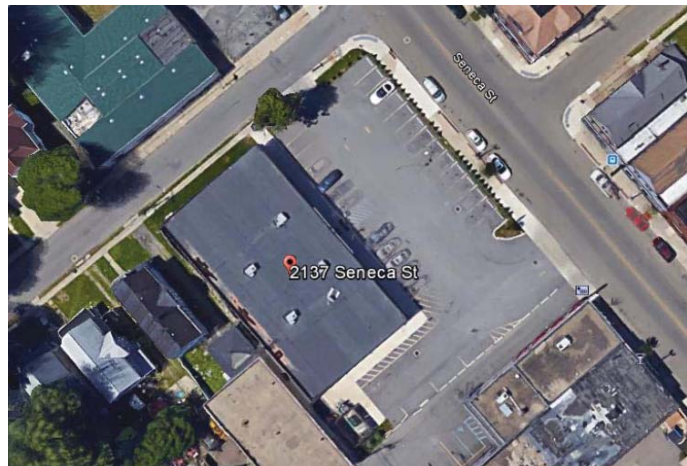




PERIODIC REVIEW REPORT
Former Pizza Hut
2137 Seneca Street
Buffalo, New York 14210

NYSDEC Site No. V00370-9

Project Number: 18010-03



Prepared For:



**NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION**
Division of Environmental Remediation
625 Broadway
Albany, New York 12233

and

Richard and Margaret Wieczorek (As Part Owners)
795 Choctaw Lane
Shalimar, Florida 32579

Report Date: February 28, 2020

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1.0 EXECUTIVE SUMMARY

As authorized by Richard and Margaret Wieczorek (As Part Owners) Encorus Group has completed a Periodic Review Report (PRR) of a parcel of land addressed at 2137 Seneca Street, Buffalo (Erie County), New York (Site). The PRR was completed in general conformance with the Site Management Plan (SMP) prepared by URS, Inc. and dated May 25, 2011 for New York State Department of Environmental Conservation (NYSDEC) Volunteer Clean-up Program Site #V00370-9.

Historical use of the Site indicated that previous uses of the Site include residential dwellings, a pharmacy, a retail tire establishment, automotive service building, offices, a dry-cleaning establishment, and former restaurants (i.e., Pizza Hut and Wendy's). Dry cleaning chemicals (namely Tetrachloroethene or PCE) were presumably released to the environment from the aforementioned dry-cleaning establishment resulting in impacted soil and groundwater.

The Site has undergone several remediation activities between 2003 and 2009 with the approval of NYSDEC. Approximately 726-tons of excess overburden soil/fill was excavated and transported off-site for disposal as part of the remedial activities. The Site was restored post-remediation and was developed with a commercial-retail facility operated as a Dollar General store. The NYSDEC-approved Site Management Plan requires continued certification of the Site Institutional and Engineering Controls and implementation of a Groundwater Monitoring Program.

During the monitoring period extending from January 29, 2019 to January 29, 2020, the following tasks of the SMP were completed:

- Institutional and Engineering (IC/EC) Controls were maintained as certified by the Owner;
- A Site-wide inspection was completed of the Cover System; and
- Groundwater Monitoring was completed.

Cover System: Minor failures were noted associated with the Cover System and included seasonally damaged bushes and minor sidewalk cracking.

- **Recommendations:** Replacement of damaged bushes, and replace grass cover as needed and when practicable.

Groundwater Monitoring Program: The results of the Groundwater Monitoring Program indicate that elevated levels of total chlorinated volatile organic compounds (CVOCs) associated with PCE and its potential breakdown products were detected in monitoring well MW-4 (3.300 mg/l) and the Duplicate sample at MW-4 (3.2031 mg/l), at concentrations above the NYSDEC-mandated Standards, Criteria, and Guidelines (SCG) value of 1 milligram/liter (mg/l). The analytical results of downgradient perimeter wells were below the NYSDEC-mandated SCG concentration of 1 milligram per liter (mg/l), except at monitoring well MW-11 (1.11086 mg/l) and PZ-A (3.100 mg/l). It should be noted that PCE degradation CVOCs were detected in deep monitoring well MW-4A, and included vinyl chloride (0.028 mg/l), significantly below the NYSDEC-mandated SCG concentration of 1 milligram per liter (mg/l).

- **Recommendation:** Continued Groundwater Monitoring is required as stipulated in the VCP agreement until the NYSDEC-mandated SCG is attained. Once attained, three (3) additional quarters of Groundwater Monitoring will be required.

2.0 Site Overview

2.1 Location

The Site is located in an urban area in the City of Buffalo, County of Erie, New York. The current Site address is 2137 Seneca Street, which is identified as Parcel Number 133.26-7-1.1 on the City of Buffalo Tax Map. The Site is an approximately 0.5-acre area bounded by Seneca Street to the northeast and Kingston Place to the northwest. Commercial properties are located adjacent to the Site along Seneca Street (northeast, northwest, and southeast) and residential properties border the rear of the Site along Kingston Avenue (southwest) (Figures 1 and 2).

The Site is currently occupied by an active, single-story commercial building that faces Seneca Street and an asphalt-paved parking lot that covers the remainder of the property around the building. The current building is built for use as a Dollar General (discount store) since 2013.

2.2 Site History and Remediation

Historical use of the Site was summarized by Conestoga Rovers and Associates (CRA) in the associated Final Site Investigation Report and Feasibility Study (SI/FS Report), dated March 31, 2003. This report indicated that previous uses of the Site include residential dwellings, a pharmacy, a retail tire establishment, automotive service building, offices, a dry-cleaning establishment, and former restaurants (i.e., Pizza Hut and Wendy's). According to historic business listings (CRA SI/FS Report), buildings facing Seneca Street included the dry-cleaning establishment at 2141 Seneca Street (northeast corner of the property) from the 1950s until construction of the former Pizza Hut/Wendy's building in 1982. Dry cleaning chemicals (namely Tetrachloroethene or PCE) were presumably released to the environment from the dry-cleaning establishment resulting in impacted soil and groundwater.

A Phase II environmental site investigation (ESI) performed by the Fourth River Company of Pittsburgh, Pennsylvania (FRC) in 1999, first identified the presence of PCE on-Site. Franchise Finance Corporation of America (FFCA – merged with GE Capital Franchise Finance Corporation (GEFF) in 2001), a former Owner, and the New York State Department of Environmental Conservation (NYSDEC) enrolled into the NYSDEC Voluntary Clean-up Program (VCP) in 2000 as the then-noted Volunteer, and the site was assigned the VCP number V00370-9. Several investigations and sampling events were conducted by between 1999 and 2002 before remedial action for the soil was conducted in 2003 and of the groundwater in April 2004 and November 2009. [The current Site Owner since at least 2015 is Richard and Margaret Wieczorek (As Part Owners), and the site is operated as a Dollar General commercial-retail store.]

The Site has undergone several remediation activities between 2003 and 2009 with the approval of NYSDEC. The following is a summary of the Remedial Actions performed at the Site:

- Excavation of soil/fill in the northern portion of the Site that exceeded NYSDEC Technical Administrative Guidance Memorandum (TAGM) #4046 Standards, Criteria, and Guidelines (SCGs) to the extent practicable; advancing vertically to the top of the water table (approximately 10 feet bgs) and horizontally to the property boundary or structures whose integrity would be compromised;
- Construction and maintenance of a soil cover system consisting of vegetative soil or asphalt pavement overlying limestone aggregate backfill to prevent human exposure to remaining contaminated soil/fill remaining at depths below 6 feet under the Site;
- Execution and recording of the Declaration to restrict land use and prevent future risks of exposure, if any, to any residual contamination remaining at the Site;

- Installation of an in-situ groundwater treatment system in the northern portion of the Site comprising a series of injection wells and injection gallery piping connected to service boxes through a network of shallow subsurface feeding lines;
- Implementation of four In-Situ Chemical Oxidation (ISCO) applications to the shallow and deep groundwater utilizing the aforementioned treatment system under gravity flow conditions between April 2004 and May 2005;
- Implementation of three applications of both abiotic and biotic reductive dehalogenation remediation amendments within the shallow groundwater in the northern corner of the Site between September 2007 and November 2009. These full-scale events included the injection of zero-valent iron (ZVI) and either Hydrogen-releasing Compound (HRC)® or EHC® after pathway development within the subsurface using pneumatic and limited hydraulic fracturing;
- Development and implementation of a Soil Management Plan (SMP) for long-term management of Remaining Contamination as required by the Declaration, which includes plans for IC and EC Plans; monitoring, operation and maintenance (if needed); and reporting.
- Completion of a Construction Closeout Report (CCR), on behalf of 2137 Seneca, LLC (former Owner), to summarize the post-remedial redevelopment activities at the Site. Post remedial activities included the following:
 - Demolition of former restaurant building, with off-site disposal and/or recycling of waste streams. Approximately 726-tons of excess overburden soil/fill was excavated and transported off-site for disposal, including 627-tons at WM – Chaffee Landfill in Chaffee, New York, and 99-tons at Modern Landfill in Model City, New York
 - Decommissioning of thirty-six (36) former monitoring wells and piezometers, in accordance with NYSDEC CP-43 guidelines;
 - Installation of a passive sub-slab vapor depressurization system within the commercial building (i.e., Dollar General);
 - Placement and compaction of clean backfill material. Approximately 965.5-tons of approved backfill material was placed on-Site including, approximately 877.5 tons of 2" ROC from Buffalo Crushed Stone Wehrle, and approximately 88-tons of 2" recycled material from Buffalo Recycled Aggregate, LLC; and,
 - Construction of a 9,100-square foot commercial building, parking areas, and landscaping.

2.3 Remaining Contamination

Based on the analytical data collected to-date, contaminant concentrations have been significantly reduced; however, Remaining Contamination was still detected in the subsurface on-Site by URS, Inc. as of May 2011. As previously reported to the NYSDEC, the results of the remedial investigations, as well as the confirmatory soil sampling and progress groundwater monitoring conducted after the remedial efforts, were performed to evaluate the Remaining Contamination present on-Site.

The groundwater contaminant data since January 2006, as previously reported by URS, Inc., confirm that the application of abiotic and biotic reductive dehalogenation remediation technologies has been successful in reducing the PCE concentration breakdown products (cis-1,2-dichloroethene [cis-1,2-DCE] and vinyl chloride, respectively) on-Site. The chlorinated volatile organic compound (CVOC) contaminant mass on-Site is

reportedly dominated by the third-order breakdown product vinyl chloride, indicating that reductive dehalogenation pathway of PCE is nearly completed.

2.4 Existing Groundwater Monitoring System

Groundwater monitoring of five shallow wells within the immediate vicinity of the remediated impact area will continue on an annual basis until the reported total CVOC concentration at all monitored wells drops below the NYSDEC-defined SCG. The five shallow wells include MW-2, MW-4, MW-11, MW-13, and PZ-A. In addition, deep well MW-4A is also monitored. The locations of the wells are presented on Figure 3.

2.5 Clean-up Goals

According to the SMP report, the remedial goal of reducing groundwater CVOCs to the NYSDEC-mandated concentration of 1 milligram per liter (mg/L) or part per million (ppm) or less on-Site has substantially been achieved.

Once the monitoring objectives have been achieved, the current Owner will perform at least three more groundwater monitoring events (four quarters total) to confirm that the monitoring results report a cumulative CVOC concentration (i.e., summation of PCE and its breakdown products TCE, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride) of less than 1 mg/L in each on-Site well. Once the quarterly monitoring has demonstrated that the total CVOC concentrations on-Site are at 1 mg/L or below, the Owner will notify NYSDEC, discontinue groundwater monitoring, and initiate the decommissioning of the monitoring wells. The Owner will not initiate the well decommissioning activities without NYSDEC's consent. Well decommissioning will be in accordance with NYSDEC guidance.

2.6 Institutional/Engineering Control Verification

2.6.1 Verification of Site Details

As per the NYSDEC Site Management Periodic Review (PRR) Notice, Institutional Controls (IC) and Engineering Controls (EC) Certification process, the Owner is required to verify Site details on an annual basis until closure of the VCP Agreement is satisfied.

2.6.2 Institutional Controls Certification

As per the NYSDEC Site Management Periodic Review (PRR) Notice, Institutional Controls (IC) and Engineering Controls (EC) Certification process, the Owner is required to verify that all existing site controls are still applicable. The following ICs are listed for the Site:

- Groundwater Use Restriction
- Land-use Restriction
- Monitoring Plan
- Site Management Plan (SMP)

The Declaration of Covenants and Restrictions prohibits the site from being used for anything other than industrial or commercial purposes, excluding day care, child care and medical care uses. The use of the groundwater underlying the site is also prohibited without proper treatment.

The Owner has certified that the IC/EC are applicable (refer to Appendix B - Institutional Controls (IC) and Engineering Controls (EC) Certification).

2.6.3 Engineering Controls Certification

As per the NYSDEC Site Management Periodic Review (PRR) Notice, Institutional Controls (IC) and Engineering Controls (EC) Certification process, the Owner is required to verify that all existing site controls are still applicable.

The following EC is listed for the Site:

- Cover System Inspection

The soil cover system is a permanent, passive control that includes clean soil cover/cap in landscaped areas, asphalt covered/paved parking, and throughways, and concrete covered sidewalks that is integrated into the current use of the property. The current cover system is expected to remain in-place in perpetuity with routine maintenance (i.e., landscaping maintenance, asphalt pavement sealing and repair, municipal inspection of sidewalks and associated repair) expected with Site use.

The cover system monitoring will be conducted annually and will involve a visual walk-over inspection of the Site. Additional inspections will be required after any redevelopment of the property that involves removal and replacement of any section of the pavement, including excavations. Unscheduled inspections may take place when a suspected failure in the cover system has been reported or an emergency occurs that is deemed likely to affect the operation of the system.

The visual inspection will involve an evaluation of the integrity of the following features on-Site:

- a) The sidewalk along Kingston Place and Seneca Street;
- b) The landscaped area between the northwestern edge of the parking lot and the sidewalk along Kingston Place;
- c) The asphalt pavement parking lot surrounding the current building;
- d) The landscaped area in front (northeast) of the current building.

A complete list of components to be checked is provided in the Inspection Checklist, presented in Appendix B-2. For landscaped areas, observations including areas of deterioration, water erosion, subsidence, or ponding will be documented on the inspection form and evaluated. For paved areas (i.e., asphalt, sidewalk), separation cracks or vertical off-sets that are greater than one-half inch shall be documented and sealed or repaired.

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the Site will be conducted within 5 days of the event to verify the effectiveness of the EC/ICs implemented at the Site by a qualified environmental professional as determined by NYSDEC.

As a requirement of the EC Certification, a New York State Professional Engineer (NYSPE) is required to sign the appropriate Certification Form. Such is provided in Appendix B-1.

3.0 Media Monitoring Program

SMP activities include monitoring of groundwater remediation progress and contingency monitoring of Soil Vapor Intrusion (SVI) potential. Groundwater monitoring includes well development and sampling activities at monitoring wells noted in Section 2.4.

The contingency SVI monitoring has not been completed as the requirements for such monitoring have not yet been developed by the Owner or approved by the NYSDEC. At present, a passive sub-slab vapor depressurization system has been installed within the commercial building (i.e., Dollar General). An evaluation of the need for implementing an active system has not been implemented for the Site. If required based on available soil and/or groundwater monitoring data, the SMP will identify the SVI risk present for the building occupation and outline a program necessary for monitoring and/or mitigating the risk, if present. Currently, this passive sub-slab vapor depressurization is still present on-site, as observed from the ground surface. Two SVI roof vents were observed from the exterior ground surface, at the northwest and southwest building corners. In addition, the associated roof vent pipe was observed to be intact on the building interior at the southwest interior corner; there is no access to the roof vent pipe at the northwest interior building corner.

Since the SVI system in-place is passive, there is no active monitoring of the system with regards to air sampling, chemical analysis, pressure measurement, etc. Such would be contingency monitoring. If groundwater results suggest that there is a potential for vapor migration into the building, the SVI system would be made active and the Contingency Monitoring Program would be developed at that time.

3.1 Groundwater Progress Monitoring

Groundwater progress monitoring was conducted to assess the performance of the remedial activities as the groundwater concentrations approach the remedial goal of 1 part per million (ppm) in each of the on-site monitoring wells serving as the monitoring program wells (refer to Section 2.4).

In as much as there are no active potable water supply wells on-Site or off-Site that are withdrawing groundwater from the VOC-contaminated groundwater zone, there is no significant risk posed to public health due to the detection of part per billion (ppb) concentrations of CVOCs in groundwater in the vicinity of the Site. In addition, there appears to be no significant future risk to human health given the unlikely potential for future potable use of the shallow aquifer underlying the Site.

To confirm that groundwater has achieved the site-specific remedial goal, monitoring wells have been established that include up-gradient well MW-2, down-gradient wells MW-4, MW-13, MW-11, and PZ-A, and deep well MW-4A, as illustrated on Figure 3. These wells were previously selected based on the historic groundwater concentrations. Monitoring well MW-2 is also included to confirm up-gradient to cross-gradient concentrations.

Groundwater progress monitoring was conducted in January 2020 and will further be conducted until the reported total CVOC concentration in each of the selected wells achieves the NYSDEC-defined SCG a level of 1 mg/L or below of total CVOCs.

3.2 Sampling Protocol

3.2.1 Groundwater Wells

Groundwater level measurements were collected from the designated monitoring well locations (i.e., MW-2, MW-4, MW-4A, MW-11, MW-13, PZ-A) prior to sampling. Each well was purged using low-flow pumping or bailing techniques. Groundwater samples were collected after at least three well-volumes were removed and after water levels had stabilized to approximately 90 percent of the initial water level reading prior to evacuation. Sampled groundwater was collected in laboratory-supplied bottles, placed in a cooler, chilled to approximately 4

degrees Celsius (°C), and delivered to the analytical laboratory (i.e., Alpha Analytical) by the field crew on-site under chain-of-custody procedures, on January 14, 2020.

Groundwater samples were tested for VOCs by SW-846 Method 8260. To monitor QA/QC for each groundwater sampling event, one duplicate sample, and one trip blank were collected during the monitoring event.

3.3 Monitoring Quality Assurance/Quality Control (QA/QC)

All sampling and analyses will be performed in accordance with the requirements of the Quality Assurance Project Plan (QAPP) prepared for the Site and presented in the SMP. Main components include:

- Sampling Program
 - Sample containers will be provided by the laboratory to certify that they are properly washed, decontaminated, and dosed with appropriate preservative (if applicable) prior to sample collection and analysis. Containers with preservative will be properly labeled as such.
 - Sample holding times will be in accordance with the NYSDEC Analytical Services Protocol (ASP) requirements.
 - Field QC samples (e.g., trip blanks and coded field duplicates) will be collected as necessary.
- Analytical Procedures.
- Preparation of a summary of sample preservation and chain-of-custody procedures.
- Calibration Procedures:
 - All field analytical equipment will be calibrated immediately prior to each day's use. Calibration procedures will conform to manufacturer's standard instructions.
 - The laboratory will follow all calibration procedures and schedules as specified in EPA SW-846 and subsequent updates that apply to the instruments used for the analytical methods.
- Preventative Maintenance Procedures and Schedules.
- Corrective Action Measures.

4.0 Summary of Results

4.1 Institutional/Engineering Control Verification

As per the NYSDEC Site Management Periodic Review (PRR) Notice, Institutional Controls (IC) and Engineering Controls (EC) Certification process, the Owner is required to verify that all existing site controls are still applicable. The Owner has certified that the IC/EC are applicable (refer to Appendix B - Institutional Controls (IC) and Engineering Controls (EC) Certification).

4.2 Engineering Controls Certification

As per the NYSDEC Site Management Periodic Review (PRR) Notice, Institutional Controls (IC) and Engineering Controls (EC) Certification process, the Owner is required to verify that all existing site controls are still applicable.

The following EC are listed for the Site:

- Cover System Inspection

Based on the results of the Site inspection, the following was noted:

- Vegetative cover along Kingston Place – seasonally damaged bushes were noted (refer to Appendix B-2)
- Sidewalk (Kingston Place) has minor cracking (0.25-inches or less). The parking lot, building walkways, access roads – no concerns (refer to Appendix B-2).

4.3 Groundwater Monitoring Program

Six (6) groundwater monitoring wells were redeveloped on January 14, 2020 prior to sampling. Well redevelopment included the following tasks:

- Each well was redeveloped using dedicated PVC bailers. Prior to redevelopment, each well was gauged with an electronic water level indicator to determine the depth to the water table; such data is presented in Table No. 2. [Table No. 1 also presents historic water levels obtained by others]. Well evacuation continued until at least three well volumes were removed.
- Monitoring well PZ-A was developed using a 1-inch PVC bailer and at least three well volumes were evacuated.
- Groundwater samples were obtained via dedicated PVC bailers.
- Groundwater samples were placed into pre-cleaned jars provided by the analytical laboratory, Alpha Analytical. One trip blank QA/QC sample was also submitted for analysis. One unmarked duplicate sample was also submitted for analysis. The duplicate sample was obtained from well MW-4. The eight (8) samples were submitted for volatile organic compound (VOC) analysis via USEPA Method 8260C.

4.3.1 Groundwater Levels

Groundwater elevations were plotted on a site location map which presents the existing Groundwater Monitoring System wells. Groundwater elevations are referenced to the top of the well casing at each well and are presented in Table 1 and shown graphically on Figure 3. The approximate shallow overburden groundwater flow direction is believed to be to the west-northwest direction and is generally consistent with historic data.

4.3.1.1 Well Integrity

All monitoring wells were checked for integrity of the steel road boxes and the surface cement-grout seals. All road boxes and the surface seals were determined to be intact; five hold-down bolts were replaced.

4.3.2 Analytical Results

Based on the analytical results of the groundwater sampling and testing, the detected parameters are presented in Table 2 and graphically on Figure 4. Total CVOC concentrations, which include a summation of PCE and its potential breakdown products (TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE, 1,1-DCA, and Vinyl Chloride), are presented in micrograms per liter (ug/L) and milligrams per liter (mg/l).

In general, the CVOC concentrations were below the NYSDEC-mandated SCG concentration of 1,000 micrograms per liter (ug/L) or 1.0 mg/L (ppm), except at monitoring well MW-4 (3.300 mg/l), MW-11 (1.11086 mg/l), and PZ-A (3.100 mg/l). [The duplicate sample from well MW-4 had a reported similar result of 3.2031 mg/l – above the SCG]. It should be noted that PCE degradation CVOCs were detected in deep monitoring well MW-4A and included vinyl chloride (0.0028 mg/l) and cis 1,2-Dichloroethene (0.00099 mg/l), significantly below the SCG.

5.0 Findings and Recommendations

5.1 IC/EC Certification

No concerns were identified during the Cover System inspection on January 14, 2020, except as noted in Section 4.2.

- Recommendations: Replacement of damaged bushes.

5.2 Groundwater Monitoring Program

Reported CVOC concentrations were below the NYSDEC-mandated SCG concentration of 1 milligram per liter (mg/L), except at monitoring wells MW-4 (3.300 mg/l), MW-11 (1.11086 mg/l), and PZ-A (3.100 mg/l).

- Recommendations: Continued Groundwater Monitoring is required as stipulated in the VCP agreement until the NYSDEC-mandated SCG is attained.

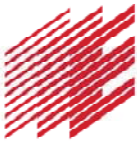
6.0 Signature of Environmental Professional

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR 312.10.

I have the specific qualifications based on education, training, and experience to undertake this Periodic Review Report of the property identified as Former Pizza Hut (VCP #V00370-9), 2137 Seneca Street, Buffalo, New York for the current Owner, Richard and Margaret Wieczorek (As Part Owners).

A handwritten signature in black ink, appearing to read "Andrew J. Kueserik".

Andrew J. Kueserik, CPG
Senior Geologist/Environmental Professional



Education:

BA, Geological
Sciences, State
University of New
York at Buffalo

**Professional
Registrations:**

AIPG 25 years
BAPG 32 years

**Years of
Experience:**

Total: 40
With Encorus: 3

Andrew J. Kucserik, CPG

Senior Geologist/Environmental Professional

Mr. Kucserik is a Senior Geologist with nearly 40 years of geologic experience. His specialties include geotechnical investigations, geophysics, soil and groundwater sampling, remediation, environmental due diligence, and consulting services.

Mr. Kucserik's representative project experience includes:

Phase I – Environmental Site Assessment, 264 Ridge Road, Lackawanna, New York (2012-2017)

Mr. Kucserik completed a multi-phase investigation of a proposed residential development at a former community center that was part of a US Brownfield-eligibility investigation completed for a national consulting firm. The initial investigation included geophysical methods to investigate the presence of underground storage tanks (USTs), foundations, and potential fills. Subsequent phases included ASTM AAI Phase I reports and updates completed for national borrowers and local community developers.

Voluntary Clean-up Program (VCP), 2137 Seneca Street, Buffalo, New York

A former dry cleaning facility was remediated and required an Operations and Maintenance (O&M) program. Mr. Kucserik currently conducts annual groundwater sampling and laboratory analyses as part of the NYSDEC Periodic Report Review requirements for the out-of-state Owners. The final closure is pending based on the analytical results and NYSDEC.

Former Manufacturing Facility, Jamestown, New York

A confidential client is assessing the viability of redeveloping a former manufacturing facility; however, the presence of oil-soaked wooden floor tiles required sampling and analyses for both gross contamination and waste disposal options. This investigation is currently being completed by Mr. Kucserik and is being evaluated for disposal costs.

Underground Storage Tank (UST), Military Road, Niagara Falls, New York

Mr. Kucserik completed the investigation, excavation, remediation, and closure of three previously unknown USTs at a site that had been remediated two times previously by others. The USTs were encountered during ancillary construction activities for a national retail developer.



Environmental Due Diligence

Mr. Kucserik is the Senior Geologist/Environmental Professional providing environmental due diligence services to several Western New York lending institutions, developers, attorneys, and private/commercial individuals. Typical projects have included multi-million dollar acquisitions of commercial properties for redevelopment and refinancing.

Responsible for scheduling and management of all Environmental due diligence activities (Phase I) projects in the Western New York area and portions of Pennsylvania. Mr. Kucserik is also responsible for providing professional services concerning Phase II Environmental Site Assessments incorporating drill rigs and staff, site remediation, soil, groundwater, and soil gas vapor sampling, geophysical investigations, geological consulting, and oversight monitoring.

- Underground storage tank (UST) removal investigations and oversight monitoring.
- Completed over 2,000 Phase I Environmental Site Assessments.
- Completed over 200 geophysical surveys utilizing magnetometer, ground penetrating radar, seismic blast monitoring, and resistivity surveys with associated equipment.
- Regulatory agency interfacing.
- Business development.

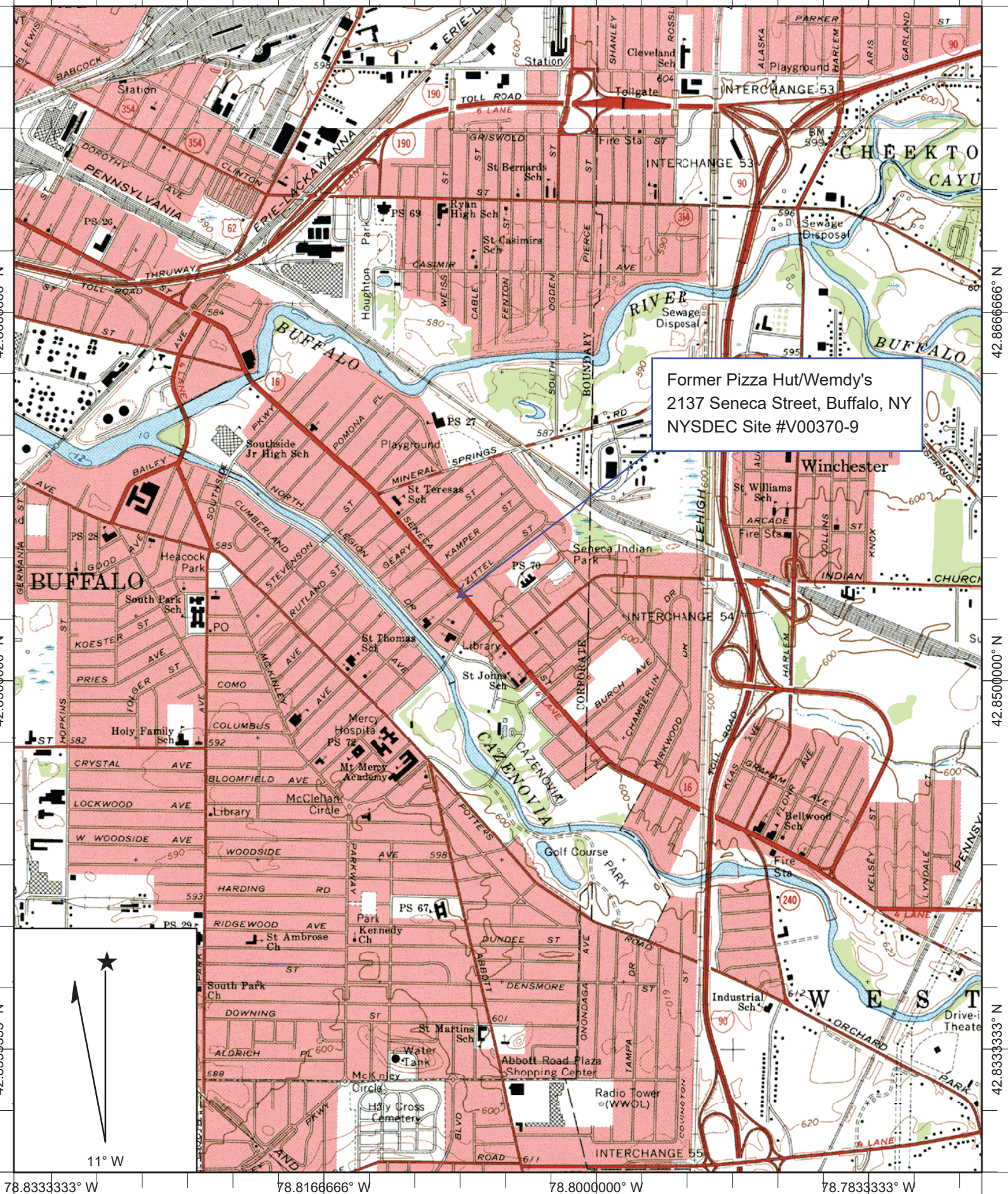
PROFESSIONAL AFFILIATIONS & TRAINING

HAZWOPER Recertification (November 2018)
USEPA Certified Lead-Based Paint Inspector (2012 - 2016)
SUNY @ Buffalo Geology Alumni Advisory Board (2010 – 2014)
Radiation Worker II Safety Refresher (May 2003)
USEPA Fractured Bedrock Symposium (February 2001)
Wetlands Identification & Delineation (December 2000)
Federal and State Spill Reporting Requirements (October 1997)
ASTM Seminar, Risk-Based Corrective Action (June 1997)
ASCE Course on Foundation Design (April 1997)
IAH Symposium, Modern Trends in Hydrogeology (May 1992)
Asbestos Handlers & Supervisors Course (1989 - 1992)
OSHA 1910.120 40-Hour Hazardous Waste Certification (December 1987)
Site Assessment of Hazardous Waste Sites (October 1987)

APPENDICES

APPENDIX A – FIGURES AND TABLES

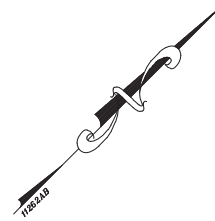
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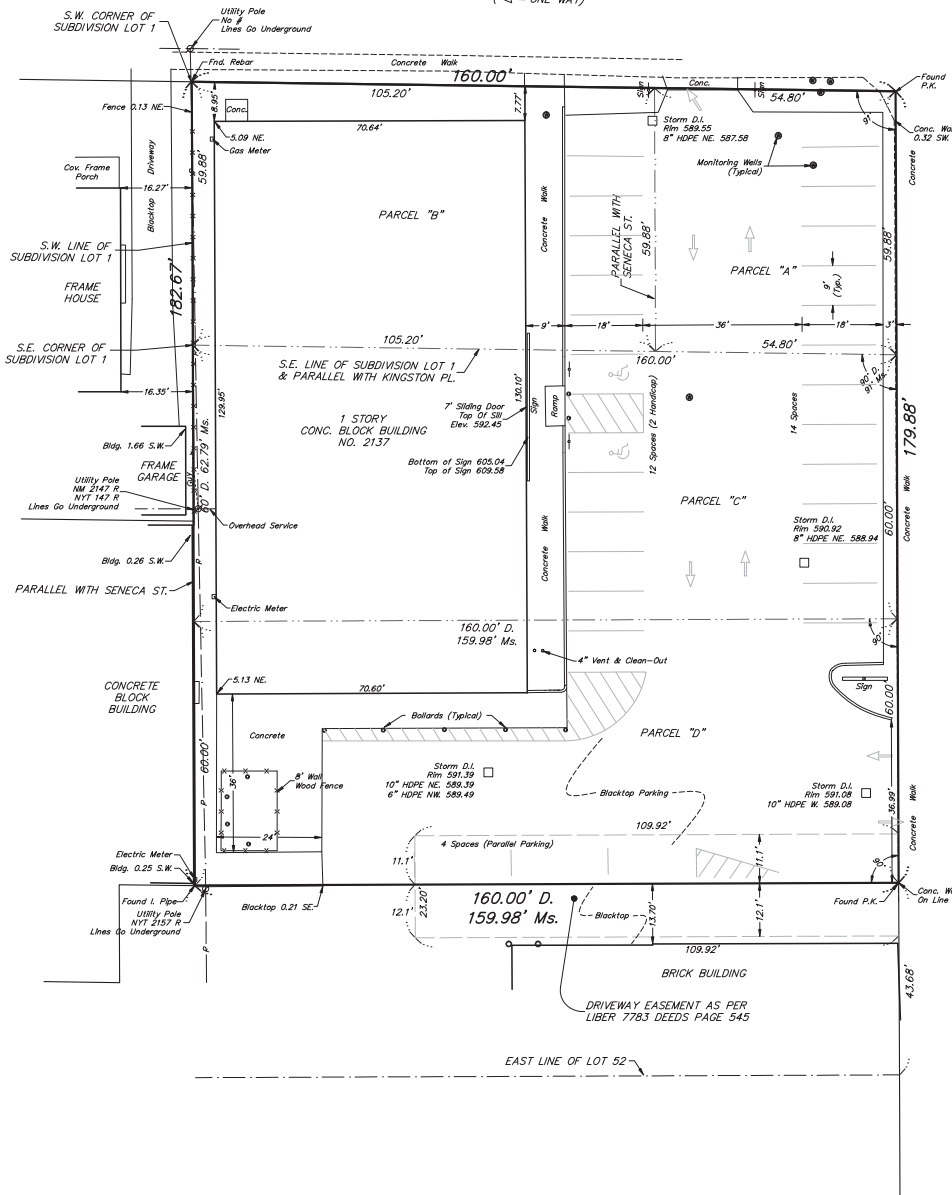
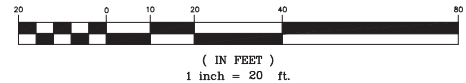
Scale: 1 inch equals 2000 feet

Location: 042.8541398° N 078.8060336° W
Caption: 2137 Seneca Street, Buffalo, NY (1965)



KINGSTON (40' WIDE) PLACE
(ALSO KNOWN AS KINGSTON STREET)
(← ONE WAY)

GRAPHIC SCALE



STREET
(66' WIDE)
SENECA

LEGEND

- | | |
|--------------------------------------|---------------------|
| Ø UTILITY / SERVICE POLE | R.O.W. RIGHT OF WAY |
| ⊗ WATER LINE VALVE | CONC. CONCRETE |
| ⊗ FIRE HYDRANT | INV. INVERT |
| D.I. (DROP INLET - STORM) | M.H. MANHOLE |
| ⊗ MANHOLE (STORM) | — GAS LINE |
| ⊗ MANHOLE (ELECTRIC) | — WATER LINE |
| ⊗ MANHOLE (TRAFFIC) | — TELEPHONE LINE |
| ⊗ MANHOLE (SANITARY) | — ELECTRIC LINE |
| • LDR (LIGHT DUTY RECEIVER - STORM) | — UTILITY LINES |
| • BYD (BACKYARD DRAIN INLET - STORM) | — CABLE LINES |
| • GAS LINE VALVE | D. DEED |
| ⊗ LIGHT STANDARD | L. MEASURED |
| — SIGN | L. LIBER |
| H.C. HANDICAP | P. PAGE |

NOTE:
BUILDING OFFSETS & SETBACKS
MEASURED TO FOUNDATIONS

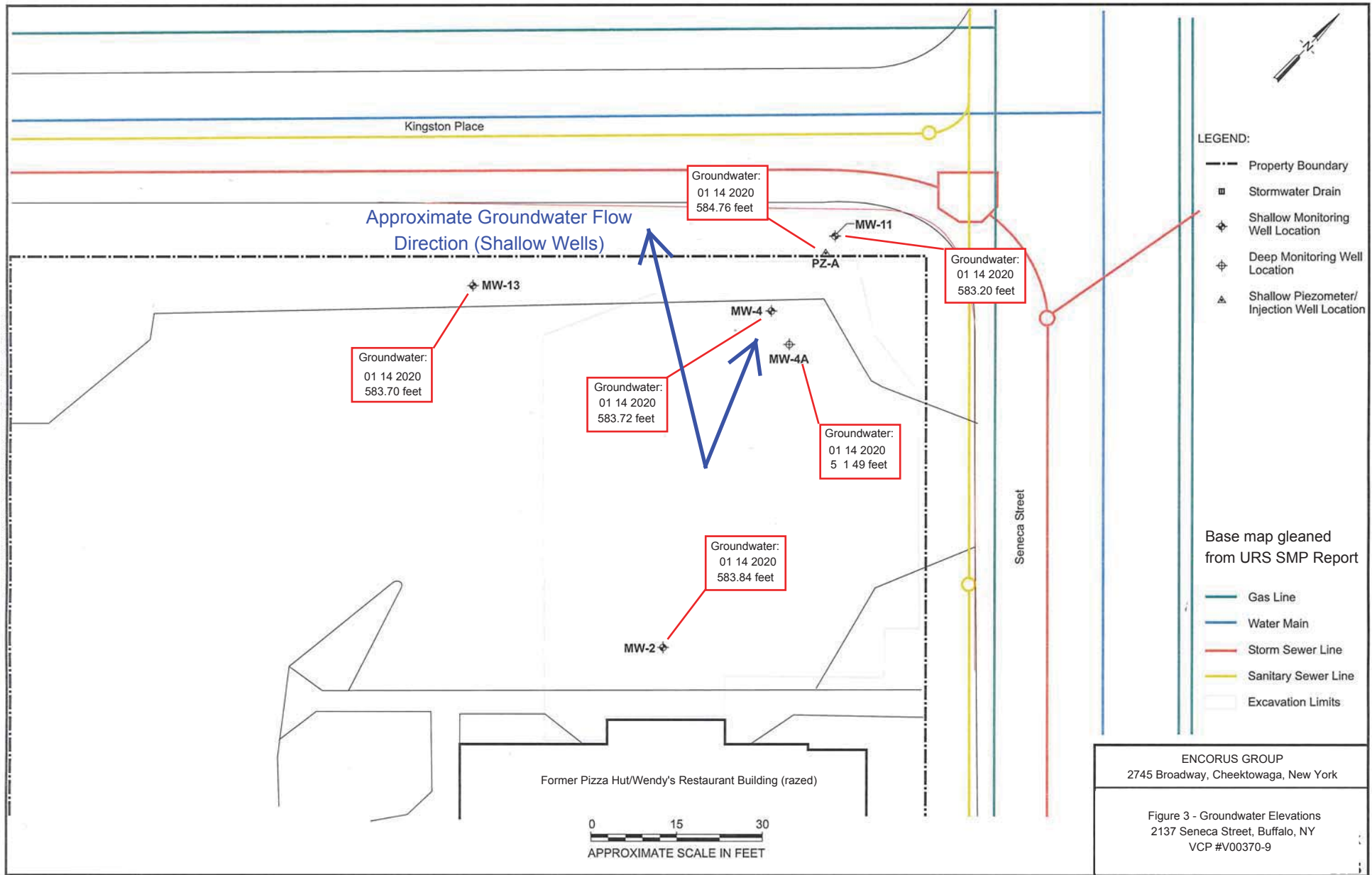
INSTRUMENT(S) UTILIZED IN DETERMINING LOCATION OF BOUNDARY LINES: LIBER 9439 PAGE 654
THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT ABSTRACT OF TITLE AND IS SUBJECT TO ANY STATE OF FACTS THAT MAY BE REVEALED IN SAID ABSTRACT.
NOTE: PROPERTY CORNER MONUMENTS WERE NOT PLACED AS PART OF THIS SURVEY.

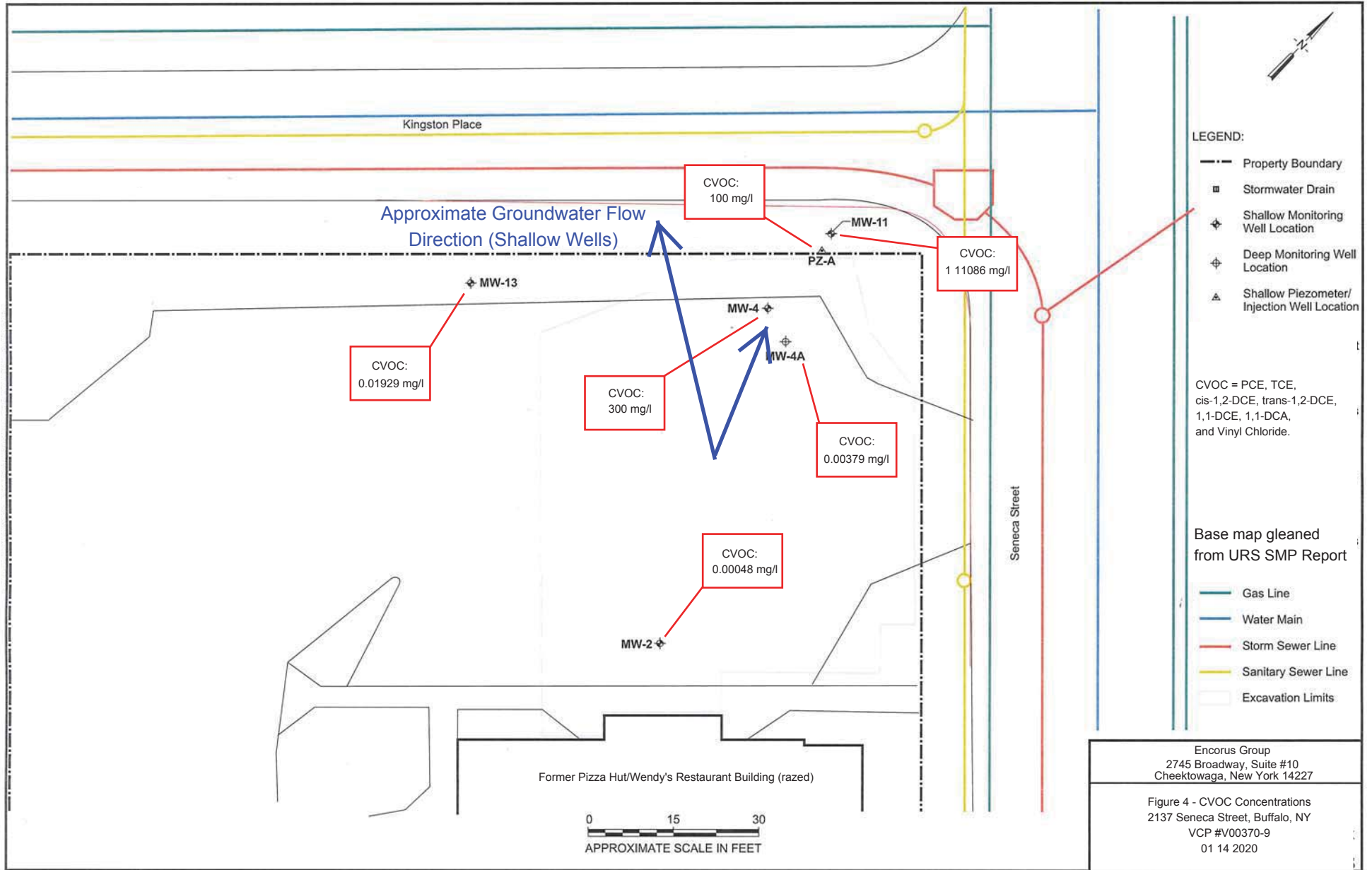
THIS SURVEY MAP WAS PREPARED IN ACCORDANCE WITH THE CURRENT STANDARDS FOR LAND SURVEYS ADOPTED BY THE BAR ASSOCIATION OF THE STATE OF NEW YORK. <i>Francis C. Delles</i> FRANCIS C. DELLES NYSPLS No. 055477	©COPYRIGHT 2012 BY: Millard, MacKay & Delles LAND SURVEYORS, LLP 150 AERO DRIVE BUFFALO, NEW YORK 14225 PHONE (716) 631-5140 ~ FAX 631-3811	AMEND: SURVEY DATE: 3-14-12 DRAWING DATE: 3-16-12 SCALE: 1" = 20' "ALL RIGHTS RESERVED"
		THIS MAP VOID UNLESS EMBOSSED WITH NEW YORK STATE LICENSED LAND SURVEYOR'S SEAL. ALTERING ANY ITEM ON THIS MAP IS A VIOLATION OF THE LAW EXCEPT AS PROVIDED IN SECTION 7209, PART 2, OF THE NEW YORK STATE EDUCATION LAW. SBL No. 133,26-7-1.1

FINAL AS-BUILT SURVEY

PART OF LOT 52 SECTION 10 TOWNSHIP 10 RANGE 7 OF THE:
Buffalo Creek Reservation SURVEY— Erie COUNTY, N.Y.

SURVEY OF: 2137 Seneca Street, City of Buffalo





MEASUREMENT OF GROUNDWATER LEVELS

Site Name / Number: Parcel 2 - 2137 Seneca St. / VCA 00370-9 Date: 01 / 14 / 2020
 Owner: Richard/Margaret Weiczorek (Part Owners) By: Encorus Group
 Location: Buffalo, NY Meas. Method Electronic Water Level Indicator

[illegible]

ENCORUS GROUP
2745 Broadway
Cheektowaga, New York 14227
O: 716-863-2093

Table No. 2 - Analytical Results (01/14/2020)
VCP NYSDEC Site #V00370-9 - 2137 Seneca Street, Buffalo, New York

LOCATION				WELL MW-2		WELL MW-4		WELL MW-4A		WELL MW-11		WELL MW-13		WELL PZ-A		DUPLICATE		TRIP BLANK	
SAMPLING DATE				1/14/2020		1/14/2020		1/14/2020		1/14/2020		1/14/2020		1/14/2020		1/14/2020		1/14/2020	
LAB SAMPLE ID				L2001772-01		L2001772-02		L2001772-03		L2001772-04		L2001772-05		L2001772-06		L2001772-07		L2001772-08	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
SAMPLE DEPTH (ft.)																(At MW-4)			
	CasNum	NY-AWQS	Units	Results	Qualifier	Results	Qualifier	Results	Qualifier	Results	Qualifier	Results	Qualifier	Results	Qualifier	Results	Qualifier	Results	Qualifier
Volatile Organics by GC/MS																			
1,1-Dichloroethane	75-34-3		5 ug/l	0.000	U	0.00	U	0.000	U	0.000	U	1.100	J	0.000	U	0.000	U	ND	U
Vinyl chloride	75-01-4		2 ug/l	0.080	J	1400.00		2.800		570.000		4.800		1300.000		1200.000		ND	U
1,1-Dichloroethene	75-35-4		5 ug/l	0.000	U	0.00	U	0.000	U	0.860	J	0.000	U	0.000	U	3.100	J	ND	U
Trichloroethene	79-01-6		5 ug/l	0.400	J	0.00	U	0.000	U	0.000	U	0.390	J	0.000	U	0.000	U	ND	U
Methyl tert butyl ether	1634-04-4		10 ug/l	0.000	U	0.00	U	0.000	U	0.000	U	5.000	U	0.000	U	0.000	U	ND	U
cis-1,2-Dichloroethene	156-59-2		5 ug/l	0.000	U	1900.00		0.990	J	540.000		13.000		1800.000		2000.000		ND	U
Acetone	67-64-1		50 ug/l	2.300	J	0.00	U	1.700	U	0.000	U	3.000	J	0.000	U	0.000	U	17.000	
Cumulative CVOC Concentration (ug/l)				(ug/l)	0.4800	3300.00		3.7900		1110.8600		19.2900		3100.0000		3203.1000		N/A	
Cumulative CVOC Concentration (mg/l)				(mg/l)	0.00048	3.30000		0.00379		1.11086		0.01929		3.10000		3.20310		N/A	
Result (2/28/2019)				(mg/l)	0.0006	3.7000		0.0290		1.4200		0.0180		3.2030					
Result (2/28/2018)				(mg/l)	0.0070	2.2300		0.0090		0.4100		0.0130		2.0500					
Result (12/23/2016)				(mg/l)	0.0190	3.4240		0.0240		0.6020		0.0170		1.3700					
Result (5/3/2016)				(mg/l)	0.0282	4.8400		1.2250		0.0990		0.0214		3.0200					
Result (7/31/2014)				(mg/l)	0.0632	6.1120		0.2390		2.9000		0.0325		4.3036					

*NY-AWQS: New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.

Samples collected on January 14, 2020 were analyzed by Alpha Analytical

Exceeds individual NY-AWQS value.

BOLD = Exceeds NYSDEC-mandated Cumulative CVOC concentration of 1 milligram per liter (mg/L) or part per million (ppm)

Qualifiers: ND = Not Detected

NA = Not Analyzed

J= Estimated concentration below reporting limit

D= Diluted sample

U= Undetected

Note: CVOCs are the sum of PCE and its potential breakdown products (TCE, cis -1,2-DCE, trans-1,2-DCE, 1,1-DCE, 1,1-DCA, and Vinyl Chloride)

CVOCs:

TCE = trichloroethylene; 1,2,3-Trichloroethylene

cis-1,2-Dichloroethene = cis-Acetylene dichloride; cis-1,2-Dichloroethylene, cis-1,2 DCE

trans-1,2-DCE = Ethylene, 1,2-dichloro-, (E)-;(E)-1,2-Dichloroethylene;trans-Di-1,2-Chloroethylene;trans-1,2-Dichloroethene;trans-1,2-Dichloroethylene;(E)-CHCl=CHCl; 1,2-trans-Dichloroethene;(E)-1,2-Dichloroethene;1,2-trans-Dichloroethylene;trans-Acetylene dichloride;trans-Dichloroethylene;Acetylene dichloride, trans-Dichloroethylene, trans-1,trans-2-Dichloroethene

Vinyl chloride = VCM,Chloroethylene, chloroethene

PCE = tetrachloroethene, tetrachloroethylene

APPENDIX B – IC/EC CERTIFICATIONS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

625 Broadway, 11th Floor, Albany, NY 12233-7020

P: (518)402-9543 | F: (518)402-9547

www.dec.ny.gov

12/30/2019

Richard And Margaret Wieczorek

Owner

795 Choctaw Lane

Shalimar, FL 32579

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal

Site Name: Former Pizza Hut

Site No.: V00370

Site Address: 2137 Seneca Street
Buffalo, NY 14210

Dear Richard And Margaret Wieczorek:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site-specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at <http://www.dec.ny.gov/regulations/67386.html>) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **February 28, 2020**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Professional Engineer (PE). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.



Department of
Environmental
Conservation

All site-related documents and data, including the PRR, are to be submitted in electronic format to the Department of Environmental Conservation. The required format for documents is an Adobe PDF file with optical character recognition and no password protection. Data must be submitted as an electronic data deliverable (EDD) according to the instructions on the following webpage:

<https://www.dec.ny.gov/chemical/62440.html>

Documents may be submitted to the project manager either through electronic mail or by using the Department's file transfer service at the following webpage:

<https://fts.dec.state.ny.us/fts/>

The Department will not approve the PRR unless all documents and data generated in support of the PRR has been submitted using the required formats and protocols.

You may contact Megan Kuczka, the Project Manager, at 716-851-7220 or megan.kuczka@dec.ny.gov with any questions or concerns about the site. Please notify the project manager before conducting inspections and field work. You may also write the project manager at the following address:

New York State Department of Environmental Conservation
270 Michigan Ave
Buffalo, NY 14203-2915

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/ enclosures

Megan Kuczka, Project Manager

APPENDIX B-1 – OWNER CERTIFICATION

Mr. Andrew KUCSERIK 1-716-272-7210



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

**Site Details****Box 1****Site No.** V00370**Site Name** Former Pizza Hut

Site Address: 2137 Seneca Street **Zip Code:** 14210
City/Town: Buffalo
County: Erie
Site Acreage: 0.660

Reporting Period: JJanuary 29, 2019 to January 29, 2020

YES NO

1. Is the information above correct?

☒ ☐

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

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

☐ ☒

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

☐ ☒

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

☐ ☒

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

5. Is the site currently undergoing development?

☐ ☒**Box 2**

YES NO

6. Is the current site use consistent with the use(s) listed below?
Commercial and Industrial☒ ☐

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

☒ ☐

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

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

Richard M. Wieczorek
 Signature of Owner, Remedial Party or Designated Representative

2/21/2020
 Date

Description of Institutional ControlsParcelOwnerInstitutional Control**133.26-07-1.1**

Richard and Margaret Wieczorek

Monitoring Plan
Ground Water Use Restriction
Landuse Restriction
Site Management Plan

The Declaration of Covenants and Restrictions prohibits the site from being used for anything other than industrial or commercial purposes, excluding day care, child care and medical care uses. The use of the groundwater underlying the site is also prohibit without proper treatment.

The Site Management Plan includes provisions for continued groundwater monitoring, inspection of the existing site cover, disposition of excavated soils and evaluating the potential for intrusive soil vapors if the building on site is ever reoccupied or another building constructed in its place.

Description of Engineering ControlsParcelEngineering Control**133.26-07-1.1**

Cover System

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

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

YES NO

☒ ☐

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

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

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

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

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

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

YES NO

☒ ☐

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

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

Richard M. Wieczorek
Signature of Owner, Remedial Party or Designated Representative

2/21/2020
Date

**IC CERTIFICATIONS
SITE NO. V00370****Box 6****SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE**

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

I Richard Wieczorek at 2137 Seneca Street, Buffalo, NY 14210
print name print business address

am certifying as Richard and Margaret Wieczorek (Owner or Remedial Party)

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

Richard M. Wieczorek
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

2/21/2020
Date

IC/EC CERTIFICATIONS

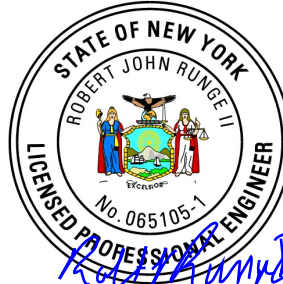
Box 7

Professional Engineer Signature

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

I Robert J Runge II at 21 Mechanic St Springville NY 14141,
print name print business address

am certifying as a Professional Engineer for the Richard & Margaret Wieczorek
(Owner or Remedial Party)



Robert J Runge II
Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification

Robert J Runge II
Stamp
(Required for PE)

2020-02-28
Date

APPENDIX B-2 – SITE INSPECTION FORMS

**INSPECTION FORM
COVER SYSTEM**

Inspector's Name Andrew J. Kucserik / Encorus Group
Date and Time of Inspection January 14, 2020; 9:00 AM
Date of Last Inspection January 09, 2019
Purpose for Inspection: Annual/Periodic: Annual
Post-excavation or surface repair: _____
After significant weather events: _____
Observed damage requiring inspection / Other: _____

INSPECTION CHECKLIST

1. Vegetative cover along Kingston Place

Walk the length of the vegetative cover.

Comments

- Are there any bare spots in the vegetation cover? ☐ Yes ☒ No _____
- Are there any signs of damaged or diseased vegetation? ☒ Yes ☐ No Some damaged bushes along Seneca St.
- Are there any signs of excessive erosion? ☐ Yes ☒ No _____
- Is there new root exposure or new woody plants established? ☐ Yes ☒ No _____
- Are there any signs of burrowing animals? ☐ Yes ☒ No _____
- Any other Observations? _____

2. Sidewalk along Kingston Place and Seneca Street, walkways around building, Asphalt pavement associated with parking lot and access way to road

Walk the length of the sidewalks.

Comments

- Are there any cracks greater than 1/2-inch apart? ☐ Yes ☒ No _____
- Are there any signs of raised pavement associated with plant roots or subsurface subsidence? ☐ Yes ☒ No _____
- Are there any signs of extensive deterioration of pavement? ☐ Yes ☒ No _____
- Any other Observations? _____

3. Remedial Action Required The damaged bushes should be replaced as part of the cover system.

4. Inspector's Signature Andrew J. Kucserik

RETURN COMPLETED FORM TO PROPERTY OWNER REPRESENTATIVE

Well Data Sheet

Job Name/Number: Parcel 2 – 2137 Seneca Street / VCA 00370-9 Location Buffalo, NY
Monitoring Well Identification MW -2 Sampling Order: #1

WELL INSPECTION:

1. Reported Total Well Depth(ft.) 17±
2. Measured Total Well Depth(ft.): 17.08
3. Sediment Thickness (ft.): 0.5 (if thickness is greater than 2 feet, redevelop well)
4. Is the flush-mounted well protector attached and properly sealed? Yes (if no, then repair/replace)
5. Is there water present in the well protector vault? No (if yes, then evaluate source of leak and repair)
6. Is well locking cap locked and sealed? Yes (if no, then correct accordingly).
7. Can downhole equipment be lowered to well bottom? Yes (if no, then evaluate whether well requires redevelopment, repair, or decommissioning).

LIQUID LEVEL DATA

Date/Time 01 /14 /2020

Measured By Andrew J. Kucserik

1. Reported Total Well Depth(ft.) 17.08
2. Depth to Water(ft.): 6.40
3. Thickness of Liquid Column(ft.): 10.68
4. Conversion Coefficient from thickness to purge volume: x 0.50 gal/ft. (use 0.125 for 1-inch well)
5. Calculated Purge Volume (3 well volumes): 5±

PURGE AND SAMPLE DATA

Date/Time 01 /14 /2020

Sampled By Andrew J. Kucserik

Photo Ionization Detector Reading NA

Calibration of pH meter in Field 4pH 7pH 10pH not done

Final volume of water purged (gal) 5± Did well go dry No Time to recover 1.5± hrs.

Field pH measurements (units) _____

Field Conductivity (umhos/cm) _____

Field Temperature meas (°F) _____

Field ORP measurements (mV) _____

Sample Odor and Color: No odor; clear yellow color

Sample Sediment Content Not observable

Weather Conditions Sunny, 40F

Were Sampling Splits or Duplicates collected at this well: No

Samples Shipped To Alpha Analytical Date Samples were shipped 01/14/2020

Method of Shipment- Fedex _____ Hand Delivered X Other _____

COMMENTS:

Well Data Sheet

Job Name/Number: Parcel 2 – 2137 Seneca Street / VCA 00370-9 Location Buffalo, NY
Monitoring Well Identification MW -4 Sampling Order: #2

WELL INSPECTION:

1. Reported Total Well Depth(ft.) 17±
2. Measured Total Well Depth(ft.): 16.90
3. Sediment Thickness (ft.): 0.1 (if thickness is greater than 2 feet, redevelop well)
4. Is the flush-mounted well protector attached and properly sealed? Yes (if no, then repair/replace)
5. Is there water present in the well protector vault? No (if yes, then evaluate source of leak and repair)
6. Is well locking cap locked and sealed? Yes (if no, then correct accordingly).
7. Can downhole equipment be lowered to well bottom? Yes (if no, then evaluate whether well requires redevelopment, repair, or decommissioning).

LIQUID LEVEL DATA

Date/Time 01 /14 /2020

Measured By Andrew J. Kucserik

1. Reported Total Well Depth(ft.) 16.90
2. Depth to Water(ft.): 5.75
3. Thickness of Liquid Column(ft.): 11.15
4. Conversion Coefficient from thickness to purge volume: x 0.50 gal/ft. (use 0.125 for 1-inch well)
5. Calculated Purge Volume (3 well volumes): 5±

PURGE AND SAMPLE DATA

Date/Time 01 /14 /2020

Sampled By Andrew J. Kucserik

Photo Ionization Detector Reading NA

Calibration of pH meter in Field 4pH 7pH 10pH not done

Final volume of water purged (gal) 5± Did well go dry No Time to recover 1.25± hrs.

Field pH measurements (units) _____

Field Conductivity (umhos/cm) _____

Field Temperature meas (°F) _____

Field ORP measurements (mV) _____

Sample Odor and Color: No odor; cloudy gray-black color

Sample Sediment Content Not observable

Weather Conditions Sunny, 40F

Were Sampling Splits or Duplicates collected at this well: Yes (Duplicate)

Samples Shipped To Alpha Analytical Date Samples were shipped 01/14/2020

Method of Shipment- Fedex _____ Hand Delivered X Other _____

COMMENTS:

Well Data Sheet

Job Name/Number: Parcel 2 – 2137 Seneca Street / VCA 00370-9 Location Buffalo, NY
Monitoring Well Identification MW -4A Sampling Order: #3

WELL INSPECTION:

1. Reported Total Well Depth(ft.) 26.5±
2. Measured Total Well Depth(ft.): 26.73
3. Sediment Thickness (ft.): <0.1 (if thickness is greater than 2 feet, redevelop well)
4. Is the flush-mounted well protector attached and properly sealed? Yes (if no, then repair/replace)
5. Is there water present in the well protector vault? No (if yes, then evaluate source of leak and repair)
6. Is well locking cap locked and sealed? Yes (if no, then correct accordingly).
7. Can downhole equipment be lowered to well bottom? Yes (if no, then evaluate whether well requires redevelopment, repair, or decommissioning).

LIQUID LEVEL DATA

Date/Time 01 /14 /2020

Measured By Andrew J. Kucserik

1. Reported Total Well Depth(ft.) 26.73
2. Depth to Water(ft.): 7.55
3. Thickness of Liquid Column(ft.): 19.18
4. Conversion Coefficient from thickness to purge volume: x 0.50 gal/ft. (use 0.125 for 1-inch well)
5. Calculated Purge Volume (3 well volumes): 9±

PURGE AND SAMPLE DATA

Date/Time 01 /14 /2020

Sampled By Andrew J. Kucserik

Photo Ionization Detector Reading NA

Calibration of pH meter in Field 4pH 7pH 10pH not done

Final volume of water purged (gal) 8± Did well go dry No Time to recover 1.25± hrs.

Field pH measurements (units) _____

Field Conductivity (umhos/cm) _____

Field Temperature meas (°F) _____

Field ORP measurements (mV) _____

Sample Odor and Color: No odor; cloudy gray-black color

Sample Sediment Content Not observable

Weather Conditions Sunny, 40F

Were Sampling Splits or Duplicates collected at this well: No

Samples Shipped To Alpha Analytical Date Samples were shipped 01/14/2020

Method of Shipment- Fedex _____ Hand Delivered X Other _____

COMMENTS:

Well Data Sheet

Job Name/Number: Parcel 2 – 2137 Seneca Street / VCA 00370-9 Location Buffalo, NY
Monitoring Well Identification MW -11 Sampling Order: #4

WELL INSPECTION:

1. Reported Total Well Depth(ft.) 17±
2. Measured Total Well Depth(ft.): 16.90
3. Sediment Thickness (ft.): <0.1 (if thickness is greater than 2 feet, redevelop well)
4. Is the flush-mounted well protector attached and properly sealed? Yes (if no, then repair/replace)
5. Is there water present in the well protector vault? No (if yes, then evaluate source of leak and repair)
6. Is well locking cap locked and sealed? Yes (if no, then correct accordingly).
7. Can downhole equipment be lowered to well bottom? Yes (if no, then evaluate whether well requires redevelopment, repair, or decommissioning).

LIQUID LEVEL DATA

Date/Time 01 /14 /2020

Measured By Andrew J. Kucserik

1. Reported Total Well Depth(ft.) 16.90
2. Depth to Water(ft.): 6.28
3. Thickness of Liquid Column(ft.): 10.62
4. Conversion Coefficient from thickness to purge volume: x 0.50 gal/ft. (use 0.125 for 1-inch well)
5. Calculated Purge Volume (3 well volumes): 5±

PURGE AND SAMPLE DATA

Date/Time 01 /14 /2020

Sampled By Andrew J. Kucserik

Photo Ionization Detector Reading NA

Calibration of pH meter in Field 4pH 7pH 10pH not done

Final volume of water purged (gal) 5± Did well go dry No Time to recover 1± hrs.

Field pH measurements (units) _____

Field Conductivity (umhos/cm) _____

Field Temperature meas (°F) _____

Field ORP measurements (mV) _____

Sample Odor and Color: No odor; cloudy rusty color

Sample Sediment Content Not observable

Weather Conditions Sunny, 40F

Were Sampling Splits or Duplicates collected at this well: No

Samples Shipped To Alpha Analytical Date Samples were shipped 01/14/2020

Method of Shipment- Fedex _____ Hand Delivered X Other _____

COMMENTS:

Well Data Sheet

Job Name/Number: Parcel 2 – 2137 Seneca Street / VCA 00370-9 Location Buffalo, NY
Monitoring Well Identification MW -13 Sampling Order: #5

WELL INSPECTION:

1. Reported Total Well Depth(ft.) 17±
2. Measured Total Well Depth(ft.): 17.03
3. Sediment Thickness (ft.): <0.1 (if thickness is greater than 2 feet, redevelop well)
4. Is the flush-mounted well protector attached and properly sealed? Yes (if no, then repair/replace)
5. Is there water present in the well protector vault? No (if yes, then evaluate source of leak and repair)
6. Is well locking cap locked and sealed? Yes (if no, then correct accordingly).
7. Can downhole equipment be lowered to well bottom? Yes (if no, then evaluate whether well requires redevelopment, repair, or decommissioning).

LIQUID LEVEL DATA

Date/Time 01 /14 /2020

Measured By Andrew J. Kucserik

1. Reported Total Well Depth(ft.) 17.03
2. Depth to Water(ft.): 6.07
3. Thickness of Liquid Column(ft.): 10.96
4. Conversion Coefficient from thickness to purge volume: x 0.50 gal/ft. (use 0.125 for 1-inch well)
5. Calculated Purge Volume (3 well volumes): 5±

PURGE AND SAMPLE DATA

Date/Time 01 /14 /2020

Sampled By Andrew J. Kucserik

Photo Ionization Detector Reading NA

Calibration of pH meter in Field 4pH 7pH 10pH not done

Final volume of water purged (gal) 5± Did well go dry No Time to recover 1± hrs.

Field pH measurements (units) _____

Field Conductivity (umhos/cm) _____

Field Temperature meas (°F) _____

Field ORP measurements (mV) _____

Sample Odor and Color: No odor; cloudy rusty color

Sample Sediment Content Not observable

Weather Conditions Sunny, 40F

Were Sampling Splits or Duplicates collected at this well: No

Samples Shipped To Alpha Analytical Date Samples were shipped 01/14/2020

Method of Shipment- Fedex _____ Hand Delivered X Other _____

COMMENTS:

Well Data Sheet

Job Name/Number: Parcel 2 – 2137 Seneca Street / VCA 00370-9 Location Buffalo, NY
Monitoring Well Identification MW -PZA Sampling Order: #6

WELL INSPECTION:

1. Reported Total Well Depth(ft.) 15±
2. Measured Total Well Depth(ft.): 14.78
3. Sediment Thickness (ft.): <0.1 (if thickness is greater than 2 feet, redevelop well)
4. Is the flush-mounted well protector attached and properly sealed? Yes (if no, then repair/replace)
5. Is there water present in the well protector vault? No (if yes, then evaluate source of leak and repair)
6. Is well locking cap locked and sealed? Yes (if no, then correct accordingly).
7. Can downhole equipment be lowered to well bottom? Yes (if no, then evaluate whether well requires redevelopment, repair, or decommissioning).

LIQUID LEVEL DATA

Date/Time 01 /14 /2020

Measured By Andrew J. Kucserik

1. Reported Total Well Depth(ft.) 14.78
2. Depth to Water(ft.): 5.10
3. Thickness of Liquid Column(ft.): 9.68
4. Conversion Coefficient from thickness to purge volume: x 0.50 gal/ft. (use 0.125 for 1-inch well)
5. Calculated Purge Volume (3 well volumes): 5±

PURGE AND SAMPLE DATA

Date/Time 01 /14 /2020

Sampled By Andrew J. Kucserik

Photo Ionization Detector Reading NA

Calibration of pH meter in Field 4pH 7pH 10pH not done

Final volume of water purged (gal) 4.5± Did well go dry No Time to recover 1± hrs.

Field pH measurements (units) _____

Field Conductivity (umhos/cm) _____

Field Temperature meas (°F) _____

Field ORP measurements (mV) _____

Sample Odor and Color: No odor; cloudy rusty color

Sample Sediment Content Not observable

Weather Conditions Sunny, 40F

Were Sampling Splits or Duplicates collected at this well: No

Samples Shipped To Alpha Analytical Date Samples were shipped 01/14/2020

Method of Shipment- Fedex _____ Hand Delivered X Other _____

COMMENTS:

APPENDIX C – ANALYTICAL DATA



ANALYTICAL REPORT

Lab Number:	L2001772
Client:	Encorus Group 2745 Broadway Suite 10 Cheektowaga, NY 14227
ATTN:	Andrew Kucserik
Phone:	(716) 592-3980
Project Name:	GROUNDWATER PROGRAM
Project Number:	GROUNDWATER PROGRAM
Report Date:	01/20/20

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

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

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



Project Name: GROUNDWATER PROGRAM
Project Number: GROUNDWATER PROGRAM

Lab Number: L2001772
Report Date: 01/20/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2001772-01	WELL MW-2	WATER	2137 SENECA ST., BUFFALO, NY	01/14/20 13:30	01/14/20
L2001772-02	WELL MW-4	WATER	2137 SENECA ST., BUFFALO, NY	01/14/20 13:42	01/14/20
L2001772-03	WELL MW-4A	WATER	2137 SENECA ST., BUFFALO, NY	01/14/20 13:50	01/14/20
L2001772-04	WELL MW-11	WATER	2137 SENECA ST., BUFFALO, NY	01/14/20 14:12	01/14/20
L2001772-05	WELL MW-13	WATER	2137 SENECA ST., BUFFALO, NY	01/14/20 14:20	01/14/20
L2001772-06	WELL PZA	WATER	2137 SENECA ST., BUFFALO, NY	01/14/20 14:31	01/14/20
L2001772-07	DUPLICATE	WATER	2137 SENECA ST., BUFFALO, NY	01/14/20 14:02	01/14/20
L2001772-08	TRIP BLANK	WATER	2137 SENECA ST., BUFFALO, NY	01/14/20 13:27	01/14/20

Project Name: GROUNDWATER PROGRAM
Project Number: GROUNDWATER PROGRAM

Lab Number: L2001772
Report Date: 01/20/20

Case Narrative

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

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

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

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

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

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

Project Name: GROUNDWATER PROGRAM
Project Number: GROUNDWATER PROGRAM

Lab Number: L2001772
Report Date: 01/20/20

Case Narrative (continued)

Report Submission

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


Volatile Organics

L2001772-07: Differences were noted between the results of the analyses which have been attributed to vial discrepancies. Further re-analysis could not be performed due to the existing vials being compromised.

L2001772-08: The Trip Blank has a result for acetone present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

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

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 01/20/20

ORGANICS

VOLATILES

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGI**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-01
 Client ID: WELL MW-2
 Sample Location: 2137 SENECA ST., BUFFALO, NY

Date Collected: 01/14/20 13:30
 Date Received: 01/14/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 01/16/20 14:28
 Analyst: AD

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	0.08	J	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	0.40	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGI**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-01

Date Collected: 01/14/20 13:30

Client ID: WELL MW-2

Date Received: 01/14/20

Sample Location: 2137 SENECA ST., BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.3	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	98		70-130

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGI**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-02 D
 Client ID: WELL MW-4
 Sample Location: 2137 SENECA ST., BUFFALO, NY

Date Collected: 01/14/20 13:42
 Date Received: 01/14/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 01/16/20 15:37
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	50	14.	20
1,1-Dichloroethane	ND		ug/l	50	14.	20
Chloroform	ND		ug/l	50	14.	20
Carbon tetrachloride	ND		ug/l	10	2.7	20
1,2-Dichloropropane	ND		ug/l	20	2.7	20
Dibromochloromethane	ND		ug/l	10	3.0	20
1,1,2-Trichloroethane	ND		ug/l	30	10.	20
Tetrachloroethene	ND		ug/l	10	3.6	20
Chlorobenzene	ND		ug/l	50	14.	20
Trichlorofluoromethane	ND		ug/l	50	14.	20
1,2-Dichloroethane	ND		ug/l	10	2.6	20
1,1,1-Trichloroethane	ND		ug/l	50	14.	20
Bromodichloromethane	ND		ug/l	10	3.8	20
trans-1,3-Dichloropropene	ND		ug/l	10	3.3	20
cis-1,3-Dichloropropene	ND		ug/l	10	2.9	20
Bromoform	ND		ug/l	40	13.	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	3.3	20
Benzene	ND		ug/l	10	3.2	20
Toluene	ND		ug/l	50	14.	20
Ethylbenzene	ND		ug/l	50	14.	20
Chloromethane	ND		ug/l	50	14.	20
Bromomethane	ND		ug/l	50	14.	20
Vinyl chloride	1400		ug/l	20	1.4	20
Chloroethane	ND		ug/l	50	14.	20
1,1-Dichloroethene	ND		ug/l	10	3.4	20
trans-1,2-Dichloroethene	ND		ug/l	50	14.	20
Trichloroethene	ND		ug/l	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGI**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-02 D
 Client ID: WELL MW-4
 Sample Location: 2137 SENECA ST., BUFFALO, NY

Date Collected: 01/14/20 13:42
 Date Received: 01/14/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	50	14.	20
1,4-Dichlorobenzene	ND		ug/l	50	14.	20
Methyl tert butyl ether	ND		ug/l	50	14.	20
p/m-Xylene	ND		ug/l	50	14.	20
o-Xylene	ND		ug/l	50	14.	20
cis-1,2-Dichloroethene	1900		ug/l	50	14.	20
Styrene	ND		ug/l	50	14.	20
Dichlorodifluoromethane	ND		ug/l	100	20.	20
Acetone	ND		ug/l	100	29.	20
Carbon disulfide	ND		ug/l	100	20.	20
2-Butanone	ND		ug/l	100	39.	20
4-Methyl-2-pentanone	ND		ug/l	100	20.	20
2-Hexanone	ND		ug/l	100	20.	20
Bromochloromethane	ND		ug/l	50	14.	20
1,2-Dibromoethane	ND		ug/l	40	13.	20
1,2-Dibromo-3-chloropropane	ND		ug/l	50	14.	20
Isopropylbenzene	ND		ug/l	50	14.	20
1,2,3-Trichlorobenzene	ND		ug/l	50	14.	20
1,2,4-Trichlorobenzene	ND		ug/l	50	14.	20
Methyl Acetate	ND		ug/l	40	4.7	20
Cyclohexane	ND		ug/l	200	5.4	20
1,4-Dioxane	ND		ug/l	5000	1200	20
Freon-113	ND		ug/l	50	14.	20
Methyl cyclohexane	ND		ug/l	200	7.9	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	101		70-130

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGI**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-03
 Client ID: WELL MW-4A
 Sample Location: 2137 SENECA ST., BUFFALO, NY

Date Collected: 01/14/20 13:50
 Date Received: 01/14/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 01/16/20 14:51
 Analyst: AD

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	2.8		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGI**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-03
 Client ID: WELL MW-4A
 Sample Location: 2137 SENECA ST., BUFFALO, NY

Date Collected: 01/14/20 13:50
 Date Received: 01/14/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	0.99	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.7	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	98		70-130

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGI**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-04 D
 Client ID: WELL MW-11
 Sample Location: 2137 SENECA ST., BUFFALO, NY

Date Collected: 01/14/20 14:12
 Date Received: 01/14/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 01/16/20 16:01
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough 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	ND		ug/l	12	3.5	5
Ethylbenzene	ND		ug/l	12	3.5	5
Chloromethane	ND		ug/l	12	3.5	5
Bromomethane	ND		ug/l	12	3.5	5
Vinyl chloride	570		ug/l	5.0	0.36	5
Chloroethane	ND		ug/l	12	3.5	5
1,1-Dichloroethene	0.86	J	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: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGI**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-04 D
 Client ID: WELL MW-11
 Sample Location: 2137 SENECA ST., BUFFALO, NY

Date Collected: 01/14/20 14:12
 Date Received: 01/14/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	12	3.5	5
1,4-Dichlorobenzene	ND		ug/l	12	3.5	5
Methyl tert butyl ether	ND		ug/l	12	3.5	5
p/m-Xylene	ND		ug/l	12	3.5	5
o-Xylene	ND		ug/l	12	3.5	5
cis-1,2-Dichloroethene	540		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	ND		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
1,2-Dibromo-3-chloropropane	ND		ug/l	12	3.5	5
Isopropylbenzene	ND		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
Methyl Acetate	ND		ug/l	10	1.2	5
Cyclohexane	ND		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	ND		ug/l	50	2.0	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	101		70-130

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROG**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-05
 Client ID: WELL MW-13
 Sample Location: 2137 SENECA ST., BUFFALO, NY

Date Collected: 01/14/20 14:20
 Date Received: 01/14/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 01/16/20 15:14
 Analyst: AD

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	1.1	J	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	4.8		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	0.39	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGI**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-05
 Client ID: WELL MW-13
 Sample Location: 2137 SENECA ST., BUFFALO, NY

Date Collected: 01/14/20 14:20
 Date Received: 01/14/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	5.0		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	13		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	3.0	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	99		70-130

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGI**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-06 D
 Client ID: WELL PZA
 Sample Location: 2137 SENECA ST., BUFFALO, NY

Date Collected: 01/14/20 14:31
 Date Received: 01/14/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 01/16/20 16:24
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	50	14.	20
1,1-Dichloroethane	ND		ug/l	50	14.	20
Chloroform	ND		ug/l	50	14.	20
Carbon tetrachloride	ND		ug/l	10	2.7	20
1,2-Dichloropropane	ND		ug/l	20	2.7	20
Dibromochloromethane	ND		ug/l	10	3.0	20
1,1,2-Trichloroethane	ND		ug/l	30	10.	20
Tetrachloroethene	ND		ug/l	10	3.6	20
Chlorobenzene	ND		ug/l	50	14.	20
Trichlorofluoromethane	ND		ug/l	50	14.	20
1,2-Dichloroethane	ND		ug/l	10	2.6	20
1,1,1-Trichloroethane	ND		ug/l	50	14.	20
Bromodichloromethane	ND		ug/l	10	3.8	20
trans-1,3-Dichloropropene	ND		ug/l	10	3.3	20
cis-1,3-Dichloropropene	ND		ug/l	10	2.9	20
Bromoform	ND		ug/l	40	13.	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	3.3	20
Benzene	ND		ug/l	10	3.2	20
Toluene	ND		ug/l	50	14.	20
Ethylbenzene	ND		ug/l	50	14.	20
Chloromethane	ND		ug/l	50	14.	20
Bromomethane	ND		ug/l	50	14.	20
Vinyl chloride	1300		ug/l	20	1.4	20
Chloroethane	ND		ug/l	50	14.	20
1,1-Dichloroethene	ND		ug/l	10	3.4	20
trans-1,2-Dichloroethene	ND		ug/l	50	14.	20
Trichloroethene	ND		ug/l	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGI**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-06 D
 Client ID: WELL PZA
 Sample Location: 2137 SENECA ST., BUFFALO, NY

Date Collected: 01/14/20 14:31
 Date Received: 01/14/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	50	14.	20
1,4-Dichlorobenzene	ND		ug/l	50	14.	20
Methyl tert butyl ether	ND		ug/l	50	14.	20
p/m-Xylene	ND		ug/l	50	14.	20
o-Xylene	ND		ug/l	50	14.	20
cis-1,2-Dichloroethene	1800		ug/l	50	14.	20
Styrene	ND		ug/l	50	14.	20
Dichlorodifluoromethane	ND		ug/l	100	20.	20
Acetone	ND		ug/l	100	29.	20
Carbon disulfide	ND		ug/l	100	20.	20
2-Butanone	ND		ug/l	100	39.	20
4-Methyl-2-pentanone	ND		ug/l	100	20.	20
2-Hexanone	ND		ug/l	100	20.	20
Bromochloromethane	ND		ug/l	50	14.	20
1,2-Dibromoethane	ND		ug/l	40	13.	20
1,2-Dibromo-3-chloropropane	ND		ug/l	50	14.	20
Isopropylbenzene	ND		ug/l	50	14.	20
1,2,3-Trichlorobenzene	ND		ug/l	50	14.	20
1,2,4-Trichlorobenzene	ND		ug/l	50	14.	20
Methyl Acetate	ND		ug/l	40	4.7	20
Cyclohexane	ND		ug/l	200	5.4	20
1,4-Dioxane	ND		ug/l	5000	1200	20
Freon-113	ND		ug/l	50	14.	20
Methyl cyclohexane	ND		ug/l	200	7.9	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	101		70-130

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGI**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-07 D
 Client ID: DUPLICATE
 Sample Location: 2137 SENECA ST., BUFFALO, NY

Date Collected: 01/14/20 14:02
 Date Received: 01/14/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 01/16/20 11:44
 Analyst: NLK

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

Vinyl chloride	1200		ug/l	20	1.4	20
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	96		70-130

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGI**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-07 D
 Client ID: DUPLICATE
 Sample Location: 2137 SENECA ST., BUFFALO, NY

Date Collected: 01/14/20 14:02
 Date Received: 01/14/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 01/17/20 10:15
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	2200	E	ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	3.1	J	ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGI**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-07 D
 Client ID: DUPLICATE
 Sample Location: 2137 SENECA ST., BUFFALO, NY

Date Collected: 01/14/20 14:02
 Date Received: 01/14/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	2000		ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGI**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-08
 Client ID: TRIP BLANK
 Sample Location: 2137 SENECA ST., BUFFALO, NY

Date Collected: 01/14/20 13:27
 Date Received: 01/14/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 01/16/20 11:20
 Analyst: PD

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

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGI**Report Date:** 01/20/20**SAMPLE RESULTS**

Lab ID: L2001772-08

Date Collected: 01/14/20 13:27

Client ID: TRIP BLANK

Date Received: 01/14/20

Sample Location: 2137 SENECA ST., BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	17		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	96		70-130

Project Name: GROUNDWATER PROGRAM
Project Number: GROUNDWATER PROGRAM

Lab Number: L2001772
Report Date: 01/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 01/16/20 08:17
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1330810-5					
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: GROUNDWATER PROGRAM
Project Number: GROUNDWATER PROGRAM

Lab Number: L2001772
Report Date: 01/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 01/16/20 08:17
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1330810-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: GROUNDWATER PROGRAM
Project Number: GROUNDWATER PROGRAM

Lab Number: L2001772
Report Date: 01/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 01/16/20 08:17
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1330810-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	95		70-130

Project Name: GROUNDWATER PROGRAM
Project Number: GROUNDWATER PROGRAM

Lab Number: L2001772
Report Date: 01/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/16/20 09:45
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG1330894-5					
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: GROUNDWATER PROGRAM

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Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 01/16/20 09:45
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG1330894-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	2.1	J	ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: GROUNDWATER PROGRAM
Project Number: GROUNDWATER PROGRAM

Lab Number: L2001772
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 01/16/20 09:45
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG1330894-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	94		70-130

Project Name: GROUNDWATER PROGRAM

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Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
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 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1331230-5					
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: GROUNDWATER PROGRAM

Lab Number: L2001772

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Report Date: 01/20/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 01/17/20 08:23
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1331230-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: GROUNDWATER PROGRAM
Project Number: GROUNDWATER PROGRAM

Lab Number: L2001772
Report Date: 01/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 01/17/20 08:23
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1331230-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROUNDWATER PROGRAM

Project Number: GROUNDWATER PROGRAM

Lab Number: L2001772

Report Date: 01/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1330810-3 WG1330810-4								
Methylene chloride	95		94		70-130	1		20
1,1-Dichloroethane	98		98		70-130	0		20
Chloroform	96		93		70-130	3		20
Carbon tetrachloride	96		93		63-132	3		20
1,2-Dichloropropane	92		91		70-130	1		20
Dibromochloromethane	82		78		63-130	5		20
1,1,2-Trichloroethane	93		90		70-130	3		20
Tetrachloroethene	100		96		70-130	4		20
Chlorobenzene	96		94		75-130	2		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	86		86		70-130	0		20
1,1,1-Trichloroethane	100		98		67-130	2		20
Bromodichloromethane	80		80		67-130	0		20
trans-1,3-Dichloropropene	80		77		70-130	4		20
cis-1,3-Dichloropropene	84		81		70-130	4		20
Bromoform	82		77		54-136	6		20
1,1,2,2-Tetrachloroethane	94		88		67-130	7		20
Benzene	99		97		70-130	2		20
Toluene	97		94		70-130	3		20
Ethylbenzene	98		95		70-130	3		20
Chloromethane	130		130		64-130	0		20
Bromomethane	140	Q	140	Q	39-139	0		20
Vinyl chloride	130		120		55-140	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROUNDWATER PROGRAM

Project Number: GROUNDWATER PROGRAM

Lab Number: L2001772

Report Date: 01/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1330810-3 WG1330810-4								
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	110		100		61-145	10		20
trans-1,2-Dichloroethene	100		99		70-130	1		20
Trichloroethene	94		90		70-130	4		20
1,2-Dichlorobenzene	94		92		70-130	2		20
1,3-Dichlorobenzene	95		93		70-130	2		20
1,4-Dichlorobenzene	94		93		70-130	1		20
Methyl tert butyl ether	92		87		63-130	6		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	95		97		70-130	2		20
Styrene	100		95		70-130	5		20
Dichlorodifluoromethane	180	Q	180	Q	36-147	0		20
Acetone	85		84		58-148	1		20
Carbon disulfide	100		98		51-130	2		20
2-Butanone	90		88		63-138	2		20
4-Methyl-2-pentanone	81		73		59-130	10		20
2-Hexanone	74		69		57-130	7		20
Bromochloromethane	99		100		70-130	1		20
1,2-Dibromoethane	91		86		70-130	6		20
1,2-Dibromo-3-chloropropane	78		71		41-144	9		20
Isopropylbenzene	100		96		70-130	4		20
1,2,3-Trichlorobenzene	91		86		70-130	6		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: GROUNDWATER PROGRAM

Lab Number: L2001772

Project Number: GROUNDWATER PROGRAM

Report Date: 01/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1330810-3 WG1330810-4								
1,2,4-Trichlorobenzene	94		88		70-130	7		20
Methyl Acetate	89		90		70-130	1		20
Cyclohexane	100		100		70-130	0		20
1,4-Dioxane	88		82		56-162	7		20
Freon-113	110		110		70-130	0		20
Methyl cyclohexane	100		99		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		96		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	99		101		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: GROUNDWATER PROGRAM

Lab Number: L2001772

Project Number: GROUNDWATER PROGRAM

Report Date: 01/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG1330894-3 WG1330894-4								
Methylene chloride	86		88		70-130	2		20
1,1-Dichloroethane	86		86		70-130	0		20
Chloroform	87		81		70-130	7		20
Carbon tetrachloride	88		88		63-132	0		20
1,2-Dichloropropane	81		81		70-130	0		20
Dibromochloromethane	82		81		63-130	1		20
1,1,2-Trichloroethane	85		85		70-130	0		20
Tetrachloroethene	90		90		70-130	0		20
Chlorobenzene	86		86		75-130	0		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	81		82		70-130	1		20
1,1,1-Trichloroethane	87		86		67-130	1		20
Bromodichloromethane	80		81		67-130	1		20
trans-1,3-Dichloropropene	78		78		70-130	0		20
cis-1,3-Dichloropropene	76		76		70-130	0		20
Bromoform	80		83		54-136	4		20
1,1,2,2-Tetrachloroethane	81		82		67-130	1		20
Benzene	85		85		70-130	0		20
Toluene	88		85		70-130	3		20
Ethylbenzene	86		85		70-130	1		20
Chloromethane	100		100		64-130	0		20
Bromomethane	100		110		39-139	10		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis Batch Quality Control

Project Name: GROUNDWATER PROGRAM

Lab Number: L2001772

Project Number: GROUNDWATER PROGRAM

Report Date: 01/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG1330894-3 WG1330894-4								
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	92		92		61-145	0		20
trans-1,2-Dichloroethene	88		86		70-130	2		20
Trichloroethene	86		86		70-130	0		20
1,2-Dichlorobenzene	82		83		70-130	1		20
1,3-Dichlorobenzene	84		84		70-130	0		20
1,4-Dichlorobenzene	84		84		70-130	0		20
Methyl tert butyl ether	84		84		63-130	0		20
p/m-Xylene	90		85		70-130	6		20
o-Xylene	85		85		70-130	0		20
cis-1,2-Dichloroethene	85		86		70-130	1		20
Styrene	85		85		70-130	0		20
Dichlorodifluoromethane	120		120		36-147	0		20
Acetone	120		120		58-148	0		20
Carbon disulfide	93		92		51-130	1		20
2-Butanone	93		90		63-138	3		20
4-Methyl-2-pentanone	83		81		59-130	2		20
2-Hexanone	81		81		57-130	0		20
Bromochloromethane	95		92		70-130	3		20
1,2-Dibromoethane	87		86		70-130	1		20
1,2-Dibromo-3-chloropropane	76		79		41-144	4		20
Isopropylbenzene	88		87		70-130	1		20
1,2,3-Trichlorobenzene	75		78		70-130	4		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: GROUNDWATER PROGRAM

Lab Number: L2001772

Project Number: GROUNDWATER PROGRAM

Report Date: 01/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG1330894-3 WG1330894-4								
1,2,4-Trichlorobenzene	79		80		70-130	1		20
Methyl Acetate	86		86		70-130	0		20
Cyclohexane	88		89		70-130	1		20
1,4-Dioxane	106		106		56-162	0		20
Freon-113	95		95		70-130	0		20
Methyl cyclohexane	86		86		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		94		70-130
Toluene-d8	96		97		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	96		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROUNDWATER PROGRAM

Project Number: GROUNDWATER PROGRAM

Lab Number: L2001772

Report Date: 01/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1331230-3 WG1331230-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	97		95		70-130	2		20
Carbon tetrachloride	88		86		63-132	2		20
1,2-Dichloropropane	100		98		70-130	2		20
Dibromochloromethane	91		93		63-130	2		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	89		88		70-130	1		20
Chlorobenzene	94		92		75-130	2		20
Trichlorofluoromethane	100		97		62-150	3		20
1,2-Dichloroethane	94		93		70-130	1		20
1,1,1-Trichloroethane	92		89		67-130	3		20
Bromodichloromethane	94		91		67-130	3		20
trans-1,3-Dichloropropene	89		90		70-130	1		20
cis-1,3-Dichloropropene	88		86		70-130	2		20
Bromoform	84		89		54-136	6		20
1,1,2,2-Tetrachloroethane	95		98		67-130	3		20
Benzene	100		98		70-130	2		20
Toluene	96		95		70-130	1		20
Ethylbenzene	94		93		70-130	1		20
Chloromethane	140	Q	130		64-130	7		20
Bromomethane	140	Q	130		39-139	7		20
Vinyl chloride	120		120		55-140	0		20

Lab Control Sample Analysis Batch Quality Control

Project Name: GROUNDWATER PROGRAM

Lab Number: L2001772

Project Number: GROUNDWATER PROGRAM

Report Date: 01/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1331230-3 WG1331230-4								
Chloroethane	130		120		55-138	8		20
1,1-Dichloroethene	110		100		61-145	10		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		98		70-130	2		20
1,2-Dichlorobenzene	93		95		70-130	2		20
1,3-Dichlorobenzene	93		95		70-130	2		20
1,4-Dichlorobenzene	92		95		70-130	3		20
Methyl tert butyl ether	85		85		63-130	0		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	99		97		70-130	2		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	86		83		36-147	4		20
Acetone	120		120		58-148	0		20
Carbon disulfide	110		100		51-130	10		20
2-Butanone	110		110		63-138	0		20
4-Methyl-2-pentanone	87		92		59-130	6		20
2-Hexanone	81		83		57-130	2		20
Bromochloromethane	98		95		70-130	3		20
1,2-Dibromoethane	94		95		70-130	1		20
1,2-Dibromo-3-chloropropane	83		90		41-144	8		20
Isopropylbenzene	93		94		70-130	1		20
1,2,3-Trichlorobenzene	81		84		70-130	4		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: GROUNDWATER PROGRAM

Lab Number: L2001772

Project Number: GROUNDWATER PROGRAM

Report Date: 01/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1331230-3 WG1331230-4								
1,2,4-Trichlorobenzene	83		82		70-130	1		20
Methyl Acetate	94		94		70-130	0		20
Cyclohexane	110		100		70-130	10		20
1,4-Dioxane	76		76		56-162	0		20
Freon-113	110		110		70-130	0		20
Methyl cyclohexane	100		93		70-130	7		20

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

Project Name: GROUNDWATER PROGRAM**Lab Number:** L2001772**Project Number:** GROUNDWATER PROGRAM**Report Date:** 01/20/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

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

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2001772-01A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-01B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-01C	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-02A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-02B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-02C	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-03A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-03B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-03C	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-04A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-04B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-04C	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-05A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-05B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-05C	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-06A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-06B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-06C	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-07A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-07B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-07C	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-08A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L2001772-08B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260-R2(14)

Project Name: GROUNDWATER PROGRAM
Project Number: GROUNDWATER PROGRAM

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Container Information

Container ID **Container Type**

Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
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Project Name: GROUNDWATER PROGRAM
Project Number: GROUNDWATER PROGRA

Lab Number: L2001772
Report Date: 01/20/20

GLOSSARY

Acronyms

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

Footnotes

Report Format: DU Report with 'J' Qualifiers



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

Terms

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers



Project Name: GROUNDWATER PROGRAM
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Data Qualifiers

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

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: GROUNDWATER PROGRAM
Project Number: GROUNDWATER PROGRAM

Lab Number: L2001772
Report Date: 01/20/20

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



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

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Certification Information

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

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


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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 2 of 1		Date Rec'd in Lab 1/14/20		ALPHA Job # L2001T72			
Client Information Client: <u>Encorus Group</u> Address: <u>2745 Broadway</u> <u>Cheektowaga, NY 14227</u> Phone: <u>716-863-2093</u> Fax: Email:		Project Information Project Name: <u>Groundwater Program</u> Project Location: <u>2137 Seneca St., Buffalo, NY</u> Project # (Use Project name as Project #) <input checked="" type="checkbox"/> Project Manager: <u>Andrew J. Kucenik</u> ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Billing Information <input type="checkbox"/> Same as Client Info PO # Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:					
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.						ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		Total Bottles	
01772-01		Well MW-2		1/14/20 13:30		GW		[Signature]		1	
-02		Well MW-4		13:42		[Signature]		[Signature]		1	
-03		Well MW-4A		13:50		[Signature]		[Signature]		1	
-04		Well MW-11		14:12		[Signature]		[Signature]		1	
-05		Well MW-13		14:20		[Signature]		[Signature]		1	
-06		Well P2A		14:31		[Signature]		[Signature]		1	
-07		Duplicate		14:02		[Signature]		[Signature]		1	
-08		Trip Blank		-		-		[Signature]		1	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type <input checked="" type="checkbox"/>		Preservative <u>HCl</u>		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
Relinquished By:		Date/Time		Received By:		Date/Time		Form No: 01-25 HC (rev. 30-Sept-2013)		Form No: 01-25 HC (rev. 30-Sept-2013)	
<u>[Signature]</u>		1/14/20 15:05		<u>[Signature]</u>		1/14/20 15:05		Form No: 01-25 HC (rev. 30-Sept-2013)		Form No: 01-25 HC (rev. 30-Sept-2013)	
<u>[Signature]</u>		1/14/20 15:05		<u>[Signature]</u>		1/15/20 00:50		Form No: 01-25 HC (rev. 30-Sept-2013)		Form No: 01-25 HC (rev. 30-Sept-2013)	

APPENDIX D – PHOTOS



Photo 1: Parking Lot – Looking towards Kingston Place (MW-4 & MW-4A)



Photo 2: Well MW-2 (foreground)



Photo 3: Well MW-13 (foreground)



Photo 4: Wells MW-11 (left) and MW-PZA (right)



Photo 5: SVI Roof Vent – Southwest exterior building corner

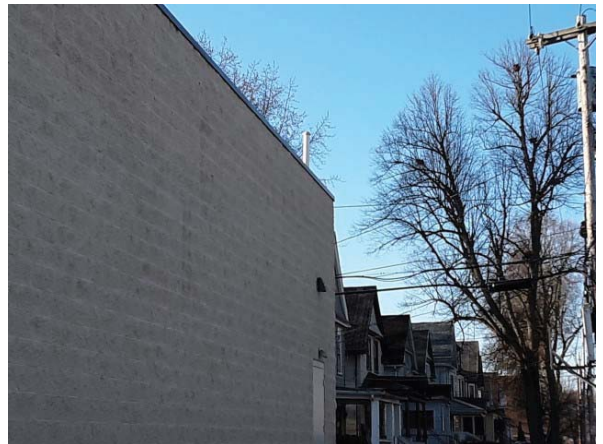


Photo 6: SVI Roof Vent – Northwest exterior building corner