

2020 Periodic Review Report Groundwater Monitoring and Sampling Results 153 Fillmore Avenue Site City of Tonawanda

December 2020

2020 PERIODIC REVIEW REPORT GROUNDWATER MONITORING AND SAMPLING RESULTS

153 FILLMORE AVENUE SITE CITY OF TONAWANDA

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SECTION 1 - SITE BACKGROUND

1.1 Site Location

The site is located at the intersection of Fillmore Avenue and Fremont Street in the City of Tonawanda (City) as shown on Figure 1. The 1.7-acre parcel is bounded on the east by an active railroad line, to the north and south by small commercial/industrial operations, and on the west by Fillmore Avenue. The subject property is located in a small industrial area adjacent to a residential neighborhood.

1.2 Site History

City directories for the period between 1946 to 1957, list Tonawanda Roofing and Paint Company at 141 Fillmore Avenue (adjacent property immediately north of site) and National Manufacturing Corporation at 153 Fillmore under Roofing Materials and Supplies. This is consistent with reports from local workers in the area that roofing materials were produced at the National Manufacturing site and installed by Tonawanda Roofing and Paint. This is further supported by the presence of four large aboveground storage tanks (ASTs) and associated piping on the site that contain heavy, viscous, tar like material.

In 1957, National Manufacturing Corporation added paint manufacturing facilities at the subject property. Raw materials for paint production were shipped to the facility in bulk and were stored in ASTs located in the tank rooms or underground storage tanks (USTs). The raw materials were transferred from the tank rooms to the manufacturing room where the paint was produced. The finished paint was then transferred to the warehouse where it was stored prior to shipment. National Manufacturing Corporation closed the facility in 1981.

In 1981, Envirotek Ltd, a solvent recycling company, reopened the facility as a Resource Conservation and Recovery Act (RCRA) treatment, storage, and disposal (TSD) facility. Containers of RCRA hazardous wastes were transported to the facility where they were stored pending reshipment to a RCRA disposal facility. Containers of RCRA characteristic ignitable, corrosive, and toxic hazardous wastes were stored at the facility from 1981 to 1986. A number of containers were left at the facility when Envirotek Ltd abandoned the facility in 1988.

The New York State Department of Environmental Conservation (NYSDEC) contacted the United States Environmental Protection Agency (USEPA) concerning the subject property on June 29, 1987. The USEPA conducted a preliminary assessment (PA) under the Comprehensive Environmental Response, Compensation and Liabilities Act (CERCLA) on November 30, 1988 to determine if the subject property should be included on the National Priority List (NPL). The PA disclosed that an estimated 770 55-gallon drums and 1,000 smaller containers of RCRA flammable, combustible, and corrosive hazardous wastes were present on the subject property. Several process vessels, four large ASTs, two UST's, and six transformers were also present at the subject property.

On July 18, 1989 the USEPA initiated remedial action activities at the site. These initial remedial action activities were completed on October 15, 1990, and included:

- the identification and categorization of all RCRA hazardous wastes;
- repackaging of 31,165 gallons of liquids and 11,655 pounds of solids and shipping off-site for incineration;
- repackaging 204 cubic yards of solids and shipping off-site for land disposal; and,
- repackaging 61,975 pounds of solids and shipping off-site for recycling.

A summary of remedial action activities are presented in a report entitled, "Federal On-Scene Coordinator's Report - Envirotek 1, Tonawanda, Erie County, New York," prepared by Roy F. Weston, Inc. and dated November 1990.

The NYSDEC conducted a limited site investigation in November 1997. This investigation was intended to determine if the site posed a significant threat to human health or the environment. This investigation consisted of the collection of soil samples from the site and surface water samples from Ellicott Creek.

The results of this investigation indicated no impairment of the Creek sediments or surface waters associated with the site. Analytical results of surface soils detected exceedances of NYSDEC soil cleanup objectives for polynuclear aromatic hydrocarbons (PAHs), PCBs, and numerous metals. The highest concentrations were observed in the northeast corner of the site.

A Site Investigation/Remedial Alternatives Report was completed by URS Corporation in 2002 indicating that the primary contaminants on-site were volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). These contaminants were present in surface and subsurface soils, and groundwater. Some metals and minor concentrations of PCBs were detected in surface soils.

The remedial activities completed at 153 Fillmore Avenue were separated into two phases. Phase I, completed in 2001, consisted of the demolition and removal of various structures, the removal of three (3) underground storage tanks, backfilling with clean material, and the stockpiling of contaminated soil. Phase II, completed in October 2002, consisted of the following:

- 1. Excavation, removal, and disposal of contaminated soils from Phase I.
- 2. Decontamination and removal of four (4) above ground storage tanks.
- 3. Removal and disposal of ACM coatings on tanks.
- 4. Removal of piping, supports and associated structures.
- 5. Sampling, analysis, and characterization of site materials.
- 6. Removal and off-site disposal of 11.6 tons of hazardous materials
- 7. 200 CY of concrete crushed and placed as fill material.
- 8. Installation of 1-foot of clean cover material over the entire site of clay and topsoil.
- 9. Asphalt paving for two (2) parking areas.

A Site Management Plan presented in Section 4, was completed after the Site Investigation/Remedial Alternatives Report, which detailed a Groundwater Monitoring Plan.

SECTION 2 - GROUNDWATER MONITORING ACTIVITIES

The 2020 monitoring program at the 153 Fillmore Avenue Site in the City consisted of one annual sampling event completed on July 29, 2020. Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-5, MW-6, MW-7, and MW-8, located on the perimeter of the property as presented in Figure 2.

Groundwater samples were collected using low-flow purging and sampling techniques. Prior to sampling, monitoring wells MW-5, MW-6, MW-7 and MW-8 were purged using a peristaltic pump and dedicated tubing. Monitoring wells, MW-1 and MW-2 were purged using a dedicated bailer. Groundwater from monitoring wells MW-1, MW-2, MW-5, MW-6, MW-7 and MW-8 were tested for field parameters to include: pH, conductance, dissolved oxygen (DO), temperature, and oxidation-reduction potential (ORP).

Groundwater field parameters provided an indication that water drawn from the well is representative of the groundwater in the surrounding formation. The results of these field parameters are presented on Table 1. The groundwater field sampling logs that were used to record field information at each sampling point are provided in Appendix A. After the field parameters stabilized, groundwater samples were collected with a dedicated disposable bailer or dedicated tubing into sample containers provided by the laboratory.

Historically, the water level indicator was not able to pass the total depth of monitoring well MW-7 due to an obstruction. However, since 2017 a smaller water level indicator probe has been able to pass by the obstruction and obtain the height of water in the monitoring well. In 2020, approximately 0.50 gallons was removed before the well went dry.

Purge water generated during the groundwater sampling activities was emptied on-site away from the sampled well. In accordance with the Site Management Plan prepared by NYSDEC in 2009, quality control samples including a trip blank and a field duplicate were collected during the sampling event. A matrix spike (MS) and matrix spike duplicate (MSD) were collected and a Data Usability Summary Report (DUSR) was prepared for previous sampling events. In 2016 after further review in of the Site Management Plan and discussions with the NYSDEC it was determined that the MS/MSD samples and a DUSR were not required.

Samples were delivered under a chain of custody to Eurofins TestAmerica for analysis of TCL VOCs by USEPA Method 8260 and Target Analyte List (TAL) Metals by USEPA Method 200.7, with mercury analyzed under USEPA Method 245.2 with results reported using ASP Category A. Historically, the presence of Target Compound List (TCL) VOCs at monitoring well MW-5 has been not been detected. In 2016 the NYSDEC stated that testing for TCL VOCs at monitoring well MW-5 was no longer required. SVOCs were analyzed for during previous sampling events. In 2016 after further review of the Site Management Plan and discussions with the NYSDEC it was determined that analyzing for SVOCs was not required.

SECTION 3 - GROUNDWATER MONITORING RESULTS

This section includes the results of the 2020 annual groundwater sampling event. Included are descriptions of site-specific hydrogeology, the identification and distribution of constitutes present in groundwater, and a comparison of historical data. Constitutes were compared to the applicable NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) Groundwater Standards and Guidance Values.

3.1 Site Hydrogeology

Groundwater levels were collected at each monitoring well and are presented in Table 2. Figure 3 illustrates the groundwater elevation contours based on the groundwater levels measured on July 29, 2020. The groundwater elevation data indicates that groundwater flows toward the west. The upgradient monitoring well is identified as monitoring well MW-7.

3.2 Groundwater Analytical Results

A summary of the compounds detected in groundwater during the 2020 Groundwater Sampling Event is presented on Tables 3, 4 and 5. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998, Class GA was used for the reporting limits. The groundwater samples were analyzed for volatiles, semi-volatiles, and metals on the Target Compound List (TCL). Laboratory analytical data reports are provided in Appendix B. Historical groundwater analytical test data is presented on Tables 3, 4 and 5. Historical groundwater total VOC concentration Figures displaying the lateral extent of the total VOC concentration plume from previous sampling events are provided in Appendix C.

3.2.1 Volatile Organic Analytical Test Results

The volatile organic analytical test results for the sampling event of 2020 varied depending on the monitoring well and specific compounds detected in groundwater in comparison with previous annual sampling events. Results showed increasing and decreasing volatile organic concentrations when comparing test data from all sampling events to 2019 test results. Volatile organic analytical test results are presented in Table 3.

Exceeding Groundwater Standards: The volatile organic analytical test results detected concentrations of vinyl chloride (MW-2 and MW-8) and benzene (MW-2 and MW-8) exceeding groundwater quality standards.

Vinyl chloride:

• The concentration of vinyl chloride decreased in groundwater sampled from monitoring wells MW-2 and MW-8, but exceeded the groundwater quality standard.

Benzene:

- The concentration of benzene increased in groundwater sampled from monitoring well MW-8, which exceeded the groundwater quality standard.
- The concentration of benzene decreased in groundwater sampled from monitoring well MW-2, but exceeded the groundwater quality standard.

Cis-1,2-dichloroethene:

- The concentration of cis-1,2-dichloroethene increased in groundwater sampled from monitoring well MW-1, but remained below the groundwater quality standard.
- The concentration of cis-1,2-dichloroethene increased in groundwater sampled from monitoring well MW-7, which was below the groundwater quality standard.
- The concentration of cis-1,2-dichloroethene decreased to non-detectable results in groundwater sampled from monitoring well MW-8.

Methylene Chloride:

• The concentration of methylene chloride decreased to non-detectable results in groundwater sampled from monitoring well MW-7.

Trichloroethene:

• The concentration of trichloroethene increased in groundwater sampled from monitoring well MW-7, but remained below the groundwater quality standard.

Cyclohexane:

 The concentration of cyclohexane decreased in groundwater sampled from monitoring well MW-2.

Carbon Disulfide:

• The concentration of carbon disulfide increased in groundwater sampled from monitoring well MW-1, which was below the groundwater quality standard.

As presented in Appendix C, historical total VOC concentration groundwater plume figures show the total VOC plume has migrated in a westward direction over time in a similar direction of groundwater flow. The following observations have been made in regard to VOC plume migration and movement as reported in the specific year.

2001 Reporting - The October 2001 figure shows a total VOC concentration plume that is centered on the east side of the site with total VOC concentrations of approximately 2,681 ppb detected in groundwater from monitoring well MW-7.

2007 Reporting - The total VOC concentration plume from the 2007 sampling event indicates decreasing total VOC concentration centered on monitoring well MW-7.

2008 Reporting - The center of the total VOC concentration plume migrated in a westward direction due to higher VOC concentrations detected in groundwater from monitoring wells MW-6 and MW-8.

2009 Reporting - The total VOC concentration plume expanded westward with the addition of sampling and test results from monitoring wells MW-1 and MW-2.

2010 Reporting - The total VOC concentration plume remained similar to the 2009 total VOC concentration plume, however, shows decreased VOC concentrations from monitoring well MW-6.

2011 Reporting - The total VOC plume migrated further west with test results from sampling detecting increased total VOC concentrations at monitoring well MW-1. Total VOC concentrations continued to decrease to non-detectable results from monitoring well MW-6.

2012 Reporting - The total VOC plume increased in VOC concentrations groundwater from monitoring well MW-1 for the third year. Plume migration appears to have moved southwest since total VOC concentrations in monitoring well MW-1 have increased every year from 2009 to 2012.

2013 Reporting - The total VOC plume decreased in size and VOC concentrations in monitoring wells MW-1 and MW-2. VOC concentrations were not detected in monitoring well MW-8 in 2013. Plume migration should be migrating to the southwest with the direction of groundwater flow. Total VOC concentrations in monitoring well MW-1 have increased every year from 2009 to 2012 with a decrease in concentration in 2013.

2014 Reporting - The total VOC plume increased in size and decreased total VOC concentrations. Total VOC concentrations in monitoring well MW-1 have increased every year from 2009 to 2012 with a

decrease in VOC concentration in 2013. In 2014, VOC concentrations slightly increased in comparing 2013 results as presented below:

- 2009 5.5 μg/l
- 2010 16.0 µg/l
- 2011 26.0 µg/l
- 2012 73.3 µg/l
- 2013 14.3 µg/l
- 2014 14.8 µg/l

2015 Reporting - The total VOC plume increased in size and decreased in total VOC concentrations.

2016 Reporting - The total VOC plume decreased in size and increased in total VOC concentrations.

2017 Reporting - The total VOC plume decreased in size and decreased in total VOC concentrations.

2018 Reporting - The total VOC plume increased in size and in total VOC concentrations. The total VOC concentration in monitoring wells MW-6 and MW-7 increased from non-detectable in 2017 to 1.5 μ g/l and 10.1 μ g/l in 2018.

2019 Reporting - The total VOC plume decreased in size and decreased in total VOC concentrations. The total VOC concentration in monitoring well MW-6 decreased to non-detectable levels. The total VOC concentration in monitoring wells MW-7 and MW-8 decreased from 10.1 μ g/l and 21.3 μ g/l in 2018 to 4.7 μ g/l and 17.7 μ g/l in 2019.

2020 Reporting - The total VOC plume decreased in size and decreased in total VOC concentrations. The total VOC concentration in monitoring well MW-6 remained at non-detectable levels. The total VOC concentration in monitoring well MW-7 increased from 4.7 μ g/l in 2019 to 6.8 μ g/l in 2020. The total VOC concentration in monitoring well MW-8 decreased from 17.7 μ g/l in 2019 to 6.1 μ g/l in 2020. Groundwater sampled from monitoring wells MW-1 and MW-2 represent the furthest most westward edge of the VOC plume. From 2009 to 2020, there is a decreasing trend in total VOC concentrations from groundwater sampled from monitoring wells MW-1 and MW-2. Monitoring wells MW-1 and MW-2 VOC concentrations have been totaled as presented below:

- 2009 98.2 µg/l
- 2010 134.0 µg/l
- 2011 82.0 µg/l
- 2012 99.9 µg/l
- 2013 25.8 µg/l
- 2014 26.9 µg/l
- 2015 21.9 µg/l
- 2016 26.0 µg/l
- 2017 12.0 µg/l
- 2018 10.7 μg/l
- 2019 11.0 µg/l
- 2020 7.3 µg/l

The following observations have been made regarding total VOC concentrations:

> 2007 and 2008 - There was no VOC test data from monitoring wells MW-1 and MW-2 since the wells were nonfunctional until being re-drilled/installed in 2009.

- 2001 to 2009 Total VOC concentrations increased consistently in groundwater monitoring well MW-8.
- > 2010, 2011, 2012 Total VOC concentrations in monitoring wells MW-2 and MW-8 decreased.
- > 2012 Total VOC concentrations in monitoring wells MW-1 and MW-7 increased.
- > 2013 Total VOC concentrations in monitoring wells MW-1, MW-2 and MW-8 decreased.
- 2014 Total VOC concentrations in monitoring wells MW-1, MW-2, MW-7 and MW-8 decreased from total VOC concentrations detected in 2013 of 107.2 μg/l to 77.2 μg/l as reported in 2014.
- 2015 Total VOC concentrations in monitoring wells MW-1, MW-2, MW-7 and MW-8 decreased from total VOC concentrations detected in 2014 of 77.2 µg/l to 68.8 µg/l as reported in 2015.
- 2016 Total VOC concentrations in monitoring wells MW-1, MW-2, MW-7 and MW-8 increased from 68.8 μg/l in 2015 to 106.6 μg/l as reported in 2016.
- 2017 Total VOC concentrations in monitoring wells MW-1, MW-2, MW-7 and MW-8 decreased from 106.6 μg/l in 2016 to 40.88 μg/l as reported in 2017.
- 2018 Total VOC concentrations in monitoring wells MW-1, MW-2, MW-6, MW-7 and MW-8 increased from 40.88 μg/l in 2017 to 43.60 μg/l as reported in 2018.
- 2019 Total VOC concentrations in monitoring wells MW-1, MW-2, MW-6, MW-7 and MW-8 decreased from 43.60 μg/l in 2018 to 33.40 μg/l as reported in 2019.
- 2020 Total VOC concentrations in monitoring wells MW-1, MW-2, MW-6, MW-7 and MW-8 decreased from 33.40 μg/l in 2019 to 20.24 μg/l as reported in 2020.

3.2.2 Semi-Volatile Organic Analytical Test Results

Semi-volatile organic compounds were not analyzed for in 2020, per the SMP and correspondence with NYSDEC. Historical SVOC test results are presented in Appendix D.

3.2.3 Inorganic Metals Analytical Test Results

Detected concentrations of inorganic metals in groundwater sampled in 2020 that exceeded groundwater quality standards and increased in concentrations when compared with 2019 analytical test results include the following: aluminum (MW-1, MW-2 and MW-7); antimony (MW-7); cadmium (MW-7); chromium (MW-2); iron (MW-5); magnesium (MW-2); manganese (MW-1 and MW-2) and zinc (MW-7) exceeding groundwater quality standards as presented in Table 4.

Aluminum:

- The concentration of aluminum increased in groundwater sampled from monitoring well MW-1, MW-2 and MW-7, which exceeded the groundwater quality standard.
- The concentration of aluminum decreased in groundwater sampled from monitoring wells MW-5 and MW-6, which was below the groundwater quality standard.
- The concentration of aluminum in groundwater sampled from monitoring well MW-8 decreased to non-detectable.

Antimony:

- The concentration of antimony increased in groundwater sampled from monitoring well MW-7, which exceeded the groundwater quality standard.
- The concentration of antimony in groundwater sampled from all other wells remained nondetectable.

Arsenic:

- The concentration of arsenic decreased in groundwater sampled from monitoring wells MW-1 and MW-2, but exceeded the groundwater quality standard.
- The concentration of arsenic in groundwater sampled from all other wells remained nondetectable.

Barium:

- The concentration of barium increased in groundwater sampled from monitoring well MW-1, MW-5, MW-7 and MW-8, which was below the groundwater quality standard.
- The concentration of barium remained the same in groundwater sampled from monitoring well MW-6, which was below the groundwater quality standard.
- The concentration of barium decreased in groundwater sampled from monitoring well MW-2, which was below the groundwater quality standard.

Beryllium:

- The concentration of beryllium increased in groundwater sampled from monitoring wells MW-1 and MW-2, which was below the groundwater quality standard.
- The concentration of beryllium in groundwater sampled from all other wells remained nondetectable.

Cadmium:

- The concentration of cadmium increased in groundwater sampled from monitoring well MW-7, which exceeded the groundwater quality standard.
- The concentration of cadmium increased in groundwater sampled from monitoring wells MW-1 and MW-2, which was below the groundwater quality standard.
- The concentration of cadmium in groundwater sampled from monitoring well MW-8 decreased to non-detectable.
- The concentration of cadmium in groundwater sampled from monitoring wells MW-5 and MW-6 remained non-detectable.

Chromium:

- The concentration of chromium increased in groundwater sampled from monitoring well MW-2, which exceeded the groundwater quality standard.
- The concentration of chromium increased in groundwater sampled from monitoring wells MW-1 and MW-7, which was at and below the groundwater quality standard.
- The concentration of chromium in groundwater sampled from monitoring well MW-8 decreased to non-detectable.

• The concentration of chromium in groundwater sampled from monitoring wells MW-5 and MW-6 remained non-detectable.

Copper:

- The concentration of copper increased in groundwater sampled from monitoring wells MW-1, MW-2, MW-5 and MW-7, which was below the groundwater quality standard.
- The concentration of copper decreased in groundwater sampled from monitoring well MW-8, which was below the groundwater quality standard.
- The concentration of copper in groundwater sampled from monitoring well MW-6 remained non-detectable.

Iron:

- The concentration of iron increased in groundwater sampled from monitoring well MW-5, which exceeded the groundwater quality standard.
- The concentration of iron decreased in groundwater sampled from monitoring wells MW-1, MW-2, MW-6, MW-7 and MW-8, but exceeded the groundwater quality standard.

Lead:

- The concentration of lead decreased in groundwater sampled from monitoring wells MW-2 and MW-7, but exceeded the groundwater quality standard.
- The concentration of lead increased in groundwater sampled from monitoring wells MW-1 and MW-6, which was below the groundwater quality standard.
- The concentration of lead decreased in groundwater sampled from monitoring wells MW-5 and MW-8, which was below the groundwater quality standard.

Magnesium:

- The concentration of magnesium increased in groundwater sampled from monitoring well MW-2, which exceeded the groundwater quality standard.
- The concentration of magnesium increased in groundwater sampled from monitoring well MW-1, which was below the groundwater quality standard.
- The concentration of magnesium decreased in groundwater sampled from monitoring wells MW-5, MW-6, MW-7 and MW-8, which was below the groundwater quality standard.

Manganese:

- The concentration of manganese increased in groundwater sampled from monitoring wells MW-1 and MW-2, which exceeded the groundwater quality standard.
- The concentration of manganese decreased in groundwater sampled from monitoring wells MW-6 and MW-7, but exceeded the groundwater quality standard.
- The concentration of manganese increased in groundwater sampled from monitoring well MW-5, which was below the groundwater quality standard.
- The concentration of manganese decreased in groundwater sampled from monitoring well MW-8, which was below the groundwater quality standard.

Mercury:

- The concentration of mercury remained the same in groundwater sampled from monitoring wells MW-2 and MW-7, which was below the groundwater quality standard.
- The concentration of mercury in groundwater sampled from all other wells remained nondetectable.

Nickel:

- The concentration of nickel increased in groundwater sampled from monitoring wells MW-1, MW-2 and MW-5, which was below the groundwater quality standard.
- The concentration of nickel decreased in groundwater sampled from monitoring well MW-7, which was below the groundwater quality standard.
- The concentration of nickel in groundwater sampled from all other wells remained nondetectable.

Selenium:

• The concentration of selenium in groundwater sampled from all wells remained non-detectable.

Silver:

• The concentration of silver in groundwater sampled from all wells remained non-detectable.

Thallium:

• The concentration of thallium in groundwater sampled from all wells remained non-detectable.

Zinc:

- The concentration of zinc increased in groundwater sampled from monitoring well MW-7, which exceeded the groundwater quality standard.
- The concentration of zinc increased in groundwater sampled from monitoring wells MW-1, MW-2 and MW-5, which was below the groundwater quality standard.
- The concentration of zinc decreased in groundwater sampled from monitoring wells MW-6 and MW-8, which was below the groundwater quality standard.

3.3 Quality Assurance/Quality Control Analytical Results

Groundwater samples were analyzed for VOCs by USEPA SW-846 Method 8260, and TAL Metals at Eurofins TestAmerica in Amherst, New York. The quality control samples include a field duplicate, method blank and a laboratory control sample analysis.

SECTION 4 - SOILS MANAGEMENT PLAN

4.1 Objective

The objective of this Soils Management Plan (SMP) is to set guidelines for the maintenance and repair of the cover system at the Site, and for the management of soil and fill disturbed during any future intrusive work that breaches this cover system. This SMP addresses environmental concerns related to soil management and has been reviewed and approved by the NYSDEC.

4.2 Nature and Extent of Contamination

The data obtained during the investigation and remediation of the Site reveal that the contaminants of concern at this Site for surface soil consist primarily of semivolatile organic compounds (SVOCs) and metals. The primary SVOCs of concern includes benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene and indeno(1,2,3-cd)pyrene. These contaminants belong to a class of SVOCs known as polycyclic aromatic hydrocarbons (PAHs). PAHs are a group of over 100 different chemicals that are ubiquitous in the environment. Sources of PAHs include incomplete combustion of coal, oil, gasoline, garbage, wood and incinerators. PAHs are also found in coal tar, crude oil, creosote, roofing tar, medicines, dyes, plastics and pesticides. The primary metals of concern in surface soil include barium, cadmium, chromium, lead and mercury.

The contaminants of concern at the Site for subsurface soil consist primarily of VOCs and SVOCs. The primary VOCs of concern includes acetone, benzene, ethylbenzene and xylene, while the primary SVOCs of concern include benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and chrysene.

The contaminants of concern at the Site for groundwater consist primarily of VOCs and metals. The primary VOCs of concern includes dichloroethene and vinyl chloride, although historic groundwater samples also contained benzene, ethylbenzene, toluene, trichloroethene and xylene. The primary metals of concern in groundwater include aluminum, cadmium, iron, lead and manganese.

4.3 Contemplated Use

Following the remediation of the Site, the property was purchased by Manth Manufacturing for use as parking and warehousing for the company's existing manufacturing operations at 131 Fillmore Avenue. The Deed Restriction specifically prohibits the use of the Site for any type of residential, agricultural or school/day care purposes.

4.4 Purpose and Description of the Cover System

The purpose of the cover system is to prevent public exposures with contaminated soil, fill and groundwater, and to prevent the migration of contaminants off-site via groundwater or surface water runoff. The cover system at the Site consists of the following:

- A 1-foot thick clean soil cover without a demarcation layer;
- A 1-foot thick asphalt and sub base cover at two areas used for parking and access;
- A concrete and sub base cover consisting of sidewalks and the floors of Site buildings. Vapor barriers are not present under any of the concrete buildings slabs.

4.5 Cover System Maintenance and Repair

The cover system will be periodically inspected and maintained. Maintenance includes controlling surface erosion and run-off from the Site, and includes proper maintenance of the vegetative cover. In the event that damage to the cover system is observed (e.g., ruts, erosion, cracked or broken asphalt, etc.), repairs will be made to restore the cover system to its pre-damaged condition. These repairs are required to maintain the integrity of the cover system.

Future use of the Site should preclude as described in the Deed Restriction, whenever possible, excavation or disturbance of the cover system. Should any future intrusive work breach the cover system, the requirements of Sections 4.6 thru 4.9 of this SMP must be followed. Once the intrusive activities are

complete, the cover system must be restored in a manner that is consistent with the original construction. If the type of cover system changes from that which existed prior to the intrusive activities (i.e., a soil cover is replaced by asphalt, concrete or a building), a figure showing the modified surface should be included in the appropriate annually submitted Periodic Review Report, and in any updates to the Site Management Plan. The Periodic Review Report should also certify that all intrusive and cover system repair activities were conducted in conformance with this SMP.

4.6 Management of Subsurface Soil and Fill

The purpose of this section is to provide environmental guidelines for the management of soil and fill encountered during any future intrusive work that breaches the cover system. This SMP includes the following conditions:

• Any breach of the cover system, including for the purposes of construction or utilities work, must be replaced or repaired using an acceptable borrow source free of industrial and/or other potential sources of chemical or petroleum contamination. The repaired area must be covered with clean soil and reseeded, or covered with impervious product such as concrete or asphalt to prevent future erosion;

• During any intrusive activities that breach the cover system, the Contingency Plan of Section 4.7 must be implemented, if conditions so warrant. Dust monitoring and control techniques (e.g., wetting road surfaces, covering soil stockpiles, stopping intrusive activities during windy conditions, etc) must also be implemented;

• Soil and fill excavated at the Site that is intended to be removed from the property must be managed, characterized, and properly disposed of in accordance with NYSDEC regulations as referenced in Section 4.8;

• Soil and fill excavated at the Site may be reused as backfill material on-site provided it contains no visual or olfactory evidence of contamination, and is placed beneath a cover system component as referenced in Section 4.4;

 Any off-site material brought to the Site for filling and grading purposes shall be from an acceptable borrow source free of industrial and/or other potential sources of chemical or petroleum contamination. Off-site borrow sources will be subject to the collection of one representative composite sample per source. The sample should be analyzed for TCL VOCs, TCL SVOCs, TCL pesticides, TCL PCBs, TAL metals and cyanide by a NYSDOH ELAP-certified laboratory. The soil will be acceptable for use as cover material provided that all parameters meet the 6 NYCRR Part 375 residential soil cleanup objectives (Appendix E);

• Prior to any construction activities, workers are to be notified of Site conditions with clear instructions regarding how the work is to proceed. Invasive work performed at the property will be performed in accordance with all applicable local, state, and federal regulations to protect worker health and safety, including all applicable personal protective equipment.

4.7 Contingency Plan

If underground storage tanks or other previously unidentified contaminant sources are encountered during future intrusive work, excavation activities will be suspended until sufficient equipment is mobilized to address the situation. Such findings will be promptly communicated to the NYSDEC Region 9 Office in Buffalo, New York. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. Representative samples of product, soil and fill will be collected for chemical analysis to determine the nature of the material and proper disposal method. The samples should be analyzed for TCL VOCs, TCL SVOCs, TCL pesticides, TCL PCBs, TAL metals and cyanide by a NYSDOH ELAP certified laboratory. Disposal of this material should take place as referenced in Section 4.8.

4.8 Disposal of Subsurface Soil and Fill

Soil and fill that is excavated at the Site but cannot be used as fill below the cover system will be further characterized prior to transportation off-site for disposal at a permitted facility. For excavated soil and fill

with visual evidence of contamination (i.e., staining or elevated PID measurements), one composite sample and one duplicate sample will be collected for every 100 cubic yards of material. For excavated soil and fill that does not exhibit visual evidence of contamination but must be sent for off-site disposal, one composite sample and one duplicate sample will be collected for every 2,000 cubic yards of material. A minimum of one composite sample and one duplicate sample will be collected for every 2,000 cubic yards of material.

The composite sample will be collected from five locations within each stockpile. A duplicate composite sample will also be collected. PID measurements will be recorded for each of the five individual locations. If elevated PID measurements are documented, one grab sample will be collected from the individual location with the highest PID measurement. If none of the individual samples exhibit PID readings, one grab sample will be selected at random. The composite sample will be analyzed for pH (EPA Method 9045C), TCL SVOCs, TCL pesticides, TCL PCBs, TAL metals and cyanide by a NYSDOH ELAP certified laboratory. The grab sample will be analyzed for TCL VOCs.

Samples will be composited by placing equal portions of soil and fill from each of the five composite sample locations into a pre-cleaned, stainless steel (or Pyrex glass) mixing bowl. The soil and fill will be thoroughly homogenized using a stainless steel trowel or disposable scoop, and transferred to pre-cleaned sample bottles provided by the laboratory. The sample bottles will be labeled and a chain-of-custody form will be prepared.

Additional characterization sampling for off-site disposal may be required by the disposal facility. To potentially reduce off-site disposal requirements/costs, the owner or site developer may also choose to characterize each stockpile individually.

If the analytical results indicate that concentrations exceed the standards for RCRA characteristics, the material will be considered a hazardous waste and must be properly disposed off-site at a permitted disposal facility within 90 days of excavation. If the analytical results indicate that the soil is not a hazardous waste, the material will be properly disposed off-site at a non-hazardous waste facility. Stockpiled soil cannot be transported on or off-site until the analytical results are received from the laboratory.

4.9 Subgrade Material

Subgrade material used to backfill excavations or placed to increase surface grades must meet the following criteria.

• Excavated on-site soil and fill that appears to be visually impacted shall be sampled and analyzed as described in Section 4.8. If analytical results indicate that contaminants are present at concentrations below the 6 NYCRR Part 375 commercial soil cleanup objectives (Appendix E), the soil and fill can be used as backfill on-site;

• Any off-site material brought to the Site for filling and grading purposes shall be from an acceptable borrow source free of industrial and/or other potential sources of chemical or petroleum contamination, and cannot otherwise be defined as a solid waste in accordance with 6 NYCRR Part 360-1.2(a);

• If the contractor designates a source as "virgin" soil, it shall be further documented in writing to be native soil material from areas not having supported any known prior industrial or commercial development or agricultural use;

• Virgin soil will be subject to the collection of one representative composite sample per source. The sample should be analyzed for TCL VOCs, TCL SVOCs, TCL pesticides, TCL PCBs, arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver and cyanide by a NYSDOH ELAP certified laboratory. The soil will be acceptable for use as backfill provided that all parameters meet the 6 NYCRR Part 375 commercial soil cleanup objectives as referenced in Appendix E;

• Non-virgin soil will be tested via collection of one composite sample per 500 cubic yards of material from each source. If more than 1,000 cubic yards of soil are borrowed from a given off-site non-virgin source, and both samples of the first 1,000 cubic yards meet the 6 NYCRR Part 375 commercial soil cleanup objectives as referenced in Appendix E, the sample collection frequency will be reduced to one composite for every 2,500 cubic yards of additional soils from the same source, up to 5,000 cubic yards. For borrow sources greater than 5,000 cubic yards, sampling frequency may be reduced to one sample per 5,000 cubic yards, provided all earlier samples met the 6 NYCRR Part 375 commercial soil cleanup objectives.

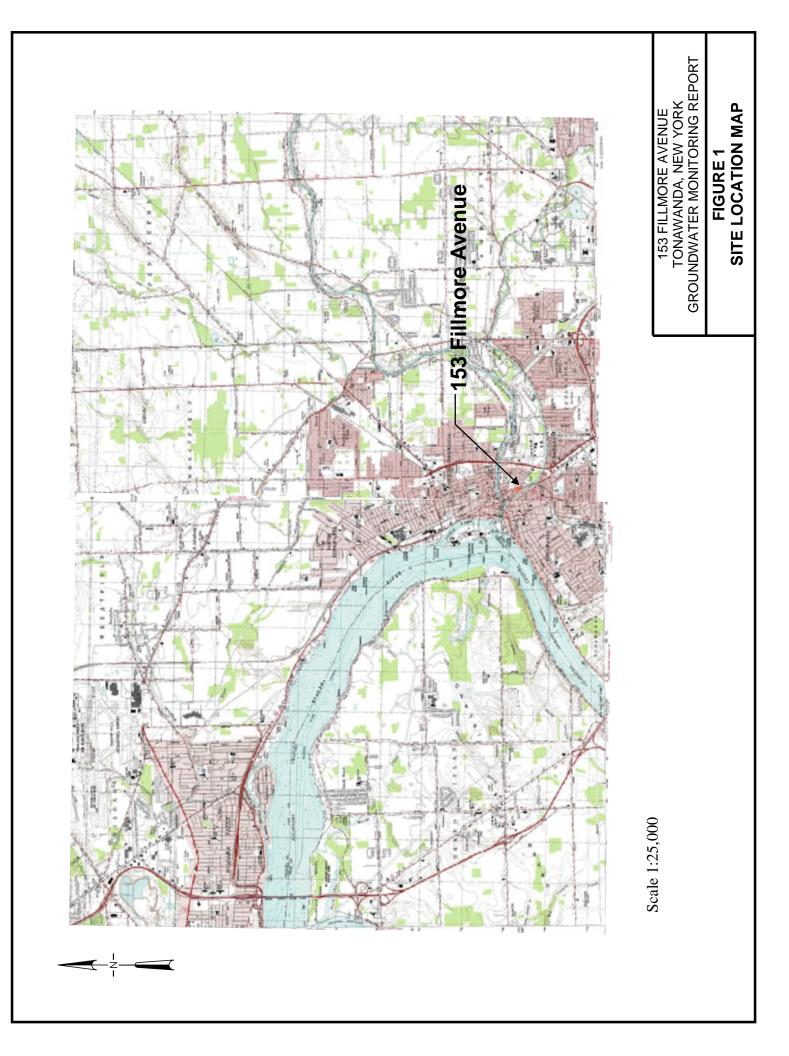
4.10 2020 Site Usage

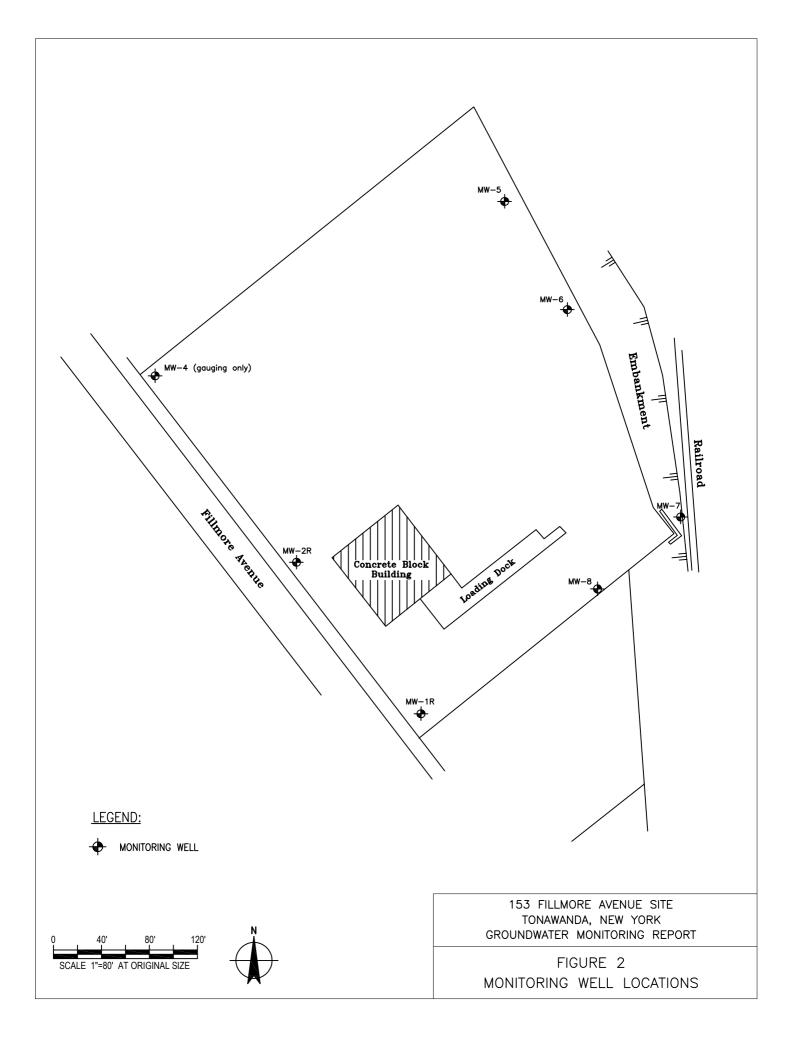
No excavation took place on-site in 2020.

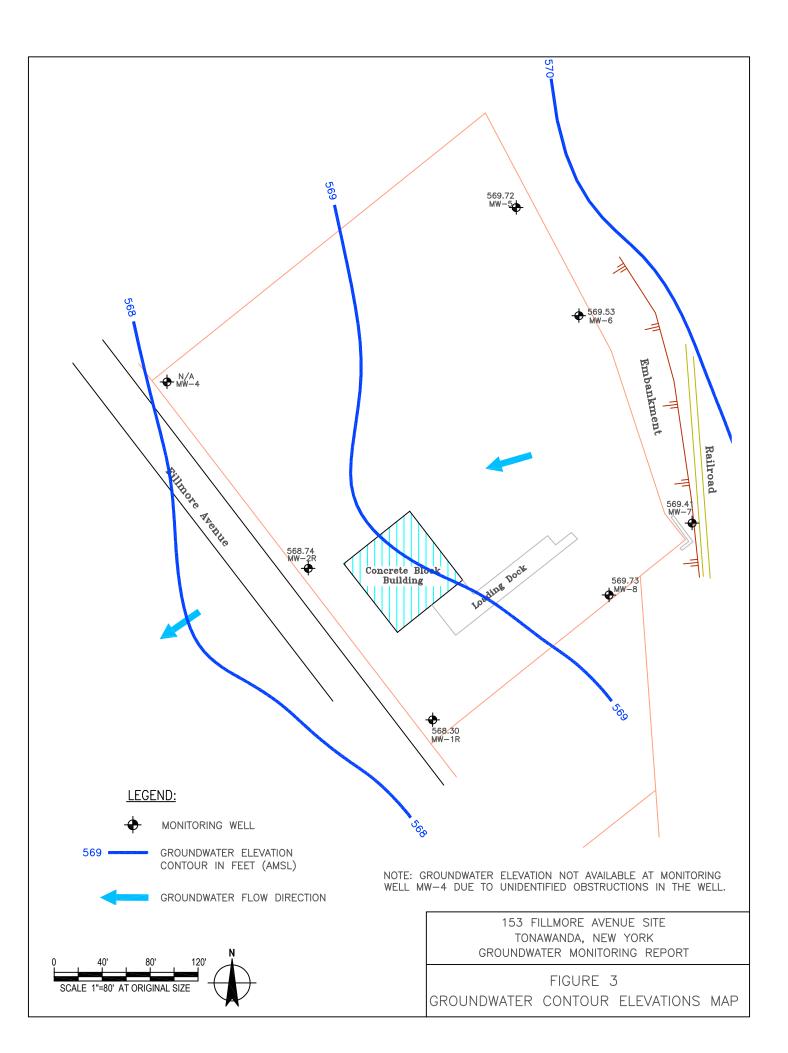
SECTION 5 - CONCLUSIONS

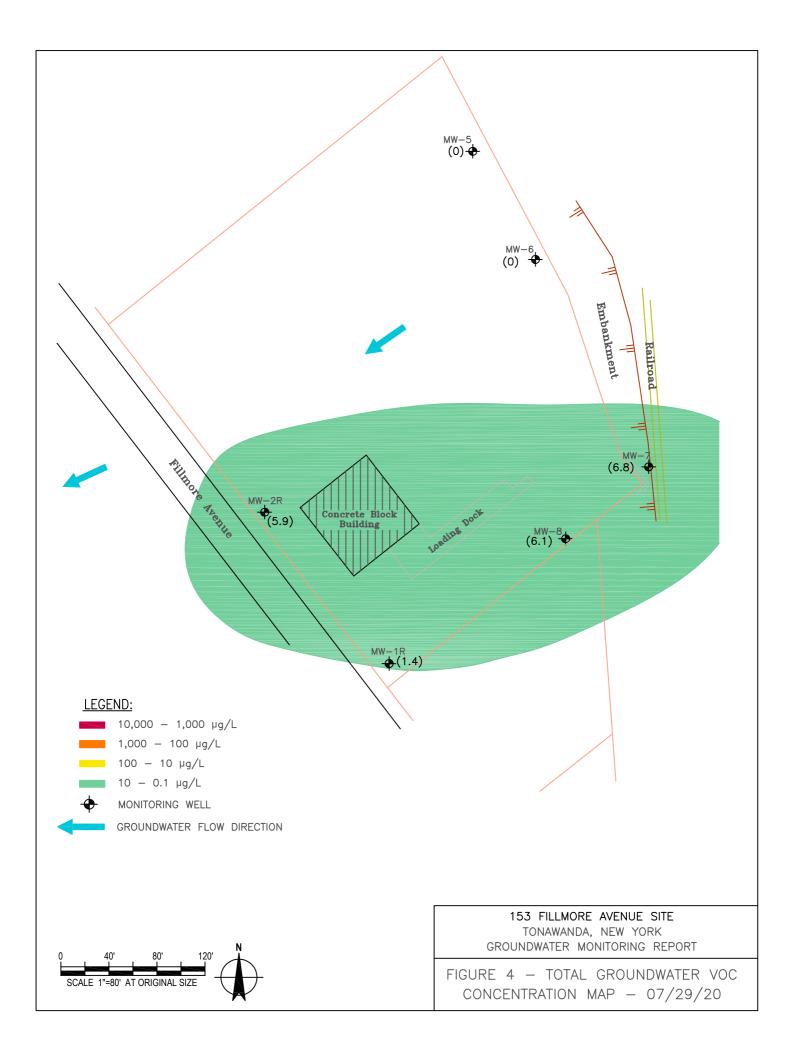
- 1. The volatile organic analytical 2020 test results detected concentrations of vinyl chloride (MW-2 and MW-8) and benzene (MW-2 and MW-8) that exceeded groundwater quality standards.
- Detected concentrations of inorganic metals in groundwater sampled in 2020 that exceeded groundwater quality standards concentrations include the following: aluminum (MW-1, MW-2 and MW-7); antimony (MW-7); arsenic (MW-1 and MW-2), cadmium (MW-7); chromium (MW-2); iron (all wells); lead (MW-2 and MW-7), magnesium (MW-2); manganese (MW-1, MW-2, MW-6 and MW-7) and zinc (MW-7).
- 3. Based on 2020 analytical test results, the total VOC concentration plume appears to be migrating in a southwestward direction with groundwater flow. Total VOC concentrations slightly increased in groundwater from monitoring wells MW-1and MW-7.
- 4. Total VOC concentrations in all monitoring wells sampled and analyzed for decreased from 33.40 μg/l in 2019 to 20.24 μg/l as reported in 2020.
- 5. Trend analysis of total VOC plume decreased in size and decreased in total VOC concentrations. Groundwater sampled from monitoring wells MW-1 and MW-2 represent the furthest most westward edge of the VOC plume. From 2009 to 2020, there is a trending decrease in total VOC concentrations from groundwater sampled from monitoring wells MW-1 and MW-2.

FIGURES









TABLES

TABLE 1

2020 Field Groundwater Parameters

153 Fillmore Avenue Site

Denometer		Monitoring Well Location													
Parameter	MW-1	MW-2	MW-5	MW-6	MW-7	MW-8									
Temperature (°C)	21.70	17.15	23.23	19.17	27.14	21.60									
рН	7.39	6.84	7.68	7.53	7.12	7.24									
Conductivity (mS/cm)	0.875	0.869	0.944	0.777	0.875	0.631									
Dissolved Oxygen (mg/L)	5.78	8.40	10.75	4.76	6.21	5.04									
Turbidity (NTUs)	NA	NA	33.4	16.5	154	33									
ORP (mV)	5	-37	-19	-92	110	-16									

TABLE 2A

Monitoring Well MW-1 Groundwater Monitoring Well Data 153 Fillmore Avenue Site

Sampling Date	Well Depth Top PVC (ft.)	Well Depth Elevation (ft.)	Depth to Static Water (ft.)	Height of Water (ft.)	Top PVC Elevation (ft.)	Static Water Level Elevation (ft.)	Well Casing Diameter (in.)	Water Volume (gal)	Water Purged (gal)	Purging Method
07/22/09	13.8	561.00	6.30	7.50	574.80	568.50	2.0	1.21	3.64	Bailer
07/15/10	13.8	561.00	7.00	6.80	574.80	567.80	2.0	1.09	3.26	Bailer
07/22/11	13.8	561.00	7.60	6.20	574.80	567.20	2.0	1.00	2.99	Bailer
07/24/12	13.8	561.00	8.70	5.10	574.80	566.10	2.0	0.82	2.46	Bailer
07/24/13	13.8	561.00	5.60	8.20	574.80	569.20	2.0	0.82	2.46	Bailer
07/15/14	13.8	561.00	6.50	7.30	574.80	568.30	2.0	1.17	3.52	Bailer
07/23/15	13.8	561.00	5.60	8.20	574.80	569.20	2.0	1.32	3.95	Bailer
07/28/16	13.8	561.00	7.20	6.60	574.80	567.60	2.0	1.06	3.18	Bailer
07/27/17	13.8	561.00	6.30	7.50	574.80	568.50	2.0	1.21	3.63	Bailer
07/26/18	13.8	561.00	6.15	7.65	574.80	568.65	2.0	1.23	3.69	Bailer
07/18/19	13.8	561.00	5.85	7.95	574.80	568.95	2.0	1.28	3.84	Bailer
07/29/20	13.8	561.00	6.5	7.30	574.80	568.30	2.0	1.17	3.50	Bailer

TABLE 2B Monitoring Well MW-2 Groundwater Monitoring Well Data 153 Fillmore Avenue Site

Sampling Date	Well Depth Top PVC (ft.)	Well Depth Elevation (ft.)	Depth to Static Water (ft.)	Height of Water (ft.)	Top PVC Elevation (ft.)	Static Water Level Elevation (ft.)	Well Casing Diameter (in.)	Water Volume (gal)	Water Purged (gal)	Purging Method
07/22/09	13.5	561.69	5.90	7.60	575.19	569.29	2.0	1.22	3.67	Bailer
07/15/10	13.5	561.69	6.30	7.20	575.19	568.89	2.0	1.15	3.46	Bailer
07/22/11	13.5	561.69	6.40	7.10	575.19	568.79	2.0	1.14	3.41	Bailer
07/24/12	13.5	561.69	7.70	5.80	575.19	567.49	2.0	0.93	2.78	Bailer
07/24/13	13.5	561.69	4.10	9.40	575.19	571.09	2.0	0.93	2.78	Bailer
07/15/14	13.5	561.69	5.90	7.60	575.19	569.29	2.0	1.22	3.65	Bailer
07/23/15	13.5	561.69	5.55	7.95	575.19	569.64	2.0	1.27	3.82	Bailer
07/28/16	13.5	561.69	7.55	5.95	575.19	567.64	2.0	0.95	2.85	Bailer
07/27/17	13.5	561.69	6.10	7.40	575.19	569.09	2.0	1.18	3.54	Bailer
07/26/18	13.5	561.69	6.30	7.20	575.19	568.89	2.0	1.15	3.45	Bailer
07/18/19	13.5	561.69	6.15	7.35	575.19	569.04	2.0	1.18	3.54	Bailer
07/29/20	13.5	561.69	6.45	7.05	575.19	568.74	2.0	1.13	3.38	Bailer

TABLE 2C Monitoring Well MW-5 Groundwater Monitoring Well Data 153 Fillmore Avenue Site

Sampling Date	Well Depth Top PVC (ft.)	Well Depth Elevation (ft.)	Depth to Static Water (ft.)	Height of Water (ft.)	Top PVC Elevation (ft.)	Static Water Level Elevation (ft.)	Well Casing Diameter (in.)	Water Volume (gal)	Water Purged (gal)	Purging Method
10/17/01	15.5	562.82	8.41	7.09	578.32	569.91	1.0	0.64	1.91	-
07/26/07	15.5	562.82	9.40	6.10	578.32	568.92	1.0	0.55	1.65	Peristalic Pump
08/27/08	15.5	562.82	6.90	8.60	578.32	571.42	1.0	0.77	1.00	Peristalic Pump
07/22/09	15.5	562.82	8.50	7.00	578.32	569.82	1.0	1.90	1.50	Peristalic Pump
07/15/10	15.5	562.82	8.30	7.20	578.32	570.02	1.0	0.65	1.50	Peristalic Pump
07/22/11	15.5	562.82	8.80	6.70	578.32	569.52	1.0	0.60	1.81	Peristalic Pump
07/24/12	15.5	562.82	10.80	4.70	578.32	567.52	1.0	0.42	1.27	Peristalic Pump
07/24/13	15.5	562.82	4.70	10.80	578.32	573.62	1.0	0.42	1.27	Peristalic Pump
07/15/14	15.5	562.82	7.90	7.60	578.32	570.42	1.0	0.68	2.00	Peristalic Pump
07/23/15	15.5	562.82	6.50	9.00	578.32	571.82	1.0	0.81	1.00	Peristalic Pump
07/28/16	15.5	562.82	10.10	5.40	578.32	568.22	1.0	0.49	0.50	Peristalic Pump
07/27/17	15.5	562.82	7.30	8.20	578.32	571.02	1.0	0.74	0.75	Peristalic Pump
07/26/18	15.5	562.82	8.80	6.70	578.32	569.52	1.0	0.60	0.75	Peristalic Pump
07/18/19	15.5	562.82	7.60	7.90	578.32	570.72	1.0	0.71	0.30	Peristalic Pump
07/29/20	15.5	562.82	8.60	6.90	578.32	569.72	1.0	0.62	0.50	Peristalic Pump

TABLE 2D Monitoring Well MW-6 Groundwater Monitoring Well Data 153 Fillmore Avenue Site

Sampling Date	Well Depth Top PVC (ft.)	Well Depth Elevation (ft.)	Depth to Static Water (ft.)	Height of Water (ft.)	Top PVC Elevation (ft.)	Static Water Level Elevation (ft.)	Well Casing Diameter (in.)	Water Volume (gal)	Water Purged (gal)	Purging Method
10/17/01	17.3	560.83	7.93	9.37	578.13	570.2	1.0	0.84	2.53	-
07/26/07	17.3	560.83	8.50	8.80	578.13	569.63	1.0	0.79	2.38	Peristalic Pump
08/27/08	17.3	560.83	6.70	10.60	578.13	571.43	1.0	0.95	2.86	Peristalic Pump
07/22/09	17.3	560.83	8.70	8.60	578.13	569.43	1.0	0.78	2.34	Peristalic Pump
07/15/10	17.3	560.83	8.10	9.20	578.13	570.03	1.0	0.83	2.48	Peristalic Pump
07/22/11	17.3	560.83	8.50	8.80	578.13	569.63	1.0	0.79	2.38	Peristalic Pump
07/24/12	17.3	560.83	10.20	7.10	578.13	567.93	1.0	0.64	1.92	Peristalic Pump
07/24/13	17.3	560.83	5.60	11.70	578.13	572.53	1.0	0.64	1.92	Peristalic Pump
07/15/14	17.3	560.83	7.60	9.70	578.13	570.53	1.0	0.87	2.60	Peristalic Pump
07/23/15	17.3	560.83	7.10	10.20	578.13	571.03	1.0	0.92	2.75	Peristalic Pump
07/28/16	17.3	560.83	9.80	7.50	578.13	568.33	1.0	0.68	2.04	Peristalic Pump
07/27/17	17.3	560.83	7.70	9.60	578.13	570.43	1.0	0.86	2.58	Peristalic Pump
07/26/18	17.3	560.83	8.50	8.80	578.13	569.63	1.0	0.79	2.37	Peristalic Pump
07/18/19	17.3	560.83	8.10	9.20	578.13	570.03	1.0	0.83	2.49	Peristalic Pump
07/29/20	17.3	560.83	8.60	8.70	578.13	569.53	1.0	0.78	2.35	Peristalic Pump

TABLE 2E Monitoring Well MW-7 Groundwater Monitoring Well Data 153 Fillmore Avenue Site

Sampling Date	Well Depth Top PVC (ft.)	Well Depth Elevation (ft.)	Depth to Static Water (ft.)	Height of Water (ft.)	Top PVC Elevation (ft.)	Static Water Level Elevation (ft.)	Well Casing Diameter (in.)	Water Volume (gal)	Water Purged (gal)	Purging Method
10/17/01	23.5	562.76	4.86	18.64	586.26	581.4	1.0	1.68	5.03	-
07/26/07	23.5	562.76	16.50	7.00	586.26	569.76	1.0	0.63	1.89	Peristalic Pump
08/27/08	23.5	562.76	14.70	8.80	586.26	571.56	1.0	0.79	1.50	Peristalic Pump
07/22/09	23.5	562.76	(1)	(1)	586.26	(1)	1.0	(1)	1.50	Peristalic Pump
07/15/10	23.5	562.76	(1)	(1)	586.26	(1)	1.0	(1)	1.25	Peristalic Pump
07/22/11	23.5	562.76	(1)	(1)	586.26	(1)	1.0	(1)	1.25	Peristalic Pump
07/24/12	23.5	562.76	(1)	(1)	586.26	(1)	1.0	(1)	1.25	Peristalic Pump
07/24/13	23.5	562.76	(1)	(1)	586.26	(1)	1.0	(1)	0.00	Peristalic Pump
07/15/14	23.5	562.76	(1)	(1)	586.26	(1)	1.0	(1)	0.00	Peristalic Pump
07/23/15	23.5	562.76	(1)	(1)	586.26	(1)	1.0	(1)	3.00	Peristalic Pump
07/28/16	23.5	562.76	(1)	(1)	586.26	(1)	1.0	(1)	0.25	Peristalic Pump
07/27/17	23.5	562.76	15.60	7.90	586.26	570.66	1.0	0.71	0.50	Peristalic Pump
07/26/18	23.5	562.76	16.60	6.90	586.26	569.66	1.0	0.62	0.50	Peristalic Pump
07/18/19	23.5	562.76	16.15	7.35	586.26	570.11	1.0	0.66	0.75	Peristalic Pump
07/29/20	23.5	562.76	16.85	6.65	586.26	569.41	1.0	0.60	0.50	Peristalic Pump

Note: 1. There was an obstruction in the well at a depth of 8.8 feet in which the water level indicator could not proceed further down the well. The initial static water level from 2007 and 2008 were used to determine the amount of water to be purged.

TABLE 2F

Monitoring Well MW-8 Groundwater Monitoring Well Data 153 Fillmore Avenue Site

Sampling Date	Well Depth Top PVC (ft.)	Well Depth Elevation (ft.)	Depth to Static Water (ft.)	Height of Water (ft.)	Top PVC Elevation (ft.)	Static Water Level Elevation (ft.)	Well Casing Diameter (in.)	Water Volume (gal)	Water Purged (gal)	Purging Method
10/17/01	17.5	560.93	8.16	9.34	578.43	570.27	1.0	0.84	2.52	-
07/26/07	17.5	560.93	8.50	9.00	578.43	569.93	1.0	0.81	2.43	Peristalic Pump
08/27/08	17.5	560.93	6.90	10.60	578.43	571.53	1.0	0.95	3.00	Peristalic Pump
07/22/09	17.5	560.93	7.80	9.70	578.43	570.63	1.0	0.87	2.62	Peristalic Pump
07/15/10	17.5	560.93	8.40	9.10	578.43	570.03	1.0	0.82	2.46	Peristalic Pump
07/22/11	17.5	560.93	8.90	8.60	578.43	569.53	1.0	0.77	2.32	Peristalic Pump
07/24/12	17.5	560.93	10.60	6.90	578.43	567.83	1.0	0.62	1.86	Peristalic Pump
07/24/13	17.5	560.93	5.10	12.40	578.43	573.33	1.0	0.62	1.86	Peristalic Pump
07/15/14	17.5	560.93	7.90	9.60	578.43	570.53	1.0	0.86	2.60	Peristalic Pump
07/23/15	17.5	560.93	7.10	10.40	578.43	571.33	1.0	0.94	2.82	Peristalic Pump
07/28/16	17.5	560.93	10.00	7.50	578.43	568.43	1.0	0.68	2.04	Peristalic Pump
07/27/17	17.5	560.93	7.90	9.60	578.43	570.53	1.0	0.86	2.58	Peristalic Pump
07/26/18	17.5	560.93	8.8	8.70	578.43	569.63	1.0	0.78	2.34	Peristalic Pump
07/18/19	17.5	560.93	8.4	9.10	578.43	570.03	1.0	0.82	2.46	Peristalic Pump
07/29/20	17.5	560.93	8.7	8.80	578.43	569.73	1.0	0.79	2.38	Peristalic Pump

TABLE 3A Monitoring Well MW-1 Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

	NYSDEC TOGS 1.1.1														
	Water Quality														
Volatile Compounds	Standards ¹	Units	08/07/01	07/22/09	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15	07/28/16	07/27/17	07/26/18	07/18/19	07/29/20
1,1,1-Trichloroethane	5.0	μg/L	-	ND											
1,1,2,2-Tetrachloroethane	5.0	µg/L	-	ND											
1,1,2-Trichloroethane	1.0	μg/L	-	ND											
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	μg/L	-	-	-	-	-	ND							
1,1-Dichloroethane	5.0	μg/L	ND												
1,1-Dichloroethene	5.0	μg/L	ND												
1,2,4-Trichlorobenzene	5.0	μg/L	-	-	-	-	-	ND							
1,2-Dibromo-3-Chloropropane	0.04	μg/L	-	-	-	-	-	ND							
1,2-Dibromoethane	NE	μg/L	-	-	-	-	-	ND							
1,2-Dichlorobenzene	3.0	μg/L	-	-	-	-	-	ND							
1,2-Dichloroethane	0.6	μg/L	-	ND											
1,2-Dichloropropane	1.0	μg/L	-	ND											
1,3-Dichlorobenzene	3.0	μg/L	-	-	-	-	-	ND							
1,4-Dichlorobenzene	3.0	μg/L	-	-	-	-	-	ND							
2-Hexanone	50.0	μg/L	-	ND	ND	ND	ND	-	ND						
2-Butanone	50.0	μg/L	-	ND											
4-Methyl-2-pentanone	NE	μg/L	-	ND											
Acetone	50.0	μg/L	ND												
Benzene	1.0	μg/L	ND												
Bromodichloromethane	50.0	μg/L	-	ND											
Bromoform	50.0	μg/L	-	ND											
Bromomethane	5.0	μg/L	-	ND											
Carbon disulfide	60.0	μg/L	-	ND	ND	ND	ND	-	ND	ND	ND	0.19 J	ND	ND	0.24 J
Carbon tetrachloride	5.0	μg/L	-	ND											
Chlorobenzene	5.0	μg/L	-	ND											
Dibromochloromethane	50.0	μg/L	-	ND											
Chloroethane	5.0	μg/L	-	ND											
Chloroform	7.0	μg/L	-	ND											
Chloromethane	NE	μg/L	-	ND											
cis-1,2-Dichloroethene	5.0	μg/L	47	5.5	13	23	55	13	13	4.1	2.9	1.3	0.88 J	1.0	1.2
cis-1,3-Dichloropropene	0.4	μg/L	-	ND											
Cyclohexane	NE	μg/L	-	-	-	-	-	-	ND						
Dichlorodifluoromethane	5.0	μg/L	-	-	-	-	-	ND							
Ethylbenzene	5.0	μg/L	ND												
Isopropylbenzene	5.0	μg/L	-	-	-	-	-	ND							
Methyl acetate	NE	μg/L	-	-	-	-	-	-	ND						
Methyl tert-butyl ether	10.0	μg/L	-	-	-	-	-	ND							
Methylcyclohexane	NE	μg/L	-	-	-	-	-	-	ND	ND	0.26 J	ND	ND	ND	ND
Methylene chloride	5.0	μg/L	-	ND											
Styrene	5.0	μg/L	ND												
Tetrachloroethene	5.0	μg/L	ND												
Toluene	5.0	μg/L	ND												
trans-1,2-Dichloroethene	5.0	μg/L	ND	ND	ND	ND	2.3 J	ND	0.46J	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	μg/L	-	ND											
Trichloroethene	5.0	μg/L	ND												
Trichlorofluoromethane	5.0	μg/L	-	-	-	-	-	ND							
Vinyl chloride	2.0	μg/L	ND	ND	3 J	3 J	16	1.3	1.3	1.1	0.96 J	ND	ND	ND	ND
m,p-Xylene	5.0	μg/L	ND												
o-Xylene	5.0	μg/L	ND												
Xylenes, Total	5.0	μg/L	ND												
Total VOCs		μg/L	47.0	5.5	16.0	26.0	73.3	14.3	14.8	5.2	4.1	1.49	0.88	1.00	1.44
Total VOCs		mg/L	0.047	0.006	0.016	0.026	0.073	0.014	0.015	0.005	0.004	0.001	0.001	0.001	0.001

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98 Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

* Dilution factor of 5 used

ND - Not detected for at or above reporting limit

J - Analyte detected estimated value below quantitation limits

- = The analyte was not sampled for.

TABLE 3B Monitoring Well MW-2 Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

Volatile Compounds	NYSDEC TOGS 1.1.1 Water Quality Standards ¹	Units	08/07/01	07/22/09	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15	07/28/16	07/27/17	07/26/18	07/18/19	07/29/20
1.1.1-Trichloroethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1.1.2.2-Tetrachloroethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1.1.2-Trichloroethane	1.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	µg/L		-	-	-	-	ND							
1,1-Dichloroethane	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1.1-Dichloroethene	5.0	μg/L μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5.0	μg/L μg/L	-	-	-	-	-	ND							
1,2-Dibromo-3-Chloropropane	0.04	μg/L μg/L	-	_	_		-	ND							
1,2-Dibromoethane	NE	μg/L μg/L						ND							
1,2-Dichlorobenzene	3.0	μg/L μg/L	-	-	-	-	-	ND							
1,2-Dichloroethane	0.6	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
,	1.0	10	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		μg/L												ND	ND
1,3-Dichlorobenzene	3.0	μg/L	-	-	-	-	-	ND	ND	ND	ND	ND	ND		
1,4-Dichlorobenzene	3.0	μg/L	-	-	-	-	-	ND							
2-Hexanone	50.0	μg/L	-	ND	ND	ND	ND	-	ND						
2-Butanone	50.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NE	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50.0	μg/L	ND	ND	ND	11	ND								
Benzene	1.0	μg/L	ND	6.7	ND	5 J	2.9 J	2.3	1.9	4.2	3.4	1.8	1.8 J	1.9 J	1.2 J
Bromodichloromethane	50.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	60.0	μg/L	-	ND	ND	ND	ND	-	ND						
Carbon tetrachloride	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5.0	μg/L	-	ND	ND	ND	ND	ND	0.36J	ND	ND	ND	ND	ND	ND
Dibromochloromethane	50.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NE	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.0	μg/L	ND	ND	54	12	2.7 J	1.4	1.3	1.5	1.7	1.1	ND	ND	ND
cis-1,3-Dichloropropene	0.4	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	NE	μg/L	-	-	-	-	-	-	1.4	1.2	2.8	ND	1.2 J	1.9 J	1.4 J
Dichlorodifluoromethane	5.0	μg/L	-	-	-	-	-	ND							
Ethylbenzene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5.0	µg/L	-	-	-	-	-	ND							
Methyl acetate	NE	μg/L	-	-	-	-	-	-	ND						
Methyl tert-butyl ether	10.0	μg/L	-	-	-	-	-	ND							
Methylcyclohexane	NE	μg/L	-	-	-	-	-	-	0.63 J	ND	ND	0.47 J	ND	ND	ND
Methylene chloride	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3 J	ND	ND
Styrene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5.0	μg/L μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.0	μg/L μg/L	ND	4 J	ND										
trans-1,3-Dichloropropene	0.4	μg/L μg/L	-	A J ND	ND										
Trichloroethene	5.0	10	- ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND
	5.0	μg/L	ND -	ND	ND	ND	ND -	ND ND							
Trichlorofluoromethane		μg/L													
Vinyl chloride	2.0	μg/L	ND	82 ND	64 ND	28	21	7.8	6.5	9.8	14.0	7.1	5.5	6.2	3.3
m,p-Xylene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs		μg/L	0	92.7	118.0	56.0	26.6	11.5	12.1	16.7	21.9	10.47	9.82	10.00	5.90
Total VOCs		mg/L	0.000	0.093	0.118	0.056	0.027	0.012	0.012	0.017	0.022	0.010	0.010	0.010	0.006

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98 Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

* Dilution factor of 5 used

ND - Not detected for at or above reporting limit

J - Analyte detected estimated value below quantitation limits

- = The analyte was not sampled for.

TABLE 3C Monitoring Well MW-6 Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

	NYSDEC TOGS																
	1.1.1 Water																
	Quality																
Volatile Compounds	Standards ¹	Units	08/07/01	07/26/07	08/27/08	07/22/09	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15	07/28/16	07/27/17	07/26/18	07/18/19	07/29/20
1,1,1-Trichloroethane	5.0	μg/L	-	ND													
1,1,2,2-Tetrachloroethane	5.0	μg/L	-	ND													
1,1,2-Trichloroethane	1.0	μg/L	-	ND													
1,1,2-Trichloro-1,2,2-trifluoroethan	5.0	μg/L	-	-	-	-	-	-	-	ND							
1,1-Dichloroethane	5.0	μg/L	ND														
1,1-Dichloroethene	5.0	μg/L	ND														
1,2,4-Trichlorobenzene	5.0	μg/L	-	-	-	-	-	-	-	ND							
1,2-Dibromo-3-Chloropropane	0.04	μg/L	-	-	-	-	-	-	-	ND							
1,2-Dibromoethane	NE	μg/L	-	-	-	-	-	-	-	ND							
1,2-Dichlorobenzene	3.0	μg/L	-	-	-	-	-	-	-	ND							
1,2-Dichloroethane	0.6	μg/L	-	ND													
1,2-Dichloropropane	1.0	μg/L	-	ND													
1,3-Dichlorobenzene	3.0	μg/L	-	-	-	-	-	-	-	ND							
1,4-Dichlorobenzene	3.0	μg/L	-	-	-	-	-	-	-	ND							
2-Hexanone	50.0	μg/L	-	ND	ND	ND	ND	ND	ND	-	ND						
2-Butanone	50.0	μg/L	-	ND													
4-Methyl-2-pentanone	NE	μg/L	-	ND													
Acetone	50.0	μg/L	ND														
Benzene	1.0	µg/L	ND														
Bromodichloromethane	50.0	μg/L	-	ND													
Bromoform	50.0	μg/L	-	ND													
Bromomethane	5.0	μg/L	-	ND													
Carbon disulfide	60.0	μg/L	-	ND	ND	ND	ND	ND	ND	-	ND						
Carbon tetrachloride	5.0	μg/L	-	ND													
Chlorobenzene	5.0	μg/L	-	ND													
Dibromochloromethane	50.0	µg/L	-	ND													
Chloroethane	5.0	μg/L	-	ND													
Chloroform	7.0	μg/L	-	ND													
Chloromethane	NE	μg/L	-	ND													
cis-1,2-Dichloroethene	5.0	μg/L	ND	ND	240	51	2 J	ND									
cis-1,3-Dichloropropene	0.4	μg/L	-	ND													
Cyclohexane	NE	μg/L	-	-	-	-	-	-	-	-	ND						
Dichlorodifluoromethane	5.0	μg/L	-	-	-	-	-	-	-	ND							
Ethylbenzene	5.0	μg/L	ND														
Isopropylbenzene	5.0	μg/L	-	-	-	-	-	-	-	ND							
Methyl acetate	NE	μg/L	-	-	-	-	-	-	-	-	ND						
Methyl tert-butyl ether	10.0	μg/L	-	-	-	-	-	-	-	ND							
Methylcyclohexane	NE	μg/L	-	-	-	-	-	-	-	-	ND						
Methylene chloride	5.0	μg/L	-	ND	1.5 J	ND	ND										
Styrene	5.0	μg/L	ND														
Tetrachloroethene	5.0	μg/L	ND														
Toluene	5.0	μg/L	ND														
trans-1,2-Dichloroethene	5.0	μg/L	ND	ND	ND	3 J	ND										
trans-1,3-Dichloropropene	0.4	μg/L μg/L	-	ND													
Trichloroethene	5.0	μg/L μg/L	ND	ND	ND	2 J	ND										
Trichlorofluoromethane	5.0	μg/L	-	-	-	-	-	-	-	ND							
Vinyl chloride	2.0	μg/L μg/L	ND	ND	99	42	5	ND	ND	ND	ND	0.3	ND	ND	ND	ND	ND
m,p-Xylene	5.0	μg/L μg/L	5	ND													
o-Xylene	5.0	μg/L	ND														
Xylenes, Total	5.0	μg/L μg/L	ND														
Total VOCs		μg/L μg/L	5.0	0	339.0	98.0	7.1	0	0	0	0	0.3	0.0	0.0	1.5	0.0	0.0
Total VOCs		mg/L	0.005	0.000	0.339	0.098	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000
			0.005	0.000	0.007	0.070	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	5.000

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98 Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

* Dilution factor of 5 used

ND - Not detected for at or above reporting limit J - Analyte detected estimated value below quantitation limits

- = The analyte was not sampled for.

TABLE 3D Monitoring Well MW-7 Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

	NYSDEC TOGS 1.1.1 Water Quality																
Volatile Compounds	Standards ¹	Units	08/07/01	07/26/07	08/27/08	07/23/09	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15	07/28/16	07/27/17	07/26/18	07/18/19	07/29/20
1,1,1-Trichloroethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethan	5.0	μg/L	-	-	-	-	-	-	-	*NA	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5.0	μg/L	ND	*NA	ND	ND	ND	ND	ND	ND	ND						
1,1-Dichloroethene	5.0	μg/L	ND	*NA	ND	ND	ND	ND	ND	ND	ND						
1,2,4-Trichlorobenzene	5.0	μg/L	-	-	-	-	-	-	-	*NA	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.04	μg/L	-	-	-	-	-	-	-	*NA	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	NE	μg/L	-	-	-	-	-	-	-	*NA	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3.0	μg/L	-	-	-	-	-	-	-	*NA	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3.0	μg/L	-	-	-	-	-	-	-	*NA	ND	ND	ND	ND	ND	ND	ND
1.4-Dichlorobenzene	3.0	μg/L	-	-	-	-	-	-	-	*NA	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	50.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NE	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
Acetone	50.0	μg/L	ND	ND	ND	ND	ND	27	29	*NA	ND	ND	40	ND	ND	ND	ND
Benzene	1.0	μg/L μg/L	36	ND	ND	1 J	ND	ND	ND	*NA	0.72J	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50.0	μg/L μg/L	50	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
Bromoform	50.0	μg/L μg/L		ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	60.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	50.0	μg/L μg/L		ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
Chloroform	7.0	μg/L μg/L		ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
Chloromethane	7.0 NE	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.0	μg/L μg/L	150	270	ND	14	45	9.4	29	*NA	2.0	ND	ND	ND	4.5	ND	4.0
cis-1,3-Dichloropropene	0.4	μg/L μg/L	130	ND	ND	ND	ND	ND	ND ND	*NA	ND	ND	ND	ND	4.3 ND	ND	ND
	0.4 NE		-							*NA	ND	ND	ND	ND	ND	ND	ND
Cyclohexane Dichlorodifluoromethane	5.0	μg/L μg/L	-	-	-	-	-	-	-	*NA	ND	ND	ND	ND	ND	ND	ND
	5.0	μg/L μg/L	690	ND	ND	- 2 J	ND	ND	ND	*NA	0.9J	ND	ND	ND	ND	ND	ND
Ethylbenzene	5.0		090	ND -		-	ND	ND	ND -	*NA *NA	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene		μg/L	-	-	-	-	-	-								ND ND	ND
Methyl acetate	NE 10.0	μg/L							-	*NA *NA	ND	ND ND	ND ND	ND ND	ND ND	ND	ND
Methyl tert-butyl ether		μg/L	-	-	-	-	-	-	-		ND						
Methylcyclohexane	NE	μg/L	-	-	-	-	-	-	-	*NA	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5.0	μg/L	-	ND ND	ND	ND	ND	ND	ND	*NA	ND	ND	2.2 J	ND	3.6 J	2.3 J	ND
Styrene	5.0	μg/L	16		ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5.0	μg/L	ND	10 J	ND	ND	ND	ND	2.5 J	*NA	ND	ND	ND	ND	ND	ND	ND
Toluene	5.0	μg/L	660	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.0	μg/L	ND	10 J	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5.0	μg/L	19	10 J	ND	5.2	ND	3 J	3.9 J	*NA	1.4	ND	ND	ND	2.0 J	2.4 J	2.8 J
Trichlorofluoromethane	5.0	μg/L	-	-	-	-	-	-	-	*NA	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2.0	μg/L	10	40 J	ND	2 J	ND	ND	17	*NA	ND	2.3	ND	ND	ND	ND	ND
m,p-Xylene	5.0	μg/L	660	ND	ND	ND	ND	ND	ND	*NA	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5.0	μg/L	440	ND	ND	ND	ND	ND	ND	*NA	1.4J	ND	ND	ND	ND	ND	ND
Xylenes, Total	5.0	μg/L	ND	*NA	ND	ND	ND	ND	ND	ND	ND						
Total VOCs		μg/L	2,681.0	340.0	0	24.2	45.0	39.4	81.4	0.0	6.4	2.3	42.2	0.0	10.1	4.7	6.8
Total VOCs		mg/L	2.681	0.340	0.000	0.024	0.045	0.039	0.081	0.000	0.006	0.002	0.042	0.000	0.010	0.005	0.007

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98 Class GA. Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria. NE = NYSDEC TOGS 1.1.1 water quality standard not established.

* Dilution factor of 5 used ND - Not detected for at or above reporting limit

J - Analyte detected estimated value below quantitation limits

- = The analyte was not sampled for.

*NA - Unable to purge or sample due to equipment failure or no water was able to be removed from well. No water was retrievable.

TABLE 3E Monitoring Well MW-8 Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

Volatile Compounds	NYSDEC TOGS 1.1.1 Water Quality Standards ¹	Units	08/07/01	07/26/07	08/27/08	07/23/09*	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15	07/28/16	07/27/17	07/26/18	07/18/19	07/29/20
1,1,1-Trichloroethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethan	5.0	μg/L	-	-	-	-	-	-	-	ND							
1,1-Dichloroethane	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5.0	μg/L	-	-	-	-	-	-	-	ND							
1,2-Dibromo-3-Chloropropane	0.04	μg/L	-	-	-	-	-	-	-	ND							
1,2-Dibromoethane	NE	μg/L	-	-	-	-	-	-	-	ND							
1,2-Dichlorobenzene	3.0	μg/L	-	-	-	-	-	-	-	ND							
1.2-Dichloroethane	0.6	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3.0	μg/L	-	-	-	-	-	-	-	ND							
1,4-Dichlorobenzene	3.0	μg/L	-	-	-	-	-	-	-	ND							
2-Hexanone	50.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	-	ND						
2-Butanone	50.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NE	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50.0	μg/L μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1.0	μg/L μg/L	4	ND	ND	ND	ND	3 J	2.4 J	ND	2.1	2.6	2.6	2.1	2.1	1.2 J	1.3 J
Bromodichloromethane	50.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	60.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5.0							ND									
Chlorobenzene	50.0	μg/L	-	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND	ND ND	ND	ND ND	ND	ND ND	ND ND	ND ND
Dibromochloromethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND ND	ND
Chloroethane		μg/L	-														
Chloroform	7.0 NE	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane		μg/L		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.0	μg/L	31	160	230	370	260	52	22	ND	8.6	5.3	2.8	6.9	6.2	3.5	ND
cis-1,3-Dichloropropene	0.4	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	NE	μg/L	-	-	-	-	-	-	-	-	0.86J	0.43	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5.0	μg/L	-	-	-	-	-	-	-	ND							
Ethylbenzene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5.0	μg/L	-	-	-	-	-	-	-	ND							
Methyl acetate	NE	μg/L	-	-	-	-	-	-	-	-	ND						
Methyl tert-butyl ether	10.0	μg/L	-	-	-	-	-	-	-	ND							
Methylcyclohexane	NE	μg/L	-	-	-	-	-	-	-	-	0.79J	ND	ND	ND	ND	ND	ND
Methylene chloride	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0 J	ND	ND
Styrene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5.0	μg/L	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.0	μg/L	7	15	20 J	20 J	10 J	11	4.9	ND	1.5	1.0	1.0	0.92 J	ND	ND	ND
trans-1,3-Dichloropropene	0.4	μg/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5.0	μg/L	-	-	-	-	-	-	-	ND							
Vinyl chloride	2.0	μg/L	54	190	160	190	240	120	110	ND	30	35	32	19	12	13	4.8
m,p-Xylene	5.0	μg/L	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	5.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs		μg/L	102.0	367.0	410.0	580.0	510.0	186.0	144.2	0.0	43.9	44.3	38.4	28.92	21.30	17.70	6.10
Total VOCs		mg/L	0.102	0.367	0.410	0.580	0.510	0.186	0.144	0.000	0.044	0.044	0.038	0.029	0.021	0.018	0.006

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98 Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria. NE = NYSDEC TOGS 1.1.1 water quality standard not established.

* Dilution factor of 5 used

ND - Not detected for at or above reporting limit

J - Analyte detected estimated value below quantitation limits - = The analyte was not sampled for.

TABLE 4AMonitoring Well MW-1Inorganic Metals Analytical Test Results153 Fillmore Avenue Site

Metals Compounds	NYSDEC TOGS 1.1.1 Water Quality Standards ¹	Units	08/08/01	07/22/09	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15	07/28/16	07/27/17	07/26/18	07/18/19	07/29/20
Aluminum	2,000	μg/L	-	4,760	48.000	37,300	215,000	170,000	62,000	22,000	81,500	18,300	10,000	1,500	24,600
Antimony	6	μg/L	-	ND	ND	ND	ND	3.1	1.4	3.0	ND	ND	ND	ND	ND
Arsenic	50	μg/L	11	ND	23	36	184	150	22	320	550	140	130	200	160
Barium	2,000	μg/L	301	265	590	545	1,920	1,400	840	540	850	300	220	320	330^
Beryllium	3	μg/L	-	ND	ND	ND	7.62	7.50	5.40	ND	4.30	0.86 J	0.39 J	ND	1.2 J
Cadmium	10	μg/L	ND	ND	10.4	ND	151	ND	28	10	16	2.2	1.5 J	ND	3.5
Calcium	NE	μg/L	-	188,000	635,000	400,000	1,130,000	830,000	540,000	240,000	293,000	137,000	115,000	139,000	149,000
Chromium	50	μg/L	ND	ND	67.7	58.2	287	310	100	35	120	21	12	3.8 J	33
Cobalt	NE	μg/L	-	ND	49	35.5	160	200	77	28	67	11	4.8	0.7 J	18.0
Copper	1,000	μg/L	-	16.6	77.7	89.5	437	570	220	88	200	35	18	6.8 J	50
Iron	600	μg/L	-	22,200	112,000	81,800	311,000	420,000	210,000	170,000	276,000 ^	95,300	55,700	113,000	78,500
Lead	50	μg/L	7	3.78	80	62	518	200	38	54	140	28	10	14	31
Magnesium	35,000	μg/L	-	35,800	127,000	61,400	226,000	210,000	130,000	44,000	78,200	24,300	16,700	17,600	27,800
Manganese	600	μg/L	-	2,250	7,410	5,100	9,570	16,000	9,300	4,200	4,500 B	2,100 B	1,400 B	2,000 B	2,300
Mercury	0.7	μg/L	ND	ND	0.22	ND	0.52	0.54	0.23	0.058 J	0.17 J	ND	ND	ND	ND
Nickel	200	μg/L	-	ND	121	78.2	436	410	150	65	160	26	10	ND	43
Potassium	NE	μg/L	-	4,650	12,600	12,400	51,100	26,000	16,000	7,400	20,600	8,500 B	6,400	3,800	10,300
Selenium	10	μg/L	-	ND	3.9	ND	ND	ND	ND	ND	31	ND	ND	ND	ND
Silver	50	μg/L	-	ND	ND	ND	ND	ND	7.2 J	ND	ND	ND	ND	ND	ND
Sodium	NE	μg/L	-	79,500	71,300	81,000	54,000	45,000	77,000	78,000	48,400	40,800 B	63,400	75,700	72,400
Thallium	0.5	μg/L	-	ND	ND	ND	ND	2.6	ND	0.78 J	ND	ND	ND	ND	ND
Vanadium	NE	μg/L	-	ND	102	87	343	360	130	55	170	36	20	7.7	54.0
Zinc	5,000	μg/L	-	28.1	402	307	1,310	1,500	920	350	800	150	71 B	31 B	230

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98. Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected estimated value below quantitation limits

B - Compound was found in the blank and sample.

^ - Instrument related QC is outside acceptance limits.

TABLE 4BMonitoring Well MW-2Inorganic Metals Analytical Test Results153 Fillmore Avenue Site

Metals Compounds	NYSDEC TOGS 1.1.1 Water Quality Standards ¹	Units	08/08/01	07/22/09	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15	07/28/16	07/27/17	07/26/18	07/18/19	07/29/20
Aluminum	2,000	μg/L	-	3,250	98,500	35,400	265,000	34,000	34,000	31,000	187,000	7,000	64,100	37,400	38,500
Antimony	6	μg/L	-	ND	ND	ND	ND	1.5	0.84 J	2.3 J	ND	ND	ND	ND	ND
Arsenic	50	μg/L	5	ND	17	32	297	44	16	100	160	19	90	110	64
Barium	2,000	μg/L	73	261	2,330	724	3,890	1,000	880	730	2,100	250	820	580	570^
Beryllium	3	μg/L	-	ND	5	ND	8.35	ND	1.4 J	ND	7.9	ND	2.8	1.6 J	1.9 J
Cadmium	10	μg/L	ND	ND	20	5.32	233	10	ND	ND	7.4	ND	1.9 J	ND	0.68 J
Calcium	NE	μg/L	-	213,000	1,240,000	417,000	2,550,000	460,000	370,000	51,000	954,000	152,000	306,000	252,000	259,000
Chromium	50	μg/L	ND	ND	146	56.2	336	52	62	51	280	8.8	88	50	55
Cobalt	NE	μg/L	-	ND	90	30.6	190	32	32	31	150	2.7 J	33	19	21
Copper	1,000	μg/L	-	29.1	611	199	1,510	360	220	160	740	13	170	91	100
Iron	600	μg/L	-	11,300	165,000	71,700	393,000	83,000	110,000	130,000	323,000 ^	16,600	123,000	91,300	87,600
Lead	50	μg/L	2	13.1	410	140	1,150	180	40	110	490	13	120	86	82
Magnesium	35,000	μg/L	-	53,400	315,000	119,000	706,000	200,000	160,000	160,000	592,000	40,600	142,000	103,000	10,900
Manganese	600	μg/L	-	490	5,250	2,110	8,930	2,100	1,600	1,400	5,300 B	390 B	1,400 B	970 B	1,100
Mercury	0.7	μg/L	ND	ND	2.8	0.542	2.04	0.67	0.21	0.12 J	1.0	ND	0.24	0.13 J	0.13 J
Nickel	200	μg/L	-	ND	222	71.6	534	89	87	84	380	7.7 J	86	50	60
Potassium	NE	μg/L	-	3,580	20,900	11,000	554,000	8,500	8,100	7,200	51,100	4,900 B	22,400	13,800	13,300
Selenium	10	μg/L	-	ND	5.6	ND	ND	32	11 J	ND	35	ND	ND	ND	ND
Silver	50	μg/L	-	ND	ND	ND	ND	ND	6.1 J	ND	2.2 J	ND	ND	ND	ND
Sodium	NE	μg/L	-	56,900	60,500	58,700	514,000	30,000	44,000	55,000	38,500	36,800 B	35,900	35,300	31,300
Thallium	0.5	μg/L	-	ND	ND	ND	ND	1.1	ND	0.86 J	ND	ND	ND	ND	ND
Vanadium	NE	μg/L	-	ND	153	76	356	73	64	72	390	14	130	75	84
Zinc	5,000	μg/L	-	79.8	2,060	606	4,100	1,200	760	630	2,500	52	560 B	360 B	380

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98. Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected estimated value below quantitation limits

B - Compound was found in the blank and sample.

^ - Instrument related QC is outside acceptance limits.

TABLE 4C

Monitoring Well MW-5 Inorganic Metals Analytical Test Results 153 Fillmore Avenue Site

Metals Compounds	NYSDEC TOGS 1.1.1 Water Quality Standards ¹	Units	08/08/01	07/26/07	08/27/08	07/22/09	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15	07/28/16	07/27/17	07/26/18	07/18/19	07/29/20
Aluminum	2,000	μg/L	-	1,440	5,740	6,990	2,640	1,480	161	140	120	920	390	250	930	230	110 J
Antimony	6	μg/L	-	ND	ND	ND	ND	ND	ND	2.3	0.98 J	2.3	ND	ND	ND	ND	ND
Arsenic	50	μg/L	11	ND	ND	ND	ND	ND	ND	1.6	0.86 J	1.3	ND	ND	ND	ND	ND
Barium	2,000	μg/L	2,390	160	666	522	176	239	172	110	110	180	130	140	140	110	130^
Beryllium	3	μg/L	-	ND													
Cadmium	10	μg/L	22	ND	7	ND	ND	ND	ND	ND	0.72 J	3.7	ND	0.7	2.0	ND	ND
Calcium	NE	μg/L	-	164,000	163,000	193,000	173,000	159,000	140,000	130,000	190,000	190,000	147,000	158,000	162,000	172,000	140,000
Chromium	50	μg/L	ND	ND	13.9	22.1	ND	ND	ND	ND	ND	ND	1.6 J	1.1 J	2.6 J	ND	ND
Cobalt	NE	μg/L	-	ND	1.1 J	0.64 J	ND	ND									
Copper	1,000	μg/L	-	20.8	45.9	79.1	12.9	22	ND	ND	6.8 J	18	2.7 J	5.1 J	8.7 J	ND	2.4 J
Iron	600	μg/L	-	2,880	12,400	17,200	7,090	4,970	3,450	860	2,100	3,000	3,800 ^	3,300	4,000	950	2,900
Lead	50	μg/L	580	64.5	231	527	170	91	ND	4.8	13	82	25	32	57	18	16
Magnesium	35,000	μg/L	-	31,700	38,500	59,600	39,800	34,600	31,400	24,000	35,000	35,000	31,200	32,100	34,000	29,900	26,800
Manganese	600	μg/L	-	530	509	591	569	437	225	190	480	260	220 B	220 B	260 B	280 B	300
Mercury	0.7	μg/L	ND	ND	ND	ND	ND	ND	0.689	ND	ND	0.08	ND	ND	ND	ND	ND
Nickel	200	μg/L	-	ND	13	9.7 J	15	14	5.5 J	16							
Potassium	NE	μg/L	-	ND	4,270	2,030	ND	ND	ND	1,200	680 J	1,300	1,700	1,700 B	1,900	710	2,100
Selenium	10	μg/L	-	8.1	ND	ND	ND	ND	47.7	ND	22.0	ND	ND	ND	ND	ND	ND
Silver	50	μg/L	-	ND													
Sodium	NE	μg/L	-	24,200	18,400	17,200	20,100	19,000	11,000	19,000	25,000	32,000	15,900	23,600 B	18,900	46,200	24,600
Thallium	0.5	μg/L	-	ND													
Vanadium	NE	μg/L	-	ND	1.9 J	3.3 J	ND	ND									
Zinc	5,000	μg/L	-	1,690	2,310	1,670	2,740	984	165	550	340	920	300	510	910 B	170 B	600

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98. Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected estimated value below quantitation limits

B - Compound was found in the blank and sample.

^ - Instrument related QC is outside acceptance limits.

TABLE 4D

Monitoring Well MW-6 Inorganic Metals Analytical Test Results 153 Fillmore Avenue Site

Metals Compounds	NYSDEC TOGS 1.1.1 Water Quality Standards ¹	Units	08/08/01	07/26/07	08/27/08	07/23/09	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15	07/28/16	07/27/17	07/26/18	07/18/19	07/29/20
Aluminum	2,000	μg/L	-	148	1,630	843	941	202	ND	120	180	980	1,600	140 J	87 J	250	190 J
Antimony	6	μg/L	-	ND	0.84 J	0.58	ND	ND	ND	ND	ND						
Arsenic	50	μg/L	ND	1.0	1.1	1.7	ND	ND	ND	ND	ND						
Barium	2,000	μg/L	1,660	234	242	230	213	191	207	180	180	190	220	220	200	190	190^
Beryllium	3	μg/L	-	ND													
Cadmium	10	μg/L	ND	0.97 J	ND	ND	ND	ND									
Calcium	NE	μg/L	-	156,000	132,000	146,000	137,000	130,000	149,000	140,000	140,000	170,000	149,000	153,000	147,000	136,000	137,000
Chromium	50	μg/L	22	ND	ND	ND	ND	ND	ND	11	ND	ND	4	ND	ND	ND	ND
Cobalt	NE	μg/L	-	ND	0.87 J	ND	ND	ND	ND								
Copper	1,000	μg/L	-	ND	5.5 J	ND	ND	ND	ND								
Iron	600	μg/L	-	7,270	10,700	8,050	9,530	7,090	6,220	9,800	8,000	9,600	8,000 ^	5,900	5,800	8,300	7,200
Lead	50	μg/L	84	ND	5.91	3.82	9.5	ND	ND	1.7	3.8	9.7	16.0	ND	ND	ND	3 J
Magnesium	35,000	μg/L	-	27,900	24,300	27,900	24,600	24,800	29,100	27,000	29,000	30,000	30,600	30,700	28,900	27,500	26,800
Manganese	600	μg/L	-	1,200	2,720	1,690	1,860	1,480	1,080	2,500	1,700	1,800	1,100 B	1,200 B	1,100 B	1,700 B	1,300
Mercury	0.7	μg/L	0.2	ND	0.06	0.13 J	ND	ND	ND	ND							
Nickel	200	μg/L	-	ND	2.1 J	ND	ND	ND	ND								
Potassium	NE	μg/L	-	2,190	3,190	3,260	ND	ND	ND	3,100	2,900	3,500	4,200	3,600 B	3,300	2,800	2,800
Selenium	10	μg/L	-	13.5	ND	ND	ND	ND	ND	ND	23.0	ND	ND	ND	ND	ND	ND
Silver	50	μg/L	-	ND													
Sodium	NE	μg/L	-	21,600	21,600	20,600	16,900	16,000	14,700	14,000	12,000	4,200	29,500	22,900 B	14,600	11,400	13,700
Thallium	0.5	μg/L	-	ND													
Vanadium	NE	μg/L	-	ND	2.7 J	ND	ND	ND	ND								
Zinc	5,000	μg/L	-	63.2	47.6	29.4	39.7	51.6	18.7	ND	40 J	120	180	32	22 B	38 B	20.0

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98. Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected estimated value below quantitation limits

B - Compound was found in the blank and sample.

^ - Instrument related QC is outside acceptance limits.

TABLE 4E

Monitoring Well MW-7 Inorganic Metals Analytical Test Results 153 Fillmore Avenue Site

Metals Compounds	NYSDEC TOGS 1.1.1 Water Quality Standards ¹	Units	08/08/01	07/26/07	08/27/08	07/23/09	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15	07/28/16	07/27/17	07/26/18	07/18/19	07/29/20
Aluminum	2,000	μg/L	-	3,390	22,700	4,050	2,120	5,360	4,970	*NA	1,300	1,700	7,300	1,500	820	590	2,400
Antimony	6	μg/L	-	ND	ND	ND	ND	ND	35.5	*NA	3.2	4.2	ND	10 J	7.0 J	9.3 J	15 J
Arsenic	50	μg/L	6.0	ND	ND	ND	5.7	ND	115	*NA	3.3	2.1	ND	ND	ND	ND	ND
Barium	2,000	μg/L	163	76.2	173	96	64	84.4	102	*NA	72	56	74	66	71	68	74^
Beryllium	3	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND	0.35 J	ND	ND	ND	ND
Cadmium	10	μg/L	ND	11.7	40.2	ND	ND	15.7	50.3	*NA	2.2 J	12	58	6.3	5.8	11.0	32.0
Calcium	NE	μg/L	-	145,000	299,000	166,000	135,000	185,000	149,000	*NA	160,000	180,000	165,000	206,000	171,000	178,000	144,000
Chromium	50	μg/L	ND	7.3	36.6	ND	ND	10.8	10.9	*NA	1.9 J	ND	15	2.2 J	1.6 J	1.5 J	4.9
Cobalt	NE	μg/L	-	ND	30.0	ND	ND	ND	ND	*NA	8.6 J	16.0	22	25	15	16	11
Copper	1,000	μg/L	-	106	293	162	63	134	250	*NA	40	67	330	230	110	220	270
Iron	600	μg/L	-	11,200	38,000	15,200	9,950	17,000	13,500	*NA	10,000	6,200	14,500 ^	13,000	4,900	9,800	4,700
Lead	50	μg/L	36	96.6	451	231	120	180	329	*NA	82	100	450	300	150	500	430
Magnesium	35,000	μg/L	-	38,100	60,500	30,600	29,500	43,500	30,700	*NA	27,000	24,000	27,500	29,600	25,000	26,300	22,900
Manganese	600	μg/L	-	942	2,210	1,380	508	1,440	849	*NA	1,200	1,300	1,600 B	3,100 B	1,800 B	1,900 B	1,200
Mercury	0.7	μg/L	ND	ND	0.21	ND	ND	ND	0.54	*NA	ND	0.08	0.16 J	ND	ND	0.15 J	0.15 J
Nickel	200	μg/L	-	ND	112	36.8	ND	36.2	32.7	*NA	21	37	57	41	31	28	26
Potassium	NE	μg/L	-	12,500	15,000	13,900	9,940	11,100	11,100	*NA	7,100	7,100	8,300	8,600 B	7,800	7,600	7,400
Selenium	10	μg/L	-	17.1	ND	ND	ND	ND	119	*NA	14 J	ND	ND	ND	ND	ND	ND
Silver	50	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND						
Sodium	NE	μg/L	-	72,900	34,500	88,600	72,100	65,100	58,600	*NA	39,000	31,000	35,600	37,300 B	27,100	28,800	31,600
Thallium	0.5	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	0.2	ND	ND	ND	ND	ND
Vanadium	NE	μg/L	-	ND	46.0	ND	ND	ND	ND	*NA	3 J	ND	15	5.4	4.3 J	4.3 J	7.4
Zinc	5,000	μg/L	-	2,540	21,000	7,010	2,470	6,270	7,080	*NA	3,500	9,200	17,800	7,100	9,100 B	7,800 B	11,300

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98. Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected estimated value below quantitation limits

- = The analyte was not sampled for.

B - Compound was found in the blank and sample.

^ - Instrument related QC is outside acceptance limits.

*NA - Unable to purge or sample due to equipment failure or no water was able to be removed from well. No water was retrievable.

TABLE 4F Monitoring Well MW-8

Inorganic Metals Analytical Test Results

153 Fillmore Avenue Site

Metals Compounds	NYSDEC TOGS 1.1.1 Water Quality Standards ¹	Units	08/08/01	07/26/07	08/27/08	07/22/09	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15	07/28/16	07/27/17	07/26/18	07/18/19	07/29/20
Aluminum	2,000	μg/L	-	ND	1,420	722	199	ND	ND	130	46 J	ND	83 J	1,100	140 J	190 J	ND
Antimony	6	μg/L	-	ND	ND	ND	ND	ND	ND	6.0	0.61 J	0.67	ND	ND	ND	ND	ND
Arsenic	50	μg/L	14.0	ND	ND	ND	ND	ND	ND	22.0	1.7	2.0	ND	7.9 J	ND	ND	ND
Barium	2,000	μg/L	880	172	175	125	133	107	110	180	120	140	110	100	83	120	130^
Beryllium	3	μg/L	-	ND													
Cadmium	10	μg/L	ND	1.1 J	0.69 J	0.52 J	ND										
Calcium	NE	μg/L	-	157,000	149,000	141,000	144,000	141,000	147,000	140,000	160,000	230,000	160,000	136,000	139,000	150,000	128,000
Chromium	50	μg/L	15	ND	1.3 J	1.1 J	1.6 J	ND									
Cobalt	NE	μg/L	-	ND	1.0 J	ND	ND	ND									
Copper	1,000	μg/L	-	10.4	15.0	ND	ND	ND	ND	23.0	ND	ND	ND	23	2.9 J	3.1 J	1.6 J
Iron	600	μg/L	-	3,230	4,640	3,120	2,870	3,090	3,650	8,600	4,100	5,300	1,900 ^	4,000	2,400	2,700	1,700
Lead	50	μg/L	270	ND	15.4	5.4	11.0	ND	16.6	98.0	5.4	9.2	6.6 J	89	5.4 J	12	3.4 J
Magnesium	35,000	μg/L	-	28,700	27,100	28,100	25,300	26,200	28,300	19,000	34,000	43,000	31,800	26,500	27,200	24,500	16,900
Manganese	600	μg/L	-	802	891	618	665	817	819	1,500	820	1,400	700 B	650 B	420 B	750 B	600
Mercury	0.7	μg/L	ND														
Nickel	200	μg/L	-	ND	2.4 J	ND	ND	ND									
Potassium	NE	μg/L	-	1,780	4,060	3,080	ND	ND	ND	6,800	2,700	4,400	3,800	4,400 B	2,700	5,100	6,100
Selenium	10	μg/L	-	9.5	ND	ND	ND	ND	24.1	ND	19 J	ND	ND	ND	ND	ND	ND
Silver	50	μg/L	-	ND													
Sodium	NE	μg/L	-	30,100	24,000	22,600	22,600	22,700	19,800	15,000	19,000	52,000	44,000	34,200 B	23,600	19,200	15,900
Thallium	0.5	μg/L	-	ND	ND	ND	ND	ND	ND	1.1	ND						
Vanadium	NE	μg/L	-	ND	2.7 J	ND	ND	1.5 J									
Zinc	5,000	μg/L	-	189	630	250	375	33	43.3	240	80	100	36	440	6.6 B	50 B	18

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 06/98. Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected estimated value below quantitation limits

B - Compound was found in the blank and sample.

^ - Instrument related QC is outside acceptance limits.

APPENDIX A

Groundwater Field Sampling Records

SITE	153 Fi	llmore Avenue			_		DATE	07/29/20		
Samplers:	Brian I Jason I	Doyle LaMonaco			-		SAMPLE ID	MW-01		
		Depth of well (fro Initial static water Top of PVC Casir	level (from	top of casing		13.83 6.50 574.80		L 560.97 L 568.30		
Evacuatio	on Metho	od:					Well Volun	ne Calculation		
Perist	altic		Centrifugal		-	1 in. casing:		ft. of water x .09 =		gallons
Airlift	ť	I	Pos. Displ.		-	2 in. casing:	7	3 ft. of water x .16 =		1.17 gallons
Bailer	r	<u> </u>	No. of bails		-	3 in. casing:		ft. of water x .36 =		gallons
Volun	me of wate	er removed > 3 volumes: dry:	3.52 YES yes	gals. no NO]]					
Field Test	is:	Temp: pH Conductivity DO Turbidity Oxidation Reduction	on Potentia	l (ORP)	5.78 NA	-				
Sampling:	:							Time:	11:30 AM	
Sampling Mo	ethod:	Peristaltic Pump Disposable Bailer Disposable Tubing		X	- - -					
Observatio	ons:									
	Weathe	r/Temperature:	Partly Clou	ıdy, 80° F						
	Physica	ll Appearance and C	Odor of Sam	ple:	Reddish	brown. No	odor.			
Comment	s <u>:</u>	Field equipment	unable to	record a tur	bidity rea	ding due to	very murky	water.		

SITE	153 Fillmore Avenue	2				DATE	_(07/29/20		
-	Brian Doyle Jason LaMonaco					SAMPLE I	D <u>N</u>	AW-02; FD)	
	Initial static w	(from top of cas ater level (from asing Elevation	top of casing	;)	13.5 6.45 575.19		EL 56 EL 56			
Evacuation	n Method:					Well Volu	ıme C	alculation		
Perista	ltic	Centrifugal			1 in. casing:		ft.	of water x .09	9 =	gallons
Airlift		Pos. Displ.			2 in. casing:		7.1 ft.	of water x .1	6 =	1.13 gallons
Bailer	<u> </u>	>> No. of bails			3 in. casing:		ft.	of water x .3	6 =	gallons
Volum	e of water removed > 3 volumes: dry:	3.38 YES yes	gals. no NO							
Field Tests	pH Conductivity DO Turbidity	luction Potential	(ORP)	8.40	mS/cm mg/L NTUs					
Sampling:							Ti	ime:	12:00 PM	
Sampling Me	thod: Peristaltic Pump Disposable Bail Disposable Tub	er	X							
Observatio	ons:									
	Weather/Temperature:	Partly Clou	1dy, 80° F							
	Physical Appearance as	nd Odor of Sam	ple:	Initially 1	ight brown,	, then brow	/n, mu	irky and tu	rbid	
Comments	: Field equipm	ent unable to 1	record a turb	oidity read	ling due to	very murk	y wate	er.		

SITE	153 Fi	llmore Avenue			_		DATE	07/29/20		
Sampler:	Brian Jason J	Doyle LaMonaco			_		SAMPLE I	D <u>MW-05</u>		
		Depth of well (Initial static wa Top of PVC Ca	ter level (from	top of casin		15.5 8.6 578.32		EL 562.82 EL 569.72		
Evacuatio	on Metho	od:					Well Volu	me Calculation		
Perist	taltic	X	Centrifugal		_	1 in. casing:	(6.9 ft. of water x .09 =		0.62 gallons
Airlif	ft		Pos. Displ.		_	2 in. casing:		ft. of water $x . 16 =$: 	gallons
Baile	r	>>>	> No. of bails		_	3 in. casing:		ft. of water x $.36 =$		gallons
Volui	me of wate	er removed > 3 volumes: dry:	0.50 yes YES	gals. NO no						
Field Test	ts:	Temp: pH Conductivity DO Turbidity Oxidation Redu	action Potentia	ıl (ORP)	10.75 33.4	-				
Sampling	:							Time:	1:30 PM	
Sampling M	lethod:	Peristaltic Pump Disposable Baile Disposable Tubir		X X	-					
Observati	ons:									
	Weathe	er/Temperature:	Partly Clou	udy, 80° F						
	Physica	al Appearance and	d Odor of Sam	ple:	Cloudy,	then clear; 1	10 odor.			
G			0.5.11			c 11				

Comments: Approximately 0.5 gallons of water removed before well went dry.

SITE	153 Fi	llmore Avenue			_		DATE	07/29/20		
Sampler:	Brian J Jason J	Doyle LaMonaco			-		SAMPLE I	D <u>MW-06</u>		
		Depth of well (Initial static wa Top of PVC Ca	ater level (from	top of casin		17.3 8.6 578.13		EL 560.83 EL 569.53		
Evacuatio	n Metho	od:					Well Volu	me Calculation		
Perist	altic	X	Centrifugal		-	1 in. casing:	:	8.7 ft. of water x .09	=	0.78 gallons
Airlif	ť		Pos. Displ.		-	2 in. casing:		ft. of water x .16	=	gallons
Bailer	r	>>	>> No. of bails		-	3 in. casing:		ft. of water x .36	=	gallons
Volur	ne of wate	er removed > 3 volumes: dry:	2.35 YES yes	gals. no NO						
Field Test	s:	Temp: pH Conductivity DO Turbidity Oxidation Red	uction Potentia	l (ORP)	4.76 16.5	-				
Sampling:	:							Time:	2:00 PM	
Sampling M	ethod:	Peristaltic Pump Disposable Baile Disposable Tubi		X X	-					
Observatio	ons:									
	Weathe	er/Temperature:	Partly Clou	udy, 80° F						
	Physica	al Appearance an	d Odor of Sam	iple:	Clear wi	th slight oil	residue. N	o odor.		
Comment	s:									

SITE	153 Fil	Imore Avenue		DATE	07/29/20	
Sampler:	Brian E Jason L	Doyle aMonaco		SAMPLE ID	MW-07	
		Depth of well (from top of casing) Initial static water level (from top of casing Top of PVC Casing Elevation			562.76 569.41	
Evacuatio	on Metho	d:		Well Volume	e Calculation	
Perist	taltic	X Centrifugal	1 in. casing:	6.7	ft. of water x $.09 =$	0.60 gallons
Airlif	Ìt	Pos. Displ.	2 in. casing:		ft. of water x $.16 =$	gallons
Baile	r	>>> No. of bails	3 in. casing:		ft. of water x $.36 =$	gallons
Volu	me of wate	r removed 0.50 gals. > 3 volumes: yes NO dry: YES no]			
Field Test	ts:	Temp: pH Conductivity DO Turbidity Oxidation Reduction Potential (ORP)	27.14 °C 7.12 0.875 mS/cm 6.21 mg/L 154 NTUs 110 mV			
Sampling	:				Time: 3:15	РМ
Sampling M	ethod:	Peristaltic Pump X Disposable Bailer Disposable Tubing X				
Observati	ons:					
	Weather	/Temperature: Partly Cloudy, 85° F				
	Physical	Appearance and Odor of Sample:	Slightly brown, no o	odor		
Commont		Approximately 0.5 gollons of water re-	novad bafara wall w	ont dry		

Comments: Approximately 0.5 gallons of water removed before well went dry.

SITE	153 Fi	llmore Avenue			_		DATE		07/29/20		
Sampler:	Brian I Jason I	Doyle LaMonaco			-		SAMPLE	ID	MW-08		
		Depth of well (f Initial static wat Top of PVC Ca	ter level (from	top of casing		17.5 8.7 578.43			560.93 569.73		
Evacuatio	n Metho	od:					Well Vol	lume	Calculation		
Perist	altic	X	Centrifugal		_	1 in. casing:		8.8	ft. of water x .09 =	=	0.79 gallons
Airlif	ť		Pos. Displ.		_	2 in. casing:			ft. of water x .16 =	=	gallons
Bailer	r	>>>:	> No. of bails		-	3 in. casing:			ft. of water x .36 =	=	gallons
Volur	me of wate	er removed > 3 volumes: dry:	2.38 YES yes	gals. no NO]						
Field Test	s:	Temp: pH Conductivity DO Turbidity Oxidation Redu	ction Potentia	l (ORP)	5.04	-					
Sampling	:								Time:	2:30 PM	
Sampling M	ethod:	Peristaltic Pump Disposable Bailer Disposable Tubin		X X	-						
Observati	ons:										
	Weathe	r/Temperature:	Partly Clou	ıdy, 85° F							
	Physica	l Appearance and	l Odor of Sam	ple:	<u>Clear wi</u>	th some sed	iment froi	m bo	ttom of well, so	ome odor	
Comment	s <u>:</u>										

APPENDIX B

Laboratory Analytical Results

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-173137-1

Client Project/Site: 153 Fillmore Avenue Groundwater Analysis

For:

City of Tonawanda 200 Niagara Street Tonawanda, New York 14150

Attn: Brian Doyle

Joseph V. Gireomoyje

Authorized for release by: 8/11/2020 3:39:11 PM Joe Giacomazza, Project Manager I joe.giacomazza@testamericainc.com

Designee for

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

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

LINKS Review your project results through TOTOLACCESS Have a Question? Ask The Expert Visit us at:

www.eurofinsus.com/Env

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Definitions/Glossary

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

Job ID: 480-173137-1

Qualifiers

Qualifiers		3
GC/MS VOA Qualifier	Qualifier Description	4
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
Metals		5
Qualifier	Qualifier Description	
٨	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	

Glossarv

Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	- 7
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	- 5
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

Job ID: 480-173137-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-173137-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 7/29/2020 3:30 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.7° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-543288 recovered outside acceptance criteria, low biased, for 1,1,2-Trichloro-1,2,2-trifluoroethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The associated sample is impacted: MW-05 (480-173137-3).

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-02 (480-173137-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-07 (480-173137-5) and MW-08 (480-173137-6). Elevated reporting limits (RLs) are provided.

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

Metals

Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. MW-01 (480-173137-1), MW-02 (480-173137-2), MW-05 (480-173137-3), MW-06 (480-173137-4), MW-07 (480-173137-5), MW-08 (480-173137-6), FD @ MW-02 (480-173137-7), (LCS 480-543096/2-A) and (MB 480-543096/1-A)

Method 6010C: The continuing calibration verification (CCV 480-543516/27) associated with batch 480-543516 recovered above the upper control limit for Total Selenium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 6010C: The Low Level Continuing Calibration Verification, (CCVL 480-543516/29) associated with batch 480-543516, contained Total Arsenic above the upper quality control limit. The associated samples were either ND for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples MW-05 (480-173137-3), MW-06 (480-173137-4), MW-07 (480-173137-5), MW-08 (480-173137-6) and (MB 480-543096/1-A) was not performed.

Method 6010C: The continuing calibration verification (CCV 480-543516/39) associated with batch 480-543516 recovered above the upper control limit for Total Selenium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 6010C: The Low Level Continuing Calibration Verification, (CCVL 480-543516/41) associated with batch 480-543516, contained Total Arsenic above the upper quality control limit. The associated samples were either ND for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples MW-07 (480-173137-5) and MW-08 (480-173137-6) was not performed.

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

Client Sample ID: MW-01

5

Lab Sample ID: 480-173137-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Carbon disulfide	0.24	J	1.0	0.19	ug/L	1	8260C	Total/NA
cis-1,2-Dichloroethene	1.2		1.0	0.81	ug/L	1	8260C	Total/NA
Aluminum	24.6		0.20	0.060	mg/L	1	6010C	Total/NA
Arsenic	0.16		0.015	0.0056	mg/L	1	6010C	Total/NA
Barium	0.33	۸	0.0020	0.00070	mg/L	1	6010C	Total/NA
Beryllium	0.0012	J	0.0020	0.00030	mg/L	1	6010C	Total/NA
Cadmium	0.0035		0.0020	0.00050	mg/L	1	6010C	Total/NA
Calcium	149		0.50	0.10	mg/L	1	6010C	Total/NA
Chromium	0.033		0.0040	0.0010	mg/L	1	6010C	Total/NA
Cobalt	0.018		0.0040	0.00063	mg/L	1	6010C	Total/NA
Copper	0.050		0.010	0.0016	mg/L	1	6010C	Total/NA
Iron	78.5		0.050	0.019	mg/L	1	6010C	Total/NA
Lead	0.031		0.010	0.0030	mg/L	1	6010C	Total/NA
Magnesium	27.8		0.20	0.043	mg/L	1	6010C	Total/NA
Manganese	2.3		0.0030	0.00040	mg/L	1	6010C	Total/NA
Nickel	0.043		0.010	0.0013	mg/L	1	6010C	Total/NA
Potassium	10.3		0.50	0.10	mg/L	1	6010C	Total/NA
Sodium	72.4		1.0	0.32	mg/L	1	6010C	Total/NA
Vanadium	0.054		0.0050	0.0015	mg/L	1	6010C	Total/NA
Zinc	0.23		0.010	0.0015	mg/L	1	6010C	Total/NA

Client Sample ID: MW-02

Lab Sample ID: 480-173137-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.2	J	2.0	0.82	ug/L	2	_	8260C	Total/NA
Cyclohexane	1.4	J	2.0	0.36	ug/L	2		8260C	Total/NA
Vinyl chloride	3.3		2.0	1.8	ug/L	2		8260C	Total/NA
Aluminum	38.5		0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.064		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.57	٨	0.0020	0.00070	mg/L	1		6010C	Total/NA
Beryllium	0.0019	J	0.0020	0.00030	mg/L	1		6010C	Total/NA
Cadmium	0.00068	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	259		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.055		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.021		0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.10		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	87.6		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.082		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	109		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.1		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.060		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	13.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	31.3		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.084		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.38		0.010	0.0015	mg/L	1		6010C	Total/NA
Mercury	0.00013	J	0.00020	0.00012	mg/L	1		7470A	Total/NA

Client Sample ID: MW-05

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Isopropylbenzene	1.5		1.0	0.79	ug/L	1	_	8260C	 Total/NA
Aluminum	0.11	J	0.20	0.060	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Lab Sample ID: 480-173137-3

Client Sample ID: MW-05 (Continued)

Lab Sample ID: 480-173137-3

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Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.13	^	0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	140		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0024	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	2.9		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.016		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	26.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.30		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.016		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	2.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	24.6		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.60		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: MW-06

Lab Sample ID: 480-173137-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.19	J	0.20	0.060	mg/L	1	_	6010C	Total/NA
Barium	0.19	^	0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	137		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	7.2		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0030	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	26.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.3		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	2.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	13.7		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.020		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: MW-07

Lab Sample ID: 480-173137-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.0		4.0	3.2	ug/L	4	_	8260C	Total/NA
Trichloroethene	2.8	J	4.0	1.8	ug/L	4		8260C	Total/NA
Aluminum	2.4		0.20	0.060	mg/L	1		6010C	Total/NA
Antimony	0.015	J	0.020	0.0068	mg/L	1		6010C	Total/NA
Barium	0.074	٨	0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.032		0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	144		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0049		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.011		0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.27		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	4.7		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.43		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	22.9		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.2		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.026		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	7.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	31.6		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0074		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	11.3		0.010	0.0015	mg/L	1		6010C	Total/NA
Mercury	0.00015	J	0.00020	0.00012	mg/L	1		7470A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: MW-08

Lab Sample ID: 480-173137-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Benzene	1.3	J	2.0	0.82	ug/L	2	8260C	Total/NA
Vinyl chloride	4.8		2.0	1.8	ug/L	2	8260C	Total/NA
Barium	0.13	۸	0.0020	0.00070	mg/L	1	6010C	Total/NA
Calcium	128		0.50	0.10	mg/L	1	6010C	Total/NA
Copper	0.0016	J	0.010	0.0016	mg/L	1	6010C	Total/NA
Iron	1.7		0.050	0.019	mg/L	1	6010C	Total/NA
Lead	0.0034	J	0.010	0.0030	mg/L	1	6010C	Total/NA
Magnesium	16.9		0.20	0.043	mg/L	1	6010C	Total/NA
Manganese	0.60		0.0030	0.00040	mg/L	1	6010C	Total/NA
Potassium	6.1		0.50	0.10	mg/L	1	6010C	Total/NA
Sodium	15.9		1.0	0.32	mg/L	1	6010C	Total/NA
Vanadium	0.0015	J	0.0050	0.0015	mg/L	1	6010C	Total/NA
Zinc	0.018		0.010	0.0015	mg/L	1	6010C	Total/NA

Client Sample ID: FD @ MW-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	35.7		0.20	0.060	mg/L	1	_	6010C	Total/NA
Arsenic	0.063		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.56	٨	0.0020	0.00070	mg/L	1		6010C	Total/NA
Beryllium	0.0016	J	0.0020	0.00030	mg/L	1		6010C	Total/NA
Cadmium	0.00068	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	269		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.050		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.019		0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.093		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	79.3		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.077		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	114		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.1		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.054		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	13.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	31.2		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.076		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.34		0.010	0.0015	mg/L	1		6010C	Total/NA
Mercury	0.00018	J	0.00020	0.00012	mg/L	1		7470A	Total/NA

Client Sample ID: MW-01 Date Collected: 07/29/20 11:30

Date Received: 07/29/20 15:30

Method: 8260C - Volatile Organic	Result Q	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	 1.0	0.82	ug/L			08/02/20 13:54	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			08/02/20 13:54	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			08/02/20 13:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			08/02/20 13:54	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			08/02/20 13:54	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			08/02/20 13:54	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			08/02/20 13:54	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			08/02/20 13:54	1
1,2-Dibromoethane	ND	1.0	0.73	ug/L			08/02/20 13:54	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			08/02/20 13:54	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			08/02/20 13:54	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			08/02/20 13:54	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			08/02/20 13:54	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			08/02/20 13:54	1
2-Hexanone	ND	5.0	1.2	ug/L			08/02/20 13:54	1
2-Butanone (MEK)	ND	10	1.3	ug/L			08/02/20 13:54	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			08/02/20 13:54	1
Acetone	ND	10	3.0	ug/L			08/02/20 13:54	1
Benzene	ND	1.0	0.41	ug/L			08/02/20 13:54	1
Bromodichloromethane	ND	1.0	0.39	ug/L			08/02/20 13:54	1
Bromoform	ND	1.0	0.26	ug/L			08/02/20 13:54	1
Bromomethane	ND	1.0	0.69	ug/L			08/02/20 13:54	1
Carbon disulfide	0.24 J	1.0	0.19	ug/L			08/02/20 13:54	1
Carbon tetrachloride	ND	1.0	0.27	-			08/02/20 13:54	1
Chlorobenzene	ND	1.0	0.75				08/02/20 13:54	1
Dibromochloromethane	ND	1.0	0.32	-			08/02/20 13:54	1
Chloroethane	ND	1.0	0.32	-			08/02/20 13:54	1
Chloroform	ND	1.0	0.34				08/02/20 13:54	1
Chloromethane	ND	1.0	0.35	-			08/02/20 13:54	1
cis-1,2-Dichloroethene	1.2	1.0	0.81	-			08/02/20 13:54	1
cis-1,3-Dichloropropene	ND	1.0	0.36				08/02/20 13:54	1
Cyclohexane	ND	1.0	0.18	-			08/02/20 13:54	1
Dichlorodifluoromethane	ND	1.0	0.68	-			08/02/20 13:54	1
Ethylbenzene	ND	1.0	0.74				08/02/20 13:54	
Isopropylbenzene	ND	1.0	0.79	-			08/02/20 13:54	1
Methyl acetate	ND	2.5		ug/L			08/02/20 13:54	1
Methyl tert-butyl ether	ND	1.0	0.16	.			08/02/20 13:54	
Methylcyclohexane	ND	1.0	0.16	-			08/02/20 13:54	1
Methylene Chloride	ND	1.0	0.44				08/02/20 13:54	1
Styrene	ND	1.0	0.73				08/02/20 13:54	1
Tetrachloroethene	ND	1.0	0.36	-			08/02/20 13:54	1
Toluene	ND	1.0	0.50				08/02/20 13:54	1
trans-1,2-Dichloroethene	ND	1.0	0.90				08/02/20 13:54	· · · · · · · · · · · · · · · · · · ·
trans-1,3-Dichloropropene	ND	1.0	0.90	-			08/02/20 13:54	1
Trichloroethene	ND	1.0	0.37	-			08/02/20 13:54	1
Trichlorofluoromethane		1.0 1.0					08/02/20 13:54	۱ ۰۰۰۰۰۰
	ND		0.88					1
Vinyl chloride	ND	1.0	0.90	-			08/02/20 13:54	1
Xylenes, Total	ND	2.0	0.66	ug/L			08/02/20 13:54	1

Lab Sample ID: 480-173137-1

Matrix: Water

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Eurofins TestAmerica, Buffalo

Job ID: 480-173137-1

Client Sample ID: MW-01

Date Collected: 07/29/20 11:30 Date Received: 07/29/20 15:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		77 - 120		08/02/20 13:54	1
Toluene-d8 (Surr)	92		80 - 120		08/02/20 13:54	1
4-Bromofluorobenzene (Surr)	95		73 - 120		08/02/20 13:54	1
Dibromofluoromethane (Surr)	86		75 - 123		08/02/20 13:54	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Aluminum	24.6		0.20	0.060	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Antimony	ND		0.020	0.0068	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Arsenic	0.16		0.015	0.0056	mg/L		08/03/20 10:13	08/05/20 14:14	1	
Barium	0.33	^	0.0020	0.00070	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Beryllium	0.0012	J	0.0020	0.00030	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Cadmium	0.0035		0.0020	0.00050	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Calcium	149		0.50	0.10	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Chromium	0.033		0.0040	0.0010	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Cobalt	0.018		0.0040	0.00063	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Copper	0.050		0.010	0.0016	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Iron	78.5		0.050	0.019	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Lead	0.031		0.010	0.0030	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Magnesium	27.8		0.20	0.043	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Manganese	2.3		0.0030	0.00040	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Nickel	0.043		0.010	0.0013	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Potassium	10.3		0.50	0.10	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Selenium	ND		0.025	0.0087	mg/L		08/03/20 10:13	08/05/20 14:14	1	
Silver	ND		0.0060	0.0017	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Sodium	72.4		1.0	0.32	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Thallium	ND		0.020	0.010	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Vanadium	0.054		0.0050	0.0015	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Zinc	0.23		0.010	0.0015	mg/L		08/03/20 10:13	08/03/20 23:00	1	
Method: 7470A - Mercury (CVAA)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	ND		0.00020	0.00012	mg/L		08/05/20 12:43	08/05/20 16:07	1	

Client Sample ID: MW-02

Date Collected: 07/29/20 12:00

Date Received: 07/29/20 15:30

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	2.0	1.6	ug/L			08/02/20 14:18	2
1,1,2,2-Tetrachloroethane	ND	2.0	0.42	ug/L			08/02/20 14:18	2
1,1,2-Trichloroethane	ND	2.0	0.46	ug/L			08/02/20 14:18	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0	0.62	ug/L			08/02/20 14:18	2
1,1-Dichloroethane	ND	2.0	0.76	ug/L			08/02/20 14:18	2
1,1-Dichloroethene	ND	2.0	0.58	ug/L			08/02/20 14:18	2
1,2,4-Trichlorobenzene	ND	2.0	0.82	ug/L			08/02/20 14:18	2
1,2-Dibromo-3-Chloropropane	ND	2.0	0.78	ug/L			08/02/20 14:18	2
1,2-Dibromoethane	ND	2.0	1.5	ug/L			08/02/20 14:18	2
1,2-Dichlorobenzene	ND	2.0	1.6	ug/L			08/02/20 14:18	2
1,2-Dichloroethane	ND	2.0	0.42	ug/L			08/02/20 14:18	2

Eurofins TestAmerica, Buffalo

Lab Sample ID: 480-173137-2

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Matrix: Water

Client Sample ID: MW-02

Date Collected: 07/29/20 12:00 Date Received: 07/29/20 15:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		2.0	1.4	ug/L			08/02/20 14:18	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			08/02/20 14:18	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			08/02/20 14:18	2
2-Hexanone	ND		10	2.5	ug/L			08/02/20 14:18	2
2-Butanone (MEK)	ND		20	2.6	ug/L			08/02/20 14:18	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			08/02/20 14:18	2
Acetone	ND		20	6.0	ug/L			08/02/20 14:18	2
Benzene	1.2	J	2.0	0.82	ug/L			08/02/20 14:18	2
Bromodichloromethane	ND		2.0	0.78	ug/L			08/02/20 14:18	2
Bromoform	ND		2.0	0.52	ug/L			08/02/20 14:18	2
Bromomethane	ND		2.0	1.4	ug/L			08/02/20 14:18	2
Carbon disulfide	ND		2.0	0.38	ug/L			08/02/20 14:18	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			08/02/20 14:18	2
Chlorobenzene	ND		2.0	1.5	ug/L			08/02/20 14:18	2
Dibromochloromethane	ND		2.0	0.64	ug/L			08/02/20 14:18	2
Chloroethane	ND		2.0	0.64	ug/L			08/02/20 14:18	2
Chloroform	ND		2.0	0.68	ug/L			08/02/20 14:18	2
Chloromethane	ND		2.0	0.70	ug/L			08/02/20 14:18	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			08/02/20 14:18	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			08/02/20 14:18	2
Cyclohexane	1.4	J	2.0	0.36	ug/L			08/02/20 14:18	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			08/02/20 14:18	2
Ethylbenzene	ND		2.0	1.5	ug/L			08/02/20 14:18	2
Isopropylbenzene	ND		2.0	1.6	ug/L			08/02/20 14:18	2
Methyl acetate	ND		5.0	2.6	ug/L			08/02/20 14:18	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			08/02/20 14:18	2
Methylcyclohexane	ND		2.0	0.32	ug/L			08/02/20 14:18	2
Methylene Chloride	ND		2.0	0.88	ug/L			08/02/20 14:18	2
Styrene	ND		2.0	1.5	ug/L			08/02/20 14:18	2
Tetrachloroethene	ND		2.0	0.72	ug/L			08/02/20 14:18	2
Toluene	ND		2.0	1.0	ug/L			08/02/20 14:18	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			08/02/20 14:18	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			08/02/20 14:18	2
Trichloroethene	ND		2.0		ug/L			08/02/20 14:18	2
Trichlorofluoromethane	ND		2.0		ug/L			08/02/20 14:18	2
Vinyl chloride	3.3		2.0		ug/L			08/02/20 14:18	2
Xylenes, Total	ND		4.0		ug/L			08/02/20 14:18	2
					5				-

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 _ 120		08/02/20 14:18	2
Toluene-d8 (Surr)	91		80 - 120		08/02/20 14:18	2
4-Bromofluorobenzene (Surr)	94		73 - 120		08/02/20 14:18	2
Dibromofluoromethane (Surr)	85		75 _ 123		08/02/20 14:18	2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	38.5		0.20	0.060	mg/L		08/03/20 10:13	08/03/20 23:04	1
Antimony	ND		0.020	0.0068	mg/L		08/03/20 10:13	08/03/20 23:04	1
Arsenic	0.064		0.015	0.0056	mg/L		08/03/20 10:13	08/05/20 14:17	1
Barium	0.57	^	0.0020	0.00070	mg/L		08/03/20 10:13	08/03/20 23:04	1

Job ID: 480-173137-1

Lab Sample ID: 480-173137-2 Matrix: Water

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Eurofins TestAmerica, Buffalo

Client Sample Results

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

Client Sample ID: MW-02 Date Collected: 07/29/20 12:00

Date Received: 07/29/20 15:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0019	J	0.0020	0.00030	mg/L		08/03/20 10:13	08/03/20 23:04	1
Cadmium	0.00068	J	0.0020	0.00050	mg/L		08/03/20 10:13	08/03/20 23:04	1
Calcium	259		0.50	0.10	mg/L		08/03/20 10:13	08/03/20 23:04	1
Chromium	0.055		0.0040	0.0010	mg/L		08/03/20 10:13	08/03/20 23:04	1
Cobalt	0.021		0.0040	0.00063	mg/L		08/03/20 10:13	08/03/20 23:04	1
Copper	0.10		0.010	0.0016	mg/L		08/03/20 10:13	08/03/20 23:04	1
Iron	87.6		0.050	0.019	mg/L		08/03/20 10:13	08/03/20 23:04	1
Lead	0.082		0.010	0.0030	mg/L		08/03/20 10:13	08/03/20 23:04	1
Magnesium	109		0.20	0.043	mg/L		08/03/20 10:13	08/03/20 23:04	1
Manganese	1.1		0.0030	0.00040	mg/L		08/03/20 10:13	08/03/20 23:04	1
Nickel	0.060		0.010	0.0013	mg/L		08/03/20 10:13	08/03/20 23:04	1
Potassium	13.3		0.50	0.10	mg/L		08/03/20 10:13	08/03/20 23:04	1
Selenium	ND		0.025	0.0087	mg/L		08/03/20 10:13	08/05/20 14:17	1
Silver	ND		0.0060	0.0017	mg/L		08/03/20 10:13	08/03/20 23:04	1
Sodium	31.3		1.0	0.32	mg/L		08/03/20 10:13	08/03/20 23:04	1
Thallium	ND		0.020	0.010	mg/L		08/03/20 10:13	08/03/20 23:04	1
Vanadium	0.084		0.0050	0.0015	mg/L		08/03/20 10:13	08/03/20 23:04	1
Zinc	0.38		0.010	0.0015	mg/L		08/03/20 10:13	08/03/20 23:04	1
Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.00012	mg/L		08/05/20 12:43	08/05/20 16:09	1

Client Sample ID: MW-05

Date Collected: 07/29/20 13:30

Date Received: 07/29/20 15:30

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			08/02/20 17:28	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			08/02/20 17:28	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			08/02/20 17:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			08/02/20 17:28	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			08/02/20 17:28	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			08/02/20 17:28	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			08/02/20 17:28	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			08/02/20 17:28	1
1,2-Dibromoethane	ND	1.0	0.73	ug/L			08/02/20 17:28	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			08/02/20 17:28	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			08/02/20 17:28	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			08/02/20 17:28	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			08/02/20 17:28	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			08/02/20 17:28	1
2-Hexanone	ND	5.0	1.2	ug/L			08/02/20 17:28	1
2-Butanone (MEK)	ND	10	1.3	ug/L			08/02/20 17:28	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			08/02/20 17:28	1
Acetone	ND	10	3.0	ug/L			08/02/20 17:28	1
Benzene	ND	1.0	0.41	ug/L			08/02/20 17:28	1
Bromodichloromethane	ND	1.0	0.39	ug/L			08/02/20 17:28	1
Bromoform	ND	1.0	0.26	ug/L			08/02/20 17:28	1

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Lab Sample ID: 480-173137-2 Matrix: Water

Lab Sample ID: 480-173137-3

Matrix: Water

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Client Sample ID: MW-05 Date Collected: 07/29/20 13:30

Date Received: 07/29/20 15:30

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0	0.69	ug/L			08/02/20 17:28	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/02/20 17:28	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/02/20 17:28	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/02/20 17:28	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/02/20 17:28	1
Chloroethane	ND		1.0	0.32	ug/L			08/02/20 17:28	1
Chloroform	ND		1.0	0.34	ug/L			08/02/20 17:28	1
Chloromethane	ND		1.0	0.35	ug/L			08/02/20 17:28	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/02/20 17:28	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/02/20 17:28	1
Cyclohexane	ND		1.0	0.18	ug/L			08/02/20 17:28	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/02/20 17:28	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/02/20 17:28	1
Isopropylbenzene	1.5		1.0	0.79	ug/L			08/02/20 17:28	1
Methyl acetate	ND		2.5	1.3	ug/L			08/02/20 17:28	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/02/20 17:28	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/02/20 17:28	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/02/20 17:28	1
Styrene	ND		1.0	0.73	ug/L			08/02/20 17:28	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/02/20 17:28	1
Toluene	ND		1.0	0.51	ug/L			08/02/20 17:28	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/02/20 17:28	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/02/20 17:28	1
Trichloroethene	ND		1.0	0.46	ug/L			08/02/20 17:28	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/02/20 17:28	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/02/20 17:28	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/02/20 17:28	1
Surrogate	%Recoverv	Qualifier	Limits				Prepared	Analvzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		08/02/20 17:28	1
Toluene-d8 (Surr)	100		80 - 120		08/02/20 17:28	1
4-Bromofluorobenzene (Surr)	94		73 - 120		08/02/20 17:28	1
Dibromofluoromethane (Surr)	99		75 - 123		08/02/20 17:28	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.11	J	0.20	0.060	mg/L		08/03/20 10:13	08/03/20 23:08	1
Antimony	ND		0.020	0.0068	mg/L		08/03/20 10:13	08/03/20 23:08	1
Arsenic	ND	^	0.015	0.0056	mg/L		08/03/20 10:13	08/03/20 23:08	1
Barium	0.13	^	0.0020	0.00070	mg/L		08/03/20 10:13	08/03/20 23:08	1
Beryllium	ND		0.0020	0.00030	mg/L		08/03/20 10:13	08/03/20 23:08	1
Cadmium	ND		0.0020	0.00050	mg/L		08/03/20 10:13	08/03/20 23:08	1
Calcium	140		0.50	0.10	mg/L		08/03/20 10:13	08/03/20 23:08	1
Chromium	ND		0.0040	0.0010	mg/L		08/03/20 10:13	08/03/20 23:08	1
Cobalt	ND		0.0040	0.00063	mg/L		08/03/20 10:13	08/03/20 23:08	1
Copper	0.0024	J	0.010	0.0016	mg/L		08/03/20 10:13	08/03/20 23:08	1
Iron	2.9		0.050	0.019	mg/L		08/03/20 10:13	08/03/20 23:08	1
Lead	0.016		0.010	0.0030	mg/L		08/03/20 10:13	08/03/20 23:08	1
Magnesium	26.8		0.20	0.043	mg/L		08/03/20 10:13	08/03/20 23:08	1
Manganese	0.30		0.0030	0.00040	mg/L		08/03/20 10:13	08/03/20 23:08	1

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Lab Sample ID: 480-173137-3 Matrix: Water

Client Sample Results

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

Client Sample ID: MW-05 Date Collected: 07/29/20 13:30

Date Received: 07/29/20 15:30

Method: 6010C - Metals (ICP) (Contin	ued)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.016		0.010	0.0013	mg/L		08/03/20 10:13	08/03/20 23:08	1
Potassium	2.1		0.50	0.10	mg/L		08/03/20 10:13	08/03/20 23:08	1
Selenium	ND	^	0.025	0.0087	mg/L		08/03/20 10:13	08/03/20 23:08	1
Silver	ND		0.0060	0.0017	mg/L		08/03/20 10:13	08/03/20 23:08	1
Sodium	24.6		1.0	0.32	mg/L		08/03/20 10:13	08/03/20 23:08	1
Thallium	ND		0.020	0.010	mg/L		08/03/20 10:13	08/03/20 23:08	1
Vanadium	ND		0.0050	0.0015	mg/L		08/03/20 10:13	08/03/20 23:08	1
Zinc	0.60		0.010	0.0015	mg/L		08/03/20 10:13	08/03/20 23:08	1
Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/05/20 12:43	08/05/20 16:13	1

ND 0.00020 0.00012 mg/L 08/05/20 12:43 08/05/20 16:13

Client Sample ID: MW-06

Date Collected: 07/29/20 14:00

Date	Received:	07/29/20	15:30

Method: 8260C - Volatile Organic	Compounds I	by GC/MS							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/02/20 14:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/02/20 14:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/02/20 14:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/02/20 14:42	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/02/20 14:42	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/02/20 14:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/02/20 14:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/02/20 14:42	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/02/20 14:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/02/20 14:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/02/20 14:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/02/20 14:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/02/20 14:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/02/20 14:42	1
2-Hexanone	ND		5.0	1.2	ug/L			08/02/20 14:42	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/02/20 14:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/02/20 14:42	1
Acetone	ND		10	3.0	ug/L			08/02/20 14:42	1
Benzene	ND		1.0	0.41	ug/L			08/02/20 14:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/02/20 14:42	1
Bromoform	ND		1.0	0.26	ug/L			08/02/20 14:42	1
Bromomethane	ND		1.0	0.69	ug/L			08/02/20 14:42	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/02/20 14:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/02/20 14:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/02/20 14:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/02/20 14:42	1
Chloroethane	ND		1.0	0.32	ug/L			08/02/20 14:42	1
Chloroform	ND		1.0	0.34	ug/L			08/02/20 14:42	1
Chloromethane	ND		1.0	0.35	ug/L			08/02/20 14:42	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/02/20 14:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/02/20 14:42	1

Eurofins TestAmerica, Buffalo

Job ID: 480-173137-1

Matrix: Water

Lab Sample ID: 480-173137-3

Lab Sample ID: 480-173137-4

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Matrix: Water

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

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Client Sample ID: MW-06 Date Collected: 07/29/20 14:00

Date Received: 07/29/20 15:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.18	ug/L			08/02/20 14:42	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/02/20 14:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/02/20 14:42	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/02/20 14:42	1
Methyl acetate	ND		2.5	1.3	ug/L			08/02/20 14:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/02/20 14:42	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/02/20 14:42	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/02/20 14:42	1
Styrene	ND		1.0	0.73	ug/L			08/02/20 14:42	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/02/20 14:42	1
Toluene	ND		1.0	0.51	ug/L			08/02/20 14:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/02/20 14:42	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/02/20 14:42	1
Trichloroethene	ND		1.0	0.46	ug/L			08/02/20 14:42	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/02/20 14:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/02/20 14:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/02/20 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120			_		08/02/20 14:42	1
Toluene-d8 (Surr)	92		80 - 120					08/02/20 14:42	1

73 - 120

75 - 123

Method: 6010C - Metals (ICP)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Analyte Result	Qualifier	RL MDL	. Unit	D	Prepared	Analyzed	Dil Fac
Aluminum 0.19	J (.20 0.060	mg/L		08/03/20 10:13	08/03/20 23:12	1
Antimony ND	0.	0.0068	mg/L		08/03/20 10:13	08/03/20 23:12	1
Arsenic ND	^ 0.	0.0056	i mg/L		08/03/20 10:13	08/03/20 23:12	1
Barium 0.19	^ 0.0	0.00070	mg/L		08/03/20 10:13	08/03/20 23:12	1
Beryllium ND	0.0	0.00030	mg/L		08/03/20 10:13	08/03/20 23:12	1
Cadmium ND	0.0	0.00050	mg/L		08/03/20 10:13	08/03/20 23:12	1
Calcium 137	(.50 0.10	mg/L		08/03/20 10:13	08/03/20 23:12	1
Chromium ND	0.0	0.0010	mg/L		08/03/20 10:13	08/03/20 23:12	1
Cobalt ND	0.0	0.00063	mg/L		08/03/20 10:13	08/03/20 23:12	1
Copper ND	0.	0.0016	mg/L		08/03/20 10:13	08/03/20 23:12	1
Iron 7.2	0.	0.019	mg/L		08/03/20 10:13	08/03/20 23:12	1
Lead 0.0030	J 0.	0.0030	mg/L		08/03/20 10:13	08/03/20 23:12	1
Magnesium 26.8	(.20 0.043	mg/L		08/03/20 10:13	08/03/20 23:12	1
Manganese 1.3	0.0	0.00040	mg/L		08/03/20 10:13	08/03/20 23:12	1
Nickel ND	0.	0.0013	mg/L		08/03/20 10:13	08/03/20 23:12	1
Potassium 2.8	(.50 0.10	mg/L		08/03/20 10:13	08/03/20 23:12	1
Selenium ND	^ 0.	0.0087	′ mg/L		08/03/20 10:13	08/03/20 23:12	1
Silver ND	0.0	0.0017	′ mg/L		08/03/20 10:13	08/03/20 23:12	1
Sodium 13.7		1.0 0.32	mg/L		08/03/20 10:13	08/03/20 23:12	1
Thallium ND	0.	0.010	mg/L		08/03/20 10:13	08/03/20 23:12	1
Vanadium ND	0.0	0.0015	mg/L		08/03/20 10:13	08/03/20 23:12	1
Zinc 0.020	0.	0.0015	mg/L		08/03/20 10:13	08/03/20 23:12	1

Eurofins TestAmerica, Buffalo

Job ID: 480-173137-1

Lab Sample ID: 480-173137-4

08/02/20 14:42

08/02/20 14:42

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Matrix: Water

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Client Sample Results

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater An

Job ID: 480-173137-1

Project/Site: 153 Fillmor	e Avenue Groundwater Analysis

Client Sample ID: MW-06 Date Collected: 07/29/20 14:00 Date Received: 07/29/20 15:30						Lab Samp	le ID: 480-17 Matrix	3137-4 x: Wate
Method: 7470A - Mercury (CVAA) Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	ND	0.00020	0.00012	mg/L		08/05/20 12:43	08/05/20 16:14	
Client Sample ID: MW-07 Date Collected: 07/29/20 15:15 Date Received: 07/29/20 15:30						Lab Samp	le ID: 480-17 Matrix	3137-{ x: Wate
- Method: 8260C - Volatile Organic Cor Analyte	npounds by GC/MS Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	4.0		ug/L			08/03/20 17:09	
1,1,2,2-Tetrachloroethane	ND	4.0	0.84				08/03/20 17:09	
1,1,2-Trichloroethane	ND	4.0		ug/L			08/03/20 17:09	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.0		ug/L			08/03/20 17:09	
1,1-Dichloroethane	ND	4.0		ug/L			08/03/20 17:09	
1,1-Dichloroethene	ND	4.0		ug/L			08/03/20 17:09	
1,2,4-Trichlorobenzene	ND	4.0		ug/L			08/03/20 17:09	
1,2-Dibromo-3-Chloropropane	ND	4.0		ug/L ug/L			08/03/20 17:09	
1,2-Dibromoethane	ND	4.0		ug/L ug/L			08/03/20 17:09	
1,2-Dichlorobenzene	ND	4.0		ug/L			08/03/20 17:09	
1.2-Dichloroethane	ND	4.0	0.84				08/03/20 17:09	
1,2-Dichloropropane	ND	4.0		ug/L			08/03/20 17:09	
1.3-Dichlorobenzene	ND	4.0		ug/L ug/L			08/03/20 17:09	
1,4-Dichlorobenzene	ND	4.0		ug/L			08/03/20 17:09	
2-Hexanone	ND	4:0 20		ug/L			08/03/20 17:09	
2-nexanone 2-Butanone (MEK)	ND	40		ug/L			08/03/20 17:09	
4-Methyl-2-pentanone (MIBK)	ND	40 20		ug/L			08/03/20 17:09	
Acetone	ND	40		-			08/03/20 17:09	
Benzene	ND	40		ug/L ug/L			08/03/20 17:09	
Benzene Bromodichloromethane	ND	4.0					08/03/20 17:09	
Bromodichioromethane Bromoform	ND	4.0		ug/L			08/03/20 17:09	
				ug/L				
Bromomethane Carbon disulfide	ND ND	4.0 4.0		ug/L			08/03/20 17:09 08/03/20 17:09	
Carbon tetrachloride	ND	4.0		ug/L			08/03/20 17:09	
		4.0		ug/L			08/03/20 17:09	
Chlorobenzene Dibromochloromethane	ND ND	4.0		ug/L ug/L			08/03/20 17:09	
Chloroethane	ND	4.0		ug/L ug/L			08/03/20 17:09	
Chloroform								
Chloromethane	ND ND	4.0 4.0		ug/L			08/03/20 17:09 08/03/20 17:09	
		4.0		ug/L ug/L				
cis-1,2-Dichloroethene cis-1,3-Dichloropropene	4.0 ND	4.0		ug/L ug/L			08/03/20 17:09 08/03/20 17:09	
	ND	4.0		ug/L ug/L				
Cyclohexane Dichlorodifluoromethane	ND	4.0 4.0		ug/L ug/L			08/03/20 17:09 08/03/20 17:09	
Ethylbenzene	ND	4.0		ug/L			08/03/20 17:09	
Isopropylbenzene	ND ND	4.0 10		ug/L ug/L			08/03/20 17:09 08/03/20 17:09	
Methyl acetate								
Methyl tert-butyl ether	ND ND	4.0 4.0		ug/L ug/L			08/03/20 17:09 08/03/20 17:09	
Methylcyclohexane Methylene Chloride	ND	4.0 4.0		ug/L ug/L			08/03/20 17:09	
Methylene Chloride								
Styrene	ND	4.0		ug/L			08/03/20 17:09	
Tetrachloroethene	ND	4.0	1.4	ug/L			08/03/20 17:09	

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Client Sample Results

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

Client Sample ID: MW-07

Date Collected: 07/29/20 15:15 Date Received: 07/29/20 15:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			08/03/20 17:09	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			08/03/20 17:09	4
Trichloroethene	2.8	J	4.0	1.8	ug/L			08/03/20 17:09	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			08/03/20 17:09	4
Vinyl chloride	ND		4.0	3.6	ug/L			08/03/20 17:09	4
Xylenes, Total	ND		8.0	2.6	ug/L			08/03/20 17:09	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120			-		08/03/20 17:09	4
Toluene-d8 (Surr)	92		80 - 120					08/03/20 17:09	4
4-Bromofluorobenzene (Surr)	96		73 - 120					08/03/20 17:09	4
Dibromofluoromethane (Surr)	91		75 - 123					08/03/20 17:09	4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.4		0.20	0.060	mg/L		08/03/20 10:13	08/03/20 23:27	1
Antimony	0.015	J	0.020	0.0068	mg/L		08/03/20 10:13	08/03/20 23:27	1
Arsenic	ND	^	0.015	0.0056	mg/L		08/03/20 10:13	08/03/20 23:27	1
Barium	0.074	^	0.0020	0.00070	mg/L		08/03/20 10:13	08/03/20 23:27	1
Beryllium	ND		0.0020	0.00030	mg/L		08/03/20 10:13	08/03/20 23:27	1
Cadmium	0.032		0.0020	0.00050	mg/L		08/03/20 10:13	08/03/20 23:27	1
Calcium	144		0.50	0.10	mg/L		08/03/20 10:13	08/03/20 23:27	1
Chromium	0.0049		0.0040	0.0010	mg/L		08/03/20 10:13	08/03/20 23:27	1
Cobalt	0.011		0.0040	0.00063	mg/L		08/03/20 10:13	08/03/20 23:27	1
Copper	0.27		0.010	0.0016	mg/L		08/03/20 10:13	08/03/20 23:27	1
Iron	4.7		0.050	0.019	mg/L		08/03/20 10:13	08/03/20 23:27	1
Lead	0.43		0.010	0.0030	mg/L		08/03/20 10:13	08/03/20 23:27	1
Magnesium	22.9		0.20	0.043	mg/L		08/03/20 10:13	08/03/20 23:27	1
Manganese	1.2		0.0030	0.00040	mg/L		08/03/20 10:13	08/03/20 23:27	1
Nickel	0.026		0.010	0.0013	mg/L		08/03/20 10:13	08/03/20 23:27	1
Potassium	7.4		0.50	0.10	mg/L		08/03/20 10:13	08/03/20 23:27	1
Selenium	ND	٨	0.025	0.0087	mg/L		08/03/20 10:13	08/03/20 23:27	1
Silver	ND		0.0060	0.0017	mg/L		08/03/20 10:13	08/03/20 23:27	1
Sodium	31.6		1.0	0.32	mg/L		08/03/20 10:13	08/03/20 23:27	1
Thallium	ND		0.020	0.010	mg/L		08/03/20 10:13	08/03/20 23:27	1
Vanadium	0.0074		0.0050	0.0015	mg/L		08/03/20 10:13	08/03/20 23:27	1
Zinc	11.3		0.010	0.0015	mg/L		08/03/20 10:13	08/03/20 23:27	1
Method: 7470A - Mercury (CVAA) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00015	J	0.00020	0.00012	mg/L		08/05/20 12:43	08/05/20 16:15	1

Date Collected: 07/29/20 14:30

Date Received: 07/29/20 15:30

Method: 8260C - Volatile Organic Com	pounds by GC/MS							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	2.0	1.6	ug/L			08/03/20 17:33	2
1,1,2,2-Tetrachloroethane	ND	2.0	0.42	ug/L			08/03/20 17:33	2
1,1,2-Trichloroethane	ND	2.0	0.46	ug/L			08/03/20 17:33	2

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Lab Sample ID: 480-173137-5 Matrix: Water 5 6

Matrix: Water

Client Sample ID: MW-08 Date Collected: 07/29/20 14:30

Date Received: 07/29/20 15:30

Analyte	Result	Qualifier	RL	MDL	Unit	D Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L		08/03/20 17:33	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L		08/03/20 17:33	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L		08/03/20 17:33	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L		08/03/20 17:33	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L		08/03/20 17:33	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L		08/03/20 17:33	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L		08/03/20 17:33	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L		08/03/20 17:33	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L		08/03/20 17:33	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L		08/03/20 17:33	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L		08/03/20 17:33	2
2-Hexanone	ND		10	2.5	ug/L		08/03/20 17:33	2
2-Butanone (MEK)	ND		20	2.6	ug/L		08/03/20 17:33	2
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L		08/03/20 17:33	2
Acetone	ND		20		ug/L		08/03/20 17:33	2
Benzene	1.3		2.0	0.82			08/03/20 17:33	2
Bromodichloromethane	ND		2.0	0.78			08/03/20 17:33	2
Bromoform	ND		2.0	0.52			08/03/20 17:33	2
Bromomethane	ND		2.0		ug/L		08/03/20 17:33	2
Carbon disulfide	ND		2.0	0.38	-		08/03/20 17:33	2
Carbon tetrachloride	ND		2.0	0.54			08/03/20 17:33	2
Chlorobenzene	ND		2.0		ug/L		08/03/20 17:33	2
Dibromochloromethane	ND		2.0	0.64			08/03/20 17:33	2
Chloroethane	ND		2.0	0.64	-		08/03/20 17:33	2
Chloroform	ND		2.0	0.68			08/03/20 17:33	2
Chloromethane	ND		2.0	0.70	-		08/03/20 17:33	2
cis-1,2-Dichloroethene	ND		2.0		ug/L		08/03/20 17:33	2
cis-1,3-Dichloropropene	ND		2.0	0.72			08/03/20 17:33	
Cyclohexane	ND		2.0	0.72			08/03/20 17:33	2
Dichlorodifluoromethane	ND		2.0		ug/L		08/03/20 17:33	2
Ethylbenzene	ND		2.0		ug/L		08/03/20 17:33	
Isopropylbenzene	ND		2.0		ug/L ug/L		08/03/20 17:33	2
	ND		5.0		ug/L		08/03/20 17:33	2
Methyl acetate				0.32			08/03/20 17:33	2
Methyl tert-butyl ether	ND ND		2.0 2.0	0.32			08/03/20 17:33	2
Methylcyclohexane								
Methylene Chloride	ND		2.0	0.88			08/03/20 17:33	2
Styrene	ND		2.0		ug/L		08/03/20 17:33	2
Tetrachloroethene	ND		2.0	0.72	-		08/03/20 17:33	2
Toluene	ND		2.0		ug/L		08/03/20 17:33	2
trans-1,2-Dichloroethene	ND		2.0		ug/L		08/03/20 17:33	2
trans-1,3-Dichloropropene	ND		2.0	0.74	-		08/03/20 17:33	2
Trichloroethene	ND		2.0	0.92			08/03/20 17:33	2
Trichlorofluoromethane	ND		2.0		ug/L		08/03/20 17:33	2
Vinyl chloride	4.8		2.0		ug/L		08/03/20 17:33	2
Xylenes, Total	ND		4.0	1.3	ug/L		08/03/20 17:33	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120				08/03/20 17:33	2
Toluene-d8 (Surr)	92		80 - 120				08/03/20 17:33	2

Lab Sample ID: 480-173137-6

Matrix: Water

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Eurofins TestAmerica, Buffalo

Client Sample Results

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

Client Sample ID: MW-08

Date Collected: 07/29/20 14:30 Date Received: 07/29/20 15:30

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

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94		75 - 123					08/03/20 17:33	2
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/03/20 10:13	08/03/20 23:31	1
Antimony	ND		0.020	0.0068	mg/L		08/03/20 10:13	08/03/20 23:31	1
Arsenic	ND	٨	0.015	0.0056	mg/L		08/03/20 10:13	08/03/20 23:31	1
Barium	0.13	٨	0.0020	0.00070	mg/L		08/03/20 10:13	08/03/20 23:31	1
Beryllium	ND		0.0020	0.00030	mg/L		08/03/20 10:13	08/03/20 23:31	1
Cadmium	ND		0.0020	0.00050	mg/L		08/03/20 10:13	08/03/20 23:31	1
Calcium	128		0.50	0.10	mg/L		08/03/20 10:13	08/03/20 23:31	1
Chromium	ND		0.0040	0.0010	mg/L		08/03/20 10:13	08/03/20 23:31	1
Cobalt	ND		0.0040	0.00063	mg/L		08/03/20 10:13	08/03/20 23:31	
Copper	0.0016	J	0.010	0.0016	mg/L		08/03/20 10:13	08/03/20 23:31	
Iron	1.7		0.050	0.019	mg/L		08/03/20 10:13	08/03/20 23:31	
Lead	0.0034	J	0.010	0.0030	mg/L		08/03/20 10:13	08/03/20 23:31	
Magnesium	16.9		0.20	0.043	mg/L		08/03/20 10:13	08/03/20 23:31	
Manganese	0.60		0.0030	0.00040	mg/L		08/03/20 10:13	08/03/20 23:31	
Nickel	ND		0.010	0.0013	mg/L		08/03/20 10:13	08/03/20 23:31	
Potassium	6.1		0.50	0.10	mg/L		08/03/20 10:13	08/03/20 23:31	
Selenium	ND	٨	0.025	0.0087	mg/L		08/03/20 10:13	08/03/20 23:31	
Silver	ND		0.0060	0.0017	mg/L		08/03/20 10:13	08/03/20 23:31	
Sodium	15.9		1.0	0.32	mg/L		08/03/20 10:13	08/03/20 23:31	
Thallium	ND		0.020	0.010	mg/L		08/03/20 10:13	08/03/20 23:31	
Vanadium	0.0015	J	0.0050	0.0015	mg/L		08/03/20 10:13	08/03/20 23:31	
Zinc	0.018		0.010	0.0015	mg/L		08/03/20 10:13	08/03/20 23:31	
Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	мы	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	ND		0.00020	0.00012			08/05/20 12:43	08/05/20 16:19	
					3				

Date Received: 07/29/20 15:30

Method: 6010C - Metals (ICP) Analyte	Pocult	Qualifier	RL	МП	Unit	D	Prepared	Analyzed	Dil Fac
		Quaimer							
Aluminum	35.7		0.20	0.060	mg/L		08/03/20 10:13	08/03/20 23:34	1
Antimony	ND		0.020	0.0068	mg/L		08/03/20 10:13	08/03/20 23:34	1
Arsenic	0.063		0.015	0.0056	mg/L		08/03/20 10:13	08/05/20 14:21	1
Barium	0.56	^	0.0020	0.00070	mg/L		08/03/20 10:13	08/03/20 23:34	1
Beryllium	0.0016	J	0.0020	0.00030	mg/L		08/03/20 10:13	08/03/20 23:34	1
Cadmium	0.00068	J	0.0020	0.00050	mg/L		08/03/20 10:13	08/03/20 23:34	1
Calcium	269		0.50	0.10	mg/L		08/03/20 10:13	08/03/20 23:34	1
Chromium	0.050		0.0040	0.0010	mg/L		08/03/20 10:13	08/03/20 23:34	1
Cobalt	0.019		0.0040	0.00063	mg/L		08/03/20 10:13	08/03/20 23:34	1
Copper	0.093		0.010	0.0016	mg/L		08/03/20 10:13	08/03/20 23:34	1
Iron	79.3		0.050	0.019	mg/L		08/03/20 10:13	08/03/20 23:34	1
Lead	0.077		0.010	0.0030	mg/L		08/03/20 10:13	08/03/20 23:34	1
Magnesium	114		0.20	0.043	mg/L		08/03/20 10:13	08/03/20 23:34	1

Eurofins TestAmerica, Buffalo

Job ID: 480-173137-1

Matrix: Water

Lab Sample ID: 480-173137-6

Client Sample Results

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

Client Sample ID: FD @ MW-02

Date Collected: 07/29/20 12:00

Date Received: 07/29/20 15:30

Method: 6010C - Metals (ICP) (Contin Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.0030	0.00040	mg/L		08/03/20 10:13	08/03/20 23:34	1
Nickel	0.054		0.010	0.0013	mg/L		08/03/20 10:13	08/03/20 23:34	1
Potassium	13.0		0.50	0.10	mg/L		08/03/20 10:13	08/03/20 23:34	1
Selenium	ND		0.025	0.0087	mg/L		08/03/20 10:13	08/05/20 14:21	1
Silver	ND		0.0060	0.0017	mg/L		08/03/20 10:13	08/03/20 23:34	1
Sodium	31.2		1.0	0.32	mg/L		08/03/20 10:13	08/03/20 23:34	1
Thallium	ND		0.020	0.010	mg/L		08/03/20 10:13	08/03/20 23:34	1
Vanadium	0.076		0.0050	0.0015	mg/L		08/03/20 10:13	08/03/20 23:34	1
Zinc	0.34		0.010	0.0015	mg/L		08/03/20 10:13	08/03/20 23:34	1
- Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018	J	0.00020	0.00012	mg/L		08/05/20 12:43	08/05/20 16:20	1

Job ID: 480-173137-1

8/11/2020

Lab S

Lab Sample ID: 480-173137-7 Matrix: Water

Surrogate Summary

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

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

Matrix: Water						Prep Type: Total/NA			
		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	TOL	BFB	DBFM				
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)				
480-173137-1	MW-01	90	92	95	86				
480-173137-2	MW-02	94	91	94	85				
480-173137-3	MW-05	101	100	94	99				
480-173137-4	MW-06	96	92	94	92				
480-173137-5	MW-07	94	92	96	91				
480-173137-6	MW-08	99	92	95	94				
LCS 480-543288/5	Lab Control Sample	104	102	95	99				
LCS 480-543291/5	Lab Control Sample	93	94	95	92				
LCS 480-543335/5	Lab Control Sample	96	97	98	93				
MB 480-543288/7	Method Blank	104	103	93	104				
MB 480-543291/29	Method Blank	93	92	93	86				
MB 480-543335/7	Method Blank	97	94	96	89				
Surrogate Legend									

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

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Job ID: 480-173137-1

Eurofins TestAmerica, Buffalo

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

Lab Sample ID: MB 480-543288/7

Matrix: Water Analysis Batch: 543288

	MB MB						
Analyte	Result Qualif		MDL Ur		Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	1.0	0.82 ug	/L		08/02/20 10:08	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21 ug	/L		08/02/20 10:08	1
1,1,2-Trichloroethane	ND	1.0	0.23 ug	/L		08/02/20 10:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31 ug	/L		08/02/20 10:08	1
1,1-Dichloroethane	ND	1.0	0.38 ug	/L		08/02/20 10:08	1
1,1-Dichloroethene	ND	1.0	0.29 ug	/L		08/02/20 10:08	1
1,2,4-Trichlorobenzene	ND	1.0	0.41 ug	/L		08/02/20 10:08	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39 ug	/L		08/02/20 10:08	1
1,2-Dibromoethane	ND	1.0	0.73 ug	/L		08/02/20 10:08	1
1,2-Dichlorobenzene	ND	1.0	0.79 ug	/L		08/02/20 10:08	1
1,2-Dichloroethane	ND	1.0	0.21 ug	/L		08/02/20 10:08	1
1,2-Dichloropropane	ND	1.0	0.72 ug	/L		08/02/20 10:08	1
1,3-Dichlorobenzene	ND	1.0	0.78 ug	/L		08/02/20 10:08	1
1,4-Dichlorobenzene	ND	1.0	0.84 ug			08/02/20 10:08	1
2-Hexanone	ND	5.0	1.2 ug			08/02/20 10:08	1
2-Butanone (MEK)	ND	10	1.3 ug			08/02/20 10:08	
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1 ug			08/02/20 10:08	1
Acetone	ND	10	3.0 ug			08/02/20 10:08	1
Benzene	ND	1.0	0.41 ug			08/02/20 10:08	
Bromodichloromethane	ND	1.0	0.39 ug			08/02/20 10:08	1
Bromoform	ND	1.0	0.26 ug			08/02/20 10:08	1
Bromomethane	ND	1.0	0.69 ug			08/02/20 10:08	
Carbon disulfide	ND	1.0	0.19 ug			08/02/20 10:08	1
Carbon tetrachloride	ND	1.0	0.27 ug			08/02/20 10:08	1
Chlorobenzene	ND	1.0	0.27 ug			08/02/20 10:08	
Dibromochloromethane	ND	1.0	0.32 ug			08/02/20 10:08	1
Chloroethane	ND	1.0	0.32 ug			08/02/20 10:08	1
Chloroform	ND	1.0	0.34 ug			08/02/20 10:08	
Chloromethane	ND	1.0	0.34 ug 0.35 ug			08/02/20 10:08	1
cis-1,2-Dichloroethene	ND	1.0	0.33 ug 0.81 ug			08/02/20 10:08	1
	ND	1.0	0.36 ug			08/02/20 10:08	
cis-1,3-Dichloropropene Cyclohexane	ND	1.0	-			08/02/20 10:08	1
•	ND	1.0	0.18 ug				
Dichlorodifluoromethane			0.68 ug			08/02/20 10:08	1
Ethylbenzene	ND	1.0	0.74 ug			08/02/20 10:08	1
Isopropylbenzene	ND	1.0	0.79 ug			08/02/20 10:08	1
Methyl acetate	ND	2.5	1.3 ug			08/02/20 10:08	1
Methyl tert-butyl ether	ND	1.0	0.16 ug			08/02/20 10:08	1
Methylcyclohexane	ND	1.0	0.16 ug			08/02/20 10:08	1
Methylene Chloride	ND	1.0	0.44 ug			08/02/20 10:08	1
Styrene	ND	1.0	0.73 ug			08/02/20 10:08	1
Tetrachloroethene	ND	1.0	0.36 ug			08/02/20 10:08	1
Toluene	ND	1.0	0.51 ug			08/02/20 10:08	1
trans-1,2-Dichloroethene	ND	1.0	0.90 ug			08/02/20 10:08	1
trans-1,3-Dichloropropene	ND	1.0	0.37 ug			08/02/20 10:08	1
Trichloroethene	ND	1.0	0.46 ug			08/02/20 10:08	1
Trichlorofluoromethane	ND	1.0	0.88 ug	/L		08/02/20 10:08	1
Vinyl chloride	ND	1.0	0.90 ug	/L		08/02/20 10:08	1
Xylenes, Total	ND	2.0	0.66 ug	/L		08/02/20 10:08	1

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5

8 9

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

Methylcyclohexane

5

8

Lab Sample ID: MB 480-543288/7 **Client Sample ID: Method Blank** Matrix: Water Prep Type: Total/NA Analysis Batch: 543288 MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1,2-Dichloroethane-d4 (Surr) 08/02/20 10:08 104 77 - 120 1 Toluene-d8 (Surr) 103 80 - 120 08/02/20 10:08 1 4-Bromofluorobenzene (Surr) 93 73 - 120 08/02/20 10:08 1 Dibromofluoromethane (Surr) 104 75 - 123 08/02/20 10:08 1 Lab Sample ID: LCS 480-543288/5 **Client Sample ID: Lab Control Sample** Matrix: Water Prep Type: Total/NA Analysis Batch: 543288 Spike LCS LCS %Rec. Analyte Added **Result Qualifier** Unit D %Rec Limits 1,1,1-Trichloroethane 25.0 21.9 ug/L 88 73 - 126 25.0 1,1,2,2-Tetrachloroethane 23.6 ug/L 94 76 - 120 1,1,2-Trichloroethane 25.0 23.0 ug/L 92 76 - 122 25.0 20.6 ug/L 82 61 - 148 1,1,2-Trichloro-1,2,2-trifluoroetha ne 25.0 97 1 1-Dichloroethane 24 1 ug/L 77 - 120 1,1-Dichloroethene 25.0 21.5 ug/L 86 66 - 127 1,2,4-Trichlorobenzene 25.0 23.5 94 79 - 122 ug/L 1,2-Dibromo-3-Chloropropane 25.0 21.5 ug/L 86 56 - 134 1,2-Dibromoethane 25.0 23.8 ug/L 95 77 - 120 1,2-Dichlorobenzene 25.0 23.1 ug/L 93 80 - 124 1,2-Dichloroethane 25.0 23.1 ug/L 92 75 - 120 25.0 102 76 - 120 1,2-Dichloropropane 25.4 ug/L 25.0 77 - 120 1,3-Dichlorobenzene 23.7 ug/L 95 93 1 4-Dichlorobenzene 25.0 23.2 80 - 120 ug/L 2-Hexanone 125 120 96 65 - 127 ug/L 125 115 92 2-Butanone (MEK) 57 - 140 ug/L 4-Methyl-2-pentanone (MIBK) 125 123 ug/L 99 71 - 125 ug/L Acetone 125 121 97 56 - 142 Benzene 25.0 24.2 ug/L 97 71 - 124 Bromodichloromethane 25.0 24.6 ug/L 98 80 - 122 61 - 132 25.0 90 Bromoform 22.6 ug/L Bromomethane 25.0 21.8 ug/L 87 55 - 144 59 - 134 25.0 90 Carbon disulfide 22.5 ug/L Carbon tetrachloride 25.0 20.5 82 72 - 134 ug/L Chlorobenzene 25.0 23.7 ug/L 95 80 - 120 Dibromochloromethane 25.0 24.7 99 75 - 125 ug/L Chloroethane 25.0 25.4 ug/L 102 69 - 136 Chloroform 25.0 22.0 ug/L 88 73 - 127 25.0 98 Chloromethane 24.5 ug/L 68 - 124 cis-1,2-Dichloroethene 25.0 23.3 93 74 - 124 ug/L 25.0 24.9 99 74 - 124 cis-1,3-Dichloropropene ug/L Cyclohexane 25.0 21.9 ug/L 87 59 - 135 Dichlorodifluoromethane 25.0 21.9 ug/L 88 59 - 135 25.0 23 5 94 77 - 123 Ethylbenzene ug/L Isopropylbenzene 25.0 23.5 ug/L 94 77 - 122 Methyl acetate 50.0 47.6 ug/L 95 74 - 133 Methyl tert-butyl ether 25.0 23.7 ug/L 95 77 - 120

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68 - 134

87

21.8

ug/L

25.0

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

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

Lab Sample ID: LCS 480-543288/5

Matrix: Water

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

Analysis Batch: 543288

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Methylene Chloride		22.2		ug/L		89	75 - 124	
Styrene	25.0	23.8		ug/L		95	80 - 120	
Tetrachloroethene	25.0	21.3		ug/L		85	74 ₋ 122	
Toluene	25.0	23.2		ug/L		93	80 - 122	
trans-1,2-Dichloroethene	25.0	22.8		ug/L		91	73 ₋ 127	
Trichloroethene	25.0	23.0		ug/L		92	74 ₋ 123	
Trichlorofluoromethane	25.0	22.3		ug/L		89	62 - 150	
Vinyl chloride	25.0	24.1		ug/L		96	65 ₋ 133	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			77 - 120
Toluene-d8 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	95		73 - 120
Dibromofluoromethane (Surr)	99		75 - 123

Lab Sample ID: MB 480-543291/29 Matrix: Water

Analysis Batch: 543291

Analysis Datch. 545251									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/02/20 12:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/02/20 12:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/02/20 12:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/02/20 12:42	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/02/20 12:42	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/02/20 12:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/02/20 12:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/02/20 12:42	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/02/20 12:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/02/20 12:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/02/20 12:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/02/20 12:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/02/20 12:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/02/20 12:42	1
2-Hexanone	ND		5.0	1.2	ug/L			08/02/20 12:42	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/02/20 12:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/02/20 12:42	1
Acetone	ND		10	3.0	ug/L			08/02/20 12:42	1
Benzene	ND		1.0	0.41	ug/L			08/02/20 12:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/02/20 12:42	1
Bromoform	ND		1.0	0.26	ug/L			08/02/20 12:42	1
Bromomethane	ND		1.0	0.69	ug/L			08/02/20 12:42	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/02/20 12:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/02/20 12:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/02/20 12:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/02/20 12:42	1
Chloroethane	ND		1.0	0.32	ug/L			08/02/20 12:42	1
Chloroform	ND		1.0	0.34	ug/L			08/02/20 12:42	1

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

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

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

Lab Sample ID: MB 480-543291/29

Matrix: Water Analysis Batch: 543291

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			08/02/20 12:42	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/02/20 12:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/02/20 12:42	1
Cyclohexane	ND		1.0	0.18	ug/L			08/02/20 12:42	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/02/20 12:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/02/20 12:42	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/02/20 12:42	1
Methyl acetate	ND		2.5	1.3	ug/L			08/02/20 12:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/02/20 12:42	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/02/20 12:42	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/02/20 12:42	1
Styrene	ND		1.0	0.73	ug/L			08/02/20 12:42	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/02/20 12:42	1
Toluene	ND		1.0	0.51	ug/L			08/02/20 12:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/02/20 12:42	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/02/20 12:42	1
Trichloroethene	ND		1.0	0.46	ug/L			08/02/20 12:42	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/02/20 12:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/02/20 12:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/02/20 12:42	1

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120		08/02/20 12:42	1
Toluene-d8 (Surr)	92		80 - 120		08/02/20 12:42	1
4-Bromofluorobenzene (Surr)	93		73 - 120		08/02/20 12:42	1
Dibromofluoromethane (Surr)	86		75 - 123		08/02/20 12:42	1

Lab Sample ID: LCS 480-543291/5 Matrix: Water

Analysis Batch: 543291

Analysis Datch. 343231							
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	25.0	25.7		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.0		ug/L		104	76 - 120
1,1,2-Trichloroethane	25.0	26.8		ug/L		107	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroetha	25.0	25.6		ug/L		102	61 - 148
ne							
1,1-Dichloroethane	25.0	26.7		ug/L		107	77 _ 120
1,1-Dichloroethene	25.0	24.7		ug/L		99	66 - 127
1,2,4-Trichlorobenzene	25.0	26.7		ug/L		107	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.2		ug/L		109	56 - 134
1,2-Dibromoethane	25.0	26.5		ug/L		106	77 _ 120
1,2-Dichlorobenzene	25.0	26.6		ug/L		106	80 - 124
1,2-Dichloroethane	25.0	25.2		ug/L		101	75 ₋ 120
1,2-Dichloropropane	25.0	27.6		ug/L		110	76 - 120
1,3-Dichlorobenzene	25.0	27.2		ug/L		109	77 - 120
1,4-Dichlorobenzene	25.0	26.4		ug/L		106	80 - 120
2-Hexanone	125	156		ug/L		125	65 _ 127
2-Butanone (MEK)	125	148		ug/L		118	57 _ 140

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Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

QC Sample Results

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

Prep Type: Total/NA

8

Client Sample ID: Lab Control Sample

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

Lab Sample ID: LCS 480-543291/5

Matrix: Water Analysis Batch: 543291

Analysis Batch. 040201	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
4-Methyl-2-pentanone (MIBK)	125	151		ug/L		121	71 - 125	
Acetone	125	140		ug/L		112	56 ₋ 142	
Benzene	25.0	26.7		ug/L		107	71 ₋ 124	
Bromodichloromethane	25.0	26.7		ug/L		107	80 - 122	
Bromoform	25.0	24.4		ug/L		98	61 - 132	
Bromomethane	25.0	23.3		ug/L		93	55 ₋ 144	
Carbon disulfide	25.0	26.1		ug/L		104	59 - 134	
Carbon tetrachloride	25.0	24.9		ug/L		99	72 ₋ 134	
Chlorobenzene	25.0	25.5		ug/L		102	80 _ 120	
Dibromochloromethane	25.0	25.8		ug/L		103	75 - 125	
Chloroethane	25.0	23.6		ug/L		94	69 - 136	
Chloroform	25.0	24.3		ug/L		97	73 - 127	
Chloromethane	25.0	27.5		ug/L		110	68 - 124	
cis-1,2-Dichloroethene	25.0	26.7		ug/L		107	74 - 124	
cis-1,3-Dichloropropene	25.0	27.4		ug/L		110	74 ₋ 124	
Cyclohexane	25.0	27.3		ug/L		109	59 ₋ 135	
Dichlorodifluoromethane	25.0	28.0		ug/L		112	59 - 135	
Ethylbenzene	25.0	26.7		ug/L		107	77 ₋ 123	
Isopropylbenzene	25.0	28.5		ug/L		114	77 _ 122	
Methyl acetate	50.0	54.2		ug/L		108	74 - 133	
Methyl tert-butyl ether	25.0	27.9		ug/L		112	77 _ 120	
Methylcyclohexane	25.0	26.3		ug/L		105	68 - 134	
Methylene Chloride	25.0	25.7		ug/L		103	75 ₋ 124	
Styrene	25.0	27.0		ug/L		108	80 - 120	
Tetrachloroethene	25.0	25.2		ug/L		101	74 ₋ 122	
Toluene	25.0	26.2		ug/L		105	80 - 122	
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	73 - 127	
Trichloroethene	25.0	27.1		ug/L		108	74 - 123	
Trichlorofluoromethane	25.0	24.5		ug/L		98	62 - 150	
Vinyl chloride	25.0	24.6		ug/L		98	65 ₋ 133	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		77 - 120
Toluene-d8 (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	95		73 - 120
Dibromofluoromethane (Surr)	92		75 - 123

ND

Lab Sample ID: MB 480-543335/7 Matrix: Water Analysis Batch: 543335

Analyte

1,1-Dichloroethene

MB MB RL Result Qualifier MDL Unit D Prepared Analyzed Dil Fac 1.0 1,1,1-Trichloroethane ND 0.82 ug/L 08/03/20 12:51 1,1,2,2-Tetrachloroethane ND 1.0 08/03/20 12:51 0.21 ug/L 1,1,2-Trichloroethane ND 1.0 0.23 ug/L 08/03/20 12:51 1,1,2-Trichloro-1,2,2-trifluoroethane ND 1.0 0.31 ug/L 08/03/20 12:51 1,1-Dichloroethane ND 0.38 ug/L 1.0 08/03/20 12:51

1.0

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08/03/20 12:51

Client Sample ID: Method Blank

Prep Type: Total/NA

0.29 ug/L

1

1

1

1

1

1

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

5

8 9

Lab Sample ID: MB 480-543335/7

Matrix: Water Analysis Batch: 543335

Dibromofluoromethane (Surr)

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

		MB						
Analyte		Qualifier	RL		Unit	D Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L		08/03/20 12:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L		08/03/20 12:51	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L		08/03/20 12:51	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L		08/03/20 12:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L		08/03/20 12:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L		08/03/20 12:51	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L		08/03/20 12:51	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L		08/03/20 12:51	1
2-Hexanone	ND		5.0	1.2	ug/L		08/03/20 12:51	1
2-Butanone (MEK)	ND		10	1.3	ug/L		08/03/20 12:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L		08/03/20 12:51	1
Acetone	ND		10		ug/L		08/03/20 12:51	1
Benzene	ND		1.0		ug/L		08/03/20 12:51	1
Bromodichloromethane	ND		1.0		ug/L		08/03/20 12:51	1
Bromoform	ND		1.0		ug/L		08/03/20 12:51	1
Bromomethane	ND		1.0		ug/L		08/03/20 12:51	
Carbon disulfide	ND		1.0		ug/L		08/03/20 12:51	1
Carbon tetrachloride	ND		1.0		ug/L		08/03/20 12:51	1
Chlorobenzene Dibromochloromethane	ND ND		1.0		ug/L		08/03/20 12:51	1
			1.0		ug/L		08/03/20 12:51 08/03/20 12:51	1
Chloroethane	ND		1.0		ug/L			1
Chloroform	ND		1.0		ug/L		08/03/20 12:51	1
Chloromethane	ND		1.0		ug/L		08/03/20 12:51	1
cis-1,2-Dichloroethene	ND		1.0		ug/L		08/03/20 12:51	1
cis-1,3-Dichloropropene	ND		1.0		ug/L		08/03/20 12:51	1
Cyclohexane	ND		1.0		ug/L		08/03/20 12:51	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L		08/03/20 12:51	1
Ethylbenzene	ND		1.0	0.74	ug/L		08/03/20 12:51	1
Isopropylbenzene	ND		1.0	0.79	ug/L		08/03/20 12:51	1
Methyl acetate	ND		2.5	1.3	ug/L		08/03/20 12:51	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L		08/03/20 12:51	1
Methylcyclohexane	ND		1.0	0.16	ug/L		08/03/20 12:51	1
Methylene Chloride	ND		1.0	0.44	ug/L		08/03/20 12:51	1
Styrene	ND		1.0	0.73	ug/L		08/03/20 12:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L		08/03/20 12:51	1
Toluene	ND		1.0	0.51	ug/L		08/03/20 12:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/L		08/03/20 12:51	1
trans-1,3-Dichloropropene	ND		1.0		ug/L		08/03/20 12:51	1
Trichloroethene	ND		1.0		ug/L		08/03/20 12:51	1
Trichlorofluoromethane	ND		1.0		ug/L		08/03/20 12:51	1
Vinyl chloride	ND		1.0		ug/L		08/03/20 12:51	1
Xylenes, Total	ND		2.0		ug/L		08/03/20 12:51	1
	ND		2.0	0.00	ug/L		00/00/20 12:01	
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120				08/03/20 12:51	1
Toluene-d8 (Surr)	94		80 - 120				08/03/20 12:51	1
4-Bromofluorobenzene (Surr)	96		73 - 120				08/03/20 12:51	1

Eurofins TestAmerica, Buffalo

08/03/20 12:51

75 - 123

89

1

Prep Type: Total/NA

5

8 9

Client Sample ID: Lab Control Sample

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

Lab Sample ID: LCS 480-543335/5

Matri	x:	/ater	
Analy	/sis	Batch:	543335

Analysis Batch: 543335	Spike	LCS LCS			%Rec.
Analyte	Added	Result Qualifier	Unit	D %Rec	Limits
1,1-Trichloroethane	25.0	25.2	ug/L		73 - 126
1,2,2-Tetrachloroethane	25.0	24.3	ug/L	97	76 - 120
1,2-Trichloroethane	25.0	25.1	ug/L	100	76 - 122
,1,2-Trichloro-1,2,2-trifluoroetha e	25.0	25.5	ug/L	102	61 - 148
- 1-Dichloroethane	25.0	26.4	ug/L	106	77 _ 120
1-Dichloroethene	25.0	25.2	ug/L	101	66 - 127
2,4-Trichlorobenzene	25.0	24.6	ug/L	98	79 - 122
2-Dibromo-3-Chloropropane	25.0	25.4	ug/L	102	56 ₋ 134
2-Dibromoethane	25.0	24.8	ug/L	99	77 _ 120
2-Dichlorobenzene	25.0	25.2	ug/L	101	80 ₋ 124
2-Dichloroethane	25.0	24.1	ug/L	96	75 - 120
2-Dichloropropane	25.0	25.8	ug/L	103	76 - 120
3-Dichlorobenzene	25.0	25.3	ug/L	101	77 _ 120
4-Dichlorobenzene	25.0	25.1	ug/L	100	80 - 120
Hexanone	125	147	ug/L	118	65 - 127
Butanone (MEK)	125	140	ug/L	112	57 ₋ 140
Methyl-2-pentanone (MIBK)	125	142	ug/L	114	71 - 125
cetone	125	135	ug/L	108	56 ₋ 142
enzene	25.0	25.3	ug/L	101	71 - 124
omodichloromethane	25.0	25.4	ug/L	102	80 - 122
omoform	25.0	23.8	ug/L	95	61 - 132
omomethane	25.0	22.2	ug/L	89	55 - 144
arbon disulfide	25.0	25.7	ug/L	103	59 ₋ 134
arbon tetrachloride	25.0	24.5	ug/L	98	72 - 134
nlorobenzene	25.0	24.6	ug/L	99	80 - 120
bromochloromethane	25.0	24.5	ug/L	98	75 ₋ 125
nloroethane	25.0	23.1	ug/L	93	69 - 136
hloroform	25.0	23.7	ug/L	95	73 ₋ 127
hloromethane	25.0	25.2	ug/L	101	68 - 124
s-1,2-Dichloroethene	25.0	25.6	ug/L	102	74 ₋ 124
s-1,3-Dichloropropene	25.0	26.1	ug/L	104	74 ₋ 124
yclohexane	25.0	27.5	ug/L	110	59 - 135
, chlorodifluoromethane	25.0	26.8	ug/L	107	59 ₋ 135
hylbenzene	25.0	26.2	ug/L	105	77 - 123
opropylbenzene	25.0	27.0	ug/L	108	77 _ 122
ethyl acetate	50.0	51.4	ug/L	103	74 - 133
ethyl tert-butyl ether	25.0	25.9	ug/L	103	77 _ 120
ethylcyclohexane	25.0	25.6	ug/L	102	68 - 134
ethylene Chloride	25.0	23.9	ug/L	95	75 - 124
yrene	25.0	25.8	ug/L	103	80 - 120
etrachloroethene	25.0	24.5	ug/L	98	74 - 122
bluene	25.0	25.2	ug/L	101	80 - 122
ans-1,2-Dichloroethene	25.0	25.7	ug/L	103	73 - 127
richloroethene	25.0	25.7	ug/L	103	74 - 123
richlorofluoromethane	25.0	23.8	ug/L	95	62 - 150
inyl chloride	25.0	22.5	ug/L	90	65 - 133

QC Sample Results

Job ID: 480-173137-1

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

Lab Sample ID: LCS 480-543335/5 **Client Sample ID: Lab Control Sample** Matrix: Water Prep Type: Total/NA Analysis Batch: 543335 LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 77 - 120 96 Toluene-d8 (Surr) 97 80 - 120 4-Bromofluorobenzene (Surr) 98 73 - 120 93 Dibromofluoromethane (Surr) 75 - 123 Method: 6010C - Metals (ICP) Lab Sample ID: MB 480-543096/1-A **Client Sample ID: Method Blank** Matrix: Water Prep Type: Total/NA Prep Batch: 543096 Analysis Batch: 543516

	MB	мв								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Aluminum	ND		0.20	0.060	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Antimony	ND		0.020	0.0068	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Arsenic	ND	^	0.015	0.0056	mg/L		08/03/20 10:13	08/03/20 22:41	1	5
Barium	ND	^	0.0020	0.00070	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Beryllium	ND		0.0020	0.00030	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Cadmium	ND		0.0020	0.00050	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Calcium	ND		0.50	0.10	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Chromium	ND		0.0040	0.0010	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Cobalt	ND		0.0040	0.00063	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Copper	ND		0.010	0.0016	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Iron	ND		0.050	0.019	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Lead	ND		0.010	0.0030	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Magnesium	ND		0.20	0.043	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Manganese	ND		0.0030	0.00040	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Nickel	ND		0.010	0.0013	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Potassium	ND		0.50	0.10	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Selenium	ND	^	0.025	0.0087	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Silver	ND		0.0060	0.0017	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Sodium	ND		1.0	0.32	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Thallium	ND		0.020	0.010	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Vanadium	ND		0.0050	0.0015	mg/L		08/03/20 10:13	08/03/20 22:41	1	
Zinc	ND		0.010	0.0015	mg/L		08/03/20 10:13	08/03/20 22:41	1	

Lab Sample ID: LCS 480-543096/2-A Matrix: Water Analysis Batch: 543516

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

Analysis Batch: 543516								tch: 543096
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	10.0	9.62		mg/L		96	80 - 120	
Antimony	0.200	0.221		mg/L		111	80 - 120	
Barium	0.200	0.214	٨	mg/L		107	80 - 120	
Beryllium	0.200	0.208		mg/L		104	80 - 120	
Cadmium	0.200	0.213		mg/L		106	80 - 120	
Calcium	10.0	9.90		mg/L		99	80 - 120	
Chromium	0.200	0.200		mg/L		100	80 _ 120	
Cobalt	0.200	0.193		mg/L		96	80 - 120	
Copper	0.200	0.195		mg/L		97	80 - 120	

QC Sample Results

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-543096/2-A Matrix: Water Analysis Batch: 543516					Client	Sample	ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 543096
-	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Iron	10.0	10.10		mg/L		101	80 - 120
Lead	0.200	0.200		mg/L		100	80 - 120
Magnesium	10.0	9.82		mg/L		98	80 - 120
Manganese	0.200	0.207		mg/L		103	80 - 120
Nickel	0.200	0.199		mg/L		99	80 - 120
Potassium	10.0	9.68		mg/L		97	80 - 120
Silver	0.0500	0.0486		mg/L		97	80 - 120
Sodium	10.0	9.77		mg/L		98	80 - 120
Thallium	0.200	0.205		mg/L		102	80 - 120
Vanadium	0.200	0.206		mg/L		103	80 - 120
Zinc	0.200	0.206		mg/L		103	80 - 120
– Lab Sample ID: LCS 480-543096/2-A					Client	Sample	ID: Lab Control Sample
Matrix: Water							Prep Type: Total/NA

Analysis Batch: 543934								Batch: 543096
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	0.200	0.201		mg/L		100	80 - 120	
Selenium	0.200	0.192		mg/L		96	80 - 120	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-543755/1-A								Client Sa	mple ID: Metho	d Blank
Matrix: Water									Prep Type: 7	Total/NA
Analysis Batch: 543843									Prep Batch	: 543755
	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit		D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		0	8/05/20 12:43	08/05/20 15:32	1
Lab Sample ID: LCS 480-543755/2-A							Clie	ent Sample	ID: Lab Control	Sample
Matrix: Water									Prep Type: 7	Total/NA
Analysis Batch: 543843									Prep Batch	: 543755
			Spike	LCS LCS					%Rec.	
Analyte			Added	Result Qua	lifier	Unit	I	D %Rec	Limits	
Mercury			0.00667	0.00687		mg/L		103	80 - 120	
Lab Sample ID: MB 480-543756/1-A								Client Sa	mple ID: Metho	od Blank
Matrix: Water									Prep Type: 7	Total/NA
Analysis Batch: 543843									Prep Batch	: 543756
	МВ	MB								
Analyte	Result	Qualifier	RL	MDL	Unit		D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		0	8/05/20 12:43	08/05/20 16:10	1
- Lab Sample ID: LCS 480-543756/2-A							Clie	ent Sample	ID: Lab Control	Sample
Matrix: Water									Prep Type: ⁻	Total/NA
Analysis Batch: 543843									Prep Batch	: 543756
-			Spike	LCS LCS					%Rec.	
Analyte			Added	Result Qua	lifier	Unit	I	D %Rec	Limits	

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Water

Water

Water

Matrix

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8260C

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8260C

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

Client Sample ID

Lab Control Sample

Client Sample ID

Method Blank

MW-05

MW-01

MW-02

MW-06

Method Blank

Lab Control Sample

Job ID: 480-173137-1

3

Prep Batch Prep Batch 9

Analysis Batch: 543335

GC/MS VOA

Lab Sample ID

480-173137-3

MB 480-543288/7

LCS 480-543288/5

Lab Sample ID

480-173137-1

480-173137-2

480-173137-4

MB 480-543291/29

LCS 480-543291/5

Analysis Batch: 543288

Analysis Batch: 543291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173137-5	MW-07	Total/NA	Water	8260C	
480-173137-6	MW-08	Total/NA	Water	8260C	
MB 480-543335/7	Method Blank	Total/NA	Water	8260C	
LCS 480-543335/5	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 543096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173137-1	MW-01	Total/NA	Water	3005A	
480-173137-2	MW-02	Total/NA	Water	3005A	
480-173137-3	MW-05	Total/NA	Water	3005A	
480-173137-4	MW-06	Total/NA	Water	3005A	
480-173137-5	MW-07	Total/NA	Water	3005A	
480-173137-6	MW-08	Total/NA	Water	3005A	
480-173137-7	FD @ MW-02	Total/NA	Water	3005A	
MB 480-543096/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-543096/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 543516

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
480-173137-1	MW-01	Total/NA	Water	6010C	543096
480-173137-2	MW-02	Total/NA	Water	6010C	543096
480-173137-3	MW-05	Total/NA	Water	6010C	543096
480-173137-4	MW-06	Total/NA	Water	6010C	543096
480-173137-5	MW-07	Total/NA	Water	6010C	543096
480-173137-6	MW-08	Total/NA	Water	6010C	543096
480-173137-7	FD @ MW-02	Total/NA	Water	6010C	543096
MB 480-543096/1-A	Method Blank	Total/NA	Water	6010C	543096
LCS 480-543096/2-A	Lab Control Sample	Total/NA	Water	6010C	543096

Prep Batch: 543755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173137-1	MW-01	Total/NA	Water	7470A	
480-173137-2	MW-02	Total/NA	Water	7470A	
MB 480-543755/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-543755/2-A	Lab Control Sample	Total/NA	Water	7470A	

QC Association Summary

Client: City of Tonawanda

Project/Site: 153 Fillmore Avenue Groundwater Analysis

Prep	Batch:	543756

Metals

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
480-173137-3	MW-05	Total/NA	Water	7470A	
480-173137-4	MW-06	Total/NA	Water	7470A	
480-173137-5	MW-07	Total/NA	Water	7470A	
480-173137-6	MW-08	Total/NA	Water	7470A	
480-173137-7	FD @ MW-02	Total/NA	Water	7470A	
MB 480-543756/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-543756/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 543843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173137-1	MW-01	Total/NA	Water	7470A	543755
480-173137-2	MW-02	Total/NA	Water	7470A	543755
480-173137-3	MW-05	Total/NA	Water	7470A	543756
480-173137-4	MW-06	Total/NA	Water	7470A	543756
480-173137-5	MW-07	Total/NA	Water	7470A	543756
480-173137-6	MW-08	Total/NA	Water	7470A	543756
180-173137-7	FD @ MW-02	Total/NA	Water	7470A	543756
MB 480-543755/1-A	Method Blank	Total/NA	Water	7470A	543755
MB 480-543756/1-A	Method Blank	Total/NA	Water	7470A	543756
.CS 480-543755/2-A	Lab Control Sample	Total/NA	Water	7470A	543755
-CS 480-543756/2-A	Lab Control Sample	Total/NA	Water	7470A	543756

Analysis Batch: 543934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-173137-1	MW-01	Total/NA	Water	6010C	543096
480-173137-2	MW-02	Total/NA	Water	6010C	543096
480-173137-7	FD @ MW-02	Total/NA	Water	6010C	543096
LCS 480-543096/2-A	Lab Control Sample	Total/NA	Water	6010C	543096

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

Lab Sample ID: 480-173137-1 Matrix: Water

Lab Sample ID: 480-173137-2

Lab Sample ID: 480-173137-3

Lab Sample ID: 480-173137-4

Matrix: Water

Matrix: Water

Matrix: Water

Client Sample ID: MW-01 Date Collected: 07/29/20 11:30 Date Received: 07/29/20 15:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	543291	08/02/20 13:54	AMM	TAL BUF
Total/NA	Prep	3005A			543096	08/03/20 10:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	543516	08/03/20 23:00	AMH	TAL BUF
Total/NA	Prep	3005A			543096	08/03/20 10:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	543934	08/05/20 14:14	LMH	TAL BUF
Total/NA	Prep	7470A			543755	08/05/20 12:43	BMB	TAL BUF
Total/NA	Analysis	7470A		1	543843	08/05/20 16:07	BMB	TAL BUF

Client Sample ID: MW-02 Date Collected: 07/29/20 12:00

Date Received: 07/29/20 15:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	543291	08/02/20 14:18	AMM	TAL BUF
Total/NA	Prep	3005A			543096	08/03/20 10:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	543516	08/03/20 23:04	AMH	TAL BUF
Total/NA	Prep	3005A			543096	08/03/20 10:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	543934	08/05/20 14:17	LMH	TAL BUF
Total/NA	Prep	7470A			543755	08/05/20 12:43	BMB	TAL BUF
Total/NA	Analysis	7470A		1	543843	08/05/20 16:09	BMB	TAL BUF

Client Sample ID: MW-05

Date Collected: 07/29/20 13:30 Date Received: 07/29/20 15:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	543288	08/02/20 17:28	AMM	TAL BUF
Total/NA	Prep	3005A			543096	08/03/20 10:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	543516	08/03/20 23:08	AMH	TAL BUF
Total/NA	Prep	7470A			543756	08/05/20 12:43	BMB	TAL BUF
Total/NA	Analysis	7470A		1	543843	08/05/20 16:13	BMB	TAL BUF

Client Sample ID: MW-06

Date Collected: 07/29/20 14:00 Date Received: 07/29/20 15:30

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	543291	08/02/20 14:42	AMM	TAL BUF
Total/NA	Prep	3005A			543096	08/03/20 10:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	543516	08/03/20 23:12	AMH	TAL BUF
Total/NA	Prep	7470A			543756	08/05/20 12:43	BMB	TAL BUF
Total/NA	Analysis	7470A		1	543843	08/05/20 16:14	BMB	TAL BUF

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

Matrix: Water

Matrix: Water

Lab Sample ID: 480-173137-5

Lab Sample ID: 480-173137-6

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1	0
	3

Lab Sample ID: 480-173137-7 Matrix: Water

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	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	543335	08/03/20 17:09	CRL	TAL BUF
Total/NA	Prep	3005A			543096	08/03/20 10:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	543516	08/03/20 23:27	AMH	TAL BUF
Total/NA	Prep	7470A			543756	08/05/20 12:43	BMB	TAL BUF
Total/NA	Analysis	7470A		1	543843	08/05/20 16:15	BMB	TAL BUF

Client Sample ID: MW-08

Client Sample ID: MW-07

Date Collected: 07/29/20 14:30 Date Received: 07/29/20 15:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	543335	08/03/20 17:33	CRL	TAL BUF
Total/NA	Prep	3005A			543096	08/03/20 10:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	543516	08/03/20 23:31	AMH	TAL BUF
Total/NA	Prep	7470A			543756	08/05/20 12:43	BMB	TAL BUF
Total/NA	Analysis	7470A		1	543843	08/05/20 16:19	BMB	TAL BUF

Client Sample ID: FD @ MW-02 Date Collected: 07/29/20 12:00 Date Received: 07/29/20 15:30

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			543096	08/03/20 10:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	543516	08/03/20 23:34	AMH	TAL BUF
Total/NA	Prep	3005A			543096	08/03/20 10:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	543934	08/05/20 14:21	LMH	TAL BUF
Total/NA	Prep	7470A			543756	08/05/20 12:43	BMB	TAL BUF
Total/NA	Analysis	7470A		1	543843	08/05/20 16:20	BMB	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

Job ID: 480-173137-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-02-21

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

5
8
9
12
13

Nethod	Method Description	Protocol	Laboratory
3260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
470A	Mercury (CVAA)	SW846	TAL BUF
005A	Preparation, Total Metals	SW846	TAL BUF
030C	Purge and Trap	SW846	TAL BUF
'470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Client: City of Tonawanda Project/Site: 153 Fillmore Avenue Groundwater Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-173137-1	MW-01	Water	07/29/20 11:30	07/29/20 15:30
480-173137-2	MW-02	Water	07/29/20 12:00	07/29/20 15:30
480-173137-3	MW-05	Water	07/29/20 13:30	07/29/20 15:30
480-173137-4	MW-06	Water	07/29/20 14:00	07/29/20 15:30
480-173137-5	MW-07	Water	07/29/20 15:15	07/29/20 15:30
480-173137-6	MW-08	Water	07/29/20 14:30	07/29/20 15:30
480-173137-7	FD @ MW-02	Water	07/29/20 12:00	07/29/20 15:30

Eurofins TestAmerica, Buffalo

10 Hazelwood Drive

Chain of Custody Record

eurofins Environment Testing

America

Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991

Client Information	Sampler: Brian Doyl	e	Lab PM: Fischer, Brian J			Carrier Tracking No(5):	COC No: 480-148638-23772	2
Client Contact: Brian Doyle		3624	E-Mail: Brian.Fisc	her@Eur	ofinset.com			Page: Page 2 of 2	
Company: City of Tonawanda			T			ysis Requested		Job #:	
Address:	Due Date Requested:							Preservation Codes	
200 Niagara Street City: Tonawanda State, Zip:	TAT Requested (days):								I - Hexane - None 0 - AsNaO2 - Na2O4S 0 - Na2SO3
NY, 14150 Phone: (716) 695-8624 Email:	Po#: Purchase Order not requi WO#:	Purchase Order not required						F - MeOH F G - Amchlor S H - Ascorbic Acid T I - Ice L	R - Na2S2O3 5 - H2SO4 5 - TSP Dodecahydrate J - Acetone
assistantengineer@tonawandacity.com Project Name:	Project #		fes or	or No			ners		/ - MCAA V - pH 4-5
153 Fillmore Avenue Groundwater Analysis Site:	48014369	48014369 ssow#:					container	Other:	- other (specify)
Sile.	330VV#.		Sam	Volatiles					
Sample Identification	Sample Date Time		vater, olid, ste/oil,	TCL			Total Number	Special Inst	tructions/Note:
Dample identification		Preservation C		AD	North Children Standards and				
MW-OL	7/29/20 11:30	d G wa	ater	XX					
MW-02	7/29/20 12:0	OG Wa	ater	X	X				
MW-05	7/29/20 13:3		ater	X	X		1 1 1		
MW-06	7/29/20 14:00			X					
MW-07	7/2/2015:1	SG		1XX					
MW-08	7/29/20 14:2	OG		X					
FD@MW-0Z	7/29/20 12:0	4 /					480-173137	Chain of Custody	
rD(co/MW=CZ	1/29/20 12-0	0 (3		- /					
		_							
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Deliverable Requested: 1, II, III, IV, Other (specify)	Poison B Unknown	Radiological		Re	turn To Client	Disposal By Lal	nples are reta	ined longer than 1 rchive For	month) Months
Empty Kit Polinguished by	Date:		Ті	me:		Method of S	Shipment		
Relinquished by:	Date/Time 7/29/20	Comp	any of Tonowik		ved by		Date/Time:		Company
Relinquished by:	Date/Time:	Comp	bany	Recei	ved by		Date/Time:	1	Company
Relinquished by:	Date/Time:	Comp	bany	Recei	ved by	H	Date/Time: 7/29/2	0 1530	Company 74 A
Custody Seals Intact: Custody Seal No.: △ Yes △ No				Coole	r Temperature(s)	°C and Other Remarks:	54	THE	
A 169 A 100	and the second						1 3	17-12	Ver: 01/16/2019

14

Client: City of Tonawanda

Login Number: 173137 List Number: 1

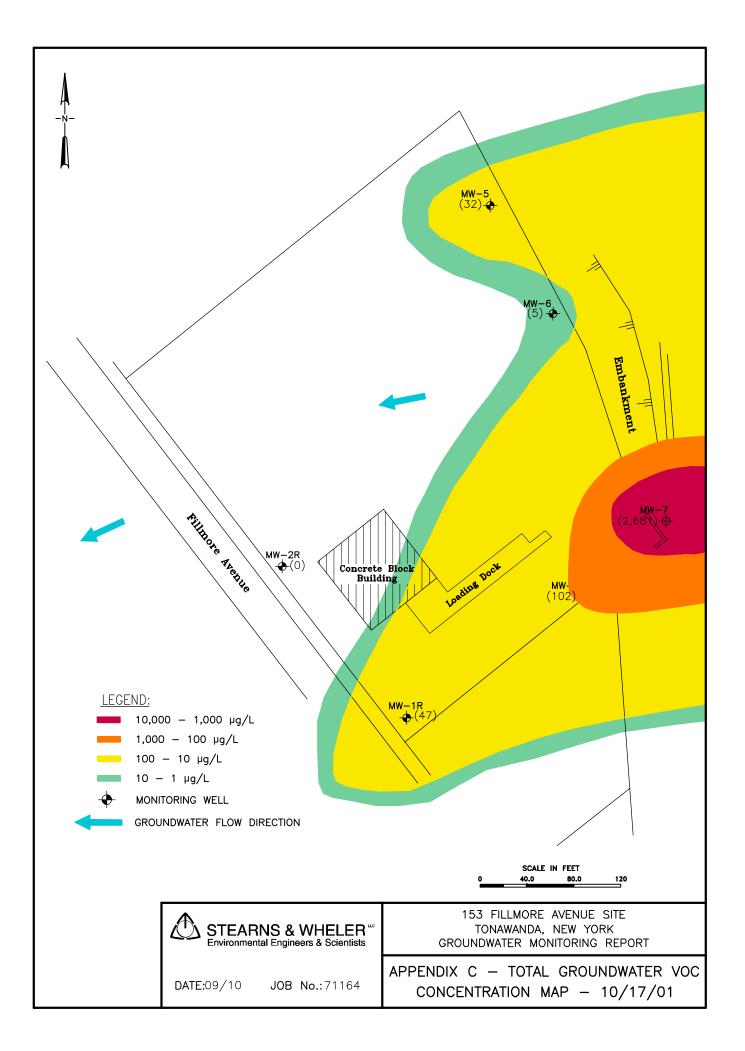
Creator: Sabuda, Brendan D

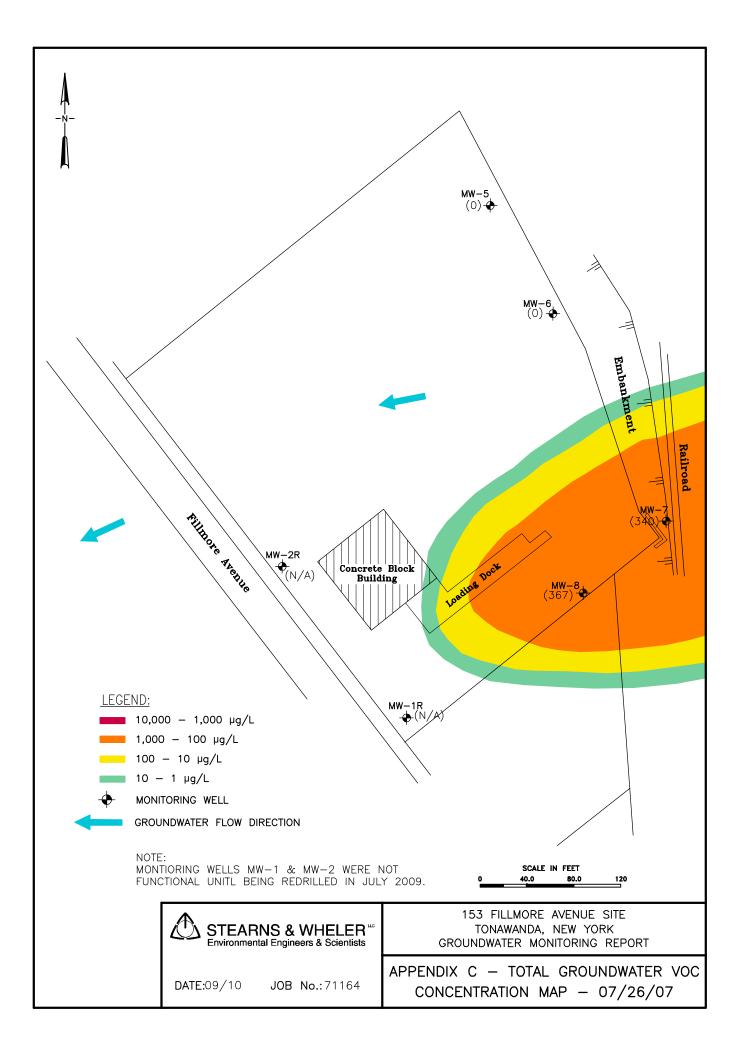
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7 #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

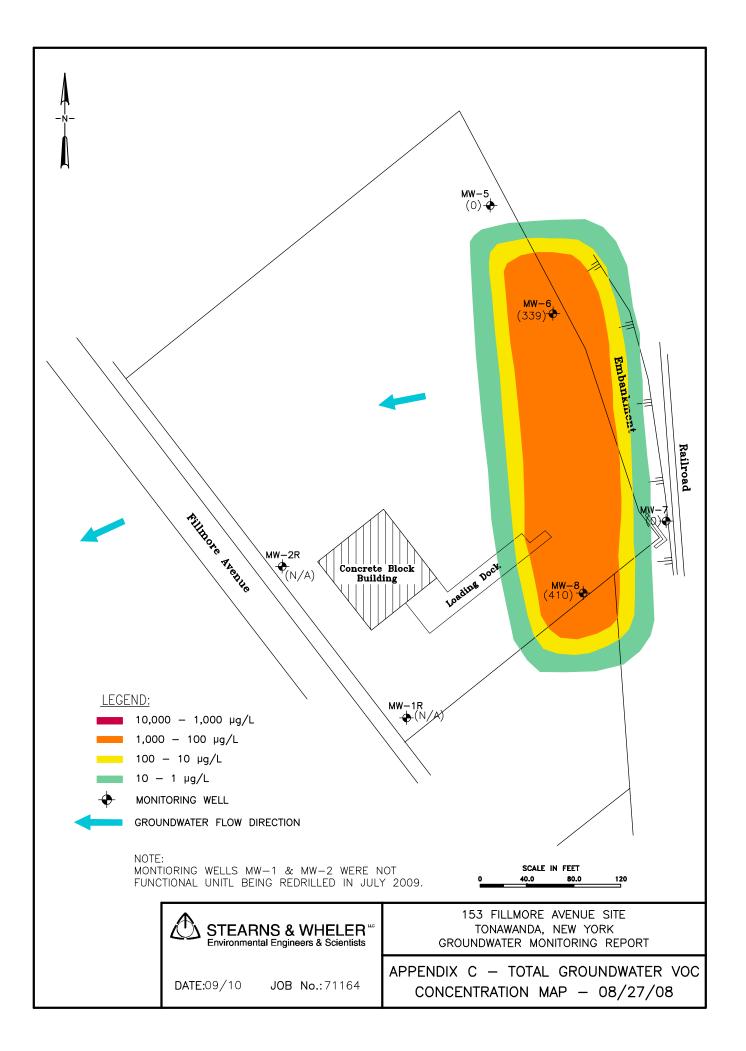
List Source: Eurofins TestAmerica, Buffalo

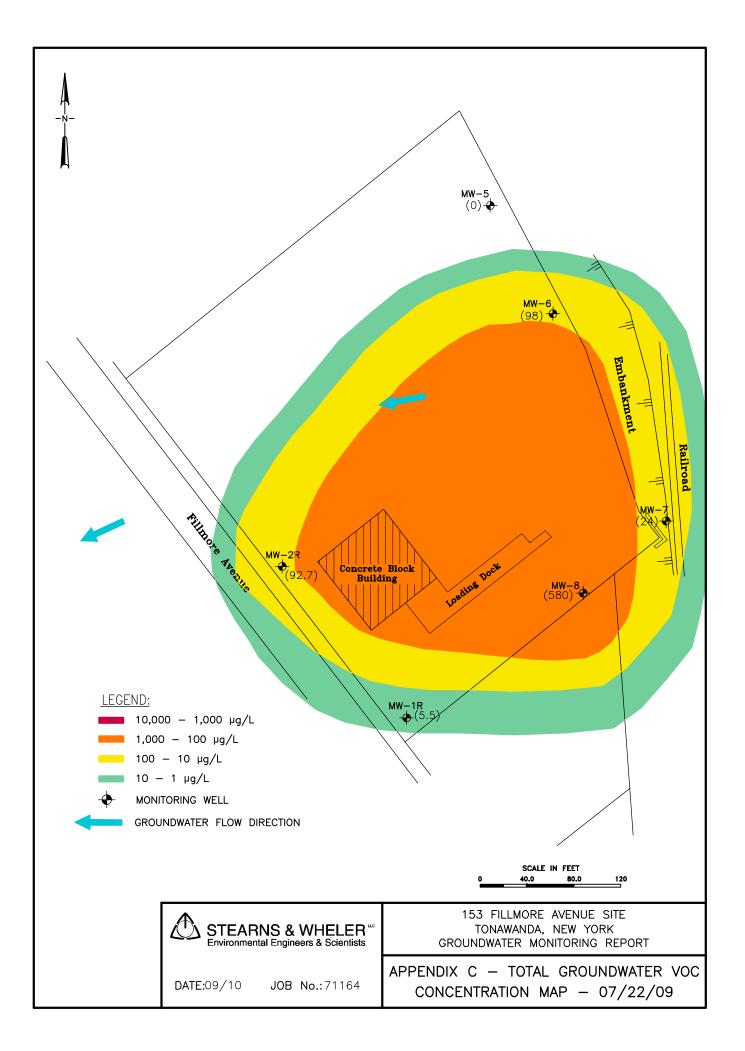
APPENDIX C

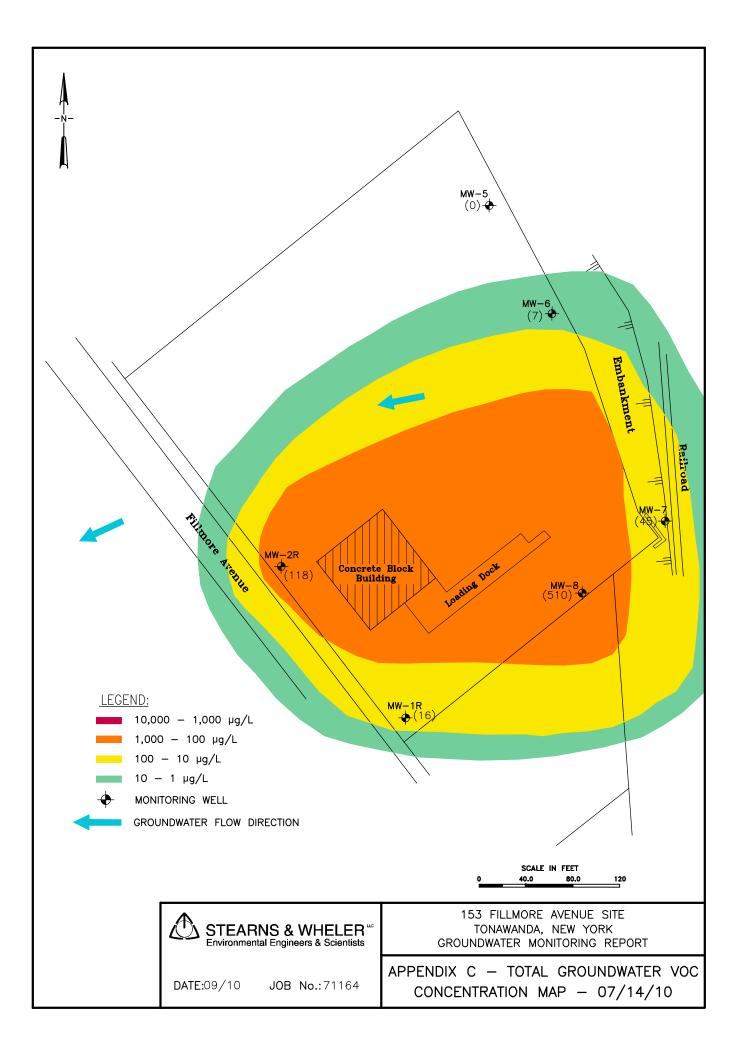
Groundwater Total VOC Concentration Figures

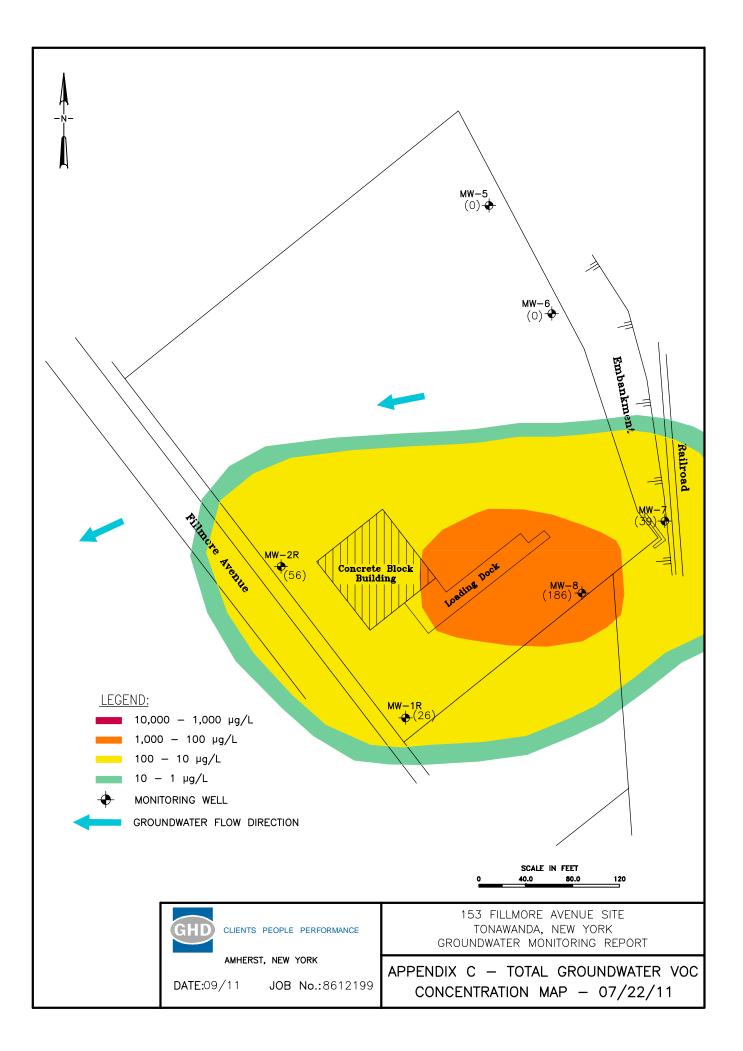


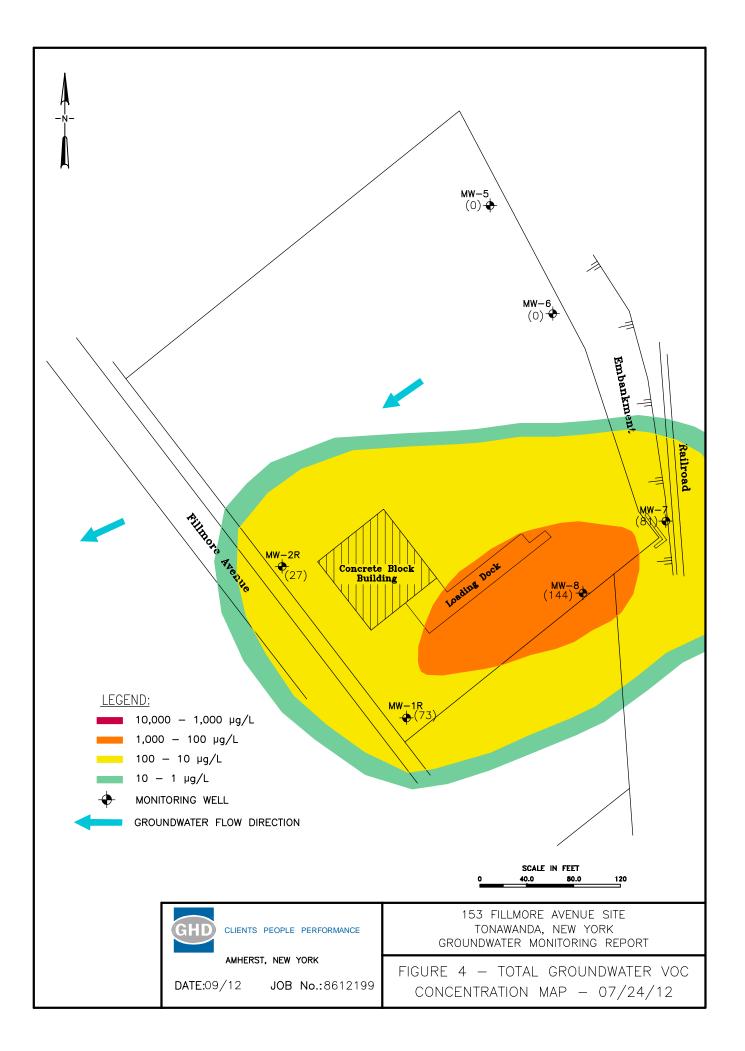


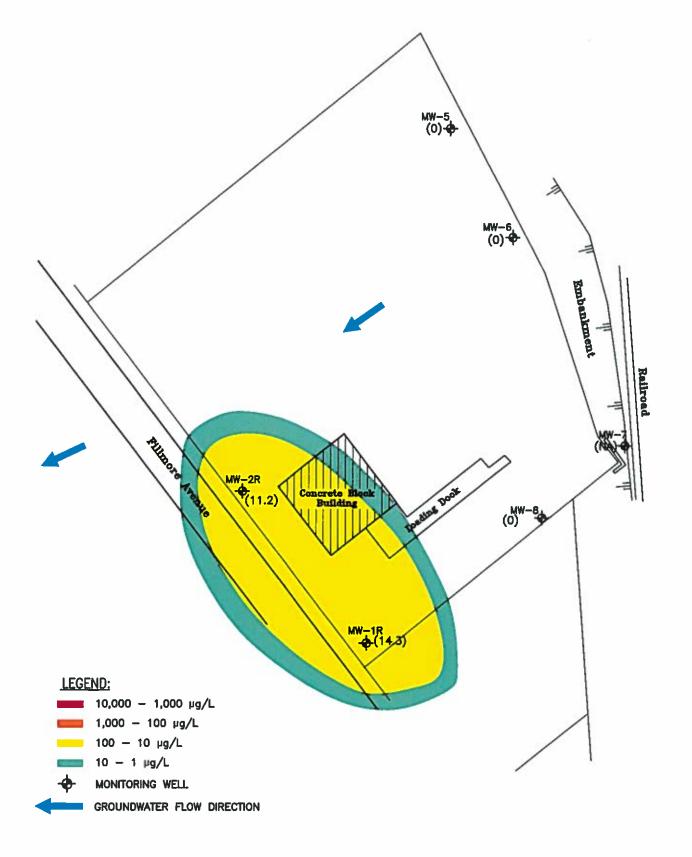










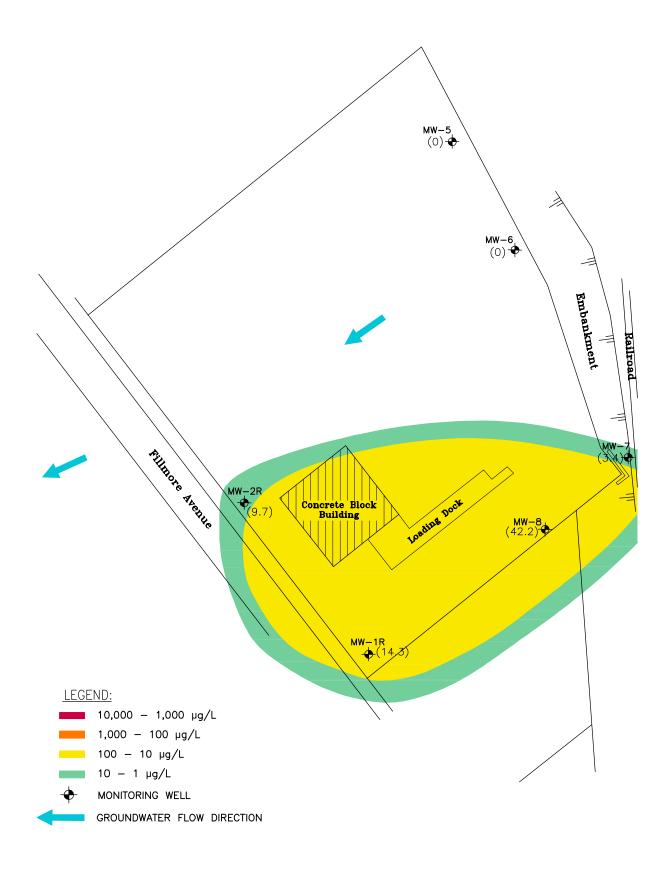






153 FILLMORE AVENUE SITE TONAWANDA, NEW YORK GROUNDWATER MONITORING REPORT TOTAL GROUNDWATER VOC CONCENTRATION MAP - 07/24/13 Job Number 86-12199 Revision A Date 09 13 Figure 04

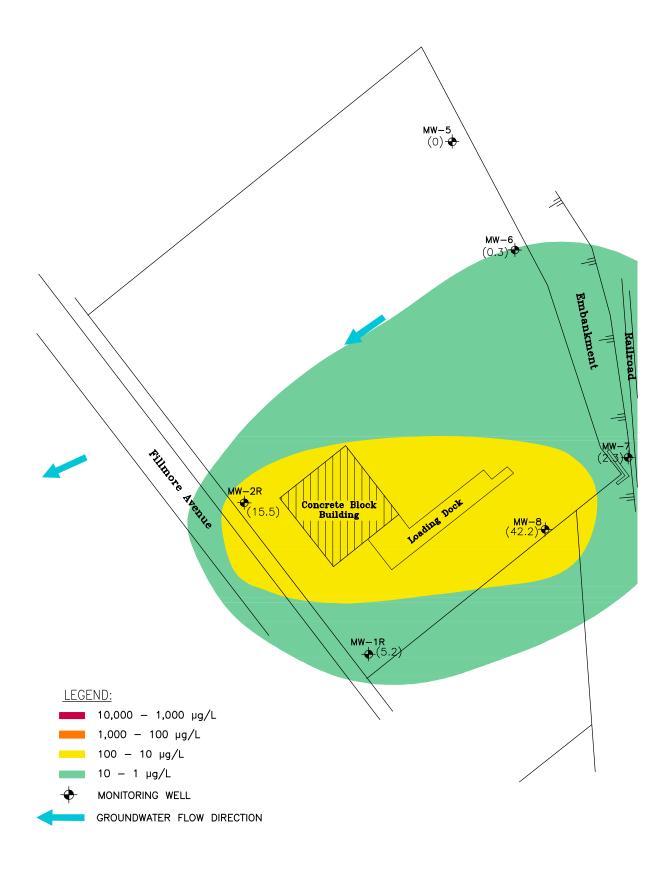
200 John James Audubon Parkway Suite 101, Amhenst NY 14228 USA Y 1 716 748 6620 F 1 716 748 6621 E amhmail@ghd.com W www.ghd.com Pei Dee: 13 Normer 2013 - 1212/P4 Call Parker Q 01212197/West PereReport 30139/good 2013 4 VOC too-Canadration Map deg







153 FILLMORE AVENUE SITE TONAWANDA, NEW YORK GROUNDWATER MONITORING REPORT TOTAL GROUNDWATER VOC CONCENTRATION MAP - 07/15/14 Job Number 86-12199 Revision A Date 09 14 Figure 04

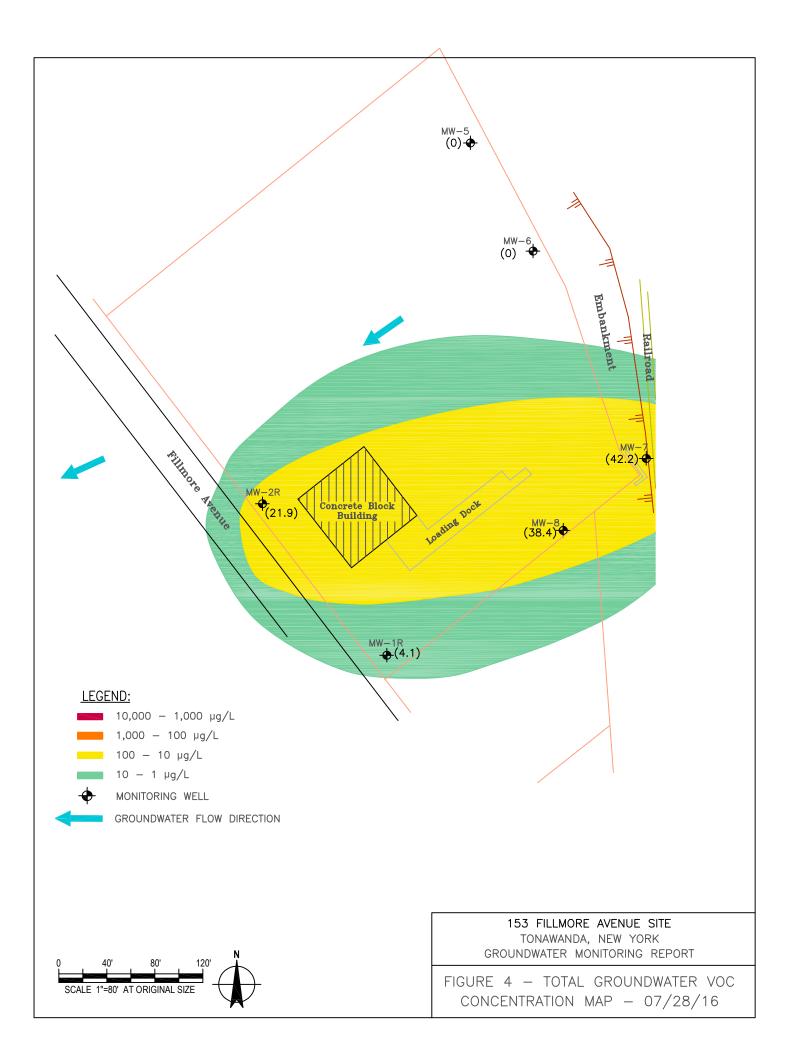


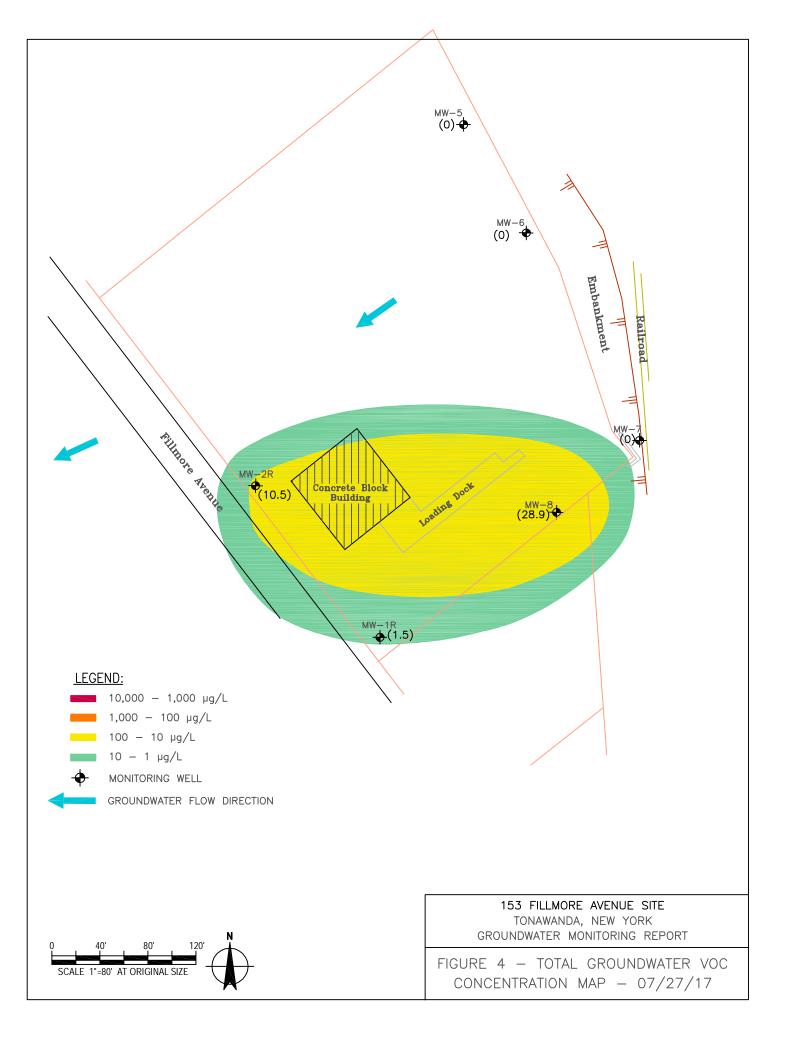


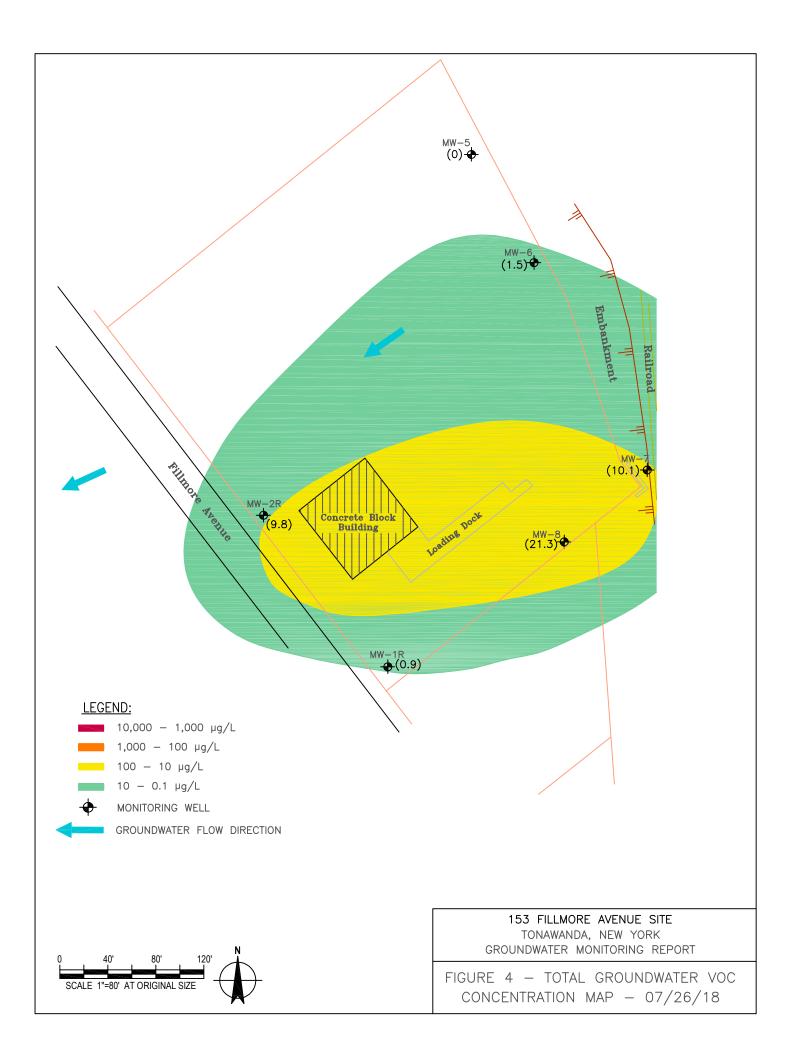


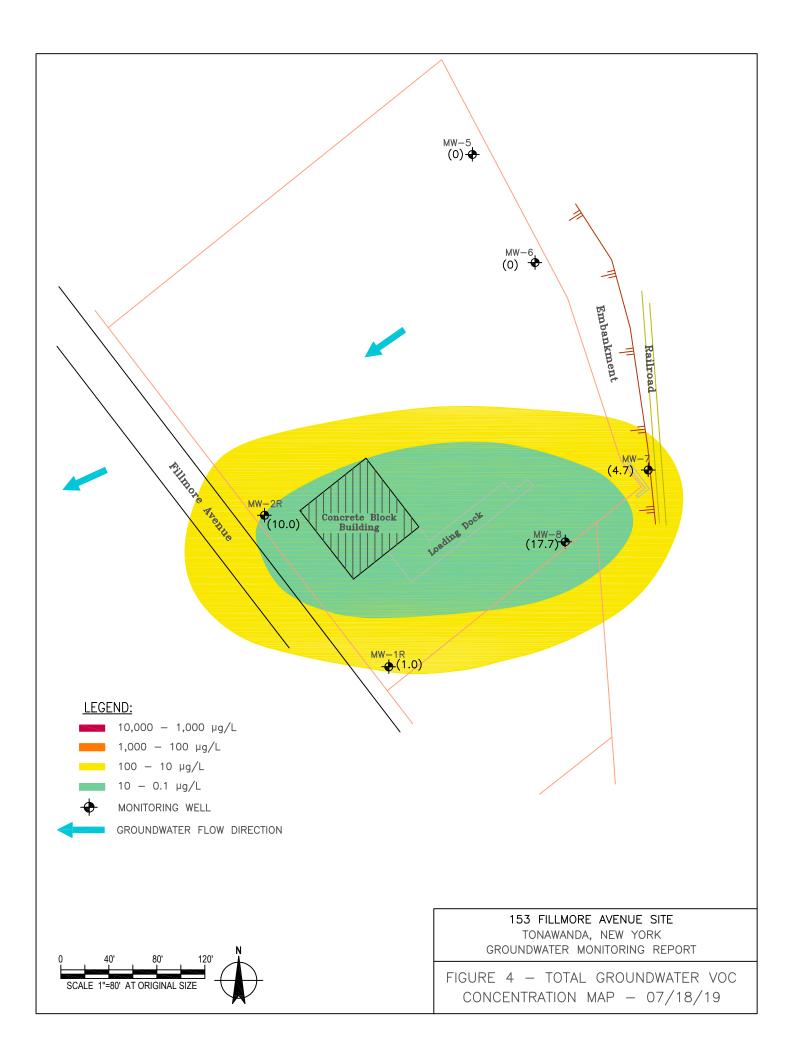
153 FILLMORE AVENUE SITE TONAWANDA, NEW YORK GROUNDWATER MONITORING REPORT TOTAL GROUNDWATER VOC CONCENTRATION MAP - 07/23/15 Job Number 86-12199 Revision A Date 12 15 Figure 04

200 John James Audubon Parkway Suite 101, Amherst NY 14228 USA T 1 716 748 6620 F 1 716 748 6621 E amhmail@ghd.com W www.ghd.com









APPENDIX D

Historical SVOC Analytical Test Results

Monitoring Well MW-1 Semi-Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

	NYSDEC TOGS 1.1.1 Water Quality									
Semi-Volatile Compounds	Standards ¹	Units	08/08/01	07/23/09	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15
Phenol	1.0	µg/L	-	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethyl) ether	1.0	µg/L	-	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE	µg/L	-	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3.0	µg/L	-	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3.0	µg/L	-	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	NE	µg/L	-	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine Hexachloroethane	NE 5.0	μg/L	-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Nitrobenzene	0.4	μg/L	-	ND	ND	ND	ND	ND	ND	ND
	50.0	μg/L μg/L		ND	ND	ND	ND	ND	ND	ND
Isophorone 2-Nitrophenol	NE	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	50.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy) methane	5.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND
1,2,4-Dichlorobenzene	NE	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10.0	μg/L μg/L	- ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	NE	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NE	μg/L μg/L	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	μg/L	-	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	NE	μg/L	-	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	10.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	50.0	μg/L	-	ND	ND	ND	ND	ND	0.93J	ND
Acenaphthylene	NE	μg/L	-	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5.0	µg/L	-	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20.0	μg/L	ND	ND	ND	ND	ND	1.2	ND	ND
2,4-Dinitrophenol	10.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	μg/L	-	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	50.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	50.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NE	μg/L	-	ND	ND	ND	ND	ND	ND	ND
Fluorene	50.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	NE	μg/L	-	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50.0	μg/L	-	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NE	μg/L	-	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	µg/L	-	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.0	μg/L α	-	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50.0	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	50.0	µg/L	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	NE	µg/L	-	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50.0	μg/L	- ND	2 J	ND	ND	ND	ND	ND	0.48J
Fluoranthene	50.0	μg/L	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene Butul hongul phthelete	50.0	μg/L	ND	ND	ND	ND ND	ND	ND	ND	ND
Butyl benzyl phthalate 3,3'-Dichlorobenzidine	50.0	μg/L	-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Benz(a)anthracene	0.002	μg/L μg/L	- ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND
Chrysene	0.002	10	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
bis(2-ethylhexyl) phthalate	5.0	μg/L μg/L	ND ND	8 J	1 J	6.2 B	2.3 J	4.8	1.7J	ND
Di-n-octyl phthalate	50.0	μg/L μg/L	-	ND	ND ND	0.2 D ND	ND ND	4.8 ND	ND	ND
Benzo(b)fluoranthene	0.002	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.002 NE	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene)	NE	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i) perylene	NE	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND
(3+4)-Methylphenol	NE	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroisopropyl) ether	NE	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	ND
ons(2 emotorsopropyr) emer	INE:	μ <u></u> б/L	-	110						110

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. 06/98, Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected estimated value below quantitation limits

B - Analyite detected in the associated Method Blank

Monitoring Well MW-2 Semi-Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

	1									
	NYSDEC TOGS 1.1.1 Water Quality									
Semi-Volatile Compounds	Standards ¹	Units	08/08/01	07/23/09	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15
Phenol	1.0	μg/L	-	ND	ND	ND	ND	ND	ND	0.34J
bis(2-chloroethyl) ether	1.0	μg/L	-	ND						
2-Chlorophenol	NE	μg/L	-	ND						
1,3-Dichlorobenzene	3.0	μg/L	-	ND						
1,4-Dichlorobenzene	3.0	μg/L	-	ND						
2-Methylphenol	NE	μg/L	-	ND						
N-Nitrosodi-n-propylamine	NE	µg/L	-	ND						
Hexachloroethane	5.0	µg/L	-	ND						
Nitrobenzene	0.4	µg/L	-	ND						
Isophorone	50.0 NE	μg/L	-	ND ND						
2-Nitrophenol 2,4-Dimethylphenol	50.0	μg/L μg/L	-	ND						
bis(2-chloroethoxy) methane	5.0	μg/L μg/L	-	ND						
2,4-Dichlorophenol	1.0	μg/L μg/L	-	ND						
1,2,4-Trichlorobenzene	NE	μg/L μg/L	-	ND						
Naphthalene	10.0	μg/L μg/L	ND							
4-Chloroaniline	5.0	μg/L μg/L	-	ND						
Hexachlorobutadiene	0.5	μg/L μg/L		ND						
4-Chloro-3-methylphenol	NE	μg/L μg/L	-	ND						
2-Methylnaphthalene	NE	μg/L μg/L	ND							
Hexachlorocyclopentadiene	5.0	μg/L μg/L	-	ND						
2.4.6-Trichlorophenol	NE	μg/L	-	ND						
2,4,5-Trichlorophenol	NE	μg/L	-	ND						
2-Chloro-phthalene	10.0	μg/L	-	ND						
2-Nitroaniline	5.0	μg/L	-	ND						
Dimethyl phthalate	50.0	μg/L	-	ND	ND	ND	ND	ND	1.2J	ND
Acenaphthylene	NE	μg/L	-	ND						
2,6-Dinitrotoluene	5.0	μg/L	-	ND						
3-Nitroaniline	5.0	μg/L	-	ND						
Acenaphthene	20.0	µg/L	ND	1 J	ND	ND	2.3 J	ND	1.0	0.78J
2,4-Dinitrophenol	10.0	μg/L	-	ND						
4-Nitrophenol	NE	μg/L	-	ND						
Dibenzofuran	50.0	μg/L	ND							
2,4-Dinitrotoluene	5.0	μg/L	-	ND						
Diethyl phthalate	50.0	μg/L	-	ND						
4-Chlorophenyl phenyl ether	NE	μg/L	-	ND						
Fluorene	50.0	μg/L	ND							
4-Nitroaniline	5.0	μg/L	-	ND						
4,6-Dinitro-2-methylphenol	NE	μg/L	-	ND						
N-Nitrosodiphenylamine	50.0	μg/L	-	ND						
4-Bromophenyl phenyl ether	NE	μg/L	-	ND						
Hexachlorobenzene	0.04	µg/L	-	ND						
Pentachlorophenol	1.0	μg/L	- ND	ND	ND	ND	ND	ND	ND ND	ND ND
Phenanthrene Anthracene	50.0	μg/L μg/L	ND ND							
Carbazole	50.0 NE	μg/L μg/L	- ND	ND ND						
Di-n-butyl phthalate	50.0	μg/L μg/L	-	2 J	ND	ND	1.2 J	ND	0.4J	0.34J
Fluoranthene	50.0	μg/L μg/L	- ND	ND						
Pyrene	50.0	μg/L μg/L	ND	ND	ND	ND	1.1 J	ND	ND	ND
Butyl benzyl phthalate	50.0	μg/L μg/L	-	ND						
3.3'-Dichlorobenzidine	5.0	μg/L μg/L	-	ND						
Benz(a)anthracene	0.002	μg/L μg/L	ND							
Chrysene	0.002	μg/L μg/L	ND							
bis(2-ethylhexyl) phthalate	5.0	μg/L	ND	9 J	30 J	6.5 B	25	ND	1.9J	ND
Di-n-octyl phthalate	50.0	μg/L	-	ND						
Benzo(b)fluoranthene	0.002	μg/L	-	ND						
Benzo(k)fluoranthene	0.002	μg/L	-	ND						
Benzo(a)pyrene	NE	μg/L	-	ND						
Indeno(1,2,3-cd)pyrene	0.002	μg/L	-	ND						
Dibenz(a,h)anthracene)	NE	μg/L	-	ND						
Benzo(g,h,i) perylene	NE	μg/L	-	ND						
	NE	μg/L	-	ND						
(3+4)-Methylphenol	ILL .	PB 2		THD .	112		110	IND .	IND.	1.12

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. 06/98, Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected estimated value below quantitation limits

B - Analyite detected in the associated Method Blank

Monitoring Well MW-5 Semi-Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

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	NYSDEC TOGS											
	1.1.1 Water Quality											
Semi-Volatile Compounds	Standards ¹	Units	08/08/01	07/26/07	08/27/08	07/22/09	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15
Phenol	1.0	μg/L	-	ND								
bis(2-chloroethyl) ether	1.0	μg/L	-	ND								
2-Chlorophenol	NE	μg/L	-	ND								
1,3-Dichlorobenzene	3.0	μg/L	-	ND								
1,4-Dichlorobenzene	3.0	μg/L	-	ND								
2-Methylphenol N-Nitrosodi-n-propylamine	NE NE	μg/L	-	ND ND								
Hexachloroethane	5.0	μg/L μg/L	-	ND								
Nitrobenzene	0.4	μg/L μg/L	-	ND								
Isophorone	50.0	μg/L	-	ND								
2-Nitrophenol	NE	μg/L	-	ND								
2,4-Dimethylphenol	50.0	μg/L	-	ND								
bis(2-chloroethoxy) methane	5.0	μg/L	-	ND								
2,4-Dichlorophenol	1.0	μg/L	-	ND								
1,2,4-Trichlorobenzene	NE	μg/L	-	ND								
Naphthalene	10.0	μg/L	59	ND								
4-Chloroaniline	5.0	μg/L	-	ND								
Hexachlorobutadiene	0.5	μg/L	-	ND								
4-Chloro-3-methylphenol 2-Methylnaphthalene	NE NE	μg/L μg/L	- 800	ND ND								
2-Metnyinaphtnaiene Hexachlorocyclopentadiene	5.0	μg/L μg/L		ND ND								
2,4,6-Trichlorophenol	NE S.O	μg/L μg/L	-	ND								
2,4,5-Trichlorophenol	NE	μg/L	-	ND								
2-Chloro-phthalene	10.0	μg/L	-	ND								
2-Nitroaniline	5.0	µg/L	-	ND								
Dimethyl phthalate	50.0	μg/L	-	ND	1.0 J	ND						
Acenaphthylene	NE	μg/L	-	ND	0.64 J	ND						
2,6-Dinitrotoluene	5.0	μg/L	-	ND								
3-Nitroaniline	5.0	μg/L	-	ND								
Acenaphthene	20.0	μg/L	65	ND	ND	ND	ND	1 J	1.5 J	2.3	ND ND	0.54
2,4-Dinitrophenol 4-Nitrophenol	10.0 NE	μg/L μg/L	-	ND ND								
Dibenzofuran	50.0	μg/L μg/L	ND									
2.4-Dinitrotoluene	5.0	μg/L μg/L	-	ND								
Diethyl phthalate	50.0	μg/L	-	ND								
4-Chlorophenyl phenyl ether	NE	μg/L	-	ND								
Fluorene	50.0	μg/L	93	ND	ND	ND	ND	ND	1.2 J	ND	0.51 J	0.49
4-Nitroaniline	5.0	µg/L	-	ND								
4,6-Dinitro-2-methylphenol	NE	μg/L	-	ND								
N-Nitrosodiphenylamine	50.0	μg/L	-	ND								
4-Bromophenyl phenyl ether	NE	μg/L	-	ND								
Hexachlorobenzene	0.04	μg/L	-	ND								
Pentachlorophenol	1.0 50.0	μg/L	220	ND ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND	ND
Phenanthrene Anthracene	50.0	μg/L μg/L	ND	ND	ND	ND ND	ND ND	ND	ND	ND ND	ND	ND ND
Carbazole	NE	μg/L μg/L	-	ND	ND	ND	ND	2 J	3.2 J	ND	ND	0.34
Di-n-butyl phthalate	50.0	μg/L μg/L	-	ND	ND	3 J	2 J	ND	ND	ND	0.45 J	0.61
Fluoranthene	50.0	μg/L	ND									
Pyrene	50.0	μg/L	ND									
Butyl benzyl phthalate	50.0	μg/L	-	ND								
3,3'-Dichlorobenzidine	5.0	µg/L	-	ND								
Benz(a)anthracene	0.002	μg/L	ND									
Chrysene	0.002	μg/L	ND									
bis(2-ethylhexyl) phthalate	5.0	μg/L	ND	4 J	7 J	7 J	3 J	4 J	ND	ND	1.8 J	ND
Di-n-octyl phthalate	50.0	μg/L	-	75 ND	ND							
Benzo(b)fluoranthene	0.002	μg/L	-	ND	ND ND	ND	ND	ND ND	ND	ND	ND	ND
Benzo(k)fluoranthene Benzo(a)pyrene	0.002 NE	μg/L μg/L	-	ND ND								
Indeno(1,2,3-cd)pyrene	0.002	μg/L μg/L	-	ND								
Dibenz(a,h)anthracene)	0.002 NE	μg/L μg/L	-	ND								
Benzo(g,h,i) perylene	NE	μg/L μg/L	-	ND								
(3+4)-Methylphenol	NE	μg/L μg/L	-	ND								

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. 06/98, Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected estimated value below quantitation limits

B - Analyite detected in the associated Method Blank

Monitoring Well MW-6 Semi-Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

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	NYSDEC TOGS 1.1.1 Water Quality											
Semi-Volatile Compounds	Standards ¹	Units	08/08/01	07/26/07	08/27/08	07/22/09	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15
Phenol	1.0	μg/L	-	ND								
bis(2-chloroethyl) ether	1.0	μg/L	-	ND								
2-Chlorophenol	NE	μg/L	-	ND								
1,3-Dichlorobenzene	3.0	μg/L	-	ND								
1,4-Dichlorobenzene	3.0	μg/L	-	ND								
2-Methylphenol	NE	μg/L	-	ND								
N-Nitrosodi-n-propylamine	NE	μg/L	-	ND								
Hexachloroethane	5.0	μg/L	-	ND								
Nitrobenzene	0.4	μg/L	-	ND								
Isophorone	50.0	μg/L	-	ND								
2-Nitrophenol	NE	μg/L	ND									
2,4-Dimethylphenol	50.0	μg/L	ND									
bis(2-chloroethoxy) methane	5.0	μg/L	-	ND								
2,4-Dichlorophenol	1.0	µg/L	-	ND								
1,2,4-Trichlorobenzene	NE	μg/L	-	ND								
Naphthalene	10.0	μg/L	ND	ND ND	ND	ND ND						
4-Chloroaniline	5.0	μg/L μg/I	-		ND ND							
Hexachlorobutadiene 4-Chloro-3-methylphenol	0.5 NE	μg/L μg/I	-	ND ND								
4-Chloro-3-methylphenol 2-Methylnaphthalene	NE	μg/L μg/L	- 800	ND ND								
Hexachlorocyclopentadiene	5.0	μg/L μg/L	-	ND								
2.4.6-Trichlorophenol	NE	μg/L μg/L	-	ND								
2,4,5-Trichlorophenol	NE	μg/L μg/L	-	ND								
2-Chloro-phthalene	10.0	μg/L μg/L	-	ND								
2-Nitroaniline	5.0	μg/L μg/L	-	ND								
Dimethyl phthalate	50.0	μg/L μg/L	-	ND	1.2 J	ND						
Acenaphthylene	NE	μg/L μg/L	-	ND	0.59 J	0.43						
2.6-Dinitrotoluene	5.0	μg/L μg/L	-	ND								
3-Nitroaniline	5.0	μg/L	-	ND								
Acenaphthene	20.0	μg/L	120	ND	3 J	ND	ND	2 J	3.4 J	1.0	3.0	2.4
2,4-Dinitrophenol	10.0	μg/L	-	ND								
4-Nitrophenol	NE	μg/L	-	ND								
Dibenzofuran	50.0	μg/L	72	ND								
2,4-Dinitrotoluene	5.0	μg/L	-	ND								
Diethyl phthalate	50.0	µg/L	-	ND								
4-Chlorophenyl phenyl ether	NE	μg/L	-	ND								
Fluorene	50.0	μg/L	200	ND								
4-Nitroaniline	5.0	μg/L	-	ND								
4,6-Dinitro-2-methylphenol	NE	μg/L	-	ND								
N-Nitrosodiphenylamine	50.0	μg/L	-	ND								
4-Bromophenyl phenyl ether	NE	μg/L	-	ND								
Hexachlorobenzene	0.04	μg/L	-	ND								
Pentachlorophenol	1.0	μg/L	-	ND								
Phenanthrene	50.0	μg/L	530	ND								
Anthracene	50.0	μg/L	ND									
Carbazole	NE	μg/L	-	ND								
Di-n-butyl phthalate	50.0	μg/L	-	ND	ND	3 J	ND	ND	ND	ND	0.48 J	0.60
Fluoranthene	50.0	μg/L	ND									
Pyrene	50.0	μg/L	64	ND								
Butyl benzyl phthalate	50.0	μg/L	-	ND								
3,3'-Dichlorobenzidine	5.0	μg/L	-	ND								
Benz(a)anthracene	0.002	μg/L	ND									
Chrysene	0.002	μg/L	ND									
bis(2-ethylhexyl) phthalate	5.0	μg/L	ND	8 J	2 J	8 J	3 J	4 J	ND	ND	1.9 J	ND
Di-n-octyl phthalate	50.0	μg/L	-	5 J	ND							
Benzo(b)fluoranthene	0.002	μg/L	-	ND								
Benzo(k)fluoranthene	0.002	μg/L	-	ND								
Benzo(a)pyrene	NE	μg/L	-	ND								
Indeno(1,2,3-cd)pyrene	0.002	μg/L	-	ND								
Dibenz(a,h)anthracene)	NE	μg/L	-	ND								
Benzo(g,h,i) perylene	NE	μg/L	-	ND								
(3+4)-Methylphenol	NE	μg/L	-	ND								
bis(2-chloroisopropyl) ether	NE	μg/L	-	ND								

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. 06/98, Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected estimated value below quantitation limits

B - Analyite detected in the associated Method Blank

Monitoring Well MW-7 Semi-Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

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	NYSDEC TOGS 1.1.1 Water Quality											
Semi-Volatile Compounds	Standards ¹	Units	08/08/01	07/26/07	08/27/08	07/23/09	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15
Phenol	1.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
bis(2-chloroethyl) ether	1.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
2-Chlorophenol	NE	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
1,3-Dichlorobenzene	3.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
1,4-Dichlorobenzene	3.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
2-Methylphenol	NE	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
N-Nitrosodi-n-propylamine	NE	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
Hexachloroethane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
Nitrobenzene	0.4	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
Isophorone	50.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
2-Nitrophenol	NE	μg/L	ND	*NA	ND	ND						
2,4-Dimethylphenol	50.0	μg/L	ND	*NA	ND	ND						
bis(2-chloroethoxy) methane	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
2,4-Dichlorophenol	1.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
1,2,4-Trichlorobenzene	NE	µg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
Naphthalene 4-Chloroaniline	10.0	μg/L	3,000	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	*NA *NA	ND ND	0.81 ND
4-Chloroaniline Hexachlorobutadiene	5.0	μg/L	-			ND ND	-	ND ND	ND ND	*NA *NA	ND ND	ND ND
	0.5 NE	μg/L μg/I	-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	*NA *NA	ND ND	ND ND
4-Chloro-3-methylphenol 2-Methylnaphthalene	NE NE	μg/L μg/L	- 1,100	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	*NA *NA	ND ND	ND ND
Hexachlorocyclopentadiene	5.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND ND
2,4,6-Trichlorophenol	3.0 NE	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
2,4,5-Trichlorophenol	NE	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
2-Chloro-phthalene	10.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
2-Nitroaniline	5.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
Dimethyl phthalate	50.0	μg/L μg/L		ND	ND	ND	ND	ND	ND	*NA	1.1 J	ND
Acenaphthylene	NE	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	0.36
2,6-Dinitrotoluene	5.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
3-Nitroaniline	5.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
Acenaphthene	20.0	μg/L	590	ND	ND	ND	ND	ND	9.6 J	*NA	ND	0.54
2,4-Dinitrophenol	10.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
4-Nitrophenol	NE	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
Dibenzofuran	50.0	μg/L	ND	*NA	ND	ND						
2,4-Dinitrotoluene	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
Diethyl phthalate	50.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	0.47 J	ND
4-Chlorophenyl phenyl ether	NE	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
Fluorene	50.0	μg/L	430	ND	ND	ND	ND	ND	ND	*NA	ND	ND
4-Nitroaniline	5.0	µg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
4,6-Dinitro-2-methylphenol	NE	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
N-Nitrosodiphenylamine	50.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
4-Bromophenyl phenyl ether	NE	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
Hexachlorobenzene	0.04	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
Pentachlorophenol	1.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
Phenanthrene	50.0	μg/L	1,100	ND	ND	ND	ND	ND	ND	*NA	ND	ND
Anthracene	50.0	μg/L	350	ND	ND	ND	ND	ND	ND	*NA	0.45 J	ND
Carbazole	NE	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
Di-n-butyl phthalate	50.0	μg/L	-	ND	ND	3 J	1 J	ND	ND	*NA	0.74 J	0.62
Fluoranthene	50.0	μg/L	270	ND	ND	ND	ND	ND	9.4 J	*NA	ND	ND
Pyrene	50.0	μg/L	480	3 J	ND	ND	ND	ND	28	*NA	ND	ND
Butyl benzyl phthalate	50.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
3,3'-Dichlorobenzidine	5.0	μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
Benzo(a)anthracene	0.002	μg/L	150	1 J	ND	ND	ND	ND	16	*NA	ND	0.26
Chrysene	0.002	μg/L	140	1J	ND	ND	ND	ND	17	*NA	ND	ND
bis(2-ethylhexyl) phthalate	5.0	µg/L	ND	ND	ND	82 ND	2 J	7 J	8.6 J	*NA	1.6 J	ND
Di-n-octyl phthalate	50.0	μg/L	-	ND	ND	ND	ND	ND	ND 16	*NA	ND	ND
Benzo(b)fluoranthene	0.002	µg/L	-	1 J	ND	ND	ND	ND	16	*NA	ND	ND
Benzo(k)fluoranthene	0.002	μg/L	-	ND	ND	ND	ND	ND	16	*NA	ND	ND
Benzo(a)pyrene	NE 0.002	μg/L	-	2 J	ND	ND	ND	ND ND	29 ND	*NA *NA	ND ND	ND ND
Indeno(1,2,3-cd)pyrene	0.002	μg/L	-	ND ND	ND	ND ND	ND ND	ND ND	ND ND	*NA *NA	ND ND	ND ND
Dibenz(a,h)anthracene) Benzo(g,h,i) perylene	NE NE	μg/L μg/I	-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	*NA *NA	ND ND	0.16
(3+4)-Methylphenol	NE	μg/L μg/L	-	ND ND	ND ND	ND ND	ND ND	ND	ND ND	*NA *NA	ND ND	0.16 ND
bis(2-chloroisopropyl) ether	NE	μg/L μg/L	-	ND	ND	ND	ND	ND	ND	*NA	ND	ND
enoral enterorsopropyr) enter	112	<u>н6/ Ц</u>	-	110			110	1.0		11/1	1.10	1.10

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998. Class GA.

Bolded concentrations indicated the analyte was detected.

Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected estimated value below quantitation limits

- = The analyte was not sampled for.

*NA - Unable to purge or sample due to equipment failure or no water was able to be removed from well. No water was retrievable.

Monitoring Well MW-8 Semi-Volatile Organic Analytical Test Results 153 Fillmore Avenue Site

	NYSDEC TOGS 1.1.1 Water Quality											
Semi-Volatile Compounds	Standards ¹	Units	08/08/01	07/26/07	08/27/08	07/22/09	07/15/10	07/22/11	07/24/12	07/24/13	07/15/14	07/23/15
Phenol	1.0	μg/L	-	ND								
bis(2-chloroethyl) ether	1.0	µg/L	-	ND								
2-Chlorophenol	NE	µg/L	-	ND								
1,3-Dichlorobenzene	3.0	μg/L	-	ND								
1,4-Dichlorobenzene	3.0	µg/L	-	ND								
2-Methylphenol	NE NE	µg/L	-	ND ND								
N-Nitrosodi-n-propylamine Hexachloroethane	5.0	μg/L μg/L	-	ND	ND	ND	ND	ND	ND ND	ND	ND	ND
Nitrobenzene	0.4	μg/L μg/L		ND								
Isophorone	50.0	μg/L μg/L	-	ND								
2-Nitrophenol	NE	μg/L	ND									
2,4-Dimethylphenol	50.0	μg/L	ND									
bis(2-chloroethoxy) methane	5.0	μg/L	-	ND								
2,4-Dichlorophenol	1.0	μg/L	-	ND								
1,2,4-Trichlorobenzene	NE	μg/L	-	ND								
Naphthalene	10.0	μg/L	ND									
4-Chloroaniline	5.0	μg/L	-	ND								
Hexachlorobutadiene	0.5	μg/L	-	ND								
4-Chloro-3-methylphenol	NE	µg/L	-	ND								
2-Methylnaphthalene	NE	µg/L	ND									
Hexachlorocyclopentadiene	5.0 NE	µg/L	-	ND ND								
2,4,6-Trichlorophenol 2,4,5-Trichlorophenol	NE	μg/L μg/L	-	ND	ND	ND	ND	ND	ND ND	ND	ND	ND
2-Chloro-phthalene	10.0	μg/L μg/L	-	ND								
2-Nitroaniline	5.0	μg/L μg/L	-	ND								
Dimethyl phthalate	50.0	μg/L	-	ND	1.3 J	ND						
Acenaphthylene	NE	μg/L	-	ND								
2,6-Dinitrotoluene	5.0	μg/L	-	ND								
3-Nitroaniline	5.0	μg/L	-	ND								
Acenaphthene	20.0	μg/L	13	4 J	3 J	2 J	2 J	1 J	1.4 J	ND	2.2	1.4
2,4-Dinitrophenol	10.0	μg/L	-	ND								
4-Nitrophenol	NE	µg/L	-	ND								
Dibenzofuran	50.0	μg/L	ND									
2,4-Dinitrotoluene	5.0	μg/L	-	ND								
Diethyl phthalate	50.0	µg/L	-	ND	ND	ND	ND ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether Fluorene	NE 50.0	µg/L	- ND	ND ND								
4-Nitroaniline	5.0	μg/L μg/L	-	ND	ND	ND	ND ND	ND	ND ND	ND	ND ND	ND ND
4,6-Dinitro-2-methylphenol	NE	μg/L μg/L	-	ND								
N-Nitrosodiphenylamine	50.0	μg/L μg/L	-	ND								
4-Bromophenyl phenyl ether	NE	μg/L	-	ND								
Hexachlorobenzene	0.04	μg/L	-	ND								
Pentachlorophenol	1.0	μg/L	-	ND								
Phenanthrene	50.0	µg/L	6	ND								
Anthracene	50.0	µg/L	ND									
Carbazole	NE	μg/L	-	ND								
Di-n-butyl phthalate	50.0	µg/L	-	ND	ND	4 J	2 J	ND	ND	ND	0.57 J	0.64
Fluoranthene	50.0	µg/L	8	ND								
Pyrene	50.0	μg/L	9	ND								
Butyl benzyl phthalate	50.0	µg/L	-	ND								
3,3'-Dichlorobenzidine	5.0	μg/L μg/I	- ND	ND ND								
Benz(a)anthracene Chrysene	0.002	μg/L μg/L	ND ND									
bis(2-ethylhexyl) phthalate	5.0	μg/L μg/L	85	ND	ND	8 J	3 J	4 J	ND ND	ND	2.3 J	ND
Di-n-octyl phthalate	50.0	μg/L μg/L	-	ND								
Benzo(b)fluoranthene	0.002	μg/L μg/L	-	ND								
Benzo(k)fluoranthene	0.002	μg/L μg/L	-	ND								
Benzo(a)pyrene	NE	μg/L μg/L	-	ND								
Indeno(1,2,3-cd)pyrene	0.002	μg/L	-	ND								
Dibenz(a,h)anthracene)	NE	μg/L	-	ND								
Benzo(g,h,i) perylene	NE	μg/L	-	ND								
(3+4)-Methylphenol	NE	µg/L	-	ND	1.30							
bis(2-chloroisopropyl) ether	NE	μg/L	-	ND								

1. NYSDEC TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. 06/98, Class GA.

Bolded concentrations indicated the analyte was detected. Bolded and shaded concentrations indicate exceedance of TOGS 1.1.1 criteria.

NE = NYSDEC TOGS 1.1.1 water quality standard not established.

ND - Not detected for at or above reporting limit

J - Analyte detected estimated value below quantitation limits

B - Analyite detected in the associated Method Blank

APPENDIX E

Part 375 Soil Cleanup Objectives

(b) Restricted use soil cleanup objectives.

	CAS			Public Health		Protection	Protection of	
Contaminant	Number	Residential	Restricted- Residential	Commercial	Industrial	Ecological Resources	Ground- water	
Metals								
Arsenic	7440-38-2	16 ^f	16 ^f	16 ^f	16 ^f	13 ^f	16 ^f	
Barium	7440-39-3	350 ^f	400	400	10,000 ^d	433	820	
Beryllium	7440-41-7	14	72	590	2,700	10	47	
Cadmium	7440-43-9	2.5 ^f	4.3	9.3	60	4	7.5	
Chromium, hexavalent h	18540-29-9	22	110	400	800	1°	19	
Chromium, trivalent ^h	16065-83-1	36	180	1,500	6,800	41	NS	
Copper	7440-50-8	270	270	270	10,000 ^d	50	1,720	
Total Cyanide ^h		27	27	27	10,000 ^d	NS	40	
Lead	7439-92-1	400	400	1,000	3,900	63 ^f	450	
Manganese	7439-96-5	2,000 ^f	2,000 ^f	10,000 ^d	10,000 ^d	1600 ^f	2,000 ^f	
Total Mercury		0.81 ^j	0.8 1 ^j	2.8 ^j	5.7 ^j	0.18 ^f	0.73	
Nickel	7440-02-0	140	310	310	10,000 ^d	30	130	
Selenium	7782-49-2	36	180	1,500	6,800	3.9 ^f	4 ^f	
Silver	7440-22-4	36	180	1,500	6,800	2	8.3	
Zinc	7440-66-6	2200	10,000 ^d	10,000 ^d	10,000 ^d	109 ^f	2,480	
PCBs/Pesticides	-							
2,4,5-TP Acid (Silvex)	93-72-1	58	100 ^a	500 ^b	1,000°	NS	3.8	
4,4'-DDE	72-55-9	1.8	8.9	62	120	0.0033 °	17	
4,4'-DDT	50-29-3	1.7	7.9	47	94	0.0033 °	136	
4,4'- DDD	72-54-8	2.6	13	92	180	0.0033 °	14	
Aldrin	309-00-2	0.019	0.097	0.68	1.4	0.14	0.19	
alpha-BHC	319-84-6	0.097	0.48	3.4	6.8	0.04 ^g	0.02	
beta-BHC	319-85-7	0.072	0.36	3	14	0.6	0.09	
Chlordane (alpha)	5103-71-9	0.91	4.2	24	47	1.3	2.9	

Table 375-6.8(b): Restricted	Use Soil Clean	up Objectives
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Contaminant	CAS Number	Protection of Public Health				Protection of	Protection of
		Residential	Restricted- Residential	Commercial	Industrial	Ecological Resources	Ground- water
delta-BHC	319-86-8	100ª	100ª	500 ^b	1,000°	0.04 ^g	0.25
Dibenzofuran	132-64-9	14	59	350	1,000°	NS	210
Dieldrin	60-57-1	0.039	0.2	1.4	2.8	0.006	0.1
Endosulfan I	959-98-8	4.8 ⁱ	24 ⁱ	200 ⁱ	920 ⁱ	NS	102
Endosulfan II	33213-65-9	4.8 ⁱ	24 ⁱ	200 ⁱ	920 ⁱ	NS	102
Endosulfan sulfate	1031-07-8	4.8 ⁱ	24 ⁱ	200 ⁱ	920 ⁱ	NS	1,000°
Endrin	72-20-8	2.2	11	89	410	0.014	0.06
Heptachlor	76-44-8	0.42	2.1	15	29	0.14	0.38
Lindane	58-89-9	0.28	1.3	9.2	23	6	0.1
Polychlorinated biphenyls	1336-36-3	1	1	1	25	1	3.2
Semivolatiles				x* 1	20 20		
Acenaphthene	83-32-9	100ª	100 ^a	500 ^b	1,000°	20	98
Acenapthylene	208-96-8	100 ^a	100 ^a	500 ^b	1,000°	NS	107
Anthracene	120-12-7	100ª	100 ^a	500 ^b	1,000°	NS	1,000°
Benz(a)anthracene	56-55-3	1^{f}	1^{f}	5.6	11	NS	$1^{\mathbf{f}}$
Benzo(a)pyrene	50-32-8	1^{f}	1^{f}	1 ^f	1.1	2.6	22
Benzo(b)fluoranthene	205-99-2	1^{f}	1^{f}	5.6	11	NS	1.7
Benzo(g,h,i)perylene	191-24-2	100ª	100ª	500 ^b	1,000°	NS	1,000°
Benzo(k)fluoranthene	207-08-9	1	3.9	56	110	NS	1.7
Chrysene	218-01-9	1^{f}	3.9	56	110	NS	1 ^f
Dibenz(a,h)anthracene	53-70-3	0.33°	0.33°	0.56	1.1	NS	1,000°
Fluoranthene	206-44-0	100ª	100ª	500 ^b	1,000°	NS	1,000°
Fluorene	86-73-7	100ª	100ª	500 ^b	1,000°	30	386
Indeno(1,2,3-cd)pyrene	193-39-5	0.5^{f}	0.5 ^f	5.6	11	NS	8.2
m-Cresol	108-39-4	100ª	100ª	500 ^b	1,000°	NS	0.33°
Naphthalene	91-20-3	100ª	100ª	500 ^b	1,000°	NS	12

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number		Protection of]	Protection of	Protection of		
		Residential	Restricted- Residential	Commercial	Industrial	Ecological Resources	Ground- water
o-Cresol	95-48-7	100ª	100ª	500 ^b	1,000°	NS	0.33°
p-Cresol	106-44-5	34	100ª	500 ^b	1,000°	NS	0.33°
Pentachlorophenol	87-86-5	2.4	6.7	6.7	55	0.8°	0.8°
Phenanthrene	85-01-8	100ª	100ª	500 ^b	1,000°	NS	1,000°
Phenol	108-95-2	100ª	100ª	500 ^b	1,000°	30	0.33°
Pyrene	129-00-0	100ª	100ª	500 ^b	1,000°	NS	1,000°
Volatiles			-				
1,1,1-Trichloroethane	71-55-6	100ª	100ª	500 ^b	1,000°	NS	0.68
1,1-Dichloroethane	75-34-3	19	26	240	480	NS	0.27
1,1-Dichloroethene	75-35-4	100ª	100ª	500 ^b	1,000°	NS	0.33
1,2-Dichlorobenzene	95-50-1	100ª	100ª	500 ^b	1,000°	NS	1.1
1,2-Dichloroethane	107-06-2	2.3	3.1	30	60	10	0.02 ^f
cis-1,2-Dichloroethene	156-59-2	59	100ª	500 ^b	1,000°	NS	0.25
trans-1,2-Dichloroethene	156-60-5	100ª	100ª	500 ^b	1,000°	NS	0.19
1,3-Dichlorobenzene	541-73-1	17	49	280	560	NS	2.4
1,4-Dichlorobenzene	106-46-7	9.8	13	130	250	20	1.8
1,4-Dioxane	123-91-1	9.8	13	130	250	0.1°	0.1°
Acetone	67-64-1	100ª	100 ^b	500 ^b	1,000°	2.2	0.05
Benzene	71-43-2	2.9	4.8	44	89	70	0.06
Butylbenzene	104-51-8	100ª	100ª	500 ^b	1,000°	NS	12
Carbon tetrachloride	56-23-5	1.4	2.4	22	44	NS	0.76
Chlorobenzene	108-90-7	100ª	100ª	500 ^b	1,000°	40	1.1
Chloroform	67-66-3	10	49	350	700	12	0.37
Ethylbenzene	100-41-4	30	41	390	780	NS	1
Hexachlorobenzene	118-74-1	0.33°	1.2	6	12	NS	3.2
Methyl ethyl ketone	78-93-3	100 ^a	100 ^a	500 ^b	1,000°	100 ^a	0.12

 Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection	Protection
		Residential	Restricted- Residential	Commercial	Industrial	Ecological Resources	Ground- water
Methyl tert-butyl ether	1634-04-4	62	100ª	500 ^b	1,000°	NS	0.93
Methylene chloride	75-09-2	51	100ª	500 ^b	1,000°	12	0.05
n-Propylbenzene	103-65-1	100 ^a	100 ^a	500 ^b	1,000°	NS	3.9
sec-Butylbenzene	135-98-8	100ª	100ª	500 ^b	1,000°	NS	11
tert-Butylbenzene	98-06-6	100ª	100ª	500 ^b	1,000°	NS	5.9
Tetrachloroethene	127-18-4	5.5	19	150	300	2	1.3
Toluene	108-88-3	100ª	100 ^a	500 ^b	1,000°	36	0.7
Trichloroethene	79-01-6	10	21	200	400	2	0.47
1,2,4-Trimethylbenzene	95-63-6	47	52	190	380	NS	3.6
1,3,5- Trimethylbenzene	108-67-8	47	52	190	380	NS	8.4
Vinyl chloride	75-01-4	0.21	0.9	13	27	NS	0.02
Xylene (mixed)	1330-20-7	100ª	100ª	500 ^b	1,000°	0.26	1.6

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

All soil cleanup objectives (SCOs) are in parts per million (ppm).

NS=Not specified. See Technical Support Document (TSD).

Footnotes

^a The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.

^b The SCOs for commercial use were capped at a maximum value of 500 ppm. See TSD section 9.3.

[°] The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1000 ppm. See TSD section 9.3.

^d The SCOs for metals were capped at a maximum value of 10,000 ppm. See TSD section 9.3.

^e For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.

^f For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.

^g This SCO is derived from data on mixed isomers of BHC.

^h The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

ⁱ This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

^j This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts). See TSD Table 5.6-1.