/08/2017 03/26/2018	9.12 9.03	0.00	90.84	ND<1.0 ND<1.0	ND<1.0	ND<1.0 ND<1.0	ND<2.0 ND<2.0	ND 1.8	ND<1.0 ND<1.0	3.8
	06/22/2018	9.03	0.00	90.93	ND<1.0	1.8	ND<1.0 8.0	ND<2.0 51.8	72.7	ND<1.0 ND<1.0	78.9
	09/25/2018	9.12	0.00	90.84	ND<1.0	ND<1.0	8.0 ND<1.0	ND<2.0	ND	ND<1.0 ND<1.0	78.9 ND
	12/13/2018	8.77	0.00	91.19	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND
	03/21/2019	8.66	0.00	91.19	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND
	06/07/2019	9.29	0.00	90.67	ND<1.0	33.9	5.1	116.5	155.5	ND<1.0	177.5
	09/18/2019	9.10	0.00	90.86	ND<1.0	1.3	ND<1.0	3.7	5.0	ND<1.0	6.7
	12/31/2019	9.01	0.00	90.95	ND<1.0	8.8	6.5	18.0	33.3	ND<1.0	37.4
	03/25/2020	9.05	0.00	90.91	ND<1.0	27.0	20.2	68.8	116	ND<1.0	131
	06/08/2020	8.89	0.00	91.07	ND<1.0	40.6	38.4	190.4	269.4	ND<1.0	310.4

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Well ID# and Casing	Date	Depth to	LNAPL Thickness	GW Elevation	Benzene	Toluene	EthylBenzene	Xylenes	BTEX	МТВЕ	STARS VOCS
Elevation (ft)		Water (ft)	(ft)	(ft)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(µg/L)
MW10	06/19/2004	NG	0.00	NG	NS	NS	NS	NS	NS	NS	
98.87	10/31/2005	8.31	0.00	90.56	27	60	46	160	293	ND	
	01/30/2006	8.03	0.00	90.84	190	60	120	370	740	ND	
4-inch PVC	04/18/2006	8.30	0.00	90.57	45	28	130	470	673	ND	
Total Depth:	10/02/2006	8.11	0.00	90.76	93	26	34	180	333	ND	
18'	03/13/2007	8.26	0.00	90.61	65	7.3	23	28	123.3	ND	
Depth to Screen:	06/25/2007	7.58	0.00	91.29	220	110	130	160	620	ND	
NA	11/30/2007	8.25	0.00	90.62	170	87	200	2,100	2,557	ND	
	02/19/2008	8.18	0.00	90.69	280	45	100	590	1,015	ND	
	05/27/2008	8.40	0.00	90.47	160	20	31	300	511	ND	
	08/28/2008	7.82	0.00	91.05	490	190	350	700	1,730	ND	
	11/24/2008	8.45	0.00	90.42	28.4	27.1	31.5	199	286	ND	
	02/11/2009	8.15	0.00	90.72	74.7	188	800	700	1,763	ND	
	05/13/2009	8.17	0.00	90.7	186	163	1,100	1,060	2,509	ND	
	08/19/2009	8.14	0.00	90.73	285	181	395	941	1,802	ND	
	11/17/2009	8.45	0.00	90.42	131	59.1	242	378	810	ND	
	02/23/2010	8.31	0.00	90.56	82.9	127	298	758	1,266	ND	
	05/17/2010	8.21	0.00	90.66	92.2	197	480	1,090	1,859	ND	
	09/22/2010	8.41	0.00	90.46	17.6	44.3	185	408	654.9	ND	
	12/07/2010	8.09	0.00	90.78	11.4	141	423	1,280	1,855	ND	
	03/16/2011	7.61	0.00	91.26	5	42	94	368	509	ND<0.5	574
	06/22/2011	8.01	0.00	90.86	33.3	68.2	540	651	1,293	ND<1.0	1,512.3
	09/08/2011	8.08	0.00	90.79	70.9	53.7	563	520	1,208	ND<2.0	1,431.8
	12/01/2011					3.7	Access				
	03/26/2012					INC	Access				
	06/25/2012	8.22	0.00	90.65	2.8	26.6	315	329	670.6	ND<1.0	482
99.60	09/11/2012	8.24	0.00	91.36	1.3	51.2	564	449	1,064	ND<1.0	1424
	12/13/2012	8.26	0.00	91.34	0.85	44.1	250	316	611.0	ND<1.0	703
	03/11/2013	8.10	0.00	91.50	ND<0.5	39.1	196	285	520.1	ND<1.0	628
	06/07/2013	7.89	0.00	91.71	ND<.50	33.9	146	250	429.9	ND<1.0	583
	09/16/2013	8.22	0.00	91.38	2.8	179	145	624	951	ND<1.0	1,092
	12/13/2013	8.30	0.00	91.30	2.6	81.1	90.2	381	555	ND<1.0	609
	03/24/2014	8.10	0.00	91.50	0.89	117	112	484	714	ND<1.0	760
	06/09/2014	8.13	0.00	91.47	0.55	51.2	93.8	187	333	ND<1.0	367
	09/12/2014	8.32	0.00	91.28	0.94	12.8	139	177	330	ND<1.0	384
	12/08/2014	8.28	0.00	91.32	0.58	10.5	88.7	107	207	ND<1.0	241
	03/24/2015	9.52	0.00	90.08	ND<0.5	370	809	2,750	3,929	ND<1.0	4,578
	06/25/2015	8.73	0.00	90.87	ND<1.0	39.1	707	1,430	2,176	ND<2.0	2,539
	09/11/2015	9.02	0.00	90.58	ND<1.0	79.9	72.6	212	365	ND<2.0	514
	12/04/2015	9.12	0.00	90.48	ND<0.50	19.0	189	756	964	ND<1.0	1,141
	03/11/2016	8.46	0.00	91.14	ND<1.0	ND<1.0	2.1	ND<2.0	2.1	ND<1.0	47.7
	06/23/2016	9.05	0.00	90.55	ND<1.0	1.2	66.2	6.0	73.4	ND<1.0	128.4
	09/28/2016	8.74	0.00	90.86	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	3.8
	12/01/2016	8.68	0.00	90.92	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	4.8
	03/23/2017	8.65	0.00	90.95	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND
	06/23/2017	8.51	0.00	91.09	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND
	09/22/2017	8.94	0.00	90.66	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	1.2
	12/08/2017	8.79	0.00	90.81	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND
	03/26/2018	8.72	0.00	90.88	ND<1.0	12.9	21.3	62.1	96.3	ND<1.0	99.2
	06/22/2018	8.85	0.00	90.75	ND<1.0	304	351	677	1,332	ND<1.0	1,502
	09/25/2018	8.96	0.00	90.64	ND<1.0	92.4	464	298	854	ND<1.0	1,059

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Well ID# and Casing	Date	Depth to Water (ft)	LNAPL Thickness	GW Elevation	Benzene (ug/L)	Toluene (ug/L)	EthylBenzene (ug/L)	Xylenes (ug/L)	BTEX (ug/L)	MTBE (ug/L)	STARS VOCS
Elevation (ft) MW11	04/18/2006	8.51	(ft) 0.00	(ft) 90.94	540	2,500	2,100	9,800	14,940	ND	(μg/L)
99.45											
99.45	10/02/2006	8.38	0.00	91.07 90.93	340 200	3,600	2,700	10,000	16,640	ND ND	
	03/13/2007	8.52 8.73	0.00	90.93	190	1,600	1,800	7,500	11,100	ND ND	
4-inch PVC	11/30/2007	8.73 NG	0.00	90.72 NG	NS NS	1,100 NS	2,400	9,600 NS	13,290 NS	NS NS	
Total Depth:	02/19/2008			90.89	490	NS 290	NS 1.600			ND ND	
19.3	05/27/2008	8.56 8.70	0.00		640	1500	1,600 2,400	5,200 5,900	7,580 10,440	ND ND	
Depth to Screen:	08/28/2008	4.00	0.00	90.75 95.45	370	1,400	2,400	11,000	15,670	ND ND	
3.08'	11/24/2008	8.58	0.00	90.87	115	1,020	2,900	11,600	14,755	ND ND	
	02/11/2009	8.15	0.00	91.3	138	324	1,870	6,480	8,812	ND ND	
	05/13/2009	8.13	0.00	91.3	134	310	903	2,980	4,327	ND ND	
	08/19/2009	8.24	0.00	91.26	222	1,090	1,820	7,270	10,402	ND ND	
	11/17/2009	8.19	0.00	90.99	111	295	521	1,900	2,827	ND ND	
	02/23/2010	8.32	0.00	91.13	66.9	239	369		2,885	ND	
								2,210	_		
	05/17/2010 09/22/2010	8.24 8.60	0.00	91.21 90.85	104 52.8	514 157	834 256	2,780 891	4,232 1,357	ND ND	
	12/07/2010	8.60	0.00	90.85	133	499	619	2,350	3,601	ND ND	
	03/16/2011	7.67	0.00	91.78	220	1,100	800	3,210	5,330	ND<1.0	6,901
	06/22/2011	8.12	0.00	91.78	66.1	405	588	3,970	5,029	ND<1.0	6,754
98.94	09/08/2011	8.01	0.00	90.93	10.4	32	50	1,610	1,702	ND<1.0	2,485
99.85	12/01/2011	8.03	0.00	91.82	2.9	13	152	333	500.9	ND<1.0	887.4
77.03	03/26/2012	8.10	0.00	91.75	2.9	8.4	30.4	173	214.7	ND<1.0	278.3
	06/25/2012	8.29	0.00	91.75	1.1	10.8	67.8	262	341.7	ND<1.0	496.2
	09/11/2012	8.30	0.00	91.55	0.80	7.5	97.1	186	291.7	ND<1.0	494.7
	12/13/2012	8.33	0.00	91.52	ND<0.50	6.3	45.7	152	204	ND<1.0	289.8
	03/11/2013	8.06	0.00	91.79	ND<0.50	3.7	15.5	57	76	ND<1.0	121.0
	06/07/2013	7.87	0.00	91.98	0.95	10.0	39.1	103	153	ND<1.0	207.9
	09/16/2013	8.95	0.00	90.90	ND<0.50	6.2	13.9	71.6	91.7	ND<1.0	238
	12/13/2013	8.33	0.00	91.52	ND<0.50	ND<1.0	ND<1.0	8.9	8.9	ND<1.0	17.3
	03/24/2014	8.04	0.00	91.81	ND<0.50	1.5	ND<1.0	13.7	15.2	ND<1.0	15.2
	06/09/2014	8.18	0.00	91.67	ND<0.50	1.6	1.2	14.7	17.5	ND<1.0	17.5
	09/12/2014	8.39	0.00	91.46	ND<0.50	2.0	20.6	15.5	38.1	ND<1.0	48.4
	12/08/2014	8.30	0.00	91.55	0.62	7.4	8.1	54.5	70.6	ND<1.0	75.9
	03/24/2015	9.28	0.00	90.57	ND<0.50	1.4	4.1	25.4	30.9	ND<1.0	38.8
	06/25/2015	8.68	0.00	91.17	0.47	6.1	23.1	31.7	61.4	ND<1.0	79.0
	09/11/2015	8.84	0.00	91.01	ND<0.50	9.3	29.2	42.8	81.3	ND<1.0	132.7
	12/04/2015	9.16	0.00	90.69	ND<0.50	9.2	56.2	59.7	125.1	ND<1.0	228.0
	03/11/2016	8.58	0.00	91.27	ND<1.0	ND<1.0	ND<1.0	20.4	20.4	ND<1.0	24.4
	06/23/2016	8.99	0.00	90.86	5.7	97.5	549	517	1,169	ND<1.0	2,230
	09/28/2016	8.71	0.00	91.14	2.2	36.2	273	154	466	ND<1.0	1,056
	12/01/2016	8.73	0.00	91.12	ND<1.0	1.1	5.7	8.9	15.7	ND<1.0	22.4
	03/23/2017	8.68	0.00	91.17	ND<1.0	2.9	15.0	13.2	31.1	ND<1.0	50.3
	06/23/2017	8.53	0.00	91.32	1.3	5.2	23.8	9.2	39.5	ND<1.0	68.6
	09/22/2017	8.92	0.00	90.93	ND<1.0	6.2	106	8.8	121	ND<1.0	228
	12/08/2017	8.74	0.00	91.11	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	ND
	03/26/2018	8.68	0.00	91.17	ND<1.0	2.7	18.1	11.1	31.9	ND<1.0	44.0
	06/22/2018	8.78	0.00	91.07	ND<1.0	ND<1.0	2.8	5.7	8.5	ND<1.0	15.7
	09/25/2018	8.92	0.00	90.93	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	2.0
	12/13/2018	8.47	0.00	91.38	ND<1.0	1.2	3.8	9.4	14.4	ND<1.0	14.4
	03/21/2019	8.79	0.00	91.06	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND	ND<1.0	2.0
	06/07/2019	8.68	0.00	91.17	ND<1.0	2.6	16.5	30.3	49.4	ND<1.0	62.4
	09/18/2019	8.69	0.00	91.16	ND<1.0	1.3	1.2	1.6	4.1	ND<1.0	93.9
	12/31/2019	8.58	0.00	91.27	ND<1.0	ND<1.0	ND<1.0	1.2	1.2	ND<1.0	2.2
	03/25/2020	8.64	0.00	91.21	ND<1.0	ND<1.0	1.5	1.5	3.0	ND<1.0	4.3
	06/08/2020	8.46	0.00	91.39	ND<1.0	1.0	ND<1.0	1.2	2.2	ND<1.0	2.2

Historical Groundwater Data Summary Former Sunoco Station 181 Delaware Avenue Buffalo, New York

Well ID# and Casing Elevation (ft)	Date	Depth to Water (ft)	LNAPL Thickness (ft)	GW Elevation (ft)	Benzene (ug/L)	Toluene (ug/L)	EthylBenzene (ug/L)	Xylenes (ug/L)	BTEX (ug/L)	MTBE (ug/L)	STARS VOCS (µg/L)
MW12	05/17/2010	8.90	0.00	90.45	ND	2,110	1,370	5,500	8,980	ND	
99.35	09/22/2010	9.10	0.00	90.25	ND	1,460	1,070	4,030	6,560	ND	1
4-inch PVC	12/07/2010	8.81	0.00	90.54	ND	2,080	1,340	5,740	9,160	ND	1
Total Depth: 20'	03/16/2011	8.34	0.00	91.01	3	1,800	1,200	5,480	8,483	ND<3.0	10,367
Depth to Screen:	06/22/2011	8.78	0.00	90.57	2.3	1,640	1,150	4,780	7,572	ND<1.0	9,546
3.83'	09/08/2011	8.81	0.00	90.96	ND<5.0	1,620	1,230	4,270	7,120	ND<10	8,534
99.77	12/01/2011	8.83	0.00	91.83	2.1	997	501	3,630	5,130	ND<1.0	6,702
100.66	03/26/2012	8.95	0.00	91.71	ND<5.0	817	728	2,470	4,015	ND<10	5,239
	06/25/2012	9.08	0.00	91.58	ND<5.0	856	654	3,460	4,970	ND	6,402
	09/11/2012	8.94	0.00	91.72	ND<5.0	935	672	2,760	4,367	ND<10	5,714
	12/13/2012	9.19	0.00	91.47	0.71	814	796	2,420	4,031	ND<1.0	5,602
	03/11/2013	8.76	0.00	91.90	ND<5.0	715	677	2,350	3,742	ND<10	5,176
	06/07/2013	8.73	0.00	91.93	ND<2.5	1,210	1,100	3,760	6,070	ND<5.0	8,051
	09/16/2013	9.12	0.00	91.54	0.77	961	766	2,140	3,868	ND<1.0	5,165
	12/13/2013	9.19	0.00	91.47	ND<2.5	427	43.2	2,300	2,770	ND<5.0	3,451
	03/24/2014	8.91	0.00	91.75	ND<2.5	968	157	2,360	3,485	ND<5.0	4,406
	06/09/2014	9.02	0.00	91.64	ND<2.5	718	310	778	1,806	ND<5.0	2,200
	09/12/2014	9.21	0.00	91.45	ND<1.3	898	650	1,400	2,948	ND<2.5	3,807
	12/08/2014	9.14	0.00	91.52	ND<0.50	487	378	1,110	1,975	ND<1.0	2,666
	03/24/2015	10.16	0.00	90.50	ND<1.0	623	420	949	1,992	ND<2.0	2,425
	06/25/2015	9.54	0.00	91.12	ND<0.50	245	300	435	980	ND<1.0	1,318
	09/11/2015	9.87	0.00	90.79	ND<0.50	411	375	552	1,338	ND<1.0	1,832
	12/04/2015	9.80	0.00	90.86	ND<1.0	542	512	901	1,955	ND<2.0	2,575
	03/11/2016	9.40	0.00	91.26	ND<1.0	664	479	993	2,136	ND<1.0	2,652
	06/23/2016	9.82	0.00	90.84	ND<1.0	1,210	1,700	5,423	8,333	ND<1.0	10,053
	09/28/2016	9.55	0.00	91.11	ND<1.0	1,020	1,860	6,523	9,403	ND<1.0	11,189
	12/01/2016	9.72	0.00	90.94	ND<1.0	225	347	696	1,268	ND<1.0	1,706
	03/23/2017	9.51	0.00	91.15	ND<1.0	374	797	551	1,722	ND<1.0	2,547
	06/23/2017	9.35	0.00	91.31	ND<1.0	221	776	611	1,608	ND<1.0	2,338
	09/22/2017	9.74	0.00	90.92	ND<1.0	401	1,180	2,178	3,759	ND<1.0	4,820
	12/08/2017	9.52	0.00	91.14	ND<1.0	58.3	427	161	646	ND<1.0	1,077
	03/26/2018	9.53	0.00	91.13	ND<1.0	178	488	579	1,245	ND<1.0	1,802
	06/22/2018	9.49	0.00	91.17	ND<1.0	805	1,190	3,180	5,175	ND<1.0	6,384
	09/25/2018	9.78	0.00	90.88	ND<1.0	463	995	2,228	3,686	ND<1.0	4,601
	12/13/2018	9.38	0.00	91.28	2.1	ND<1.0	ND<1.0	ND<2.0	2.1	ND<1.0	2.1
	03/21/2019	9.69	0.00	90.97	ND<1.0	15.2	40.1	49.1	104.4	ND<1.0	136.5
	06/07/2019	9.50	0.00	91.16	ND<1.0	4.7	ND<1.0	3.4	8.1	ND<1.0	8.1
	09/18/2019 12/31/2019	9.54 9.45	0.00	91.12 91.21	ND<1.0 ND<1.0	4.0 ND<1.0	4.3 ND<1.0	3.4 ND<2.0	11.7 ND	ND<1.0 ND<1.0	23.5
	03/25/2020	9.43	0.00	91.21	ND<1.0 ND<1.0	ND<1.0	ND<1.0 ND<1.0	ND<2.0 ND<2.0	ND ND	ND<1.0	ND
	06/08/2020	9.35	0.00	91.12	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND ND	ND<1.0	ND ND

Notes:

ND = Compound not detected.

NG = Not gauged. NS = Not sampled.

NSI = Not sampled, well inaccessible.

NSP = Not sampled due to product.

CNS = Well casing not surveyed

Data from off-site monitoring wells has been removed from the sampling program and these tables but is available on file at METI.

Table 2

Groundwater Elevations And LNAPL Thickness Measurements (feet)

June 8, 2020

Well ID	Casing Elevation	Depth to LNAPL	Depth to Water	LNAPL Thickness	Adj. Depth to Water	Groundwater Elevations
MW1R			Well De	estroyed		
MW2	100.74	ND	9.19	-	9.19	91.55
MW3	99.39	ND	8.00	-	8.00	91.39
MW4	100.21	ND	8.84	-	8.84	91.37
MW5	100.32	ND	9.10	-	9.10	91.22
MW6	100.69	ND	9.55	-	9.55	91.14
MW7	99.96	ND	8.89	-	8.89	91.07
MW10			Well De	estroyed		
MW11	99.85	ND	8.46	-	8.46	91.39
MW12	100.66	ND	9.35	-	9.35	91.31

NG-i = Not Gauged, well inaccessible

NG = Not Gauged

ND = LNAPL not detected

Table 3 Groundwater VOC Data Summary - Four Quarters EPA Method 8260 STARS Former Sunoco Station 181 Delaware Avenue Buffalo, NY

0	NYDEC GW		M\	N2			MV	N3	
Compounds	Quality Standard	9/18/2019	12/31/2019	3/25/2020	6/8/2020	10/10/2019	12/31/2019	3/25/2020	6/8/2020
Benzene	1	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.6	ND<1.0	ND<1.0	ND<1.0
n-Butylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
sec-Butylbenzene	5	1.1	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
tert-Butylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Ethylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2.2	3.4	2.6
Isopropylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
p-Isopropyltoluene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
n-Propylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.3	1.9	ND<1.0
Toluene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,2,4-Trimethylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	5.7	ND<1.0
1,3,5-Trimethylbenzene	5	3.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	3.2	ND<1.0
Total Xylenes	10	1.2	ND<2.0	ND<2.0	ND<2.0	ND<2.0	2.6	33.8	9.4
Total NYSDEC STARS VOCs	-	5.3	ND	ND	ND	1.6	6.1	48.0	12.0
Total BTEX	-	1.2	ND	ND	ND	1.6	4.8	37.2	12.0
MTBE	10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Naphthalene	10	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	2.3	ND<2.0

Table 3 (Continued) Groundwater VOC Data Summary EPA Method 8260 STARS Former Sunoco Station 181 Delaware Avenue Buffalo, NY

0	NYDEC GW		M\	N4			MV	N5	
Compounds	Quality Standard	9/18/2019	12/31/2019	3/25/2020	6/8/2020	9/18/2019	12/31/2019	3/25/2020	6/8/2020
Benzene	1	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
n-Butylbenzene	5	ND<1.0	ND<1.0	ND<1.0	2.1	3.0	9.4	6.9	4.9
sec-Butylbenzene	5	1.5	ND<1.0	1.2	3.1	6.0	11.5	6.4	5.2
tert-Butylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Ethylbenzene	5	22.4	13.7	30.3	73.6	335	540	260	139
Isopropylbenzene	5	6.1	3.4	5.5	23.0	46.8	108	55.9	31
p-Isopropyltoluene	5	ND<1.0	ND<1.0	1.2	1.5	2.3	3.1	3.6	31.6
n-Propylbenzene	5	9.1	4.6	8.9	30.2	78.3	197	114	59.6
Toluene	5	5.2	3.3	27.2	26.5	27.4	16.7	13.7	10.4
1,2,4-Trimethylbenzene	5	103	25.4	134	95.9	68.0	389	258	168
1,3,5-Trimethylbenzene	5	2.0	1.4	16.7	5.1	2.4	6.5	8.5	9.5
Total Xylenes	10	21.9	25.2	193	29.9	28.1	29.7	106.0	155.6
Total NYSDEC STARS VOCs	-	171.2	77.0	418	290.9	597	1,311	833	614.8
Total BTEX	-	49.5	42.2	250	130.0	391	586	380	305
МТВЕ	10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Naphthalene	10	14.6	4.0	12.8	6.2	12.7	17.6	15.2	22.3

Table 3 (Continued) Groundwater VOC Data Summary EPA Method 8260 STARS Former Sunoco Station 181 Delaware Avenue Buffalo, NY

0	NYDEC GW		M\	N6			MV	N7	
Compounds	Quality Standard	9/18/2019	12/31/2019	3/25/2020	6/8/2020	9/18/2019	12/31/2019	3/25/2020	6/8/2020
Benzene	1	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
n-Butylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
sec-Butylbenzene	5	ND<1.0	ND<1.0	ND<1.0	1.2	ND<1.0	ND<1.0	ND<1.0	ND<1.0
tert-Butylbenzene	5	15.8	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Ethylbenzene	5	2.1	18.1	11.3	3.7	ND<1.0	6.5	20.2	38.4
Isopropylbenzene	5	ND<1.0	3.7	4.4	3.4	ND<1.0	ND<1.0	ND<1.0	1.3
p-Isopropyltoluene	5	ND<1.0	1.6	3.4	1.1	ND<1.0	ND<1.0	1.6	5.5
n-Propylbenzene	5	4.5	6.7	6.5	2.3	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Toluene	5	5.4	3.4	3.4	9.4	1.3	8.8	27.0	40.6
1,2,4-Trimethylbenzene	5	109	43.7	126	207	1.7	4.1	11.8	24.7
1,3,5-Trimethylbenzene	5	11.7	6.4	18.9	18.2	ND<1.0	ND<1.0	1.3	9.5
Total Xylenes	10	478	137	210	476.0	3.7	18.0	68.8	190.4
Total NYSDEC STARS VOCs	-	627	221	384	722.3	6.7	37.4	130.7	310.4
Total BTEX	-	486	159	224	489.1	5.0	33.3	117.3	269.4
MTBE	10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Naphthalene	10	46.9	30.7	34.7	41.7	ND<2.0	5.2	7.4	19.3

Table 3 (Continued) Groundwater VOC Data Summary EPA Method 8260 STARS Former Sunoco Station 181 Delaware Avenue Buffalo, NY

	NYDEC GW		MV	V11			MV	/12	
Compounds	Quality Standard	9/18/2019	12/31/2019	3/25/2020	6/8/2020	9/18/2019	12/31/2019	3/25/2020	6/8/2020
Benzene	1	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
n-Butylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
sec-Butylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
tert-Butylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Ethylbenzene	5	1.2	ND<1.0	1.5	ND<1.0	4.3	ND<1.0	ND<1.0	ND<1.0
Isopropylbenzene	5	9.9	ND<1.0	ND<1.0	ND<1.0	1.5	ND<1.0	ND<1.0	ND<1.0
p-Isopropyltoluene	5	1.3	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
n-Propylbenzene	5	14.9	ND<1.0	ND<1.0	ND<1.0	2.4	ND<1.0	ND<1.0	ND<1.0
Toluene	5	1.3	ND<1.0	ND<1.0	1.0	4.0	ND<1.0	ND<1.0	ND<1.0
1,2,4-Trimethylbenzene	5	63.7	1.0	1.3	ND<1.0	1.5	1.0	ND<1.0	ND<1.0
1,3,5-Trimethylbenzene	5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	6.4	ND<1.0	ND<1.0	ND<1.0
Total Xylenes	10	1.6	1.2	1.5	1.2	3.4	ND<2.0	ND<2.0	ND<2.0
Total NYSDEC STARS VOCs	-	93.9	2.2	4.3	2.2	23.5	1.0	ND	ND
Total BTEX	-	ND	1.2	3.0	2.2	11.7	ND	ND	ND
	1								
MTBE	10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Naphthalene	10	15.5	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0

Table 4

Dissolved Oxygen Concentrations in Monitoring Wells (mg/L) Former Sunoco Station

181 Delaware Avenue

					101 B	elaware Ave		ing Wells					
Date	Description	MW1R	MW2	MW3	MW4	MW5	MW6	MW7	MW10	MW11	MW12	PZ1	Average
1/8/2016	25-35 SCFH @6-8 min/hr/bank	3.1	4.7	-	12	2.8	21	17	3.1	18	2.5	-	9.4
2/4/2016	25-35 SCFH @6-8 min/hr/bank	2.0	5.4	6.5	5.8	2.9	12	9.9	4.2	9.7	1.2	-	6.0
3/11/2016	25-35 SCFH @6-8 min/hr/bank	1.1	6.9	24	19	4.7	20	19	5.3	20	4.6	-	12
4/27/2016	IP25-27: 30 SCFH @6 min/hr/bank	2.4	2.6	-	1.3	3.6	20	20	-	1.8	0.7	-	6.6
5/26/2016	IP25-27: 30 SCFH @6 min/hr/bank	1.1	1.3	-	0.6	4.3	22	22	-	1.6	1.2	-	6.8
6/23/2016	IP25-27: 30 SCFH @6 min/hr/bank	2.6	3.2	3.6	1.9	3.6	19	14	5.4	2.3	2.4	-	5.8
7/20/2016	IP25-27: 30 SCFH @6 min/hr/bank	1.8	1.4	2.9	1.4	2.3	16	9.9	1.9	1.5	1.9	-	4.1
8/31/2016	IP25-27: 30 SCFH @6 min/hr/bank	2.5	1.9	2.3	2.0	2.7	14	19	2.5	1.9	3.6	-	5.2
9/28/2016	IP25-27: 30 SCFH @6 min/hr/bank	2.0	2.7	2.6	1.1	3.4	4.0	8.0	2.3	1.9	2.6	-	3.1
11/4/2016	IP16,19,20,22-27: 30 SCFH @8 min/hr/bank		1.6	1.1	1.3	1.9	1.3	2.1	-	-	1.2	-	1.5
11/18/2016	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		1.4	0.5	1.0	1.6	19	11	-	1.3	0.8	-	4.4
12/1/2016	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		3.4	1.7	15	7.8	12	10	3.3	8.7	5.5	-	7.5
1/11/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		3.4	-	15	1.4	7.8	8.3	2.5	5.1	2.3	-	5.7
2/3/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		4.2	2.4	18	3.1	22	20	-	5.0	1.7	-	9.5
3/23/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		5.8	-	16	2.8	23	22	6.5	2.6	3.4	-	10
4/21/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		4.2	-	21	2.4	22	17	-	8.7	1.5	ı	11
5/24/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		3.0	ı	19	2.0	21	20	-	4.4	2.0	ı	10
6/23/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		1.9	1.5	13	1.7	12	17	3.0	2.5	0.6	ı	5.9
7/24/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		1.4	-	6.0	1.7	14	9.4	-	1.8	1.7	-	5.1
8/21/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		3.7	-	1.9	2.0	7.9	4.3	-	2.1	1.6	ı	3.4
9/22/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		6.2	-	11	4.5	16	14	2.2	3.7	4.4	-	7.7
10/20/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		3.8	-	7.8	1.4	8.8	7.0	-	3.2	1.0	-	4.7
11/22/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		4.3	-	18	2.4	22	20	-	7.4	3.2	-	11
12/8/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		7.1	-	-	2.4	20	17	1.7	1.7	1.1	-	7.3
1/22/2018	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		4.6	-	15	2.2	-	21	-	2.0	1.1	-	7.6
2/26/2018	30-50 SCFH @ 8-12 min/hr/bank		7.8	2.2	21	3.1	23	25	-	5.2	1.5	-	11

Dissolved Oxygen Concentrations in Monitoring Wells (mg/L) Former Sunoco Station

181 Delaware Avenue

Doto	Description					elaware Ave		ing Wells					
Date	Description	MW1R	MW2	MW3	MW4	MW5	MW6	MW7	MW10	MW11	MW12	PZ1	Average
3/26/2018	30-50 SCFH @ 8-12 min/hr/bank		8.1	-	21	7.5	23	22	5.4	2.6	3.9	-	12
4/23/2018	30 SCFH @ 8-12 min/hr/bank		14	-	22	2.1	24	24	-	1.9	2.5	-	13
5/18/2018	30 SCFH @ 8-12 min/hr/bank		5.0	1.7	21	3.5	19	19	-	2.3	1.8	-	9.2
6/22/2018	30 SCFH @ 8-12 min/hr/bank		2.8	-	13	4.1	15	15	0.1	2.2	4.4	-	7.0
7/26/2018	30 SCFH @ 8-12 min/hr/bank		1.0	1.4	3.0	1.5	5.9	6.4	-	0.1	1.7	-	2.6
8/27/2018	30 SCFH @ 8-12 min/hr/bank		1.4	1.1	3.8	1.6	4.6	-	-	1.6	0.8	-	2.1
9/25/2018	30-50 SCFH @ 8-12 min/hr/bank		1.8	2.5	6.5	1.1	11	10	2.8	0.1	2.5	-	4.2
10/24/2018	30-40 SCFH @ 8-12 min/hr/bank		1.1	1.5	14	2.0	19	9	-	1.6	0.7	-	6.1
11/19/2018	30-40 SCFH @ 8-12 min/hr/bank		5.8	1.9	14	2.2	16	23	-	1.5	1.3	-	8.2
12/6/2018	30-40 SCFH @ 8-12 min/hr/bank		10	43	16	1.7	17	14	-	2.7	50	-	19
12/13/2018	30-40 SCFH @ 8-12 min/hr/bank		1.7	-	1.7	2.0	9.5	16		0.9	25	-	8.1
1/16/2019	30-40 SCFH @ 8-12 min/hr/bank		1.9	23	19	2.8	15	22		9.3	22	-	14.4
2/27/2019	30 SCFH @ 8-12 min/hr/bank		5.9	-	20	3.3	13	-		3.2	17	-	10.4
3/21/2019	30 SCFH @ 8-12 min/hr/bank		5.6	-	20	1.9	14	28		0.7	22	-	13.2
4/18/2019	30 SCFH @ 8-12 min/hr/bank		6.5	28	15	2.0	21	25		1.8	20	-	14.8
5/17/2019	30 SCFH @ 8-12 min/hr/bank		5.3	27	10	2.5	12	23		1.4	21	-	12.8
6/7/2019	30 SCFH @ 8-12 min/hr/bank		3.4	-	17	3.6	10	18		6.2	19	-	11.0
7/2/2019	30 SCFH @ 8-12 min/hr/bank		5.5	-	3.9	2.0	-	22		2.4	15	-	8.5
8/22/2019	30 SCFH @ 8-12 min/hr/bank		2.9	2.2	6.6	1.3	8.2	17		2.0	13	-	6.7
9/18/2019	System Deactivated		2.1	-	1.6	1.1	2.8	6.0		0.22	15	-	4.0
12/31/2019	System Deactivated		3.1	21	1.3	0.80	1.1	1.7		1.8	9.6	-	5.0
3/25/2020	System Deactivated		1.3	15	0.9	3.5	1.9	2.5		1.4	6.8	-	4.2
6/8/2020	System Deactivated		1.9	1.2	1.6	2.4	1.8	2.0		1.6	6.2	-	2.3

NOTE: Data from 2011-2015 is available and may be furnished upon request.

Table 5

Oxidation Reduction Potential in Monitoring Wells (mV) Former Sunoco Station

						Sunoco Sta		, ,					
Date	Description							ing Wells					
Date	·	MW1R	MW2	MW3	MW4	MW5	MW6	MW7	MW10	MW11	MW12	PZ1	Average
1/8/2016	25-35 SCFH @6-8 min/hr/bank	10	74	-	78	-46	266	243	242	123	-15	-	108
2/4/2016	25-35 SCFH @6-8 min/hr/bank	-158	-87	-30	-4	-28	237	219	306	74	-101	-	43
3/11/2016	25-35 SCFH @6-8 min/hr/bank	-137	-52	58	197	216	303	290	325	168	29	-	140
4/27/2016	IP25-27: 30 SCFH @6 min/hr/bank	41	87	-	149	159	361	356	-	172	20	-	168
5/26/2016	IP25-27: 30 SCFH @6 min/hr/bank	-64	-76	-	-20	160	294	301	-	-13	40	-	78
6/23/2016	IP25-27: 30 SCFH @6 min/hr/bank	-118	-97	18	-127	-28	206	157	46	-117	-76	-	-14
7/20/2016	IP25-27: 30 SCFH @6 min/hr/bank	-132	-131	69	-127	-62	214	154	108	-128	-100	-	-14
8/31/2016	IP25-27: 30 SCFH @6 min/hr/bank	-41	-13	12	-114	48	236	264	155	-105	-122	-	32
9/28/2016	IP25-27: 30 SCFH @6 min/hr/bank	-81	-63	-80	-122	-60	235	231	258	-110	-123	-	9
11/4/2016	IP16,19,20,22-27: 30 SCFH @8 min/hr/bank		-30	-31	-82	-10	145	38	-	-	-33	-	0
11/18/2016	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		-71	-85	-103	-74	264	257	-	-98	-94	-	-1
12/1/2016	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		79	165	152	92	245	242	240	188	49	-	161
1/11/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		78	-	167	96	137	166	148	169	-4	-	120
2/3/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		109	105	138	253	317	315	-	133	7	-	172
3/23/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		233	-	159	251	297	303	322	157	50	-	222
4/21/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		210	-	187	135	301	304	-	192	-24	-	186
5/24/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		159	-	158	84	292	297	-	149	-10	-	161
6/23/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		44	146	165	54	308	305	125	17.1	-105	-	118
7/24/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		88	-	89	27	266	247	-	70	-41	-	107
8/21/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		153	-	122	72	313	307	-	124	38	-	161
9/22/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		13	-	11	-77	84	88	-29	-79	-192	-	-23
10/22/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		-	-	-	-	-	-	-	-	-	-	-
11/22/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		-66	-	20	-18	244	225	-	-13	-180	-	30
12/8/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		20	-	-	-140	257	18	233	-6	-132	-	36
1/22/2018	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		-53	-	26	-85	-	324	-	-121	-197	-	-18
2/26/2018	30-50 SCFH @ 8-12		-22	-111	-26	-27	350	342	-	-45	-114	-	43

min/hr/bank

Oxidation Reduction Potential in Monitoring Wells (mV) Former Sunoco Station

181 Delaware Avenue

Date	Decemention				101 20	laware Aver		ring Wells					
Date	Description	MW1R	MW2	MW3	MW4	MW5	MW6	MW7	MW10	MW11	MW12	PZ1	Average
3/26/2018	30-50 SCFH @ 8-12 min/hr/bank		81	-	77	-18	302	294	294	-17	-96	-	115
4/23/2018	30 SCFH @ 8-12 min/hr/bank		12	-	30	159	229	210	-	-96	-153	-	56
5/18/2018	30 SCFH @ 8-12 min/hr/bank		-14	-136	-14	-107	151	145	-	-104	-124	-	-25
6/22/2018	30 SCFH @ 8-12 min/hr/bank		-58	-	-26	-122	25	18	-99	-76	-110	-	-56
7/26/2018	30 SCFH @ 8-12 min/hr/bank		-145	-160	-109	-159	115	115	-	-139	-182	-	-83
8/27/2018	30 SCFH @ 8-12 min/hr/bank		-112	-142	-116	-102	105	-	-	-125	-188	-	-97
9/25/2018	30 SCFH @ 8-12 min/hr/bank		-105	-108	-89	-89	88	32	-80	-50	-152	-	-61
10/24/2018	30-40 SCFH @ 8-12 min/hr/bank		-121	-129	-50	-104	115	98	-	-115	-196	-	-63
11/19/2018	30-40 SCFH @ 8-12 min/hr/bank		-88	-122	-64	92	123	112	-	-67	-171	-	-23
12/6/2018	30-40 SCFH @ 8-12 min/hr/bank		157	228	105	27	230	163	-	185	256	-	169
12/13/2018	30-40 SCFH @ 8-12 min/hr/bank		30	-	40	11	208	198		42	262	-	113
1/16/2019	30-40 SCFH @ 8-12 min/hr/bank		324	146	366	230	228	213		336	308	-	269
2/27/2019	30 SCFH @ 8-12 min/hr/bank		318	-	326	201	334	-		311	252	-	290
3/21/2019	30 SCFH @ 8-12 min/hr/bank		305	-	332	194	384	366		312	301	-	313
4/18/2019	30 SCFH @ 8-12 min/hr/bank		190	14	328	123	345	325		325	308	-	245
5/17/2019	30 SCFH @ 8-12 min/hr/bank		273	79	313	106	255	275		-120	324	-	188
6/7/2019	30 SCFH @ 8-12 min/hr/bank		170	-	306	190	416	407		217	279	-	284
7/2/2019	30 SCFH @ 8-12 min/hr/bank		221	-	275	105	-	319		217	277	-	236
8/22/2019	30 SCFH @ 8-12 min/hr/bank		187	-19	256	147	300	316		193	275	-	207
9/18/2019	System Deactivated		-42	-	41	-69	280	337		-70	294	-	110
12/31/2019	System Deactivated		87	-31	-57	-226	-3	15		-50	227	-	-5
3/25/2020	System Deactivated		88	-12	-87	-113	-50	-21		-146	87	-	-32
6/8/2020	System Deactivated		84	-41	-64	-105	-18	-15		-126	11	-	-34

NOTE: Data from 2011-2015 is available and may be furnished upon request.

Table 6

Organic Vapor Meter Reading Summary (ppm) Former Sunoco Station

181 Delaware Avenue

			Monitoring Wells									
Date	Description	MW1R	MW2	MW3	MW4	MW5	MW6	MW7	MW10	MW11	MW12	PZ1
1/8/2016	25-35 SCFH @6-8 min/hr/bank	1	184	-	14	58	16.6	17	ND	1.0	2	-
2/4/2016	25-35 SCFH @6-8 min/hr/bank	ND	5.1	2.0	10.5	10	10	41	ND	ND	ND	-
3/11/2016	25-35 SCFH @6-8 min/hr/bank	ND	700+	ND	262	312	87.0	12.5	ND	ND	ND	-
4/27/2016	IP25-27: 30 SCFH @6 min/hr/bank	2	1,000+	-	95	120	65	80	-	2.0	2.0	-
5/26/2016	IP25-27: 30 SCFH @6 min/hr/bank	0.5	500	-	168	350	800	34	-	140	250	-
6/23/2016	IP25-27: 30 SCFH @6 min/hr/bank	1	295	-	19.4	70	6	24	-	1	1	-
7/20/2016	IP25-27: 30 SCFH @6 min/hr/bank	3.0	60	1.0	4.0	8.0	4.0	4.0	ND	ND	8.0	-
8/31/2016	IP25-27: 30 SCFH @6 min/hr/bank	ND	60	ND	-	-	-	ND	-	-	-	-
9/28/2016	IP25-27: 30 SCFH @6 min/hr/bank	ND	27	ND	ND	ND	ND	ND	ND	ND	ND	-
11/18/2016	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		2	ND	ND	297	100	205	-	ND	760	-
12/1/2016	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		2.7	-	-	-	-	-	ND	-	-	-
1/11/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		1,400	-	40	20	5	5	-	ND	5	-
2/3/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		510	ND	55	ND	10	ND	-	2	ND	-
3/23/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		163	-	28	18	9	40	-	ND	ND	-
4/21/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		258	-	10	1.4	3.0	ND	-	ND	ND	-
5/24/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		219	-	18	1.8	7	ND	-	ND	ND	-
6/23/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		-	-	-	-	-	-	-	-	-	-
7/24/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		150	-	3.2	ND	ND	ND	-	ND	ND	-
8/21/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		8	-	ND	ND	ND	ND	-	ND	ND	-
9/22/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		214	-	21	ND	ND	12	ND	ND	ND	-
10/20/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		850	-	400	38	40	600	-	ND	2.7	-
11/22/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		154	-	25	6	5	ND	-	ND	ND	-
12/8/2017	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		-	-	-	-	-	-	-	-	-	-
1/22/2018	IP1,10-13,15,16,19-27: 30 SCFH @8 min/hr/bank		114	-	21	9	-	23	-	ND	ND	-
2/26/2018	30-50 SCFH @ 8-12 min/hr/bank		251	2	4	64	19	ND	-	ND	ND	-

,	Vapor Monit	oring Points	3
VP1	VP2	VP3	VP4
-	-	ND	ND
-	-	ND	ND
-	-	ND	ND
-	-	ND	ND
-	-	ND	ND
1	-	0.6	ı
-	-	ND	ND
-	-	ND	ND
-	-	ND	ND
ND	-	ND	ND
-	-	ND	ND
-	-	ND	-
-	-	ND	ND
-	-	ND	ND
-	-	ND	ND
-	-	ND	ND
-	-	-	-
-	-	ND	ND
-	ND	ND	ND
-	-	ND	ND
	ND	ND	ND
-	-	ND	ND
-	-	-	-
-	-	ND	ND
	-	ND	ND

Organic Vapor Meter Reading Summary (ppm) Former Sunoco Station

181 Delaware Avenue

			Monitoring Wells									
Date	Description	MW1R	MW2	MW3	MW4	MW5	MW6	MW7	MW10	MW11	MW12	PZ1
3/26/2018	30-50 SCFH @ 8-12 min/hr/bank		260	-	50	34	2	39	-	2	60	-
4/23/2018	30 SCFH @ 8-12 min/hr/bank		140	-	100	4	2	3	1	1	7	-
5/18/2018	30 SCFH @ 8-12 min/hr/bank		195	ND	7	4	2	22	-	ND	ND	-
6/22/2018	30 SCFH @ 8-12 min/hr/bank		187	-	9	2	1	14	ND	ND	ND	-
7/26/2018	30 SCFH @ 8-12 min/hr/bank		400	0.4	68	18	ND	0.9	-	ND	ND	-
8/27/2018	30 SCFH @ 8-12 min/hr/bank		292	0.4	17	60	ND	-	-	0.4	1.0	-
9/25/2018	30 SCFH @ 8-12 min/hr/bank		200	ND	13	ND	ND	1.0	ND	ND	2.0	-
10/24/2018	30-40 SCFH @ 8-12 min/hr/bank		150	ND	44	ND	ND	ND	-	ND	ND	-
11/19/2018	30-40 SCFH @ 8-12 min/hr/bank		130	1.4	45	ND	2	ND	1	ND	ND	1
12/6/2018	30-40 SCFH @ 8-12 min/hr/bank		-	-	-	-	-	-	-	-	-	-
12/13/2018	30-40 SCFH @ 8-12 min/hr/bank		250	-	1	13	2	ND		-	200	1
1/16/2019	30-40 SCFH @ 8-12 min/hr/bank		-	-	-	-	-	-		-	-	-
2/27/2019	30 SCFH @ 8-12 min/hr/bank		111	-	29	22	4	-		1	56	-
3/21/2019	30 SCFH @ 8-12 min/hr/bank		-	-	-	-	-	-		-	-	-
4/18/2019	30 SCFH @ 8-12 min/hr/bank		ND	ND	ND	ND	ND	ND		ND	ND	ND
5/17/2019	30 SCFH @ 8-12 min/hr/bank		-	-	ı	-	-	-		-	-	1
6/7/2019	30 SCFH @ 8-12 min/hr/bank		1,000	-	244	6	21	1,500		8	97	-
7/2/2019	30 SCFH @ 8-12 min/hr/bank		820	-	110	35	-	65		ND	40	-
8/22/2019	30 SCFH @ 8-12 min/hr/bank		900	ND	144	ND	ND	2		1	39	-
9/18/2019	System Deactivated		510	-	40	ND	ND	ND		ND	10	-

,	Vapor Monit	oring Points	3
VP1	VP2	VP3	VP4
1	-	-	1
-	-	ND	ND
-	-	ND	ND
-	-	ND	-
-	-	ND	ND
1	ND	ND	ND
-	-	ND	ND
-	-	ND	ND
-	-	ND	ND
-	-	-	-
-	-	1	ND
-	-	-	-
-	-	ND	ND
-	-	-	-
1	-	-	1
-	-	-	-
-	-	7	3
-	-	ND	ND
-	-	ND	ND
-	-	-	-

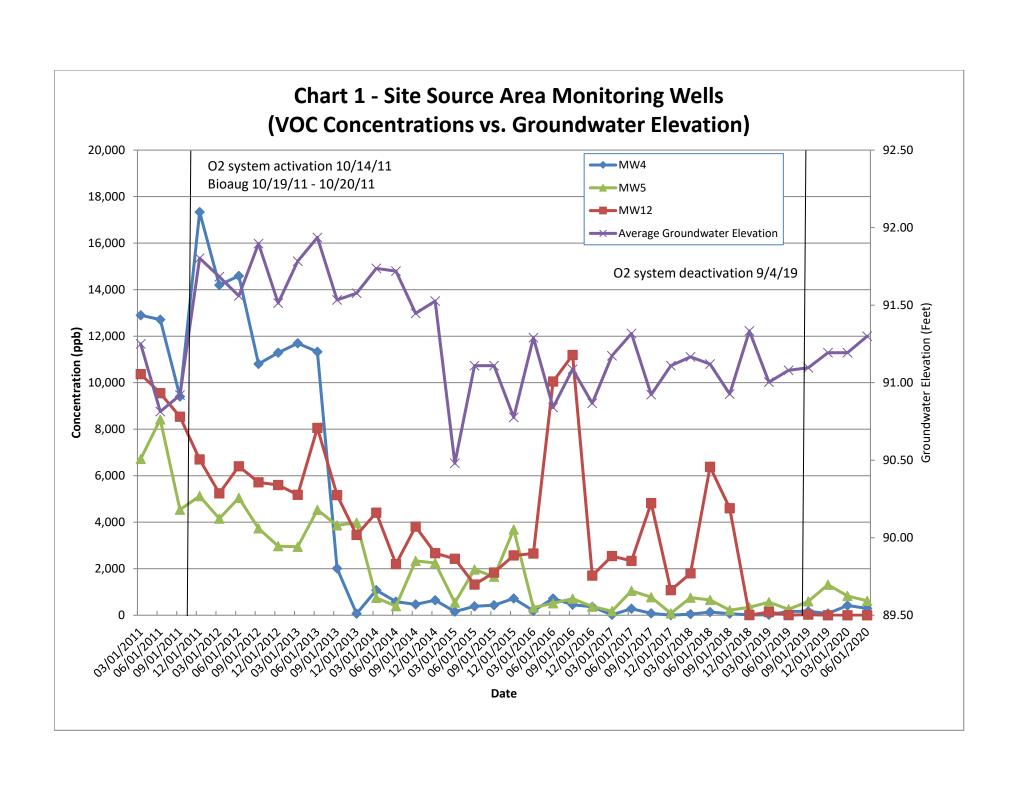
NOTE: Data from 2011-2015 is available and may be furnished upon request.

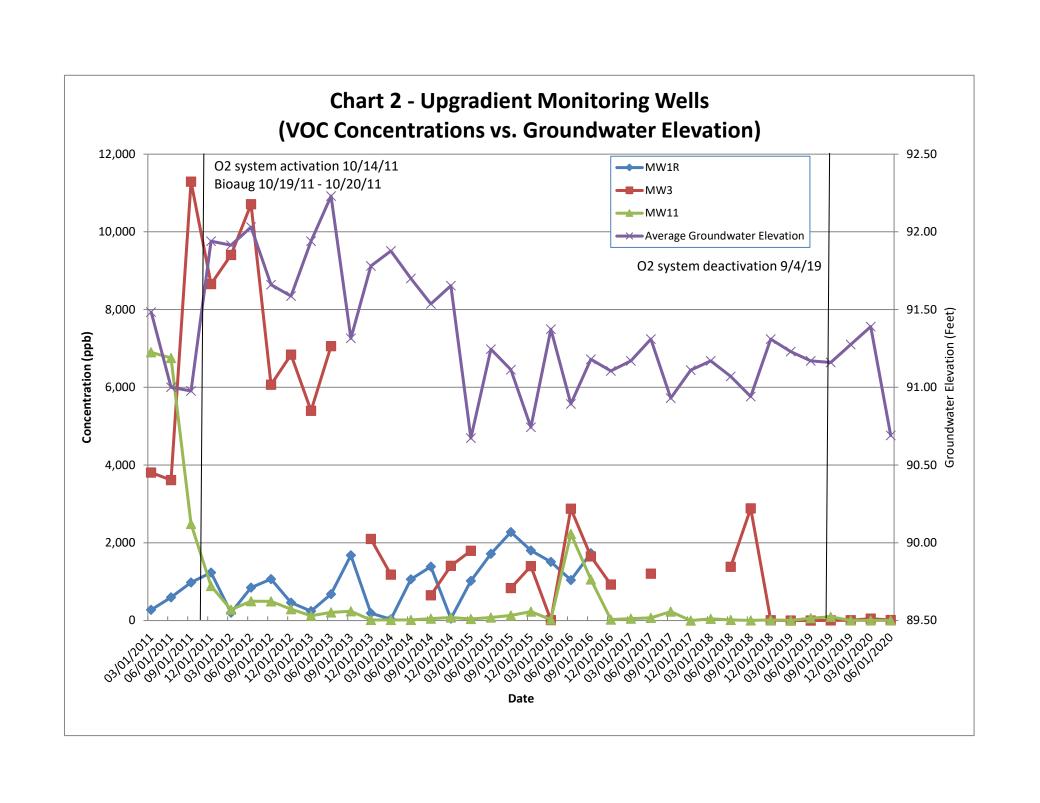
Table 7

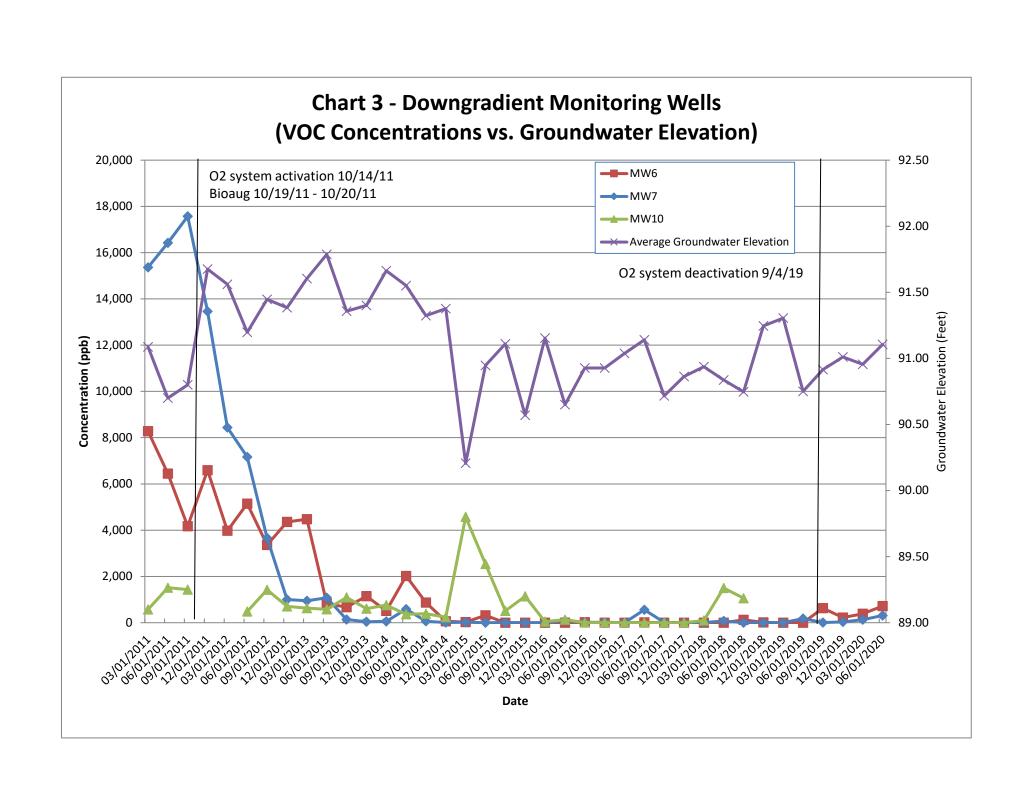
Post-Injection pH Data Summary
Former Sunoco Station
181 Delaware Avenue
Buffalo, New York

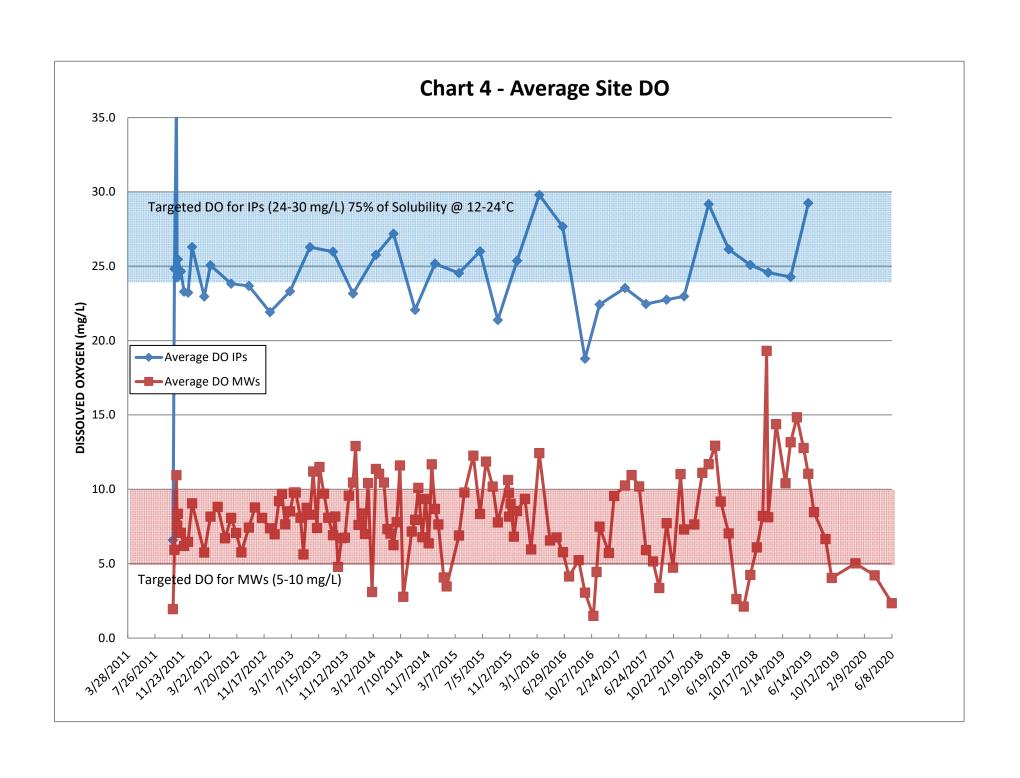
Dete				Monitori	ng Wells			
Date	MW2	MW3	MW4	MW5	MW6	MW7	MW11	MW12
9/25/2018 (baseline)	7.27	7.27	7.04	6.97	7.12	7.04	6.99	7.04
12/6/2018	9.56	12.76	6.63	7.24	7.67	9.06	7.78	12.47
12/13/2018	7.03	-	6.62	7.04	6.88	7.27	6.59	8.86
1/16/2019	6.97	12.91	7.09	6.99	7.08	6.49	6.84	7.07
2/27/2019	7.02	-	6.99	6.91	7.34	-	7.17	7.08
3/21/2019	7.10	-	7.04	6.62	7.07	7.34	6.89	7.23
4/18/2019	9.25	12.71	7.02	6.72	7.48	7.82	7.32	7.04
5/17/2019	6.85	12.27	7.20	7.03	9.14	7.17	6.82	7.08
6/7/2019	7.06	-	7.18	7.12	7.17	7.23	6.86	7.23
7/2/2019	6.78	-	6.89	7.26	ı	7.63	6.78	6.94
8/22/2019	8.56	12.01	6.85	6.67	6.98	7.33	6.80	6.79
9/18/2019	7.11	-	6.92	6.62	6.71	6.88	6.89	6.89
12/31/2019	7.68	11.69	7.26	6.94	7.25	7.14	7.24	7.22
3/25/2020	6.75	7.00	6.92	7.14	7.14	7.10	6.93	7.08
6/8/2020	7.14	9.16	6.15	6.98	7.34	7.56	7.00	6.98

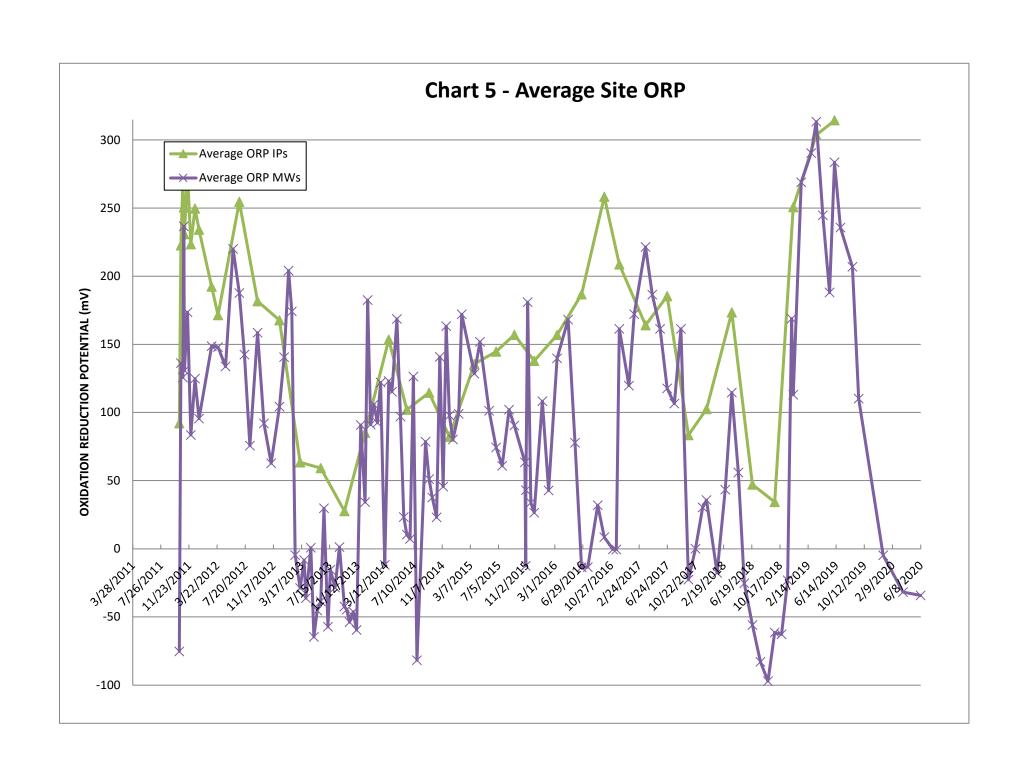
CHARTS

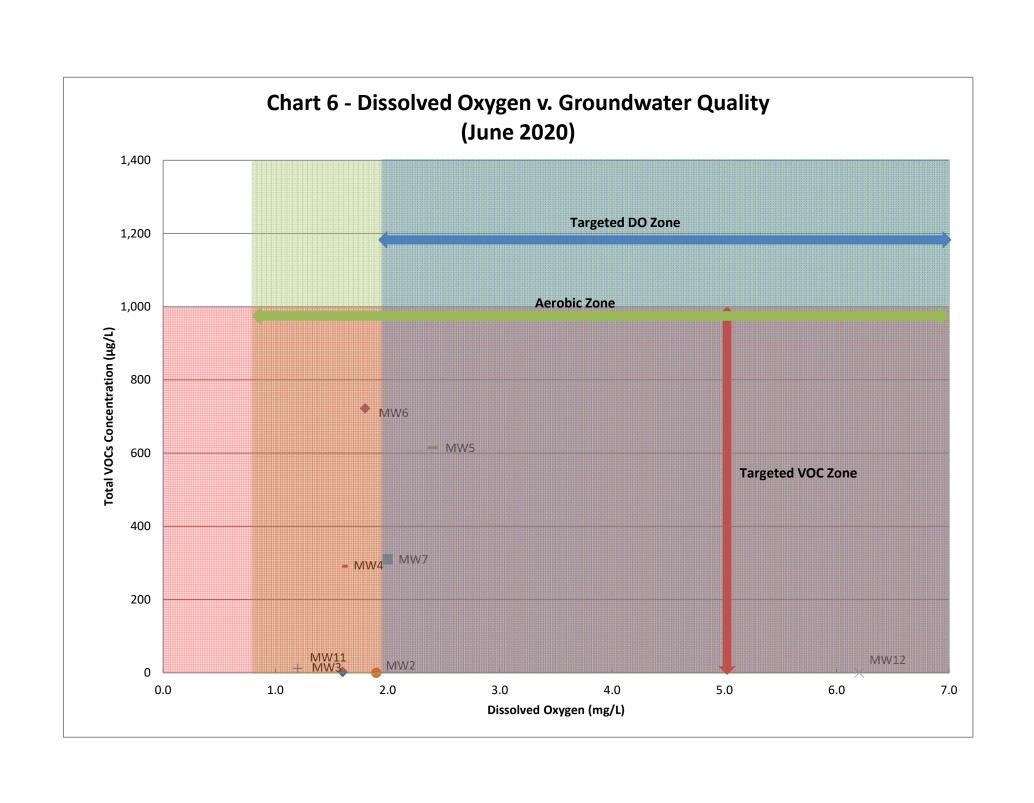




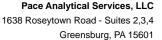








APPENDIX A LABORATORY ANALYTICAL REPORT



(724)850-5600



June 16, 2020

Mr. Patrick Bliek Matrix Environmental 689 Lakeview Knolls Ontario, NY 14519

RE: Project: DUNS 00001289 181 Delaware Ave

Pace Project No.: 30367234

Dear Mr. Bliek:

Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel Christner

rachel.christner@pacelabs.com 724-850-5611

(Anchel D) Christmer

Project Manager

Enclosures

cc: Ms. Christine Curtis, Matrix Environmental

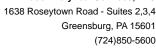
Mr. Steve Marchetti, Matrix Environmental Technologies,

Inc.

Matrix Biotech Results, Matrix Environmental Technologies

Inc.







CERTIFICATIONS

Project: DUNS 00001289 181 Delaware Ave

Pace Project No.: 30367234

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590 Arizona Certification #: AZ0734

Arkansas Certification
California Certification #: 0

California Certification #: 04222CA Colorado Certification #: PA01547 Connecticut Certification #: PH-0694

Delaware Certification EPA Region 4 DW Rad

Florida/TNI Certification #: E87683 Georgia Certification #: C040 Florida: Cert E871149 SEKS WET

Guam Certification Hawaii Certification Idaho Certification Illinois Certification Indiana Certification Iowa Certification #: 391

Kansas/TNI Certification #: E-10358 Kentucky Certification #: KY90133 KY WW Permit #: KY0098221 KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012 Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020 Maryland Certification #: 308

Massachusetts Certification #: M-PA1457 Michigan/PADEP Certification #: 9991 Missouri Certification #: 235 Montana Certification #: Cert0082 Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1 New Hampshire/TNI Certification #: 297617 New Jersey/TNI Certification #: PA051 New Mexico Certification #: PA01457

New York/TNI Certification #: 10888 North Carolina Certification #: 42706 North Dakota Certification #: R-190 Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010 Pennsylvania/TNI Certification #: 65-00282 Puerto Rico Certification #: PA01457 Rhode Island Certification #: 65-00282

South Dakota Certification
Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3 Utah/TNI Certification #: PA014572017-9 USDA Soil Permit #: P330-17-00091 Vermont Dept. of Health: ID# VT-0282 Virgin Island/PADEP Certification Virginia/VELAP Certification #: 9526 Washington Certification #: C868 West Virginia DEP Certification #: 143 West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad Wyoming Certification #: 8TMS-L



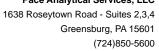
SAMPLE ANALYTE COUNT

Project: DUNS 00001289 181 Delaware Ave

Pace Project No.: 30367234

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30367234001	MW2	EPA 8260C	 LEL	19	PASI-PA
30367234002	MW3	EPA 8260C	LEL	19	PASI-PA
30367234003	MW4	EPA 8260C	LEL	19	PASI-PA
30367234004	MW5	EPA 8260C	LEL	19	PASI-PA
30367234005	MW6	EPA 8260C	LEL	19	PASI-PA
30367234006	MW7	EPA 8260C	LEL	19	PASI-PA
30367234007	MW11	EPA 8260C	LEL	19	PASI-PA
30367234008	MW12	EPA 8260C	LEL	19	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg





PROJECT NARRATIVE

Project: DUNS 00001289 181 Delaware Ave

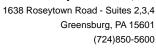
Pace Project No.: 30367234

Date: June 16, 2020

MW12 (Lab ID: 30367234008)

• The pH of the VOA vial used for analysis was 7.

- Post-analysis pH measurement indicates pH > 2.
- Residual Chlorine was present in the VOA vial used for analysis.





PROJECT NARRATIVE

Project: DUNS 00001289 181 Delaware Ave

Pace Project No.: 30367234

Method: EPA 8260C Description: 8260C MSV

Client: Sunoco_Matrix Environmental Technologies, Inc.

Date: June 16, 2020

General Information:

8 samples were analyzed for EPA 8260C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



Project: DUNS 00001289 181 Delaware Ave

Pace Project No.: 30367234

Date: 06/16/2020 03:18 PM

Sample: MW2	Lab ID: 3036	67234001	Collected: 06/08/2	0 09:15	Received: 06	6/10/20 09:15 I	Matrix: Water	
Comments: • Samples in this wo	rkorder were received	in the labor	atory without an ass	ociated tr	ip blank.			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Meth	nod: EPA 82	60C					
	Pace Analytica	l Services -	Greensburg					
Benzene	ND	ug/L	1.0	1		06/15/20 14:12	71-43-2	
n-Butylbenzene	ND	ug/L	1.0	1		06/15/20 14:12	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		06/15/20 14:12	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		06/15/20 14:12	98-06-6	
Ethylbenzene	ND	ug/L	1.0	1		06/15/20 14:12	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/15/20 14:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/15/20 14:12	99-87-6	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/15/20 14:12	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		06/15/20 14:12	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		06/15/20 14:12	103-65-1	
Toluene	ND	ug/L	1.0	1		06/15/20 14:12	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/15/20 14:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/15/20 14:12	108-67-8	
m&p-Xylene	ND	ug/L	2.0	1		06/15/20 14:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/15/20 14:12	95-47-6	
Surrogates		-						
4-Bromofluorobenzene (S)	106	%.	70-130	1		06/15/20 14:12	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	70-130	1		06/15/20 14:12	17060-07-0	
Toluene-d8 (S)	98	%.	70-130	1		06/15/20 14:12	2037-26-5	
Dibromofluoromethane (S)	101	%.	70-130	1		06/15/20 14:12	1868-53-7	



Project: DUNS 00001289 181 Delaware Ave

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Date: 06/16/2020 03:18 PM

Sample: MW3	Lab ID: 303	67234002	Collected: 06/08/2	0 09:53	Received: 06/10/20 09:15	Matrix: Water
Comments: • Samples in this wor	korder were received	in the labo	ratory without an asse	ociated t	rip blank.	
Parameters	Results	Units	Report Limit	DF	Prepared Analyze	d CAS No. Qua
8260C MSV	Analytical Meth	nod: EPA 82	260C			
	Pace Analytica	l Services -	Greensburg			
Benzene	ND	ug/L	1.0	1	06/15/20 1	5:53 71-43-2
n-Butylbenzene	ND	ug/L	1.0	1	06/15/20 1	5:53 104-51-8
sec-Butylbenzene	ND	ug/L	1.0	1	06/15/20 1	5:53 135-98-8
tert-Butylbenzene	ND	ug/L	1.0	1	06/15/20 1	5:53 98-06-6
Ethylbenzene	2.6	ug/L	1.0	1	06/15/20 1	5:53 100-41-4
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1	06/15/20 1	5:53 98-82-8
p-Isopropyltoluene	ND	ug/L	1.0	1	06/15/20 1	5:53 99-87-6
Methyl-tert-butyl ether	ND	ug/L	1.0	1	06/15/20 1	5:53 1634-04-4
Naphthalene	ND	ug/L	2.0	1	06/15/20 1	5:53 91-20-3
n-Propylbenzene	ND	ug/L	1.0	1	06/15/20 1	5:53 103-65-1
Toluene	ND	ug/L	1.0	1	06/15/20 1	5:53 108-88-3
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/15/20 1	5:53 95-63-6
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/15/20 1	5:53 108-67-8
m&p-Xylene	7.9	ug/L	2.0	1	06/15/20 1	5:53 179601-23-1
o-Xylene	1.5	ug/L	1.0	1	06/15/20 1	5:53 95-47-6
Surrogates		_				
4-Bromofluorobenzene (S)	107	%.	70-130	1	06/15/20 1	5:53 460-00-4
1,2-Dichloroethane-d4 (S)	96	%.	70-130	1	06/15/20 1	5:53 17060-07-0
Toluene-d8 (S)	96	%.	70-130	1	06/15/20 1	5:53 2037-26-5
Dibromofluoromethane (S)	98	%.	70-130	1	06/15/20 1	5:53 1868-53-7



Project: DUNS 00001289 181 Delaware Ave

Pace Project No.: 30367234

Date: 06/16/2020 03:18 PM

Sample: MW4	Lab ID: 3036	67234003	Collected: 06/08/2	0 10:05	Received: 06	3/10/20 09:15 N	Matrix: Water	
Comments: • Samples in this wor	korder were received	in the labor	atory without an asse	ociated tr	ip blank.			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260C MSV	Analytical Meth	od: EPA 82	60C					
	Pace Analytica	l Services -	Greensburg					
Benzene	ND	ug/L	1.0	1		06/15/20 16:18	71-43-2	
n-Butylbenzene	2.1	ug/L	1.0	1		06/15/20 16:18	104-51-8	
sec-Butylbenzene	3.1	ug/L	1.0	1		06/15/20 16:18	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		06/15/20 16:18	98-06-6	
Ethylbenzene	73.6	ug/L	1.0	1		06/15/20 16:18	100-41-4	
Isopropylbenzene (Cumene)	23.0	ug/L	1.0	1		06/15/20 16:18	98-82-8	
p-Isopropyltoluene	1.5	ug/L	1.0	1		06/15/20 16:18	99-87-6	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/15/20 16:18	1634-04-4	
Naphthalene	6.2	ug/L	2.0	1		06/15/20 16:18	91-20-3	
n-Propylbenzene	30.2	ug/L	1.0	1		06/15/20 16:18	103-65-1	
Toluene	26.5	ug/L	1.0	1		06/15/20 16:18	108-88-3	
1,2,4-Trimethylbenzene	95.9	ug/L	1.0	1		06/15/20 16:18	95-63-6	
1,3,5-Trimethylbenzene	5.1	ug/L	1.0	1		06/15/20 16:18	108-67-8	
m&p-Xylene	21.2	ug/L	2.0	1		06/15/20 16:18	179601-23-1	
o-Xylene	8.7	ug/L	1.0	1		06/15/20 16:18	95-47-6	
Surrogates		ŭ						
4-Bromofluorobenzene (S)	104	%.	70-130	1		06/15/20 16:18	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	70-130	1		06/15/20 16:18	17060-07-0	
Toluene-d8 (S)	97	%.	70-130	1		06/15/20 16:18	2037-26-5	
Dibromofluoromethane (S)	97	%.	70-130	1		06/15/20 16:18	1868-53-7	



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Date: 06/16/2020 03:18 PM

Sample: MW5	Lab ID: 303	67234004	Collected: 06/08/2	0 10:17	Received: 06/10/20 09:1	5 Matrix: Water
Comments: • Samples in this wor	korder were received	in the labo	ratory without an asso	ociated ti	rip blank.	
Parameters	Results	Units	Report Limit	DF	Prepared Analyze	ed CAS No. Qua
8260C MSV	Analytical Meth	nod: EPA 82	260C			
	Pace Analytica	l Services -	Greensburg			
Benzene	ND	ug/L	1.0	1	06/15/20 1	8:49 71-43-2
n-Butylbenzene	4.9	ug/L	1.0	1	06/15/20 1	8:49 104-51-8
sec-Butylbenzene	5.2	ug/L	1.0	1	06/15/20 1	8:49 135-98-8
tert-Butylbenzene	ND	ug/L	1.0	1	06/15/20 1	8:49 98-06-6
Ethylbenzene	139	ug/L	1.0	1	06/15/20 1	8:49 100-41-4
Isopropylbenzene (Cumene)	31.6	ug/L	1.0	1	06/15/20 1	8:49 98-82-8
p-Isopropyltoluene	1.2	ug/L	1.0	1	06/15/20 1	8:49 99-87-6
Methyl-tert-butyl ether	ND	ug/L	1.0	1	06/15/20 1	8:49 1634-04-4
Naphthalene	22.3	ug/L	2.0	1	06/15/20 1	8:49 91-20-3
n-Propylbenzene	59.6	ug/L	1.0	1	06/15/20 1	8:49 103-65-1
Toluene	10.4	ug/L	1.0	1	06/15/20 1	8:49 108-88-3
1,2,4-Trimethylbenzene	168	ug/L	1.0	1	06/15/20 1	8:49 95-63-6
1,3,5-Trimethylbenzene	9.5	ug/L	1.0	1	06/15/20 1	8:49 108-67-8
m&p-Xylene	149	ug/L	2.0	1	06/15/20 1	8:49 179601-23-1
o-Xylene	6.6	ug/L	1.0	1	06/15/20 1	8:49 95-47-6
Surrogates		_				
4-Bromofluorobenzene (S)	103	%.	70-130	1	06/15/20 1	8:49 460-00-4
1,2-Dichloroethane-d4 (S)	98	%.	70-130	1	06/15/20 1	8:49 17060-07-0
Toluene-d8 (S)	95	%.	70-130	1	06/15/20 1	8:49 2037-26-5
Dibromofluoromethane (S)	99	%.	70-130	1	06/15/20 1	8:49 1868-53-7



Project: DUNS 00001289 181 Delaware Ave

Pace Project No.: 30367234

Date: 06/16/2020 03:18 PM

Sample: MW6	Lab ID: 3036	67234005	Collected: 06/08/2	20 10:29	Received: 06	6/10/20 09:15 N	Matrix: Water	
Comments: • Samples in this wo	rkorder were received	in the labo	ratory without an ass	ociated ti	rip blank.			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260C MSV	Analytical Meth	od: EPA 82	260C					
	Pace Analytica	Services -	Greensburg					
Benzene	ND	ug/L	1.0	1		06/15/20 16:43	71-43-2	
n-Butylbenzene	ND	ug/L	1.0	1		06/15/20 16:43	104-51-8	
sec-Butylbenzene	1.2	ug/L	1.0	1		06/15/20 16:43	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		06/15/20 16:43	98-06-6	
Ethylbenzene	3.7	ug/L	1.0	1		06/15/20 16:43	100-41-4	
Isopropylbenzene (Cumene)	3.4	ug/L	1.0	1		06/15/20 16:43	98-82-8	
p-Isopropyltoluene	1.1	ug/L	1.0	1		06/15/20 16:43	99-87-6	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/15/20 16:43	1634-04-4	
Naphthalene	41.7	ug/L	2.0	1		06/15/20 16:43	91-20-3	
n-Propylbenzene	2.3	ug/L	1.0	1		06/15/20 16:43	103-65-1	
Toluene	9.4	ug/L	1.0	1		06/15/20 16:43	108-88-3	
1,2,4-Trimethylbenzene	207	ug/L	1.0	1		06/15/20 16:43	95-63-6	
1,3,5-Trimethylbenzene	18.2	ug/L	1.0	1		06/15/20 16:43	108-67-8	
m&p-Xylene	369	ug/L	2.0	1		06/15/20 16:43	179601-23-1	
o-Xylene	107	ug/L	1.0	1		06/15/20 16:43	95-47-6	
Surrogates		•						
4-Bromofluorobenzene (S)	106	%.	70-130	1		06/15/20 16:43	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	70-130	1		06/15/20 16:43	17060-07-0	
Toluene-d8 (S)	102	%.	70-130	1		06/15/20 16:43	2037-26-5	
Dibromofluoromethane (S)	99	%.	70-130	1		06/15/20 16:43	1868-53-7	



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Pace Project No.: 30367234

Date: 06/16/2020 03:18 PM

Sample: MW7	Lab ID:	30367234006	Collected: 06/08/2	20 10:40	Received: 0	06/10/20 09:15	Matrix: Water	
Comments: • Samples in	this workorder were rece	ived in the labo	ratory without an ass	ociated to	rip blank.			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical	Method: EPA 82	260C					
	Pace Analy	ytical Services -	Greensburg					
Benzene	NE	D ug/L	1.0	1		06/15/20 17:08	3 71-43-2	
n-Butylbenzene	NE) ug/L	1.0	1		06/15/20 17:08	3 104-51-8	
sec-Butylbenzene	NE) ug/L	1.0	1		06/15/20 17:08	3 135-98-8	
tert-Butylbenzene	NE) ug/L	1.0	1		06/15/20 17:08	3 98-06-6	
Ethylbenzene	38.4		1.0	1		06/15/20 17:08	3 100-41-4	
Isopropylbenzene (Cumene	e) 1.3	ug/L	1.0	1		06/15/20 17:08	3 98-82-8	
p-Isopropyltoluene	5.5	5 ug/L	1.0	1		06/15/20 17:08	3 99-87-6	
Methyl-tert-butyl ether	NE) ug/L	1.0	1		06/15/20 17:08	3 1634-04-4	
Naphthalene	19.3	3 ug/L	2.0	1		06/15/20 17:08	3 91-20-3	
n-Propylbenzene	NE) ug/L	1.0	1		06/15/20 17:08	3 103-65-1	
Toluene	40.6	6 ug/L	1.0	1		06/15/20 17:08	3 108-88-3	
1,2,4-Trimethylbenzene	24.7	7 ug/L	1.0	1		06/15/20 17:08	3 95-63-6	
1,3,5-Trimethylbenzene	9.5	5 ug/L	1.0	1		06/15/20 17:08	3 108-67-8	
m&p-Xylene	155	5 ug/L	2.0	1		06/15/20 17:08	3 179601-23-1	
o-Xylene	35.4	4 ug/L	1.0	1		06/15/20 17:08	3 95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	5 %.	70-130	1		06/15/20 17:08	3 460-00-4	
1,2-Dichloroethane-d4 (S)	93	3 %.	70-130	1		06/15/20 17:08	3 17060-07-0	
Toluene-d8 (S)	99	9 %.	70-130	1		06/15/20 17:08	3 2037-26-5	
Dibromofluoromethane (S)	99	9 %.	70-130	1		06/15/20 17:08	3 1868-53-7	



Project: DUNS 00001289 181 Delaware Ave

Pace Project No.: 30367234

Date: 06/16/2020 03:18 PM

Sample: MW11	Lab ID: 3030	67234007	Collected: 06/08/2	20 09:39	Received: 06/10/20 09:1	5 Matrix: Water
Comments: • Samples in this wor	korder were received	in the labo	ratory without an asse	ociated ti	rip blank.	
Parameters	Results	Units	Report Limit	DF	Prepared Analyze	ed CAS No. Qua
8260C MSV	Analytical Meth	nod: EPA 82	260C			
	Pace Analytica	l Services -	Greensburg			
Benzene	ND	ug/L	1.0	1	06/15/20 1	7:33 71-43-2
n-Butylbenzene	ND	ug/L	1.0	1	06/15/20 1	7:33 104-51-8
sec-Butylbenzene	ND	ug/L	1.0	1	06/15/20 1	7:33 135-98-8
tert-Butylbenzene	ND	ug/L	1.0	1	06/15/20 1	7:33 98-06-6
Ethylbenzene	ND	ug/L	1.0	1	06/15/20 1	7:33 100-41-4
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1	06/15/20 1	7:33 98-82-8
p-Isopropyltoluene	ND	ug/L	1.0	1	06/15/20 1	7:33 99-87-6
Methyl-tert-butyl ether	ND	ug/L	1.0	1	06/15/20 1	7:33 1634-04-4
Naphthalene	ND	ug/L	2.0	1	06/15/20 1	7:33 91-20-3
n-Propylbenzene	ND	ug/L	1.0	1	06/15/20 1	7:33 103-65-1
Toluene	1.0	ug/L	1.0	1	06/15/20 1	7:33 108-88-3
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/15/20 1	7:33 95-63-6
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/15/20 1	7:33 108-67-8
m&p-Xylene	ND	ug/L	2.0	1	06/15/20 1	7:33 179601-23-1
o-Xylene	1.2	ug/L	1.0	1	06/15/20 1	7:33 95-47-6
Surrogates						
4-Bromofluorobenzene (S)	111	%.	70-130	1	06/15/20 1	7:33 460-00-4
1,2-Dichloroethane-d4 (S)	93	%.	70-130	1	06/15/20 1	7:33 17060-07-0
Toluene-d8 (S)	98	%.	70-130	1	06/15/20 1	7:33 2037-26-5
Dibromofluoromethane (S)	101	%.	70-130	1	06/15/20 1	7:33 1868-53-7



ANALYTICAL RESULTS

Project: DUNS 00001289 181 Delaware Ave

Pace Project No.: 30367234

Date: 06/16/2020 03:18 PM

Sample: MW12 Lab ID: 30367234008 Collected: 06/08/20 10:09 Received: 06/10/20 09:15 Matrix: Water

Comments: • Samples in this workorder were received in the laboratory without an associated trip blank.

The pH of the VOA vial used for analysis was 7.
Post-analysis pH measurement indicates pH > 2.

• Residual Chlorine was present in the VOA vial used for analysis.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Meth	nod: EPA 826	0C					
	Pace Analytica	l Services - G	Greensburg					
Benzene	ND	ug/L	1.0	1		06/15/20 15:02	71-43-2	
n-Butylbenzene	ND	ug/L	1.0	1		06/15/20 15:02	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		06/15/20 15:02	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		06/15/20 15:02	98-06-6	
Ethylbenzene	ND	ug/L	1.0	1		06/15/20 15:02	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/15/20 15:02	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/15/20 15:02	99-87-6	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/15/20 15:02	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		06/15/20 15:02	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		06/15/20 15:02	103-65-1	
Toluene	ND	ug/L	1.0	1		06/15/20 15:02	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/15/20 15:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/15/20 15:02	108-67-8	
m&p-Xylene	ND	ug/L	2.0	1		06/15/20 15:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/15/20 15:02	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	108	%.	70-130	1		06/15/20 15:02	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	70-130	1		06/15/20 15:02	17060-07-0	
Toluene-d8 (S)	101	%.	70-130	1		06/15/20 15:02	2037-26-5	
Dibromofluoromethane (S)	99	%.	70-130	1		06/15/20 15:02	1868-53-7	



QUALITY CONTROL DATA

Project: DUNS 00001289 181 Delaware Ave

Pace Project No.: 30367234

Date: 06/16/2020 03:18 PM

QC Batch: 400895 Analysis Method: EPA 8260C
QC Batch Method: EPA 8260C Analysis Description: 8260C MSV

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30367234001, 30367234002, 30367234003, 30367234004, 30367234005, 30367234006, 30367234007,

30367234008

METHOD BLANK: 1941066 Matrix: Water

Associated Lab Samples: 30367234001, 30367234002, 30367234003, 30367234004, 30367234005, 30367234006, 30367234007,

30367234008

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/15/20 12:31	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/15/20 12:31	
Benzene	ug/L	ND	1.0	06/15/20 12:31	
Ethylbenzene	ug/L	ND	1.0	06/15/20 12:31	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/15/20 12:31	
m&p-Xylene	ug/L	ND	2.0	06/15/20 12:31	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/15/20 12:31	
n-Butylbenzene	ug/L	ND	1.0	06/15/20 12:31	
n-Propylbenzene	ug/L	ND	1.0	06/15/20 12:31	
Naphthalene	ug/L	ND	2.0	06/15/20 12:31	
o-Xylene	ug/L	ND	1.0	06/15/20 12:31	
p-Isopropyltoluene	ug/L	ND	1.0	06/15/20 12:31	
sec-Butylbenzene	ug/L	ND	1.0	06/15/20 12:31	
tert-Butylbenzene	ug/L	ND	1.0	06/15/20 12:31	
Toluene	ug/L	ND	1.0	06/15/20 12:31	
1,2-Dichloroethane-d4 (S)	%.	98	70-130	06/15/20 12:31	
4-Bromofluorobenzene (S)	%.	106	70-130	06/15/20 12:31	
Dibromofluoromethane (S)	%.	103	70-130	06/15/20 12:31	
Toluene-d8 (S)	%.	84	70-130	06/15/20 12:31	

LABORATORY CONTROL SAMPLE:	1941067					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L		21.1	106	70-130	
1,3,5-Trimethylbenzene	ug/L	20	20.5	103	70-130	
Benzene	ug/L	20	21.6	108	70-130	
Ethylbenzene	ug/L	20	21.6	108	70-130	
Isopropylbenzene (Cumene)	ug/L	20	23.5	118	70-130	
m&p-Xylene	ug/L	40	41.7	104	70-130	
Methyl-tert-butyl ether	ug/L	20	18.3	91	70-130	
n-Butylbenzene	ug/L	20	20.1	100	70-130	
n-Propylbenzene	ug/L	20	21.0	105	70-130	
Naphthalene	ug/L	20	21.4	107	55-160	
o-Xylene	ug/L	20	21.0	105	70-130	
p-Isopropyltoluene	ug/L	20	20.9	105	70-130	
sec-Butylbenzene	ug/L	20	21.6	108	70-130	
tert-Butylbenzene	ug/L	20	21.1	106	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: DUNS 00001289 181 Delaware Ave

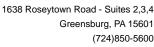
Pace Project No.: 30367234

Date: 06/16/2020 03:18 PM

LABORATORY CONTROL SAMPLE:	1941067					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L		21.2	106	70-130	
1,2-Dichloroethane-d4 (S)	%.			94	70-130	
4-Bromofluorobenzene (S)	%.			102	70-130	
Dibromofluoromethane (S)	%.			100	70-130	
Toluene-d8 (S)	%.			101	70-130	

MATRIX SPIKE & MATRIX SPIK	E DUPLICAT	E: 19410	68		1941069						
			MS	MSD							
	303	367234001	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qua
1,2,4-Trimethylbenzene	ug/L	ND	20	20	17.3	18.6	86	93	52-151		
,3,5-Trimethylbenzene	ug/L	ND	20	20	16.8	17.8	84	89	53-142	6	
Benzene	ug/L	ND	20	20	17.6	17.5	88	87	50-149	1	
thylbenzene	ug/L	ND	20	20	17.2	18.1	86	90	63-135	5	
sopropylbenzene (Cumene)	ug/L	ND	20	20	19.7	20.9	98	104	50-167	6	
n&p-Xylene	ug/L	ND	40	40	33.9	35.3	85	88	63-135	4	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.3	13.0	77	65	53-123	16	
-Butylbenzene	ug/L	ND	20	20	15.4	15.8	77	79	51-125	3	
n-Propylbenzene	ug/L	ND	20	20	17.1	17.9	86	89	56-135	4	
laphthalene	ug/L	ND	20	20	16.1	16.1	81	81	30-157	0	
-Xylene	ug/L	ND	20	20	16.9	17.6	85	88	57-133	4	
-Isopropyltoluene	ug/L	ND	20	20	16.7	17.3	83	87	56-128	4	
ec-Butylbenzene	ug/L	ND	20	20	17.7	19.3	87	95	56-130	9	
ert-Butylbenzene	ug/L	ND	20	20	17.7	18.2	88	91	60-129	3	
oluene	ug/L	ND	20	20	17.6	17.5	88	87	59-139	1	
,2-Dichloroethane-d4 (S)	%.						95	86	70-130		
-Bromofluorobenzene (S)	%.						106	110	70-130		
ibromofluoromethane (S)	%.						100	94	70-130		
oluene-d8 (S)	%.						102	96	70-130		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





QUALIFIERS

Project: DUNS 00001289 181 Delaware Ave

Pace Project No.: 30367234

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

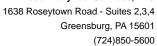
U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 06/16/2020 03:18 PM





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DUNS 00001289 181 Delaware Ave

Pace Project No.: 30367234

Date: 06/16/2020 03:18 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
30367234001	MW2	EPA 8260C	400895		
30367234002	MW3	EPA 8260C	400895		
30367234003	MW4	EPA 8260C	400895		
30367234004	MW5	EPA 8260C	400895		
30367234005	MW6	EPA 8260C	400895		
30367234006	MW7	EPA 8260C	400895		
30367234007	MW11	EPA 8260C	400895		
30367234008	MW12	EPA 8260C	400895		

										Chain of Custody Page	Page of
Matrix BioTech - Sunoco	8	Accounts Payak	ormation: ts Payable		Pres	Ar	Analysis / Container / Preservative	Allese Vallyc		6	
PO Box 427 Orchard Park, NY 14127		PO Box Orcharc	FO Box 427 Orchard Park, NY 141	72.			30367234			Pace Analytical National Conter for Tasting & Innovation	ICAL
Report to: Christine Curtis		Email To: smarchet	Email To: ccurtis@matrixbiotech.com; smarchetti@matrixbiotech.com;	otech.com; .com;						12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858	
Project Description: Evergreen 181 Delaware	are		Collected:	kn		30367234			-	136	
Phone: 908-399-3651 Fax:	Client Project # 166	181 dela.	181 definition Project#	XBIO-0000128	HCI					L# Table#	
Collected by pringing has been	Site/Facility ID # 00001289		P.O. # (U).	2h0	dmAl					Acctnum: SUNMATRIXBIO	SIXBIO
Collected by (signature):	Rush? (Lab ML	Rush? (Lab MUST Be Notified)	Quote #	\	nO4 8					Template: 146942. Prelogin: P696441	
Immediately	Next Day Two Day Three Day	5 Day (Rad Only)		Date Results Needed	\$ 4 \$ ATE(TSR: 134 - Mark W. Beasley PB: 7 - 1796	asley
nple II	1	Matrix * Depth	Date	Time	eo.					Shipped Via: FedEX Ground Remarks Sample # (lab only	EX Ground Sample # (lab only)
MW2	P Bar	@M	6/4/20	\$1.6	3 X						B
MW3	<u> </u>	M9	Ctry	0 9:53	× e						r
MW4	8	M9	4/2	\$0.0) e	3 X					9	~ ຮ
MW5		GW.	6/4/20	<u> </u>	3 X					(3)	502
MW6		M9	6/8/20	10:29	x ε						80
MW7		ew	0/2/50	100.40	3 X						7
MW11	`	GW.	02/B/Y	65:6	3 X						282
MW12	>	ew	6/9/20	10:09	x e						600
	0	GW	*WANA	Ţ	3 X						
			3								
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:						pH Flow	Temp	COC Seal COC Sign(Bottles, Correct	Sample Receipt Checklist COC Seal Present/Intact: NP COC Signed/Accurate: Bottles arrive intact: Correct bottles used:	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Samples returned via: UPS FedEx	a: Courier		Tracking #					Sullicie VOA Zero	Sulliciant volume sent. <u>If Applicable</u> VOA Zero Headspace:	'i 'i'
Relinquished by : (Signature),	Date	0202/6/2	Time:	Received by: (Signature)	three)	81.321.	Trip Blank Received	ed: Yes / No HCL / MeoH TBR		Preservation Correct/Checked:	N X
O Relinquished by : (Signature)	Date:	à	Time:	Received by: (Signature)	ttre)		Temp: °C	Bottles Received:	If preserva	If preservation required by Login: Date/Time	te/Time
Relinquished by : (Signature)	Date:	<i>ii</i>	Time:	Received for lab by: (Signature)	r. (Signature)		Date:	Time:	Hold:	ON	Condition: NCF / OK
) .		

Pittsburgh Lab Sample Condi	tion l	Jpon	Re	ceipt	
Pace Analytical Client Name:	Si	NOC	0 /	<i>Matrix</i> Project # − 3 0 3 6 7 2	5 4
Courier: Fed Ex UPS USPS Clien Tracking #: 3936 9079 7311		ommei -		10// /	
Custody Seal on Cooler/Box Present: yes	∠ n	0	Seals	intact: yes no	÷
Thermometer Used				Blue None	
Cooler Temperature Observed Temp	,4	°C	Corre	ection Factor: 0.5 °C Final Temp: 5.9 °C	
Temp should be above freezing to 6°C				pH paper Lot# Date and initials of person examining	
Comments:	Yes	No	N/A	N/A contents: 1946-10-70	
Chain of Custody Present:			<u> </u>	1.	
Chain of Custody Filled Out:				2.	
Chain of Custody Relinquished:				3.	
Sampler Name & Signature on COC:				4.	
Sample Labels match COC:]	5,	
-Includes date/time/ID Matrix:	W		-		
Samples Arrived within Hold Time:				6.	
Short Hold Time Analysis (<72hr remaining):				7.	
Rush Turn Around Time Requested:				8.	
Sufficient Volume:				9.	
Correct Containers Used:				10.	
-Pace Containers Used:					
Containers Intact:				11.	
Orthophosphate field filtered				12.	
Hex Cr Aqueous sample field filtered			-	13.	
Organic Samples checked for dechlorination:				14.	
Filtered volume received for Dissolved tests				15.	
All containers have been checked for preservation.				16.	
exceptions: VOA) coliform, TOC, O&G, Phenolics, Non-aqueous matrix	Radon	· _/			
All containers meet method preservation		1		Initial when Date/time of preservation	
requirements.	L	<u> </u>	i	Lot # of added	
	1	1		preservative	
Headspace in VOA Vials (>6mm):			ļ	17. HEODESPURE IN C. VAR MWY, 2 VARS MWS	
Trip Blank Present:		- geliniania	***************************************	1	00.000 A COLOR TO TO THE STREET OF THE STREE
Trip Blank Custody Seals Present				Initial when 1/11/	,
Rad Samples Screened < 0.5 mrem/hr				completed: Date:	
Client Notification/ Resolution:					
Person-Contacted:			-Date/	Time: Contacted-By:	
Comments/ Resolution:					
					•

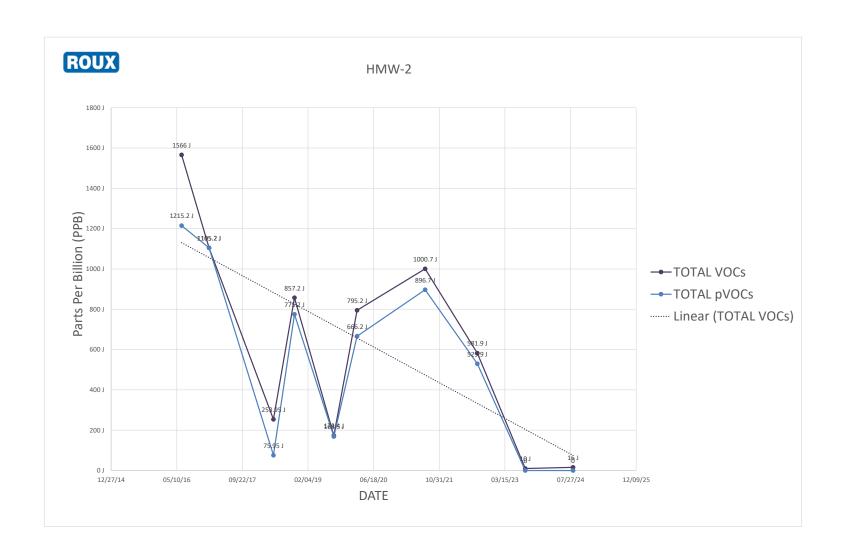
 \square A check in this box indicates that additional information has been stored in ereports.

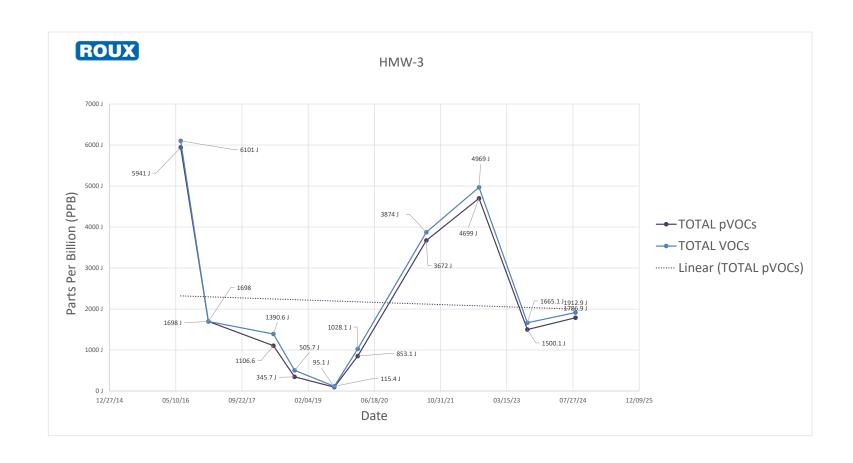
Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

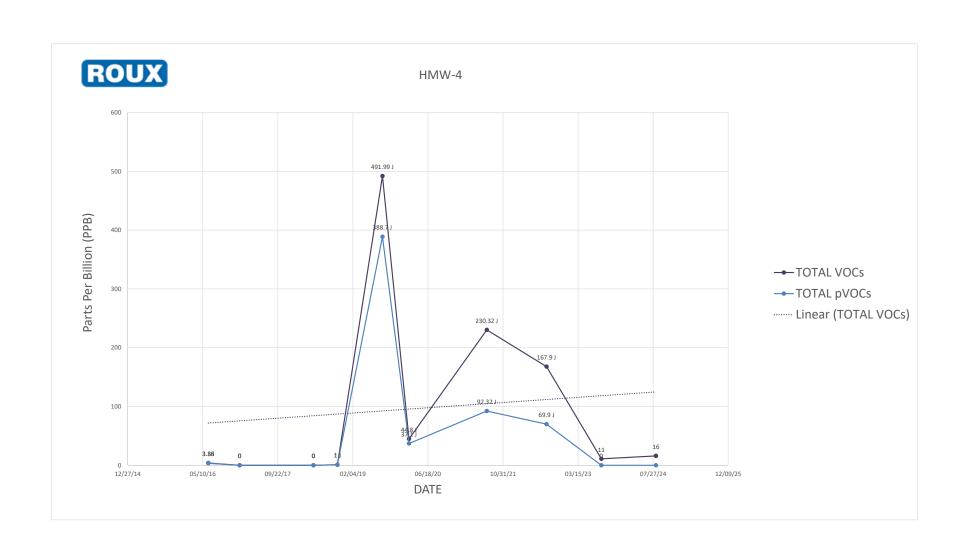
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

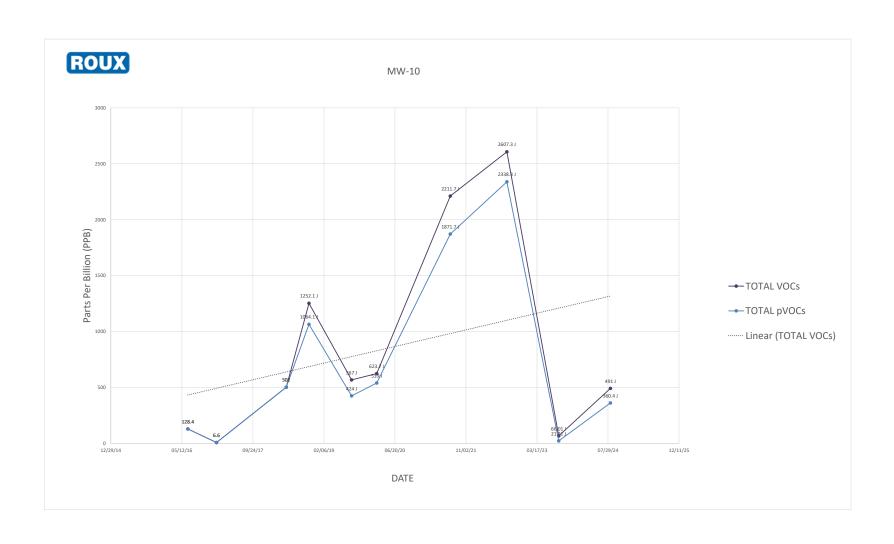
APPENDIX F

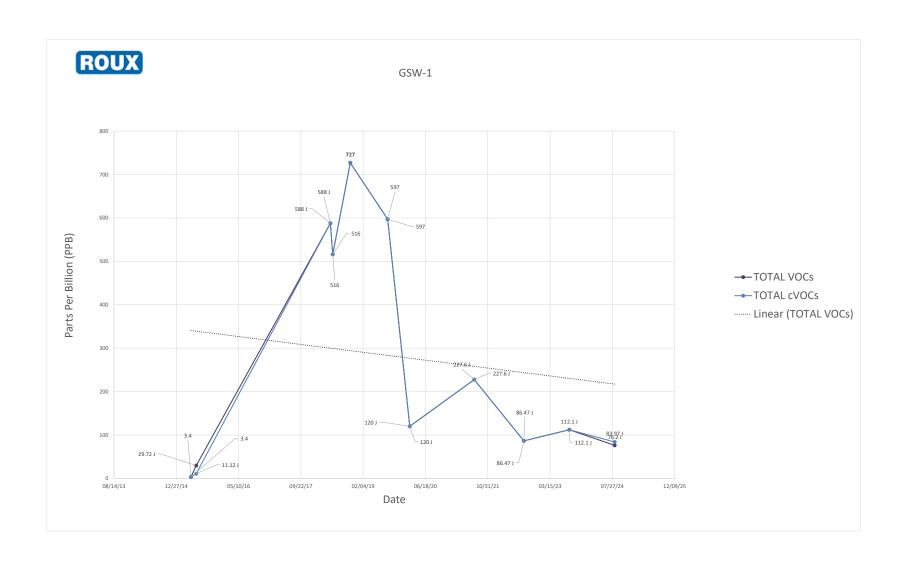
HISTORICAL TREND ANALYSIS











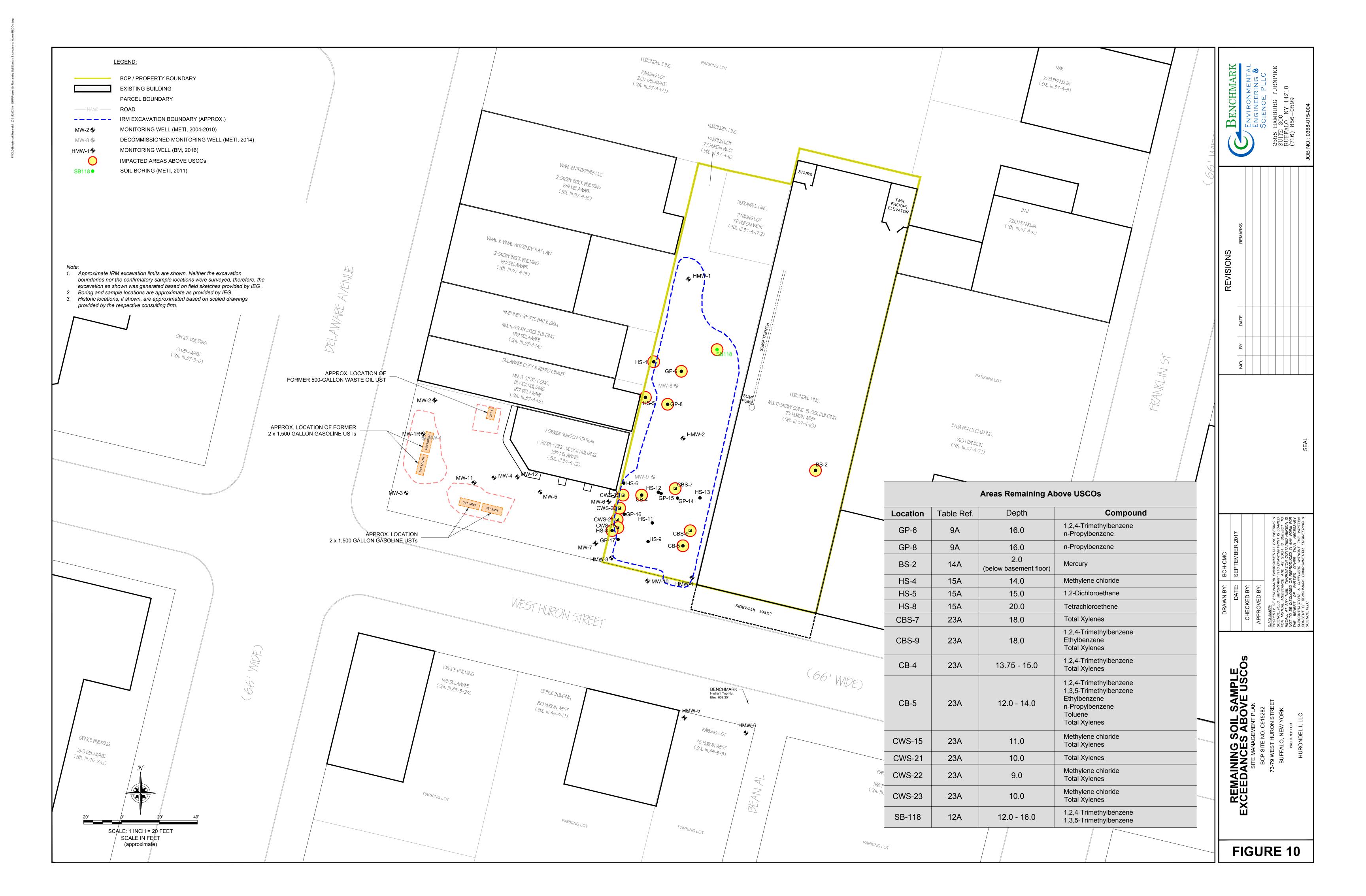
APPENDIX G

NYSDEC APPROVALS

F-\CAD\Benchmark\Hurondel1 (C915282)\10 - SMP-Figure

F:\CAD\Benchmark\Hurondel I (C915282)\10 - SMP\Figure 8; SI Samp

F:\CAD\Benchmark\Hurondel I (C915282)\10 - SMP\Figure 9; Co



DBenchmark\Hurondel I (C915282)\10 - SMP\Figure 11; Remaining Ground

F:\CAD\Benchmark\Hurondel I (C915282)\10 - SMP\Figure 12; Institutional Cont

APPENDIX H

FIGURES 7 THROUGH 12 FROM SMP



December 5, 2022

Ms. Megan Kuczka
Environmental Program Specialist 1
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2915

Re: 73-79 West Huron Street Site, Buffalo NY

BCP Site No. C915282

Site Management Plan Errata Sheet

Dear Ms. Kuczka:

On behalf of Emerson Huron, LLC, Benchmark Civil/Environmental Engineering & Geology, PLLC (Benchmark) has prepared this Errata Sheet to document changes to the November 2017 (revised May 2021, August 2021, September 2021) Site Management Plan (SMP) prepared by Benchmark. Per your July 5, 2022, Periodic Review Report (PRR) response letter and subsequent email correspondence, we are herein submitting an errata sheet per DER-10 Section 6.3(a)5.iii to formalize the SMP changes. This errata documents changes to the reported magnehelic gauge readings incorrectly stated in previous versions of the SMP. The SMP title page which includes the document revision log is provided as Attachment 1.

The changes described herein supersede those in the latest revision of the SMP (revised September 2021). Once approved by the Department, this Errata Sheet will be appended to the client's and document repository's copy of the November 2017 SMP and noted on the SMP cover page as Revision No. 4.

Benchmark herein updates the following components of the NYSDEC-approved November 2017 SMP for the 73-79 West Huron Street Site:

Section 5.3 ASD System Performance Monitoring: The third sentence has been revised to state: "Over the past two years, magnehelic gauge MAG-1 readings have ranged between 0.75 and 1 inches of water column (wci) and magnehelic gauge MAG-2 readings have ranged between 1.25 and 1.5 wci." A red-lined version of this modification is provided in Attachment 2.

Strong Advocates, Effective Solutions, Integrated Implementation

www.benchmarkturnkey.com

Please contact us if you have any questions or require additional information.

Sincerely,

Benchmark Civil/Environmental Engineering & Geology, PLLC

Thomas H. Forbes, P.E.

President

Att.

ec: James Mahoney (McGuire Development Company, LLC)

File: B0441-020-001



CERTIFICATION

I, <u>Thomas H. Forbes</u>, <u>P.E.</u> of Benchmark Civil/Environmental Engineering & Geology, PLLC certify that I am currently a NYS registered professional engineer and that the November 2017 Site Management Plan (SMP) and August 2022 SMP Errata Sheet for the 73-79 West Huron Street Site (BCP Site No. C915282) were prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

DATE: 12-5-22

SEAL:





ATTACHMENT 1

SMP REVISION LOG



BROWNFIELD CLEANUP PROGRAM

SITE MANAGEMENT PLAN

73-79 WEST HURON STREET SITE NYSDEC SITE NUMBER: C915282 BUFFALO, NEW YORK

November 2017 Revised May 2021 Revised August 2021 Revised September 2021 Revised August 2022 0441-020-001

Prepared for:

Emerson Huron, LLC

73-79 West Huron Street Buffalo, New York

Prepared By:



Benchmark Civil / Environmental Engineering & Geology, PLLC 2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218 (716) 856-0599

Revisions to Final Approved Site Management Plan:

Revision #	Submitted Date	Summary of Revision	DEC Approval Date
1	May 2021	ASD System Operation, Monitoring, and Maintenance	
2	August 2021	Revisions in response to NYSDEC comments	
3	September 2021	Revisions in response to NYSDEC comments	
4	August 2022	Revisions in response to NYSDEC comments	

ATTACHMENT 2

MODIFIED SECTION 5.3 TEXT



5.2.2.1 System Operation: Routine Operation Procedures

Appendix J includes the manufacturer's recommendations for routine operation of system components.

5.2.2.2 System Operation: Routine Equipment Maintenance

Appendix J includes the manufacturer's recommended routine equipment maintenance of system components.

5.2.2.3 System Operation: Non-Routine Equipment Maintenance

Appendix J describes non-routine equipment maintenance that may be required. System or component replacement due to damage or reduced effectiveness will be discovered during routine inspections.

5.3 ASD System Performance Monitoring

Performance monitoring of the ASD system will be conducted on a routine basis. School maintenance staff will be responsible for visually inspecting and collecting monthly manometer readings from each magnehelic gauge to confirm adequate depressurization is occurring beneath the building slab. Over the past two years, magnehelic gauge MAG-1 readings have ranged between 0.75 and 11.25 and 1.5 inches of water column (wci) and magnehelic gauge MAG-2 readings have ranged between 1.25 and 1.5 0.75 and 1 wci. During the monthly inspection, any changes in the use of the space, modifications to the system, building renovations, any non-running time, and/or corrective actions will be documented, and later, the documentation will be submitted by Benchmark with the PRR. If at any point during monthly inspections, a component of an ASD system is malfunctioning, the school maintenance staff will contact Benchmark. The Department will be notified, and a replacement part will be ordered and installed by a professional mechanical/plumbing contractor and visually inspected by Benchmark.

An annual system certification/inspection, documenting that the system is performing properly and remain effective, will be performed by a Qualified Environmental Professional (QEP), as defined in 6 NYCRR Part 375-1.2(ak), and/or a NYS licensed Professional Engineer (PE), as required by DER-10 (May 2010). Modification to the frequency or sampling requirements will require approval from the NYSDEC. A visual inspection of the system will be conducted during each annual certification/inspection event. Unscheduled inspections



Division of Environmental Remediation

700 Delaware Avenue, Buffalo, NY 14209 P: (716) 851-7220| F: (716) 851-7226 www.dec.ny.gov

August 11, 2022

James Mahoney Property Manager McGuire Development Company, LLC 455 Cayuga Road Buffalo, NY 14225

Re: Site Management (SM) -

Periodic Review Report (PRR) Response Letter

73-79 W. Huron St., Buffalo Erie County, Site No.: **C915282**

Dear James Mahoney (as the Certifying Party):

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for the following period: April 28, 2021 to April 28, 2022. The Department hereby accepts the PRR and IC/EC Certification.

The frequency of Periodic Reviews for this site is once a year, and your next PRR will be due on May 28, 2023. You will receive a reminder letter and updated certification form 75-days prior to the report's due date. Regardless of receipt or not of the reminder notice, the next PRR, including the signed certification form, is still due on the date specified above.

The Department has reviewed your requests to:

- 1. Cease groundwater sampling at HWM-1, HWM-5 and HMW-6;
- 2. Stop sampling for alkalinity; and
- 3. Collect groundwater samples via passive diffusion bags.

At this time, the Department denies your request to cease sampling at HWM-1, HWM-5, and HMW-6 as total VOC concentrations increased at every monitoring location (besides HWM-1). Additionally, MW-10 and HMW-3 spiked in VOCs, which are directly upgradient from HWM-5 and HMW-6. The Department concurs that sampling for alkalinity can cease and samples can be collected via passive diffusion bag.

In future PRR's, please complete the following revisions:

Please copy the Department (megan.kuczka@dec.ny.gov) on EQuIS submittals



Division of Environmental Remediation

700 Delaware Avenue, Buffalo, NY 14209 P: (716) 851-7220| F: (716) 851-7226 www.dec.ny.gov

- Section 2.0 Please detail the history of the adjacent Sunoco site and how it impacted the 73-79 W. Huron St. site
- Section 4.1.1 Please list all the Institutional Controls listed in Section 3.2 of the Site Management Plan (SMP)
- Detail if the slab in the building with the SSDS has any cracks
- Include a monthly log of the pressure readings of the SSDS
- List the Certifying Period on the Cover Page

If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,

Megan Kuczka

Environmental Program Specialist – 1

ec: Andrea Caprio – NYSDEC
Arunesh Ghosh – NYSDOH
Charlotte Bethoney - NYSDOH
Tom Forbes – Benchmark Environmental Engineering & Science, PLLC
Tom Behrendt - Benchmark Environmental Engineering & Science, PLLC

Division of Environmental Remediation 700 Delaware Avenue, Buffalo, NY 14209

P: (716) 851-7220| F: (716) 851-7226 www.dec.ny.gov

October 10, 2023

James Mahoney Property Manager McGuire Development Company, LLC 455 Cayuga Road Buffalo, NY 14225

Re: Site Management (SM) -

Periodic Review Report (PRR) Response Letter

73-79 W. Huron St., Buffalo Erie County, Site No.: **C915282**

Dear James Mahoney (as the Certifying Party):

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for the following period: April 28, 2022 to April 28, 2023. The Department hereby accepts the PRR and IC/EC Certification.

The frequency of Periodic Reviews for this site is once a year, and your next PRR will be due on May 28, 2024. You will receive a reminder letter and updated certification form 75-days prior to the report's due date. Regardless of receipt or not of the reminder notice, the next PRR, including the signed certification form, is still due on the date specified above.

The Department has assessed and hereby approves your recommendation to remove HWM-1 and HWM-6 from the annual sampling program. Please maintain the wells in order to continue collecting annual groundwater elevations. Additionally, please make sure monthly ASD readings are collected and noted in future PRRs.

In future PRR's, please complete the following revisions:

- Include trendlines depicting the total VOC concentration at each monitoring location over time
- Assess the difference in VOC concentrations when completing low flow sampling versus passive diffusion bags

If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.



Division of Environmental Remediation

700 Delaware Avenue, Buffalo, NY 14209 P: (716) 851-7220| F: (716) 851-7226 www.dec.ny.gov

Sincerely,

Megan Kuczka

Megan Ghunghin

Environmental Program Specialist - 1

ec: Andrea Caprio – NYSDEC Arunesh Ghosh – NYSDOH Tom Forbes – Roux, Inc. Tom Behrendt – Roux, Inc. Rick Dubisz – Roux, Inc.