

Progress/Inspection Report No. 22
J&H Holding Company, LLC
491 Wortman Avenue, Brooklyn, NY 11208
Brownfield Cleanup Program Site No. C224139
Reporting Period: April – June 2019

1. Introduction

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) submits this progress/inspection report on behalf of J&H Holding Company, LLC (the "Participant") for the Former Watermark Designs Facility (the "Site"). Monitoring and maintenance activities were performed in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved the Site Management Plan (SMP), which outlined a monthly submittal schedule for progress/inspection reports. In accordance with an email from Alicia Barraza dated January 11, 2019, the schedule for progress/inspection reports was modified to quarterly. This progress/inspection report covers the period between April and June, 2019.

The Site (Block 4384, Lots 31 & 36) is located at 491 Wortman Avenue in Brooklyn, New York (Figure 1) and consists of a rectangular-shaped lot that is about 19,000 square feet (± 0.44 acres). The Site is located in an area zoned for industrial/manufacturing use and is bound by Wortman Street to the south, Linwood Street to the west, Essex Street to the east, and a one-story building to the north. Currently, a one-story building with a partial basement covers the entire Site footprint. The one-story building was previously used as a warehouse and office space and is currently in the process of being re-occupied by a new tenant for commercial use.

2. Remedial Actions Relative to the Site during this Reporting Period

Langan performed operation, maintenance, and monitoring (OM&M) activities for the Air Sparge (AS)/Soil Vapor Extraction (SVE) system on May 2, 2019. The AS/SVE system operated throughout the reporting period except for during discrete intervals preceding and during on-site sampling activities.

During an engineering controls inspection on April 1, 2019, damage to the site cover system (e.g., holes, cracks, and penetrations) was observed and documented. A Corrective Measures Work Plan (CMWP) was subsequently submitted to NYSDEC on May 31, 2019, to address site cover deficiencies. The CMWP was implemented and between June 5 and 7, 2019.

A quarterly groundwater sampling event was conducted on June 13 and 14, 2019. Depth-to-water, total depth, and photoionization detector (PID) well headspace measurements were collected at monitoring wells MW-1, MW-2, MW-3AS, MW-6, MW-7, MW-9, MW-10, MW-11, MW-16, MW-17, MW-18S, MW-18M, MW-10, and PZ-2. Following the collection of field data, the monitoring wells were purged until water quality parameters stabilized, at which point groundwater samples were collected for laboratory analysis of Target Compound List (TCL) volatile organic compounds (VOCs). This set of wells was sampled during the Supplemental Design Investigation (SDI)/Quarterly Groundwater Sampling Event that occurred between March 5 and 8, 2019. Groundwater sampling locations are shown on Figure 2.

3. Actions Relative to the Site Anticipated for the Next Reporting Period

The following activities are planned:

- Continued operation of the AS/SVE system.
- Submission of the Periodic Review Report for 2018.
- Submission and implementation of a Communication Test Plan;
- Performance of AS/SVE system OM&M.
- Performance of an Annual Vapor Sampling Event.
- Performance of a Quarterly Groundwater Monitoring Event. The expanded list of monitoring wells to be sampled during the monitoring event includes MW-1, MW-2, MW-3AS, MW-6, MW-7, MW-9, MW-10, MW-11, MW-16, PZ-2, MW-17, MW-18S, MW-18M, and MW-19.

4. Approved Activity Modifications (changes of work scope and/or schedule)

- The NYSDEC approved of sampling the SDI set of monitoring wells during this quarter's Groundwater Sampling Event. This set of wells deviates slightly from the SMP-mandated set of wells.
- On May 31, 2019 Langan submitted a Corrective Measures Work Plan to address deficiencies with the site's cover system. On June 4, the NYSDEC approved the Corrective Measures Work Plan and revised the 2018 Periodic Review Report deadline to August 7, 2019. The 2018 Periodic Review submission deadline was later revised to August 12, 2019.

5. Results of Sampling, Testing and Other Relevant Data

The June 2019 quarterly groundwater sample analytical results were compared to the NYSDEC Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1. Ambient Water Quality Standards and Guidance Values for Class GA water (herein referred to as "NYSDEC SGVs"). A summary of the analytical results from the previous quarter (March 2019) and the current reporting period is provided below:

March 2019 Quarterly Groundwater Monitoring Event

- Chloroform exceeded the NYSDEC SGV (7 micrograms per liter [$\mu\text{g/L}$]) in two off-site monitoring wells (MW-10 and MW-11) at concentrations ranging from 20 $\mu\text{g/L}$ to 44 $\mu\text{g/L}$.
- Cis-1,2-dichloroethene exceeded the NYSDEC SGV (5 $\mu\text{g/L}$) in two off-site monitoring wells (MW-17 and MW-19) at concentrations ranging from 6 $\mu\text{g/L}$ to 35 $\mu\text{g/L}$.
- Tetrachloroethene (PCE) exceeded the NYSDEC SGV (5 $\mu\text{g/L}$) in six off-site monitoring wells (MW-6, MW-11, MW-17, MW-18S, MW-18M, and MW-19) at concentrations ranging from $\mu\text{g/L}$ 5.6 $\mu\text{g/L}$ to 2,600 $\mu\text{g/L}$.

- Trichloroethene (TCE) exceeded the NYSDEC SGV (5 µg/L) in six off-site monitoring wells (MW-6, MW-11, MW-17, MW-18S, MW-18M, and MW-19) at concentrations ranging from 11 µg/L to 2,100 µg/L.
- No CVOCs were detected at concentrations exceeding NYSDEC SGVs in groundwater samples collected from on-site monitoring wells.

Reductions in CVOC concentrations during the March 2019 Quarterly Groundwater Monitoring Event ranged from 79.8% to 100% compared to baseline concentrations and 19.3% to 100% compared to the June 2018 Quarterly Groundwater Sampling Event (previous quarter).

Concentrations of PCE and TCE in the newly installed, up- and/or cross-gradient off-site monitoring well MW-19 (located about 50 feet north of the site) were greater than the respective baseline (August 2015) concentrations of either compound in any on-site monitoring wells. These results indicate that a previously unidentified source area unrelated to historic on-site activities exists to the north of the site.

Tabulated groundwater data from the March Quarterly Groundwater Monitoring Event is included in Table 1 and shown on Figure 2. A groundwater contour map based on depth-to-groundwater measurements taken in March 2019 is presented as Figure 3. The laboratory analytical data reports are included as Attachment 1.

June 2019 Quarterly Groundwater Monitoring Event

- Chloroform exceeded the NYSDEC SGV (7 µg/L) in monitoring wells MW-10 and MW-11 at 60 µg/L and 20 µg/L, respectively.
- Cis-1,2-Dichloroethene exceeded the NYSDEC SGV (5 µg/L) in three monitoring wells (MW-6, MW-17, and MW-19) at concentrations ranging from 7.7 µg/L to 45 µg/L.
- PCE exceeded the NYSDEC SGV (5 µg/L) in six monitoring wells (MW-6, MW-11, MW-17, MW-18S, MW-18M, and MW-19) at concentrations ranging from 6.9 µg/L to 3,200 µg/L.
- TCE exceeded the NYSDEC SGV (5 µg/L) in six monitoring wells (MW-6, MW-11, MW-17, MW-18S, MW-18M, and MW-19) at concentrations ranging from 14 µg/L to 2,400 µg/L.
- No CVOCs were detected at concentrations exceeding NYSDEC SGVs in groundwater samples collected from on-site monitoring wells.

No CVOCs were detected at concentrations exceeding the NYSDEC SGVs in the five on-site monitoring wells (MW-1, MW-2, MW-3S, MW-9, and PZ-2) sampled in June 2019. Analytical results from on-site monitoring wells are consistent with previous environmental investigations and monitoring events and demonstrate that the AS/SVE system has been effective for remediating CVOC contamination at the site.

Analytical results from off-site monitoring wells (MW-6, MW-7, MW-10, MW-11, MW-16S, MW-17, MW-18S, MW-18M, and MW-19) were consistent with the March 2019 (previous quarter) sampling results. Four CVOCs were detected at concentrations exceeding the NYSDEC

SGVs in off-site monitoring wells and concentrations of PCE and TCE in monitoring well MW-19 were greater than the respective baseline (August 2015) concentrations of either compound in any on-site monitoring wells. The off-site analytical results do not appear to be associated with historic on-site activities and indicate that an unidentified off-site source area likely exists to the north of the site.

Tabulated groundwater data from the June Quarterly Groundwater Monitoring Event is included in Table 2 and shown on Figure 2. A summary of quarterly CVOC concentrations from August 2015 to June 2019 is included in Table 3. A groundwater contour map based on depth-to-groundwater measurements taken in June 2019 is presented as Figure 4. The laboratory analytical data reports are included as Attachment 1.

6. Deliverables Submitted During This Reporting Period

A Supplemental Design Investigation Report was submitted to the NYSDEC on April 24, 2019. It documented the results and conclusions of the Supplemental Design Investigation that was executed between March 5 and 8, 2019.

The aforementioned Corrective Measures Work Plan was submitted to the NYSDEC on May 31, 2019.

7. Information Regarding Percentage of Completion

As of June 30, 2019 and since the system was first started, the SVE system operated for 28,752 hours (96% uptime), and the AS system operated for 27,209 hours (94% uptime).

8. Unresolved Delays Encountered or Anticipated That May Affect the Schedule and Mitigation Efforts

None

9. Citizen Participation Plan Activities during This Reporting Period

None

10. Activities Anticipated in Support of the CPP for the Next Reporting Period

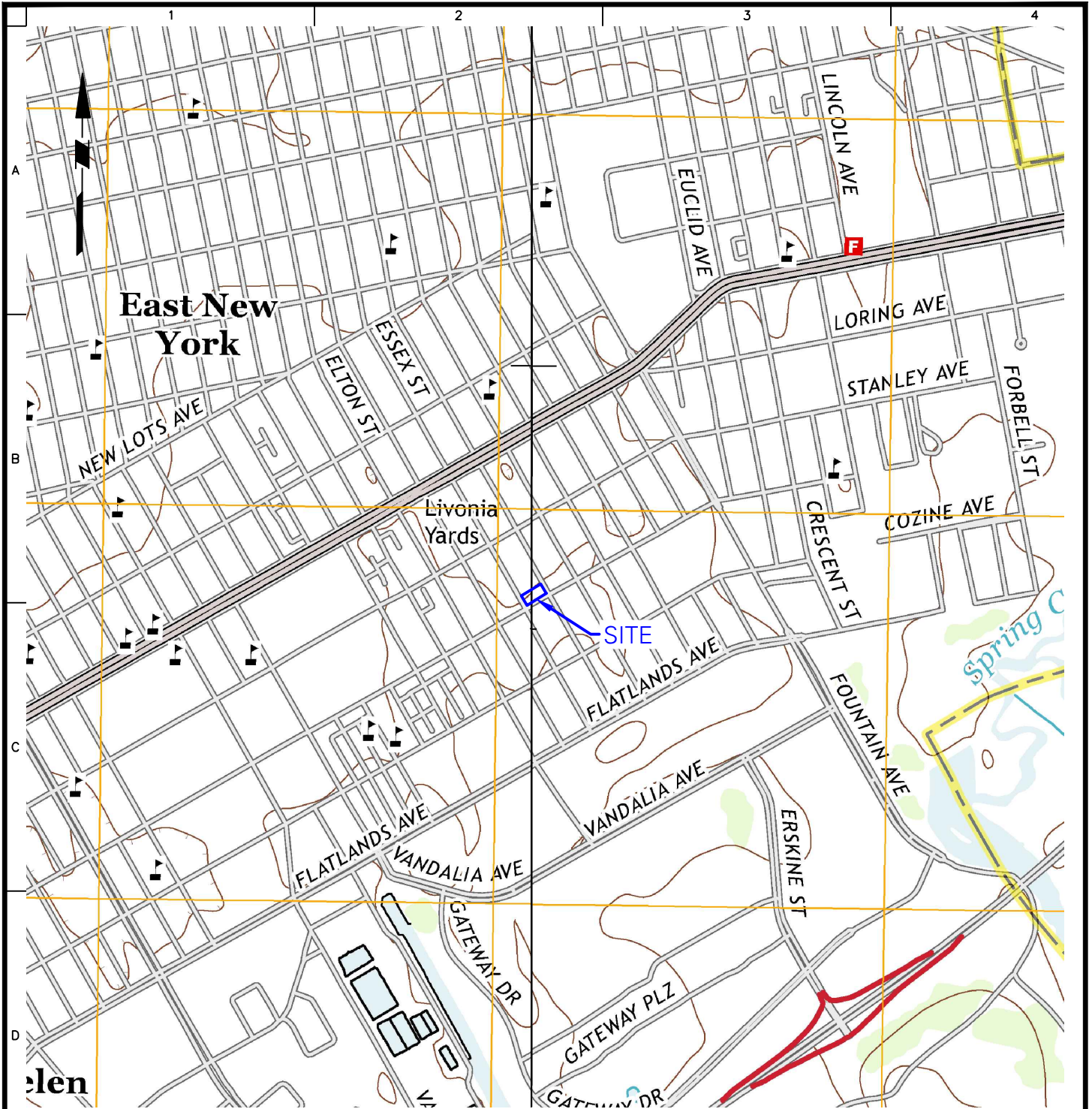
None

11. Miscellaneous Information

None.

Enclosure(s): Figure 1 – Site Location Map
Figure 2 – March and June 2019 Groundwater Analytical Results Map
Figure 3 – March 2019 Groundwater Contour Map
Figure 4 – June 2019 Groundwater Contour Map
Table 1 – March 2019 Groundwater Sample Analytical Results Summary – VOCs
Table 2 – June 2019 Groundwater Sample Analytical Results Summary – VOCs
Table 3 – Groundwater Results Summary
Attachment 1 – Laboratory Analytical Data Reports


FIGURES

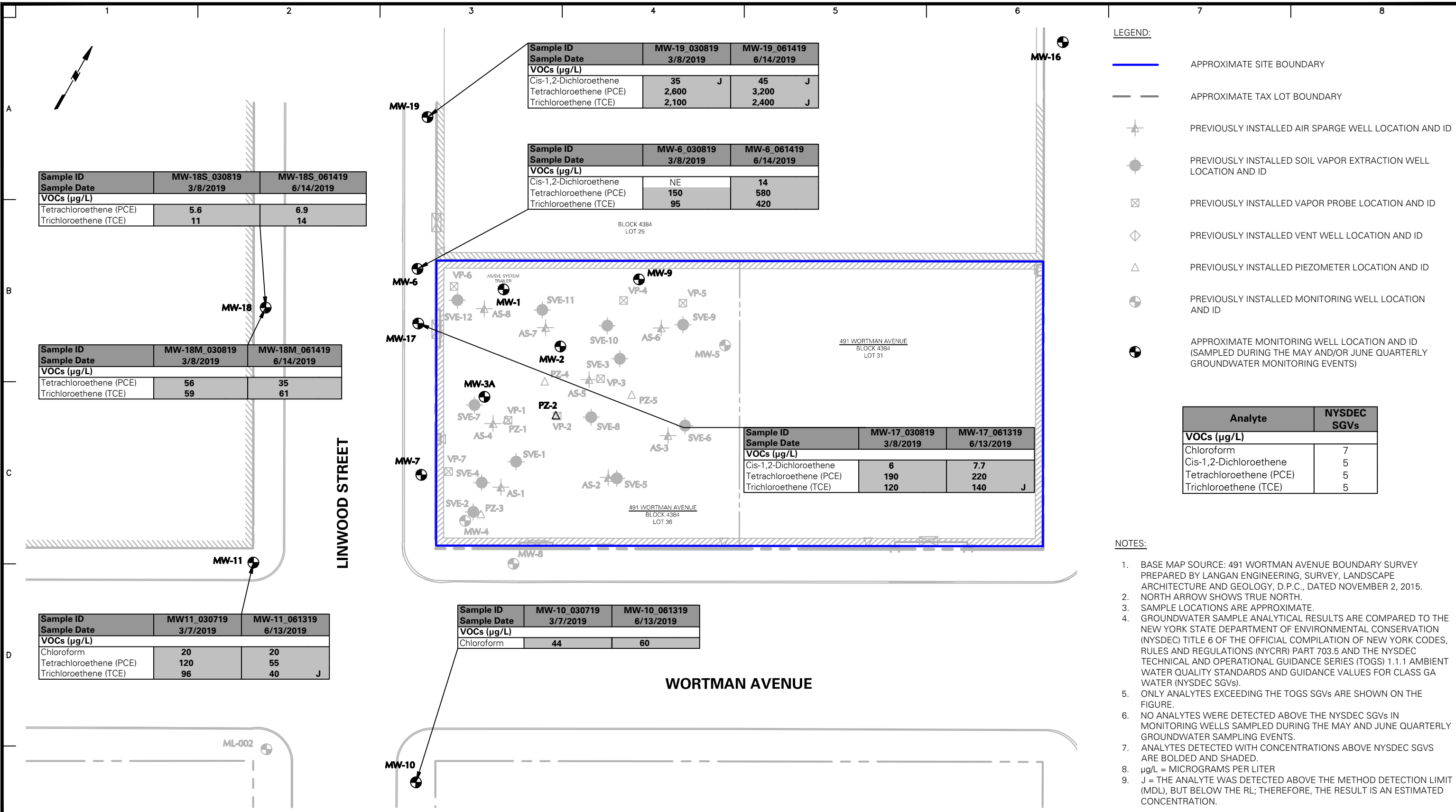


LEGEND:

 APPROXIMATE SITE BOUNDARY

NOTE: BASE MAPS ARE REFERENCED FROM THE UNITED STATES GEOLOGICAL SURVEY (USGS) TOPOGRAPHIC QUADRANGLE MAPS FOR BROOKLYN AND JAMAICA.

| | | | | | |
|---|--|--|--------------------------|--------------------|------------------|
|  21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan Engineering and Environmental Services, Inc. Langan CT, Inc. Langan International LLC Collectively known as Langan | Project 491 WORTMAN AVENUE BLOCK No. 4384, LOT Nos. 31 & 36 BROOKLYN KINGS NEW YORK | Figure Title SITE LOCATION MAP | Project No. 170329301 | Figure 1 | |
| | | | Date 04/18/2015 | | |
| | | | Scale N.T.S. | | |
| | | | Drawn By MLR | | Checked By GN |
| | | | Submission Date | | |



| Sample ID | MW-18S_030819 | MW-18S_061419 |
|-------------------------|---------------|---------------|
| Sample Date | 3/8/2019 | 6/14/2019 |
| VOCs (µg/L) | | |
| Tetrachloroethene (PCE) | 5.6 | 6.9 |
| Trichloroethene (TCE) | 11 | 14 |

| Sample ID | MW-18M_030819 | MW-18M_061419 |
|-------------------------|---------------|---------------|
| Sample Date | 3/8/2019 | 6/14/2019 |
| VOCs (µg/L) | | |
| Tetrachloroethene (PCE) | 56 | 35 |
| Trichloroethene (TCE) | 59 | 61 |

| Sample ID | MW11_030719 | MW-11_061319 |
|-------------------------|-------------|--------------|
| Sample Date | 3/7/2019 | 6/13/2019 |
| VOCs (µg/L) | | |
| Chloroform | 20 | 20 |
| Tetrachloroethene (PCE) | 120 | 55 |
| Trichloroethene (TCE) | 96 | 40 J |

| Sample ID | MW-19_030819 | MW-19_061419 |
|-------------------------|--------------|--------------|
| Sample Date | 3/8/2019 | 6/14/2019 |
| VOCs (µg/L) | | |
| Cis-1,2-Dichloroethene | 35 J | 45 J |
| Tetrachloroethene (PCE) | 2,600 | 3,200 |
| Trichloroethene (TCE) | 2,100 | 2,400 J |

| Sample ID | MW-6_030819 | MW-6_061419 |
|-------------------------|-------------|-------------|
| Sample Date | 3/8/2019 | 6/14/2019 |
| VOCs (µg/L) | | |
| Cis-1,2-Dichloroethene | NE | 14 |
| Tetrachloroethene (PCE) | 150 | 580 |
| Trichloroethene (TCE) | 95 | 420 |

| Sample ID | MW-17_030819 | MW-17_061319 |
|-------------------------|--------------|--------------|
| Sample Date | 3/8/2019 | 6/13/2019 |
| VOCs (µg/L) | | |
| Cis-1,2-Dichloroethene | 6 | 7.7 |
| Tetrachloroethene (PCE) | 190 | 220 |
| Trichloroethene (TCE) | 120 | 140 J |

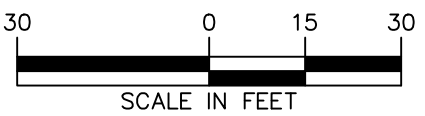
| Sample ID | MW-10_030719 | MW-10_061319 |
|-------------|--------------|--------------|
| Sample Date | 3/7/2019 | 6/13/2019 |
| VOCs (µg/L) | | |
| Chloroform | 44 | 60 |

- LEGEND:
- APPROXIMATE SITE BOUNDARY
 - APPROXIMATE TAX LOT BOUNDARY
 - PREVIOUSLY INSTALLED AIR SPARGE WELL LOCATION AND ID
 - PREVIOUSLY INSTALLED SOIL VAPOR EXTRACTION WELL LOCATION AND ID
 - PREVIOUSLY INSTALLED VAPOR PROBE LOCATION AND ID
 - PREVIOUSLY INSTALLED VENT WELL LOCATION AND ID
 - PREVIOUSLY INSTALLED PIEZOMETER LOCATION AND ID
 - PREVIOUSLY INSTALLED MONITORING WELL LOCATION AND ID
 - APPROXIMATE MONITORING WELL LOCATION AND ID (SAMPLED DURING THE MAY AND/OR JUNE QUARTERLY GROUNDWATER MONITORING EVENTS)

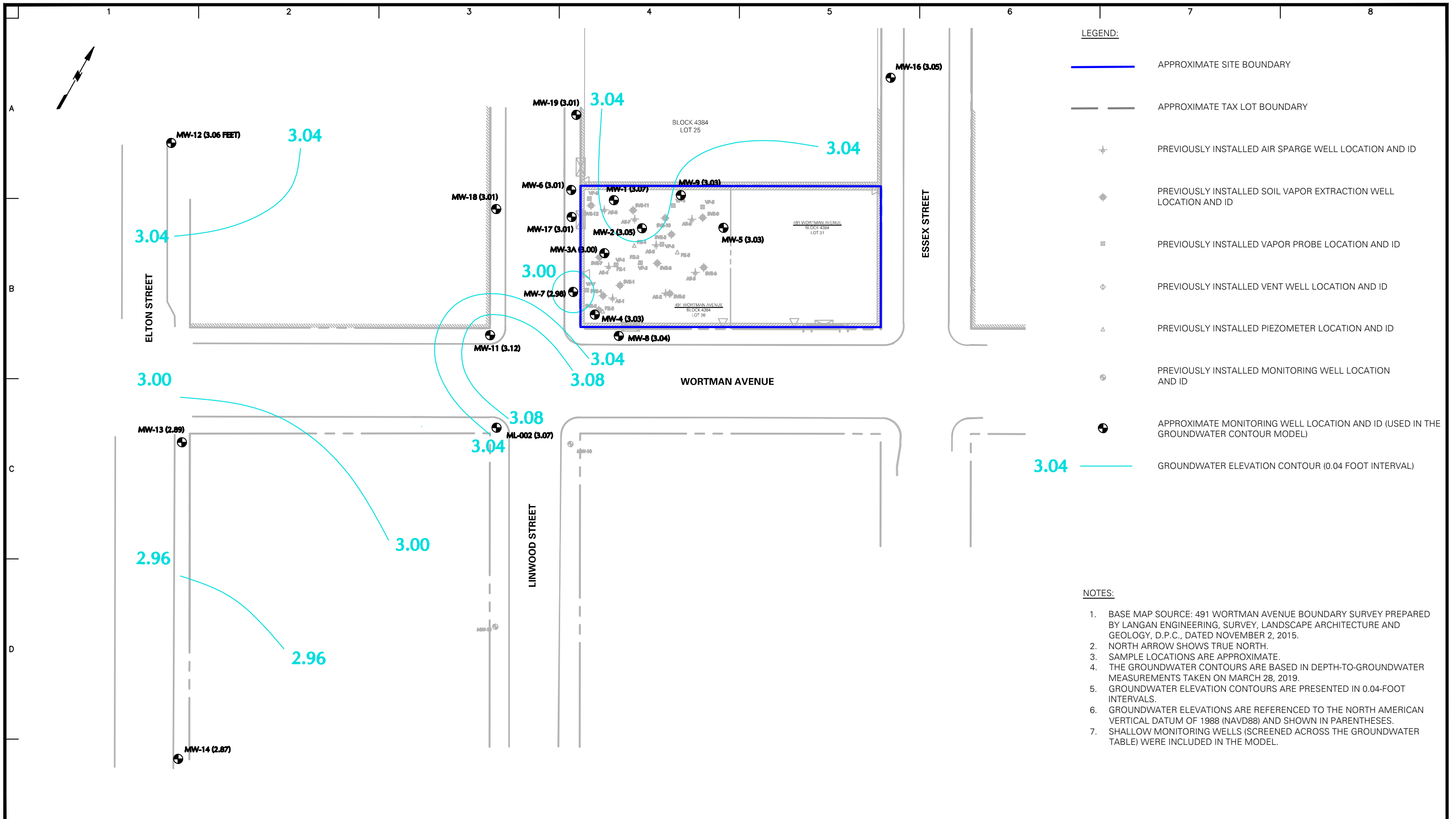
| Analyte | NYSDEC SGVs |
|-------------------------|-------------|
| VOCs (µg/L) | |
| Chloroform | 7 |
| Cis-1,2-Dichloroethene | 5 |
| Tetrachloroethene (PCE) | 5 |
| Trichloroethene (TCE) | 5 |

- NOTES:
- BASE MAP SOURCE: 491 WORTMAN AVENUE BOUNDARY SURVEY PREPARED BY LANGAN ENGINEERING, SURVEY, LANDSCAPE ARCHITECTURE AND GEOLOGY, D.P.C., DATED NOVEMBER 2, 2015.
 - NORTH ARROW SHOWS TRUE NORTH.
 - SAMPLE LOCATIONS ARE APPROXIMATE.
 - GROUNDWATER SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TITLE 6 OF THE OFFICIAL COMPILATION OF NEW YORK CODES, RULES AND REGULATIONS (NYCRR) PART 703.5 AND THE NYSDEC TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS) 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES FOR CLASS GA WATER (NYSDEC SGVs).
 - ONLY ANALYTES EXCEEDING THE TOGS SGVs ARE SHOWN ON THE FIGURE.
 - NO ANALYTES WERE DETECTED ABOVE THE NYSDEC SGVs IN MONITORING WELLS SAMPLED DURING THE MAY AND JUNE QUARTERLY GROUNDWATER SAMPLING EVENTS.
 - ANALYTES DETECTED WITH CONCENTRATIONS ABOVE NYSDEC SGVs ARE BOLDED AND SHADED.
 - µg/L = MICROGRAMS PER LITER
 - J = THE ANALYTE WAS DETECTED ABOVE THE METHOD DETECTION LIMIT (MDL), BUT BELOW THE RL; THEREFORE, THE RESULT IS AN ESTIMATED CONCENTRATION.

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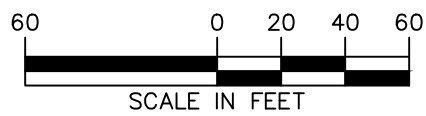
| | | | | |
|--|--|---|--|------------------------|
| Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com | Project 491 WORTMAN AVENUE BLOCK No. 4384, LOT Nos. 31 & 36 BROOKLYN KINGS NEW YORK | Figure Title MARCH AND JUNE 2019 GROUNDWATER ANALYTICAL RESULTS MAP | Project No. 170329301 Date 08/06/2019 Drawn By WK Checked By JR | Figure No. 2 |
|--|--|---|--|------------------------|



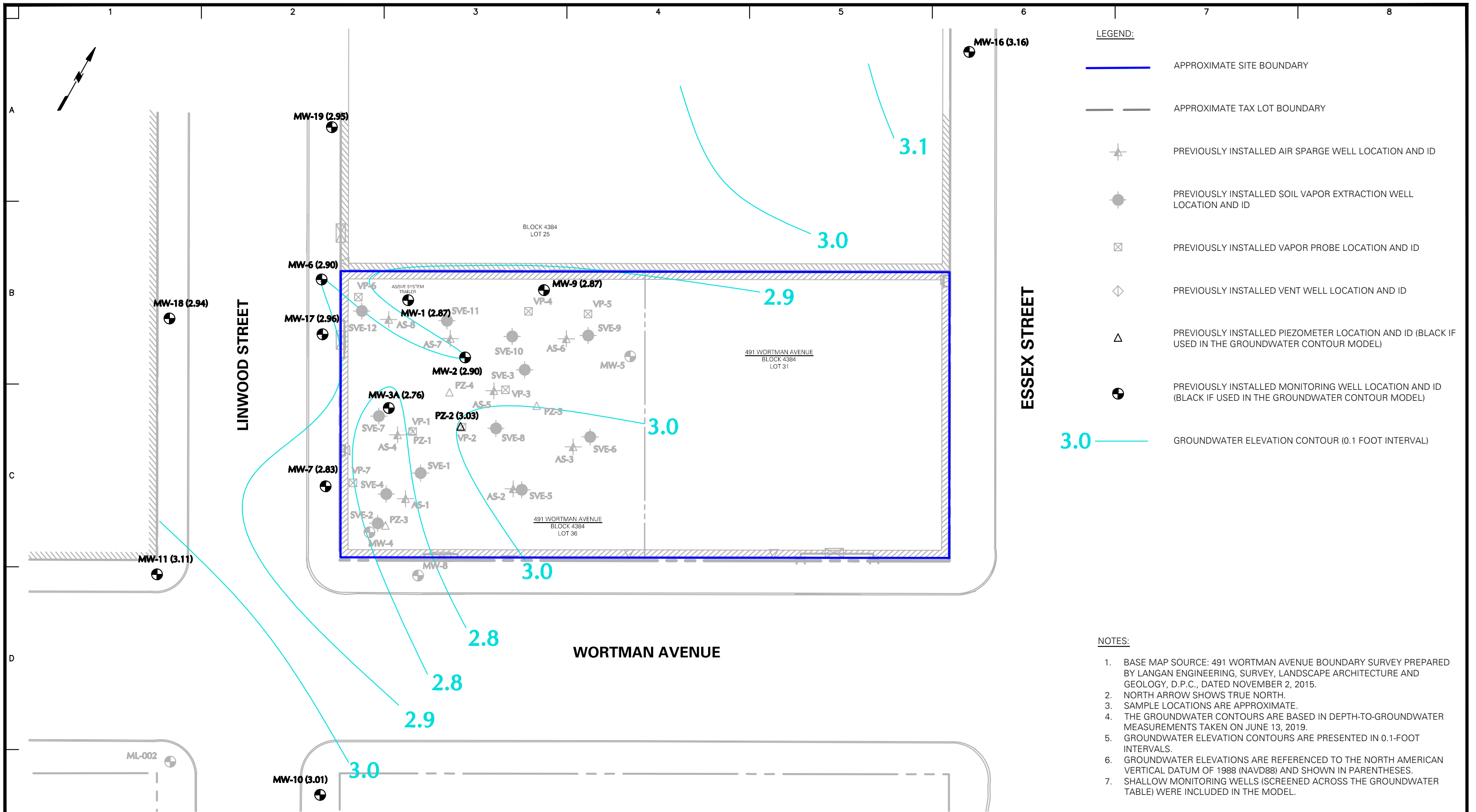
- LEGEND:**
- APPROXIMATE SITE BOUNDARY
 - APPROXIMATE TAX LOT BOUNDARY
 - + PREVIOUSLY INSTALLED AIR SPARGE WELL LOCATION AND ID
 - ◆ PREVIOUSLY INSTALLED SOIL VAPOR EXTRACTION WELL LOCATION AND ID
 - PREVIOUSLY INSTALLED VAPOR PROBE LOCATION AND ID
 - ◇ PREVIOUSLY INSTALLED VENT WELL LOCATION AND ID
 - △ PREVIOUSLY INSTALLED PIEZOMETER LOCATION AND ID
 - PREVIOUSLY INSTALLED MONITORING WELL LOCATION AND ID
 - APPROXIMATE MONITORING WELL LOCATION AND ID (USED IN THE GROUNDWATER CONTOUR MODEL)
 - GROUNDWATER ELEVATION CONTOUR (0.04 FOOT INTERVAL)

- NOTES:**
1. BASE MAP SOURCE: 491 WORTMAN AVENUE BOUNDARY SURVEY PREPARED BY LANGAN ENGINEERING, SURVEY, LANDSCAPE ARCHITECTURE AND GEOLOGY, D.P.C., DATED NOVEMBER 2, 2015.
 2. NORTH ARROW SHOWS TRUE NORTH.
 3. SAMPLE LOCATIONS ARE APPROXIMATE.
 4. THE GROUNDWATER CONTOURS ARE BASED IN DEPTH-TO-GROUNDWATER MEASUREMENTS TAKEN ON MARCH 28, 2019.
 5. GROUNDWATER ELEVATION CONTOURS ARE PRESENTED IN 0.04-FOOT INTERVALS.
 6. GROUNDWATER ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND SHOWN IN PARENTHESES.
 7. SHALLOW MONITORING WELLS (SCREENED ACROSS THE GROUNDWATER TABLE) WERE INCLUDED IN THE MODEL.

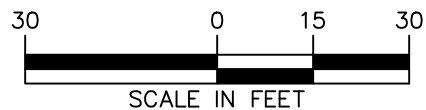
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|--|---|--|--|---|
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| | © 2019 Langan | | | |



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Project
491 WORTMAN AVENUE
 BLOCK No. 4384, LOT Nos. 31 & 36
 BROOKLYN
 KINGS NEW YORK

Figure Title
**JUNE 2019
 GROUNDWATER
 CONTOUR MAP**

Project No.
 170329301
 Date
 08/06/2019
 Drawn By
 WK
 Checked By
 JR

Figure No.
4

TABLES

Table 1
Quarterly Progress Report
March 2019 Groundwater Sample Analytical Results Summary - VOCs

491 Wortman Avenue
Brooklyn, New York
BCP Site No: C224139
Langan Project No.: 170329301

| Location | NYSDEC | MW-01 | MW-01 | MW-2 | MW-3A | MW-6 | MW-7 | MW-9 | MW-10 | MW-11 | MW-17 | MW-18S | MW-18M | MW-19 | PZ-2 |
|--|--------|-------------|----------------|--------------|--------------|-------------|-------------|-------------|--------------|-------------|--------------|---------------|---------------|--------------|-------------|
| Sample ID | SGVs | MW-1_030819 | GWDUP01_030819 | MW-02_030819 | MW-3A_030719 | MW-6_030819 | MW-7_030719 | MW-9_030719 | MW-10_030719 | MW11_030719 | MW-17_030819 | MW-18S_030819 | MW-18M_030819 | MW-19_030819 | PZ-2_030719 |
| Laboratory ID | | L1909107-03 | L1909107-08 | L1909107-07 | L1908936-06 | L1909107-01 | L1908936-03 | L1908936-04 | L1908936-01 | L1908936-02 | L1909107-06 | L1909107-05 | L1909107-04 | L1909107-02 | L1908936-05 |
| Sample Date | | 3/8/2019 | 3/8/2019 | 3/8/2019 | 3/7/2019 | 3/8/2019 | 3/7/2019 | 3/7/2019 | 3/7/2019 | 3/7/2019 | 3/8/2019 | 3/8/2019 | 3/8/2019 | 3/8/2019 | 3/7/2019 |
| Volatile Organic Compounds (µg/L) | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.2 J | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.28 J | 12 U | 0.5 U |
| 1,2-Dichloroethene, Total | ~ | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5.3 J | 2.5 U | 2.5 U | 2.5 U | 2.9 J | 6 U | 1.7 J | 2.2 J | 35 J | 2.5 U |
| 1,2-Dichloropropane | 1 | 1 U | 1 U | 1 U | 1 U | 0.32 J | 1 U | 1 U | 1 U | 0.15 J | 2 U | 1 U | 1 U | 25 U | 1 U |
| Acetone | 50 | 5 U | 1.7 J | 2.2 J | 1.7 J | 2.8 J | 5 U | 5 U | 2.4 J | 1.6 J | 10 U | 5 U | 2.2 J | 120 U | 2.6 J |
| Bromodichloromethane | 50 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 3.5 U | 1.3 U | 1 U | 0.5 U | 0.5 U | 12 U | 0.5 U |
| Chloroform | 7 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 44 | 20 | 5 U | 2.5 U | 2.5 U | 62 U | 2.5 U |
| cis-1,2-Dichloroethene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 4.4 U | 2.5 U | 2.5 U | 2.5 U | 2.9 U | 6 | 1.7 J | 2.2 J | 35 | 2.5 U |
| Tetrachloroethene | 5 | 0.54 | 0.18 J | 0.41 J | 0.72 J | 150 | 0.5 U | 0.5 U | 0.5 U | 120 | 190 | 5.6 | 56 | 2600 | 0.59 |
| trans-1,2-Dichloroethene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 0.91 J | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 U | 2.5 U | 2.5 U | 62 U | 2.5 U |
| Trichloroethene | 5 | 0.4 J | 0.18 J | 0.28 J | 0.96 J | 95 | 0.5 U | 0.5 U | 0.5 U | 96 | 120 | 11 | 59 | 2100 | 0.29 J |
| Vinyl chloride | 2 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 0.1 J | 25 U | 1 U |

- Notes:**
- Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (NYSDEC SGVs).
 - Only detected analytes are shown in the table.
 - Analytes detected with concentrations above NYSDEC SGVs are bolded and shaded.
 - Analytical results with reporting limits (RL) above NYSDEC SGVs are italicized.
 - Sample GWDUP01_030819 is a duplicate sample of MW-1_030819.
 - ~ = Regulatory limit for this analyte does not exist
 - µg/L = micrograms per liter

- Qualifiers:**
- J – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
 - U – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

Table 2
Quarterly Progress Report
June 2019 Groundwater Sample Analytical Results Summary - VOCs

491 Wortman Avenue
Brooklyn, New York
BCP Site No: C224139
Langan Project No.: 170329301

| Location | NYSDEC | MW-1 | MW-1 | MW-2 | MW-3A-S | MW-6 | MW-7 | MW-9 | MW-10 | MW-11 | MW16-S | MW-17 | MW-18M | MW-18S | MW-19 | PZ-02 |
|--|--------|-------------|----------------|-------------|---------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|---------------|---------------|--------------|-------------|
| Sample ID | SGVs | MW-1_061319 | GWDUP01_061319 | MW-2_061319 | MW-3AS_061319 | MW-6_061419 | MW-7_061319 | MW-9_061319 | MW-10_061319 | MW-11_061319 | MW-16_061319 | MW-17_061319 | MW-18M_061419 | MW-18S_061419 | MW-19_061419 | PZ-2_061319 |
| Laboratory ID | | L1925618-04 | L1925618-13 | L1925618-01 | L1925618-08 | L1925743-03 | L1925618-09 | L1925618-03 | L1925618-06 | L1925618-07 | L1925618-05 | L1925618-12 | L1925743-02 | L1925743-01 | L1925743-04 | L1925618-02 |
| Sample Date | | 6/13/2019 | 6/13/2019 | 6/13/2019 | 6/13/2019 | 6/14/2019 | 6/13/2019 | 6/13/2019 | 6/13/2019 | 6/13/2019 | 6/13/2019 | 6/13/2019 | 6/14/2019 | 6/14/2019 | 6/14/2019 | 6/13/2019 |
| Volatile Organic Compounds (µg/L) | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 2.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.45 J | 0.37 J | 0.5 U | 10 U | 0.5 U |
| Acetone | 50 | 5 UJ | 5 U | 5 U | 5 U | 25 UJ | 5 U | 5 UJ | 5 UJ | 5 UJ | 5 U | 10 UJ | 2 J | 5 UJ | 100 UJ | 5 UJ |
| Bromodichloromethane | 50 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 2.5 U | 0.5 U | 0.5 U | 0.5 U | 3.6 U | 1.5 U | 0.5 U | 1 U | 0.5 U | 10 U | 0.5 U |
| Chloroform | 7 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 12 U | 2.5 U | 2.5 U | 2.5 U | 60 | 20 | 2.5 U | 5 U | 2.5 U | 50 U | 2.5 U |
| Cis-1,2-Dichloroethene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 14 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 1.2 J | 0.91 J | 7.7 | 2.6 U | 2.4 J | 45 |
| Tetrachloroethene (PCE) | 5 | 0.5 U | 0.5 U | 0.28 J | 0.27 J | 580 | 0.5 U | 0.79 U | 0.55 U | 55 | 1.2 J | 220 | 35 | 6.9 | 3,200 | 2.4 U |
| Total 1,2-Dichloroethene (Cis and Trans) | ~ | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 14 U | 2.5 U | 2.5 U | 2.5 U | 1.2 J | 0.91 J | 9.5 J | 2.6 U | 2.4 J | 45 J | 2.5 U |
| Trans-1,2-Dichloroethene | 5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 12 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 1.8 J | 2.5 U | 2.5 U | 50 U | 2.5 U |
| Trichloroethene (TCE) | 5 | 0.19 J | 0.18 J | 0.42 J | 0.41 J | 420 | 0.24 J | 0.29 J | 0.24 J | 40 | 0.71 J | 140 | 61 | 14 | 2,400 | 0.75 J |
| Vinyl Chloride | 2 | 1 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.25 J | 1 U | 1 U | 20 U | 1 U |

Notes:

- Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (NYSDEC SGVs).
- Only detected analytes are shown in the table.
- Analytes detected with concentrations above NYSDEC SGVs are bolded and shaded.
- Analytical results with reporting limits (RL) above NYSDEC SGVs are italicized.
- Sample GWDUP01_061319 is a duplicate sample of MW-1_061319.
- ~ = Regulatory limit for this analyte does not exist
- µg/L = micrograms per liter

Qualifiers:

- J – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ – The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.
- U – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

**Table 3
Quarterly Progress Report
Groundwater Results Summary**

491 Wortman Avenue
Brooklyn, New York
BCP Site No: C224139
Langan Project No.: 170329301

| Compound | NYSDEC SGVs | Sampling Location | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------|--------|-------|--------|--------|-------|------------|------------|
| | | MW-1 | MW-2 | MW-3S | MW-3M | MW-3D | MW-4 | MW-5 | MW-6 | MW-7 | MW-8 | MW-9 | MW-10 | MW-11 | MW-16S | MW-17 | MW-18S | MW-18M | MW-19 | PZ-1 | PZ-2 |
| Baseline Sampling Results Summary (µg/L) - August 2015 | | | | | | | | | | | | | | | | | | | | | |
| CVOCs | ~ | 1274.9 | 2314 | 873.3 | 23.4 | 27.8 | 653 | 175 | 1236.3 | 1272 | 458 | 602 | NT | NT | NT | NT | NT | NT | NT | 903.6 | 438.2 |
| PCE | 5 | 750 | 480 | 380 | 14 | 8.3 | 79 | 110 | 710 | 460 | 180 | 400 | NT | NT | NT | NT | NT | NT | NT | 310 | 230 |
| TCE | 5 | 500 | 1800 | 480 | 5.9 | 16 | 540 | 55 | 500 | 780 | 240 | 190 | NT | NT | NT | NT | NT | NT | NT | 580 | 200 |
| cis-1,2- DCE | 5 | 19 | 14 | 8.3 | 2.5 | 2.5 | 29 | 9 | 22 | 27 | 36 | 10 | NT | NT | NT | NT | NT | NT | NT | 8.6 | 6.2 |
| vinyl chloride | 2 | 5.9 | 20 | 5 | 1 | 1 | 5 | 1 | 4.3 | 5 | 2 | 2 | NT | NT | NT | NT | NT | NT | NT | 5 | 2 |
| First Quarter Sampling Results Summary (µg/L) - January 2016 | | | | | | | | | | | | | | | | | | | | | |
| CVOCs | ~ | 12.8 | 2.14 | 7.6 | 23.4 | 16.13 | 14.8 | 1.87 | 676 | 11.41 | 184.56 | 5.8 | NT | NT | NT | NT | NT | NT | NT | 10 | 2.6 |
| PCE | 5 | 6 | 1 | 2 | 20 | 14 | 3 | 1 | 240 | 2 | 15 | 4 | NT | NT | NT | NT | NT | NT | NT | 3 | 1 |
| TCE | 5 | 5.3 | 0.74 | 5.2 | 3 | 1.7 | 11 | 0.37 | 400 | 9 | 130 | 1.4 | NT | NT | NT | NT | NT | NT | NT | 5.4 | 1.2 |
| cis-1,2- DCE | 5 | 1.3 | 0.2 | 0.2 | 0.2 | 0.23 | 0.6 | 0.3 | 35 | 0.21 | 39 | 0.2 | NT | NT | NT | NT | NT | NT | NT | 1.4 | 0.2 |
| vinyl chloride | 2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 1 | 0.2 | 0.56 | 0.2 | NT | NT | NT | NT | NT | NT | NT | 0.2 | 0.2 |
| Q1 Percent CVOC Reduction | | 99.0% | 99.9% | 99.1% | 0.0% | 42.0% | 97.7% | 98.9% | 45.3% | 99.1% | 59.7% | 99.0% | NA | NA | NA | NA | NA | NA | NA | 98.9% | 99.4% |
| Second Quarter Sampling Results Summary (µg/L) / Baseline Annual Sampling Results Summary - April 2016 | | | | | | | | | | | | | | | | | | | | | |
| CVOCs | ~ | 3.8 | 1.99 | 4.3 | 18.5 | 9.3 | 3.28 | 1.64 | 401 | 2.46 | 71.96 | 0.91 | 188.2 | 2.9 | NT | NT | NT | NT | NT | 1.45 | 1.79 |
| PCE | 5 | 1.7 | 0.87 | 1.2 | 16 | 7.6 | 0.48 | 0.67 | 160 | 0.26 | 5.7 | 0.31 | 120 | 1.5 | NT | NT | NT | NT | NT | 0.3 | 0.61 |
| TCE | 5 | 1.7 | 0.72 | 2.7 | 2.1 | 1.3 | 2.4 | 0.38 | 220 | 1.8 | 43 | 0.2 | 57 | 1 | NT | NT | NT | NT | NT | 0.75 | 0.78 |
| cis-1,2- DCE | 5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.39 | 19 | 0.2 | 23 | 0.2 | 11 | 0.2 | NT | NT | NT | NT | NT | 0.2 | 0.2 |
| vinyl chloride | 2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 2 | 0.2 | 0.26 | 0.2 | 0.2 | 0.2 | NT | NT | NT | NT | NT | 0.2 | 0.2 |
| Q2 Percent CVOC Reduction from Last Quarter (Q1) | | 70.3% | 7.0% | 43.4% | 20.9% | 42.3% | 77.8% | 12.3% | 40.7% | 78.4% | 61.0% | 84.3% | NA | NA | NA | NA | NA | NA | NA | 85.5% | 31.2% |
| Q2 Percent CVOC Reduction from Baseline | | 99.7% | 99.9% | 99.5% | 20.9% | 66.5% | 99.5% | 99.1% | 67.6% | 99.8% | 84.3% | 99.8% | NA | NA | NA | NA | NA | NA | NA | 99.8% | 99.6% |
| Third Quarter Sampling Results Summary (µg/L) - July 2016 | | | | | | | | | | | | | | | | | | | | | |
| CVOCs | ~ | 1.65 | 4.26 | 7.69 | 24.5 | 14.01 | 6.26 | 3.48 | 1249.5 | 4.21 | 53.5 | 1.49 | NT | NT | NT | NT | NT | NT | NT | 1.97 | 4.15 |
| PCE | 5 | 0.68 | 2.2 | 3 | 22 | 12 | 2.2 | 1.6 | 570 | 0.71 | 5.3 | 0.76 | NT | NT | NT | NT | NT | NT | NT | 0.47 | 2 |
| TCE | 5 | 0.57 | 1.6 | 4.2 | 2.1 | 1.6 | 3.5 | 0.76 | 640 | 3.1 | 27 | 0.33 | NT | NT | NT | NT | NT | NT | NT | 1.1 | 1.6 |
| cis-1,2- DCE | 5 | 0.2 | 0.26 | 0.29 | 0.2 | 0.21 | 0.36 | 0.92 | 39 | 0.2 | 21 | 0.2 | NT | NT | NT | NT | NT | NT | NT | 0.2 | 0.35 |
| vinyl chloride | 2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 0.2 | 0.2 | 0.2 | NT | NT | NT | NT | NT | NT | NT | 0.2 | 0.2 |
| Q3 Percent CVOC Reduction from Last Quarter (Q2) | | 56.6% | Increased | Increased | Increased | Increased | Increased | Increased | Increased | Increased | 25.7% | Increased | NA | NA | NA | NA | NA | NA | NA | Increased | Increased |
| Q3 Percent CVOC Reduction from Baseline | | 99.9% | 99.8% | 99.1% | Increased | 49.6% | 99.0% | 98.0% | Increased | 99.7% | 88.3% | 99.8% | NA | NA | NA | NA | NA | NA | NA | 99.8% | 99.1% |

Notes:

- Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (NYSDEC SGVs).
- Results exceeding the NYSDEC SGVs are shaded and bolded.
- PCE = tetrachloroethylene
- TCE = trichloroethylene
- cis-1,2-DCE = cis-1,2-Dichloroethylene

- µg/L = microgram per liter
- CVOC = chlorinated volatile organic compounds
- ND = Non detect
- NT = Not tested
- NA = Not applicable

**Table 3
Quarterly Progress Report
Groundwater Results Summary**

491 Wortman Avenue
Brooklyn, New York
BCP Site No: C224139
Langan Project No.: 170329301

| Compound | NYSDEC SGVs | Sampling Location | | | | | | | | | | | | | | | | | | | |
|--|-------------|-------------------|------------|------------|-----------|-----------|-----------|-----------|------------|-----------|------------|------------|------------|-----------|--------|-------|--------|--------|-----------|-----------|------|
| | | MW-1 | MW-2 | MW-3S | MW-3M | MW-3D | MW-4 | MW-5 | MW-6 | MW-7 | MW-8 | MW-9 | MW-10 | MW-11 | MW-16S | MW-17 | MW-18S | MW-18M | MW-19 | PZ-1 | PZ-2 |
| Fourth Quarter Sampling Results Summary (µg/L) - October 2016 | | | | | | | | | | | | | | | | | | | | | |
| CVOCs | ~ | 0.91 | 8.39 | 18.59 | 18.1 | 11.36 | 3.38 | 0.84 | 158.4 | 1.1 | 33.9 | 0.99 | NT | NT | NT | NT | NT | NT | 0.81 | 1.57 | |
| PCE | 5 | 0.22 | 4.6 | 8.8 | 16 | 10 | 0.98 | 0.24 | 67 | 0.2 | 2.7 | 0.39 | NT | NT | NT | NT | NT | NT | 0.2 | 0.54 | |
| TCE | 5 | 0.29 | 3.2 | 9 | 1.7 | 0.96 | 2 | 0.2 | 87 | 0.5 | 19 | 0.2 | NT | NT | NT | NT | NT | NT | 0.21 | 0.63 | |
| cis-1,2- DCE | 5 | 0.2 | 0.39 | 0.59 | 0.2 | 0.2 | 0.2 | 0.2 | 4.2 | 0.2 | 12 | 0.2 | NT | NT | NT | NT | NT | NT | 0.2 | 0.2 | |
| vinyl chloride | 2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | NT | NT | NT | NT | NT | NT | 0.2 | 0.2 | |
| Q4 Percent CVOC Reduction from Last Quarter (Q3) | | 44.8% | Increased | Increased | 26.1% | 18.9% | 46.0% | 75.9% | 87.3% | 73.9% | 36.6% | 33.6% | NA | NA | NA | NA | NA | NA | 58.9% | 62.2% | |
| Q4 Percent CVOC Reduction from Baseline | | 99.9% | 99.6% | 97.9% | 22.6% | 59.1% | 99.5% | 99.5% | 87.2% | 99.9% | 92.6% | 99.8% | NA | NA | NA | NA | NA | NA | 99.9% | 99.6% | |
| Fifth Quarter Sampling Results Summary (µg/L) - January 2017 | | | | | | | | | | | | | | | | | | | | | |
| CVOCs | ~ | 0.8 | 1.32 | 20.71 | 21.1 | 14.21 | 1.89 | 1.02 | 812.7 | 0.9 | 42.4 | 7.9 | NT | NT | NT | NT | NT | NT | 0.8 | 1.49 | |
| PCE | 5 | 0.2 | 0.56 | 10 | 19 | 13 | 0.52 | 0.42 | 380 | 0.2 | 3.2 | 5.5 | NT | NT | NT | NT | NT | NT | 0.2 | 0.66 | |
| TCE | 5 | 0.2 | 0.36 | 10 | 1.7 | 0.81 | 0.97 | 0.2 | 410 | 0.3 | 20 | 2 | NT | NT | NT | NT | NT | NT | 0.2 | 0.43 | |
| cis-1,2- DCE | 5 | 0.2 | 0.2 | 0.51 | 0.2 | 0.2 | 0.2 | 0.2 | 22 | 0.2 | 19 | 0.2 | NT | NT | NT | NT | NT | NT | 0.2 | 0.2 | |
| vinyl chloride | 2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.7 | 0.2 | 0.2 | 0.2 | NT | NT | NT | NT | NT | NT | 0.2 | 0.2 | |
| Q5 Percent CVOC Reduction from Last Quarter (Q4) | | 12.1% | 84.3% | Increased | Increased | Increased | 44.1% | Increased | Increased | 18.2% | Increased | Increased | NA | NA | NA | NA | NA | NA | 1.2% | 5.1% | |
| Q5 Percent CVOC Reduction from Baseline | | 99.9% | 99.9% | 97.6% | 9.8% | 48.9% | 99.7% | 99.4% | 34.3% | 99.9% | 90.7% | 98.7% | NA | NA | NA | NA | NA | NA | 99.9% | 99.7% | |
| Sixth Quarter Sampling Results Summary (µg/L) / Second Annual Sampling Results Summary - April 2017 | | | | | | | | | | | | | | | | | | | | | |
| CVOCs | ~ | 4.5 | 11.6 | 6.4 | 24.4 | 16.35 | 6.8 | 4.5 | 57.3 | 4.4 | 17.5 | 4.15 | 12.23 | 4.58 | NT | NT | NT | NT | 4.5 | 4.09 | |
| PCE | 5 | 0.5 | 5.5 | 1.2 | 19 | 12 | 1.5 | 0.5 | 26 | 0.5 | 2.1 | 0.4 | 5.6 | 0.56 | NT | NT | NT | NT | 0.5 | 0.26 | |
| TCE | 5 | 0.5 | 2.6 | 1.7 | 1.9 | 0.85 | 1.8 | 0.5 | 28 | 0.4 | 5.5 | 0.25 | 4.7 | 0.52 | NT | NT | NT | NT | 0.5 | 0.33 | |
| cis-1,2- DCE | 5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.3 | 2.5 | 8.9 | 2.5 | 0.93 | 2.5 | NT | NT | NT | NT | 2.5 | 2.5 | |
| vinyl chloride | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | NT | NT | NT | NT | 1 | 1 | |
| Q6 Percent CVOC Reduction from Last Quarter (Q5) | | Increased | Increased | 69.1% | Increased | Increased | Increased | Increased | 92.9% | Increased | 58.7% | 47.5% | NA | NA | NA | NA | NA | NA | Increased | Increased | |
| Q6 Percent CVOC Reduction from Baseline | | 99.6% | 99.5% | 99.3% | Increased | 41.2% | 99.0% | 97.4% | 95.4% | 99.7% | 96.2% | 99.3% | 93.5% | Increased | NA | NA | NA | NA | 99.5% | 99.1% | |
| Seventh Quarter Sampling Results Summary (µg/L) - July 2017 | | | | | | | | | | | | | | | | | | | | | |
| CVOCs | ~ | 4.5 | 4.61 | 3.98 | 16 | 18.24 | 4.21 | 4.5 | 758 | 4.32 | 17.2 | 4.23 | NT | NT | NT | NT | NT | NT | 15.1 | 4.36 | |
| PCE | 5 | 0.5 | 0.67 | 0.22 | 11 | 14 | 0.33 | 0.5 | 490 | 0.5 | 1.2 | 0.23 | NT | NT | NT | NT | NT | NT | 10 | 0.54 | |
| TCE | 5 | 0.5 | 0.44 | 0.26 | 1.5 | 0.74 | 0.38 | 0.5 | 240 | 0.32 | 5.8 | 0.5 | NT | NT | NT | NT | NT | NT | 1.6 | 0.32 | |
| cis-1,2- DCE | 5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 26 | 2.5 | 9.2 | 2.5 | NT | NT | NT | NT | NT | NT | 2.5 | 2.5 | |
| vinyl chloride | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | NT | NT | NT | NT | NT | NT | 1 | 1 | |
| Q7 Percent CVOC Reduction from Last Quarter (Q6) | | None | 60.3% | 37.8% | 34.4% | Increased | 38.1% | None | Increased | 1.8% | 1.7% | Increased | NA | NA | NA | NA | NA | NA | Increased | Increased | |
| Q7 Percent CVOC Reduction from Baseline | | 99.6% | 99.8% | 99.5% | 31.6% | 34.4% | 99.4% | 97.4% | 38.7% | 99.7% | 96.2% | 99.3% | NA | NA | NA | NA | NA | NA | 98.3% | 99.0% | |

Notes:

- Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (NYSDEC SGVs).
- Results exceeding the NYSDEC SGVs are shaded and bolded.
- PCE = tetrachloroethylene
- TCE = trichloroethylene
- cis-1,2-DCE = cis-1,2-Dichloroethylene

- µg/L = microgram per liter
- CVOC = chlorinated volatile organic compounds
- ND = Non detect
- NT = Not tested
- NA = Not applicable

Table 3
Quarterly Progress Report
Groundwater Results Summary

491 Wortman Avenue
 Brooklyn, New York
 BCP Site No: C224139
 Langan Project No.: 170329301

| Compound | NYSDEC SGVs | Sampling Location | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------|------------------|-----------|-----------|-----------|-----------|-----------|------------------|------------------|
| | | MW-1 | MW-2 | MW-3S | MW-3M | MW-3D | MW-4 | MW-5 | MW-6 | MW-7 | MW-8 | MW-9 | MW-10 | MW-11 | MW-16S | MW-17 | MW-18S | MW-18M | MW-19 | PZ-1 | PZ-2 |
| Eighth Quarter Sampling Results Summary (µg/L) / Third Annual Sampling Results Summary- October 2017 | | | | | | | | | | | | | | | | | | | | | |
| CVOCs | ~ | 4.5 | 4.39 | 4.5 | 20.3 | 19.31 | 4.27 | 4.08 | 276 | 4.5 | 10.08 | 6.18 | 14.93 | 10.7 | NT | NT | NT | NT | NT | 4.5 | 4.5 |
| PCE | 5 | 0.5 | 0.42 | 0.5 | 15 | 15 | 0.5 | 0.36 | 160 | 0.5 | 0.78 | 1.8 | 8.8 | 5.6 | NT | NT | NT | NT | NT | 0.5 | 0.5 |
| TCE | 5 | 0.5 | 0.47 | 0.5 | 1.8 | 0.81 | 0.27 | 0.22 | 93 | 0.5 | 3.3 | 0.88 | 4.2 | 1.6 | NT | NT | NT | NT | NT | 0.5 | 0.5 |
| cis-1,2- DCE | 5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 21 | 2.5 | 5 | 2.5 | 0.93 | 2.5 | NT | NT | NT | NT | NT | 2.5 | 2.5 |
| vinyl chloride | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | NT | NT | NT | NT | NT | 1 | 1 |
| Q8 Percent CVOC Reduction from Last Quarter (Q7) | | <i>None</i> | <i>4.8%</i> | <i>Increased</i> | <i>Increased</i> | <i>Increased</i> | <i>Increased</i> | <i>9.3%</i> | <i>63.6%</i> | <i>Increased</i> | <i>41.4%</i> | <i>Increased</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>70.2%</i> | <i>Increased</i> |
| Q8 Percent CVOC Reduction from Baseline | | <i>99.6%</i> | <i>99.8%</i> | <i>99.5%</i> | <i>13.2%</i> | <i>30.5%</i> | <i>99.3%</i> | <i>97.7%</i> | <i>77.7%</i> | <i>99.6%</i> | <i>97.8%</i> | <i>99.0%</i> | <i>92.1%</i> | <i>Increased</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>99.5%</i> | <i>99.0%</i> |
| Ninth Quarter Sampling Results Summary (µg/L) - January 2018 | | | | | | | | | | | | | | | | | | | | | |
| CVOCs | ~ | 4.08 | 4.49 | 4.5 | 20.1 | 18.7 | 4.32 | 4.24 | 623.71 | 4.5 | 10.99 | 6.9 | NT | NT | NT | NT | NT | NT | NT | 5.86 | 4.5 |
| PCE | 5 | 0.26 | 0.63 | 0.5 | 15 | 14 | 0.2 | 0.48 | 430 | 0.5 | 0.99 | 2 | NT | NT | NT | NT | NT | NT | NT | 1.7 | 0.5 |
| TCE | 5 | 0.32 | 0.36 | 0.5 | 1.6 | 1.2 | 0.62 | 0.26 | 180 | 0.5 | 3.5 | 1.4 | NT | NT | NT | NT | NT | NT | NT | 0.66 | 0.5 |
| cis-1,2- DCE | 5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 13 | 2.5 | 5.5 | 2.5 | NT | NT | NT | NT | NT | NT | NT | 2.5 | 2.5 |
| vinyl chloride | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.71 | 1 | 1 | 1 | NT | NT | NT | NT | NT | NT | NT | 1 | 1 |
| Q9 Percent CVOC Reduction from Last Quarter (Q8) | | <i>9.3%</i> | <i>Increased</i> | <i>0.0%</i> | <i>1.0%</i> | <i>3.2%</i> | <i>Increased</i> | <i>Increased</i> | <i>Increased</i> | <i>0.0%</i> | <i>Increased</i> | <i>Increased</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>Increased</i> | <i>0.0%</i> |
| Q9 Percent CVOC Reduction from Baseline | | <i>99.7%</i> | <i>99.8%</i> | <i>99.5%</i> | <i>14.1%</i> | <i>32.7%</i> | <i>99.3%</i> | <i>97.6%</i> | <i>49.6%</i> | <i>99.6%</i> | <i>97.6%</i> | <i>98.9%</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>99.4%</i> | <i>99.0%</i> |
| Tenth Quarter Sampling Results Summary (µg/L) / Fourth Annual Sampling Results Summary - April 2018 | | | | | | | | | | | | | | | | | | | | | |
| CVOCs | ~ | 6.1 | 15 | 10 | 20.6 | 19.5 | 5.62 | 19.3 | 357.5 | 5.72 | 12 | 8.6 | 93 | 10 | NT | NT | NT | NT | NT | 11.6 | 26.1 |
| PCE | 5 | 1.4 | 9.1 | 4 | 15 | 15 | 1.2 | 14 | 240 | 1.4 | 3.9 | 3.8 | 44 | 4.7 | NT | NT | NT | NT | NT | 5.7 | 14 |
| TCE | 5 | 1.2 | 2.4 | 2.5 | 2.1 | 1 | 0.92 | 3 | 100 | 0.82 | 3.6 | 1.3 | 22 | 1.8 | NT | NT | NT | NT | NT | 2.6 | 4.4 |
| cis-1,2- DCE | 5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 1.3 | 15 | 2.5 | 3.5 | 2.5 | 26 | 2.5 | NT | NT | NT | NT | NT | 2.3 | 6.7 |
| vinyl chloride | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2.5 | 1 | 1 | 1 | 1 | 1 | NT | NT | NT | NT | NT | 1 | 1 |
| Q10 Percent CVOC Reduction from Last Quarter (Q9) | | <i>Increased</i> | <i>Increased</i> | <i>Increased</i> | <i>Increased</i> | <i>Increased</i> | <i>Increased</i> | <i>Increased</i> | <i>42.7%</i> | <i>Increased</i> | <i>Increased</i> | <i>Increased</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>Increased</i> | <i>Increased</i> |
| Q10 Percent CVOC Reduction from Baseline | | <i>99.5%</i> | <i>99.4%</i> | <i>98.9%</i> | <i>12.0%</i> | <i>29.9%</i> | <i>99.1%</i> | <i>89.0%</i> | <i>71.1%</i> | <i>99.6%</i> | <i>97.4%</i> | <i>98.6%</i> | <i>50.6%</i> | <i>Increased</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>98.7%</i> | <i>94.0%</i> |
| Eleventh Quarter Sampling Results Summary (µg/L) - June 2018 | | | | | | | | | | | | | | | | | | | | | |
| CVOCs | ~ | 8.5 | 27.88 | 9.1 | 15.2 | 18.74 | 2.3 | 20.1 | 309 | 6.6 | 13 | 14.4 | NT | NT | NT | NT | NT | NT | NT | 27.5 | 48.8 |
| PCE | 5 | 4.5 | 21 | 5.6 | 13 | 18 | 1.2 | 15 | 200 | 4.3 | 5.3 | 9.5 | NT | NT | NT | NT | NT | NT | NT | 19 | 32 |
| TCE | 5 | 4 | 6.1 | 3.5 | 2.2 | 0.74 | 1.1 | 3.7 | 95 | 2.3 | 4.8 | 3.3 | NT | NT | NT | NT | NT | NT | NT | 6.5 | 9.5 |
| cis-1,2- DCE | 5 | ND | 0.78 | ND | ND | ND | ND | 1.4 | 14 | ND | 2.9 | 1.6 | NT | NT | NT | NT | NT | NT | NT | 2 | 7.3 |
| vinyl chloride | 2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | ND | ND |
| Q11 Percent CVOC Reduction from Last Quarter (Q10) | | <i>Increased</i> | <i>Increased</i> | <i>9.0%</i> | <i>26.2%</i> | <i>3.9%</i> | <i>59.1%</i> | <i>Increased</i> | <i>13.6%</i> | <i>Increased</i> | <i>Increased</i> | <i>Increased</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>Increased</i> | <i>Increased</i> |
| Q11 Percent CVOC Reduction from Baseline | | <i>99.3%</i> | <i>98.8%</i> | <i>99.0%</i> | <i>35.0%</i> | <i>32.6%</i> | <i>99.6%</i> | <i>88.5%</i> | <i>75.0%</i> | <i>99.5%</i> | <i>97.2%</i> | <i>97.6%</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>NA</i> | <i>97.0%</i> | <i>88.9%</i> |

- Notes:**
- Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (NYSDEC SGVs).
 - Results exceeding the NYSDEC SGVs are shaded and bolded.
 - PCE = tetrachloroethylene
 - TCE = trichloroethylene
 - cis-1,2-DCE = cis-1,2-Dichloroethylene

- µg/L = microgram per liter
- CVOC = chlorinated volatile organic compounds
- ND = Non detect
- NT = Not tested
- NA = Not applicable

**Table 3
Quarterly Progress Report
Groundwater Results Summary**

**491 Wortman Avenue
Brooklyn, New York
BCP Site No: C224139
Langan Project No.: 170329301**

| Compound | NYSDEC SGVs | Sampling Location | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------------------|------------------|--------------|-------|-------|------|------|------------------|------------------|------|------------------|------------------|------------------|--------------|------------------|------------------|--------------|------------------|------|------------------|
| | | MW-1 | MW-2 | MW-3S | MW-3M | MW-3D | MW-4 | MW-5 | MW-6 | MW-7 | MW-8 | MW-9 | MW-10 | MW-11 | MW-16S | MW-17 | MW-18S | MW-18M | MW-19 | PZ-1 | PZ-2 |
| Twelfth Quarter Sampling Results Summary (µg/L) - March 2019 | | | | | | | | | | | | | | | | | | | | | |
| CVOCs | ~ | 0.94 | 0.69 | 1.68 | NT | NT | NT | NT | 249.4 | 0 | NT | 0 | 0 | 218.9 | NT | 316 | 18.3 | 117.3 | 4735 | NT | 0.88 |
| PCE | 5 | 0.54 | 0.41 | 0.72 | NT | NT | NT | NT | 150 | ND | NT | ND | ND | 120 | NT | 190 | 5.6 | 56 | 2600 | NT | 0.59 |
| TCE | 5 | 0.4 | 0.28 | 0.96 | NT | NT | NT | NT | 95 | ND | NT | ND | ND | 96 | NT | 120 | 11 | 59 | 2100 | NT | 0.29 |
| cis-1,2- DCE | 5 | ND | ND | ND | NT | NT | NT | NT | 4.4 | ND | NT | ND | ND | 2.9 | NT | 6 | 1.7 | 2.2 | 35 | NT | ND |
| vinyl chloride | 2 | ND | ND | ND | NT | NT | NT | NT | ND | ND | NT | ND | ND | ND | NT | ND | ND | 0.1 | ND | NT | ND |
| Q12 Percent CVOC Reduction from Last Quarter (Q11) | | <i>88.9%</i> | <i>97.5%</i> | <i>81.5%</i> | NA | NA | NA | NA | <i>19.3%</i> | <i>100.0%</i> | NA | <i>100.0%</i> | NA | NA | NA | NA | NA | NA | NA | NA | <i>98.2%</i> |
| Q12 Percent CVOC Reduction from Baseline | | <i>99.9%</i> | <i>100.0%</i> | <i>99.8%</i> | NA | NA | NA | NA | <i>79.8%</i> | <i>100.0%</i> | NA | <i>100.0%</i> | <i>100.0%</i> | <i>Increased</i> | NA | NA | NA | NA | NA | NA | <i>99.8%</i> |
| Thirteenth Quarter Sampling Results Summary (µg/L) - June 2019 | | | | | | | | | | | | | | | | | | | | | |
| CVOCs | ~ | 0.19 | 0.7 | 0.68 | NT | NT | NT | NT | 1014 | 0.24 | NT | 1.08 | 0.79 | 96.2 | 2.82 | 367.95 | 23.3 | 99.6 | 5645 | NT | 3.15 |
| PCE | 5 | ND | 0.28 | 0.27 | NT | NT | NT | NT | 580 | ND | NT | 0.79 | 0.55 | 55 | 1.2 | 220 | 6.9 | 35 | 3200 | NT | 2.4 |
| TCE | 5 | 0.19 | 0.42 | 0.41 | NT | NT | NT | NT | 420 | 0.24 | NT | 0.29 | 0.24 | 40 | 0.71 | 140 | 14 | 61 | 2400 | NT | 0.75 |
| cis-1,2- DCE | 5 | ND | ND | ND | NT | NT | NT | NT | 14 | ND | NT | ND | ND | 1.2 | 0.91 | 7.7 | 2.4 | 2.6 | 45 | NT | ND |
| vinyl chloride | 2 | ND | ND | ND | NT | NT | NT | NT | ND | ND | NT | ND | ND | ND | ND | 0.25 | ND | 1 | ND | NT | ND |
| Q13 Percent CVOC Reduction from Last Quarter (Q12) | | <i>79.8%</i> | <i>Increased</i> | <i>59.5%</i> | NA | NA | NA | NA | <i>Increased</i> | <i>Increased</i> | NA | <i>Increased</i> | <i>Increased</i> | <i>56.1%</i> | NA | <i>Increased</i> | <i>Increased</i> | <i>15.1%</i> | <i>Increased</i> | NA | <i>Increased</i> |
| Q13 Percent CVOC Reduction from Baseline | | <i>100.0%</i> | <i>99.9%</i> | <i>99.9%</i> | NA | NA | NA | NA | <i>20.5%</i> | <i>100.0%</i> | NA | <i>99.9%</i> | <i>99.9%</i> | <i>92.5%</i> | <i>99.8%</i> | <i>71.1%</i> | <i>98.2%</i> | <i>92.2%</i> | <i>Increased</i> | NA | <i>99.8%</i> |

Notes:

- Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (NYSDEC SGVs).
- Results exceeding the NYSDEC SGVs are shaded and bolded.
- PCE = tetrachloroethylene
- TCE = trichloroethylene
- cis-1,2-DCE = cis-1,2-Dichloroethylene

- µg/L = microgram per liter
- CVOC = chlorinated volatile organic compounds
- ND = Non detect
- NT = Not tested
- NA = Not applicable

ATTACHMENT 1
LABORATORY ANALYTICAL DATA REPORTS



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L1909107 |
| Client: | Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727 |
| ATTN: | James Robinson |
| Phone: | (212) 479-5400 |
| Project Name: | 491 WORTMAN |
| Project Number: | 170329301 |
| Report Date: | 03/14/19 |

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

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



Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L1909107-01 | MW-6_030819 | WATER | BROOKLYN | 03/08/19 11:10 | 03/08/19 |
| L1909107-02 | MW-19_030819 | WATER | BROOKLYN | 03/08/19 10:16 | 03/08/19 |
| L1909107-03 | MW-1_030819 | WATER | BROOKLYN | 03/08/19 09:15 | 03/08/19 |
| L1909107-04 | MW-18M_030819 | WATER | BROOKLYN | 03/08/19 10:25 | 03/08/19 |
| L1909107-05 | MW-18S_030819 | WATER | BROOKLYN | 03/08/19 11:00 | 03/08/19 |
| L1909107-06 | MW-17_030819 | WATER | BROOKLYN | 03/08/19 11:45 | 03/08/19 |
| L1909107-07 | MW-02_030819 | WATER | BROOKLYN | 03/08/19 09:40 | 03/08/19 |
| L1909107-08 | GWDUP01_030819 | WATER | BROOKLYN | 03/08/19 00:00 | 03/08/19 |
| L1909107-09 | GWTB02_030819 | WATER | BROOKLYN | 03/08/19 00:00 | 03/08/19 |
| L1909107-10 | MW-9-030719 | WATER | BROOKLYN | 03/08/19 10:25 | 03/08/19 |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

Case Narrative

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

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

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

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

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

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

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

Case Narrative (continued)

Report Submission

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

Sample Receipt

L1909107-10: A sample identified as "MW-9-030719" was received but not listed on the Chain of Custody. At the client's request, this sample was not analyzed.

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

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 03/14/19

ORGANICS

VOLATILES

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-01
 Client ID: MW-6_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 11:10
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/13/19 23:49
 Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | 0.32 | J | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 150 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | 0.20 | J | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | 0.91 | J | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-01
Client ID: MW-6_030819
Sample Location: BROOKLYN

Date Collected: 03/08/19 11:10
Date Received: 03/08/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 95 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | 4.4 | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | 5.3 | J | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.8 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-01
Client ID: MW-6_030819
Sample Location: BROOKLYN

Date Collected: 03/08/19 11:10
Date Received: 03/08/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 116 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 110 | | 70-130 |
| Dibromofluoromethane | 112 | | 70-130 |

Project Name: 491 WORTMAN**Lab Number:** L1909107**Project Number:** 170329301**Report Date:** 03/14/19**SAMPLE RESULTS**

Lab ID: L1909107-02 D

Date Collected: 03/08/19 10:16

Client ID: MW-19_030819

Date Received: 03/08/19

Sample Location: BROOKLYN

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 03/14/19 00:10

Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 62 | 18. | 25 |
| 1,1-Dichloroethane | ND | | ug/l | 62 | 18. | 25 |
| Chloroform | ND | | ug/l | 62 | 18. | 25 |
| Carbon tetrachloride | ND | | ug/l | 12 | 3.4 | 25 |
| 1,2-Dichloropropane | ND | | ug/l | 25 | 3.4 | 25 |
| Dibromochloromethane | ND | | ug/l | 12 | 3.7 | 25 |
| 1,1,2-Trichloroethane | ND | | ug/l | 38 | 12. | 25 |
| Tetrachloroethene | 2600 | | ug/l | 12 | 4.5 | 25 |
| Chlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| Trichlorofluoromethane | ND | | ug/l | 62 | 18. | 25 |
| 1,2-Dichloroethane | ND | | ug/l | 12 | 3.3 | 25 |
| 1,1,1-Trichloroethane | ND | | ug/l | 62 | 18. | 25 |
| Bromodichloromethane | ND | | ug/l | 12 | 4.8 | 25 |
| trans-1,3-Dichloropropene | ND | | ug/l | 12 | 4.1 | 25 |
| cis-1,3-Dichloropropene | ND | | ug/l | 12 | 3.6 | 25 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 12 | 3.6 | 25 |
| 1,1-Dichloropropene | ND | | ug/l | 62 | 18. | 25 |
| Bromoform | ND | | ug/l | 50 | 16. | 25 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 12 | 4.2 | 25 |
| Benzene | ND | | ug/l | 12 | 4.0 | 25 |
| Toluene | ND | | ug/l | 62 | 18. | 25 |
| Ethylbenzene | ND | | ug/l | 62 | 18. | 25 |
| Chloromethane | ND | | ug/l | 62 | 18. | 25 |
| Bromomethane | ND | | ug/l | 62 | 18. | 25 |
| Vinyl chloride | ND | | ug/l | 25 | 1.8 | 25 |
| Chloroethane | ND | | ug/l | 62 | 18. | 25 |
| 1,1-Dichloroethene | ND | | ug/l | 12 | 4.2 | 25 |
| trans-1,2-Dichloroethene | ND | | ug/l | 62 | 18. | 25 |

Project Name: 491 WORTMAN

Lab Number: L1909107

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-02 D

Date Collected: 03/08/19 10:16

Client ID: MW-19_030819

Date Received: 03/08/19

Sample Location: BROOKLYN

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 2100 | | ug/l | 12 | 4.4 | 25 |
| 1,2-Dichlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| 1,3-Dichlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| 1,4-Dichlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| Methyl tert butyl ether | ND | | ug/l | 62 | 18. | 25 |
| p/m-Xylene | ND | | ug/l | 62 | 18. | 25 |
| o-Xylene | ND | | ug/l | 62 | 18. | 25 |
| Xylenes, Total | ND | | ug/l | 62 | 18. | 25 |
| cis-1,2-Dichloroethene | 35 | J | ug/l | 62 | 18. | 25 |
| 1,2-Dichloroethene, Total | 35 | J | ug/l | 62 | 18. | 25 |
| Dibromomethane | ND | | ug/l | 120 | 25. | 25 |
| 1,2,3-Trichloropropane | ND | | ug/l | 62 | 18. | 25 |
| Acrylonitrile | ND | | ug/l | 120 | 38. | 25 |
| Styrene | ND | | ug/l | 62 | 18. | 25 |
| Dichlorodifluoromethane | ND | | ug/l | 120 | 25. | 25 |
| Acetone | ND | | ug/l | 120 | 36. | 25 |
| Carbon disulfide | ND | | ug/l | 120 | 25. | 25 |
| 2-Butanone | ND | | ug/l | 120 | 48. | 25 |
| Vinyl acetate | ND | | ug/l | 120 | 25. | 25 |
| 4-Methyl-2-pentanone | ND | | ug/l | 120 | 25. | 25 |
| 2-Hexanone | ND | | ug/l | 120 | 25. | 25 |
| Bromochloromethane | ND | | ug/l | 62 | 18. | 25 |
| 2,2-Dichloropropane | ND | | ug/l | 62 | 18. | 25 |
| 1,2-Dibromoethane | ND | | ug/l | 50 | 16. | 25 |
| 1,3-Dichloropropane | ND | | ug/l | 62 | 18. | 25 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 62 | 18. | 25 |
| Bromobenzene | ND | | ug/l | 62 | 18. | 25 |
| n-Butylbenzene | ND | | ug/l | 62 | 18. | 25 |
| sec-Butylbenzene | ND | | ug/l | 62 | 18. | 25 |
| tert-Butylbenzene | ND | | ug/l | 62 | 18. | 25 |
| o-Chlorotoluene | ND | | ug/l | 62 | 18. | 25 |
| p-Chlorotoluene | ND | | ug/l | 62 | 18. | 25 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 62 | 18. | 25 |
| Hexachlorobutadiene | ND | | ug/l | 62 | 18. | 25 |
| Isopropylbenzene | ND | | ug/l | 62 | 18. | 25 |
| p-Isopropyltoluene | ND | | ug/l | 62 | 18. | 25 |
| Naphthalene | ND | | ug/l | 62 | 18. | 25 |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-02 D
 Client ID: MW-19_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 10:16
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 62 | 18. | 25 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 62 | 18. | 25 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 62 | 18. | 25 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 62 | 18. | 25 |
| 1,4-Dioxane | ND | | ug/l | 6200 | 1500 | 25 |
| p-Diethylbenzene | ND | | ug/l | 50 | 18. | 25 |
| p-Ethyltoluene | ND | | ug/l | 50 | 18. | 25 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 50 | 14. | 25 |
| Ethyl ether | ND | | ug/l | 62 | 18. | 25 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 62 | 18. | 25 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 123 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 117 | | 70-130 |
| Dibromofluoromethane | 115 | | 70-130 |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-03
 Client ID: MW-1_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 09:15
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/14/19 00:32
 Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 0.54 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN

Lab Number: L1909107

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-03
 Client ID: MW-1_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 09:15
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.40 | J | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-03
 Client ID: MW-1_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 09:15
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 118 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 106 | | 70-130 |
| Dibromofluoromethane | 111 | | 70-130 |

Project Name: 491 WORTMAN

Lab Number: L1909107

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-04
 Client ID: MW-18M_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 10:25
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/14/19 00:54
 Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 56 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | 0.10 | J | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | 0.28 | J | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN

Lab Number: L1909107

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-04
 Client ID: MW-18M_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 10:25
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 59 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | 2.2 | J | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | 2.2 | J | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.2 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-04
 Client ID: MW-18M_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 10:25
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 120 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 109 | | 70-130 |
| Dibromofluoromethane | 118 | | 70-130 |

Project Name: 491 WORTMAN

Lab Number: L1909107

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-05
 Client ID: MW-18S_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 11:00
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/14/19 01:16
 Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 5.6 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN

Lab Number: L1909107

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-05
 Client ID: MW-18S_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 11:00
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 11 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | 1.7 | J | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | 1.7 | J | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 5.0 | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-05
Client ID: MW-18S_030819
Sample Location: BROOKLYN

Date Collected: 03/08/19 11:00
Date Received: 03/08/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 123 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 111 | | 70-130 |
| Dibromofluoromethane | 113 | | 70-130 |

Project Name: 491 WORTMAN**Lab Number:** L1909107**Project Number:** 170329301**Report Date:** 03/14/19**SAMPLE RESULTS**

Lab ID: L1909107-06 D

Date Collected: 03/08/19 11:45

Client ID: MW-17_030819

Date Received: 03/08/19

Sample Location: BROOKLYN

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 03/14/19 01:38

Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,1-Dichloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Chloroform | ND | | ug/l | 5.0 | 1.4 | 2 |
| Carbon tetrachloride | ND | | ug/l | 1.0 | 0.27 | 2 |
| 1,2-Dichloropropane | ND | | ug/l | 2.0 | 0.27 | 2 |
| Dibromochloromethane | ND | | ug/l | 1.0 | 0.30 | 2 |
| 1,1,2-Trichloroethane | ND | | ug/l | 3.0 | 1.0 | 2 |
| Tetrachloroethene | 190 | | ug/l | 1.0 | 0.36 | 2 |
| Chlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Trichlorofluoromethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dichloroethane | ND | | ug/l | 1.0 | 0.26 | 2 |
| 1,1,1-Trichloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromodichloromethane | ND | | ug/l | 1.0 | 0.38 | 2 |
| trans-1,3-Dichloropropene | ND | | ug/l | 1.0 | 0.33 | 2 |
| cis-1,3-Dichloropropene | ND | | ug/l | 1.0 | 0.29 | 2 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 1.0 | 0.29 | 2 |
| 1,1-Dichloropropene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromoform | ND | | ug/l | 4.0 | 1.3 | 2 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 1.0 | 0.33 | 2 |
| Benzene | ND | | ug/l | 1.0 | 0.32 | 2 |
| Toluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Ethylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Chloromethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromomethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Vinyl chloride | ND | | ug/l | 2.0 | 0.14 | 2 |
| Chloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,1-Dichloroethene | ND | | ug/l | 1.0 | 0.34 | 2 |
| trans-1,2-Dichloroethene | ND | | ug/l | 5.0 | 1.4 | 2 |

Project Name: 491 WORTMAN

Lab Number: L1909107

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-06 D

Date Collected: 03/08/19 11:45

Client ID: MW-17_030819

Date Received: 03/08/19

Sample Location: BROOKLYN

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 120 | | ug/l | 1.0 | 0.35 | 2 |
| 1,2-Dichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,3-Dichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,4-Dichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Methyl tert butyl ether | ND | | ug/l | 5.0 | 1.4 | 2 |
| p/m-Xylene | ND | | ug/l | 5.0 | 1.4 | 2 |
| o-Xylene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Xylenes, Total | ND | | ug/l | 5.0 | 1.4 | 2 |
| cis-1,2-Dichloroethene | 6.0 | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dichloroethene, Total | 6.0 | | ug/l | 5.0 | 1.4 | 2 |
| Dibromomethane | ND | | ug/l | 10 | 2.0 | 2 |
| 1,2,3-Trichloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Acrylonitrile | ND | | ug/l | 10 | 3.0 | 2 |
| Styrene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Dichlorodifluoromethane | ND | | ug/l | 10 | 2.0 | 2 |
| Acetone | ND | | ug/l | 10 | 2.9 | 2 |
| Carbon disulfide | ND | | ug/l | 10 | 2.0 | 2 |
| 2-Butanone | ND | | ug/l | 10 | 3.9 | 2 |
| Vinyl acetate | ND | | ug/l | 10 | 2.0 | 2 |
| 4-Methyl-2-pentanone | ND | | ug/l | 10 | 2.0 | 2 |
| 2-Hexanone | ND | | ug/l | 10 | 2.0 | 2 |
| Bromochloromethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 2,2-Dichloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dibromoethane | ND | | ug/l | 4.0 | 1.3 | 2 |
| 1,3-Dichloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| n-Butylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| sec-Butylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| tert-Butylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| o-Chlorotoluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| p-Chlorotoluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Hexachlorobutadiene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Isopropylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| p-Isopropyltoluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Naphthalene | ND | | ug/l | 5.0 | 1.4 | 2 |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-06 D
 Client ID: MW-17_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 11:45
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,4-Dioxane | ND | | ug/l | 500 | 120 | 2 |
| p-Diethylbenzene | ND | | ug/l | 4.0 | 1.4 | 2 |
| p-Ethyltoluene | ND | | ug/l | 4.0 | 1.4 | 2 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 4.0 | 1.1 | 2 |
| Ethyl ether | ND | | ug/l | 5.0 | 1.4 | 2 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 5.0 | 1.4 | 2 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 117 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 113 | | 70-130 |
| Dibromofluoromethane | 113 | | 70-130 |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-07
 Client ID: MW-02_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 09:40
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/14/19 02:00
 Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 0.41 | J | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN

Lab Number: L1909107

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-07
 Client ID: MW-02_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 09:40
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.28 | J | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.2 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-07
Client ID: MW-02_030819
Sample Location: BROOKLYN

Date Collected: 03/08/19 09:40
Date Received: 03/08/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 119 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 117 | | 70-130 |
| Dibromofluoromethane | 114 | | 70-130 |

Project Name: 491 WORTMAN

Lab Number: L1909107

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-08
 Client ID: GWDUP01_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 00:00
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/14/19 02:22
 Analyst: NLK

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

Project Name: 491 WORTMAN

Lab Number: L1909107

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-08
 Client ID: GWDUP01_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 00:00
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.18 | J | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 1.7 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-08
 Client ID: GWDUP01_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 00:00
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 116 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 117 | | 70-130 |
| Dibromofluoromethane | 113 | | 70-130 |

Project Name: 491 WORTMAN**Lab Number:** L1909107**Project Number:** 170329301**Report Date:** 03/14/19**SAMPLE RESULTS**

Lab ID: L1909107-09
 Client ID: GWTB02_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 00:00
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/13/19 22:43
 Analyst: NLK

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

Project Name: 491 WORTMAN

Lab Number: L1909107

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-09
 Client ID: GWTB02_030819
 Sample Location: BROOKLYN

Date Collected: 03/08/19 00:00
 Date Received: 03/08/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 4.1 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1909107-09
Client ID: GWTB02_030819
Sample Location: BROOKLYN

Date Collected: 03/08/19 00:00
Date Received: 03/08/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 117 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 107 | | 70-130 |
| Dibromofluoromethane | 112 | | 70-130 |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/13/19 19:48
Analyst: KJD

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1215584-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/13/19 19:48
Analyst: KJD

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1215584-5 | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 03/13/19 19:48
Analyst: KJD

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1215584-5 | | | | | |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 113 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 109 | | 70-130 |
| Dibromofluoromethane | 108 | | 70-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN

Lab Number: L1909107

Project Number: 170329301

Report Date: 03/14/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1215584-3 WG1215584-4 | | | | | | | | |
| Methylene chloride | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1-Dichloroethane | 100 | | 110 | | 70-130 | 10 | | 20 |
| Chloroform | 110 | | 110 | | 70-130 | 0 | | 20 |
| Carbon tetrachloride | 110 | | 110 | | 63-132 | 0 | | 20 |
| 1,2-Dichloropropane | 100 | | 100 | | 70-130 | 0 | | 20 |
| Dibromochloromethane | 100 | | 110 | | 63-130 | 10 | | 20 |
| 1,1,2-Trichloroethane | 110 | | 120 | | 70-130 | 9 | | 20 |
| Tetrachloroethene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Chlorobenzene | 100 | | 110 | | 75-130 | 10 | | 20 |
| Trichlorofluoromethane | 120 | | 120 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 110 | | 110 | | 67-130 | 0 | | 20 |
| Bromodichloromethane | 100 | | 110 | | 67-130 | 10 | | 20 |
| trans-1,3-Dichloropropene | 100 | | 100 | | 70-130 | 0 | | 20 |
| cis-1,3-Dichloropropene | 99 | | 99 | | 70-130 | 0 | | 20 |
| 1,1-Dichloropropene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Bromoform | 100 | | 110 | | 54-136 | 10 | | 20 |
| 1,1,1,2,2-Tetrachloroethane | 100 | | 110 | | 67-130 | 10 | | 20 |
| Benzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Toluene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Ethylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Chloromethane | 110 | | 110 | | 64-130 | 0 | | 20 |
| Bromomethane | 100 | | 100 | | 39-139 | 0 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN

Lab Number: L1909107

Project Number: 170329301

Report Date: 03/14/19

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|---|-----------|------|-----------|------|---------------------|-----|------|---------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1215584-3 WG1215584-4 | | | | | | | | |
| Vinyl chloride | 110 | | 110 | | 55-140 | 0 | | 20 |
| Chloroethane | 130 | | 150 | Q | 55-138 | 14 | | 20 |
| 1,1-Dichloroethene | 100 | | 100 | | 61-145 | 0 | | 20 |
| trans-1,2-Dichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Trichloroethene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,3-Dichlorobenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,4-Dichlorobenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Methyl tert butyl ether | 85 | | 87 | | 63-130 | 2 | | 20 |
| p/m-Xylene | 100 | | 105 | | 70-130 | 5 | | 20 |
| o-Xylene | 95 | | 100 | | 70-130 | 5 | | 20 |
| cis-1,2-Dichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Dibromomethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2,3-Trichloropropane | 110 | | 120 | | 64-130 | 9 | | 20 |
| Acrylonitrile | 100 | | 110 | | 70-130 | 10 | | 20 |
| Styrene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Dichlorodifluoromethane | 100 | | 100 | | 36-147 | 0 | | 20 |
| Acetone | 120 | | 120 | | 58-148 | 0 | | 20 |
| Carbon disulfide | 100 | | 100 | | 51-130 | 0 | | 20 |
| 2-Butanone | 99 | | 100 | | 63-138 | 1 | | 20 |
| Vinyl acetate | 83 | | 87 | | 70-130 | 5 | | 20 |
| 4-Methyl-2-pentanone | 89 | | 94 | | 59-130 | 5 | | 20 |
| 2-Hexanone | 79 | | 84 | | 57-130 | 6 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN

Lab Number: L1909107

Project Number: 170329301

Report Date: 03/14/19

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|---|-----------|------|-----------|------|------------------|-----|------|------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1215584-3 WG1215584-4 | | | | | | | | |
| Bromochloromethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 2,2-Dichloropropane | 91 | | 92 | | 63-133 | 1 | | 20 |
| 1,2-Dibromoethane | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,3-Dichloropropane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1,1,2-Tetrachloroethane | 100 | | 110 | | 64-130 | 10 | | 20 |
| Bromobenzene | 97 | | 110 | | 70-130 | 13 | | 20 |
| n-Butylbenzene | 96 | | 100 | | 53-136 | 4 | | 20 |
| sec-Butylbenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| tert-Butylbenzene | 87 | | 94 | | 70-130 | 8 | | 20 |
| o-Chlorotoluene | 98 | | 110 | | 70-130 | 12 | | 20 |
| p-Chlorotoluene | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,2-Dibromo-3-chloropropane | 92 | | 100 | | 41-144 | 8 | | 20 |
| Hexachlorobutadiene | 86 | | 91 | | 63-130 | 6 | | 20 |
| Isopropylbenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| p-Isopropyltoluene | 99 | | 100 | | 70-130 | 1 | | 20 |
| Naphthalene | 56 | Q | 63 | Q | 70-130 | 12 | | 20 |
| n-Propylbenzene | 110 | | 120 | | 69-130 | 9 | | 20 |
| 1,2,3-Trichlorobenzene | 54 | Q | 66 | Q | 70-130 | 20 | | 20 |
| 1,2,4-Trichlorobenzene | 56 | Q | 64 | Q | 70-130 | 13 | | 20 |
| 1,3,5-Trimethylbenzene | 100 | | 110 | | 64-130 | 10 | | 20 |
| 1,2,4-Trimethylbenzene | 96 | | 100 | | 70-130 | 4 | | 20 |
| 1,4-Dioxane | 128 | | 152 | | 56-162 | 17 | | 20 |
| p-Diethylbenzene | 83 | | 89 | | 70-130 | 7 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN

Project Number: 170329301

Lab Number: L1909107

Report Date: 03/14/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1215584-3 WG1215584-4 | | | | | | | | |
| p-Ethyltoluene | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,2,4,5-Tetramethylbenzene | 32 | Q | 35 | Q | 70-130 | 9 | | 20 |
| Ethyl ether | 99 | | 98 | | 59-134 | 1 | | 20 |
| trans-1,4-Dichloro-2-butene | 91 | | 92 | | 70-130 | 1 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 108 | | 107 | | 70-130 |
| Toluene-d8 | 100 | | 101 | | 70-130 |
| 4-Bromofluorobenzene | 92 | | 94 | | 70-130 |
| Dibromofluoromethane | 105 | | 105 | | 70-130 |

Project Name: 491 WORTMAN**Lab Number:** L1909107**Project Number:** 170329301**Report Date:** 03/14/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

| Cooler | Custody Seal |
|---------------|---------------------|
| A | Absent |

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|-----------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|--------------------|
| L1909107-01A | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-01B | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-01C | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-02A | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-02B | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-02C | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-03A | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-03B | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-03C | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-04A | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-04B | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-04C | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-05A | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-05B | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-05C | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-06A | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-06B | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-06C | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-07A | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-07B | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-07C | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-08A | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-08B | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |

Project Name: 491 WORTMAN
Project Number: 170329301

Serial_No:03141916:55
Lab Number: L1909107
Report Date: 03/14/19

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|-----------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|--------------------|
| L1909107-08C | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-09A | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-09B | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | NYTCL-8260(14) |
| L1909107-10A | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | HOLD-8260(14) |
| L1909107-10B | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | HOLD-8260(14) |
| L1909107-10C | Vial HCl preserved | A | NA | | 3.0 | Y | Absent | | HOLD-8260(14) |

Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

GLOSSARY

Acronyms

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

Footnotes

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

Report Format: DU Report with 'J' Qualifiers



Project Name: 491 WORTMAN
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original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 491 WORTMAN
Project Number: 170329301

Lab Number: L1909107
Report Date: 03/14/19

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L1908936 |
| Client: | Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727 |
| ATTN: | James Robinson |
| Phone: | (212) 479-5400 |
| Project Name: | 491 WORTMAN AVE. |
| Project Number: | 170329301 |
| Report Date: | 03/14/19 |

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

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



Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L1908936-01 | MW-10_030719 | WATER | BROOKLYN, NY | 03/07/19 12:43 | 03/07/19 |
| L1908936-02 | MW11_030719 | WATER | BROOKLYN, NY | 03/07/19 09:43 | 03/07/19 |
| L1908936-03 | MW-7_030719 | WATER | BROOKLYN, NY | 03/07/19 13:59 | 03/07/19 |
| L1908936-04 | MW-9_030719 | WATER | BROOKLYN, NY | 03/07/19 12:00 | 03/07/19 |
| L1908936-05 | PZ-2_030719 | WATER | BROOKLYN, NY | 03/07/19 13:20 | 03/07/19 |
| L1908936-06 | MW-3A_030719 | WATER | BROOKLYN, NY | 03/07/19 14:30 | 03/07/19 |
| L1908936-07 | GWFB01_030719 | WATER | BROOKLYN, NY | 03/07/19 15:10 | 03/07/19 |
| L1908936-08 | GWTB01_030719 | WATER | BROOKLYN, NY | 03/07/19 00:00 | 03/07/19 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

Case Narrative

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

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

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

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

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

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

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

Case Narrative (continued)

Report Submission

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

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

Authorized Signature:

 Amita Naik

Title: Technical Director/Representative

Date: 03/14/19

ORGANICS

VOLATILES

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-01
 Client ID: MW-10_030719
 Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 12:43
 Date Received: 03/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/12/19 13:37
 Analyst: PK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | 44 | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | 3.5 | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVE.

Lab Number: L1908936

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-01
 Client ID: MW-10_030719
 Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 12:43
 Date Received: 03/07/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.4 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-01
Client ID: MW-10_030719
Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 12:43
Date Received: 03/07/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 109 | | 70-130 |
| Toluene-d8 | 109 | | 70-130 |
| 4-Bromofluorobenzene | 112 | | 70-130 |
| Dibromofluoromethane | 93 | | 70-130 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-02
 Client ID: MW11_030719
 Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 09:43
 Date Received: 03/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/13/19 23:05
 Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | 20 | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | 0.15 | J | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 120 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | 1.3 | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-02
Client ID: MW11_030719
Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 09:43
Date Received: 03/07/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 96 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | 2.9 | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | 2.9 | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 1.6 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-02
 Client ID: MW11_030719
 Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 09:43
 Date Received: 03/07/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 117 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 110 | | 70-130 |
| Dibromofluoromethane | 111 | | 70-130 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-03
 Client ID: MW-7_030719
 Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 13:59
 Date Received: 03/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/12/19 21:46
 Analyst: MKS

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

Project Name: 491 WORTMAN AVE.

Lab Number: L1908936

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-03
 Client ID: MW-7_030719
 Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 13:59
 Date Received: 03/07/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-03
Client ID: MW-7_030719
Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 13:59
Date Received: 03/07/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 113 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 103 | | 70-130 |
| Dibromofluoromethane | 109 | | 70-130 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-04
 Client ID: MW-9_030719
 Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 12:00
 Date Received: 03/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/12/19 22:08
 Analyst: MKS

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

Project Name: 491 WORTMAN AVE.

Lab Number: L1908936

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-04
 Client ID: MW-9_030719
 Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 12:00
 Date Received: 03/07/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-04
Client ID: MW-9_030719
Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 12:00
Date Received: 03/07/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 114 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 102 | | 70-130 |
| Dibromofluoromethane | 108 | | 70-130 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-05
 Client ID: PZ-2_030719
 Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 13:20
 Date Received: 03/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/12/19 22:30
 Analyst: MKS

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 0.59 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-05
Client ID: PZ-2_030719
Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 13:20
Date Received: 03/07/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.29 | J | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.6 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-05
Client ID: PZ-2_030719
Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 13:20
Date Received: 03/07/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 116 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 103 | | 70-130 |
| Dibromofluoromethane | 108 | | 70-130 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-06
 Client ID: MW-3A_030719
 Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 14:30
 Date Received: 03/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/12/19 22:52
 Analyst: MKS

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 0.72 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVE.

Lab Number: L1908936

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-06
 Client ID: MW-3A_030719
 Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 14:30
 Date Received: 03/07/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.96 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 1.7 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-06
 Client ID: MW-3A_030719
 Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 14:30
 Date Received: 03/07/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 113 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 102 | | 70-130 |
| Dibromofluoromethane | 107 | | 70-130 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-07
Client ID: GWFB01_030719
Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 15:10
Date Received: 03/07/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/12/19 19:56
Analyst: MKS

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

Project Name: 491 WORTMAN AVE.

Lab Number: L1908936

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-07
 Client ID: GWFB01_030719
 Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 15:10
 Date Received: 03/07/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-07
Client ID: GWFB01_030719
Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 15:10
Date Received: 03/07/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 111 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 108 | | 70-130 |
| Dibromofluoromethane | 107 | | 70-130 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-08
 Client ID: GWTB01_030719
 Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 00:00
 Date Received: 03/07/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/12/19 20:18
 Analyst: MKS

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

Project Name: 491 WORTMAN AVE.

Lab Number: L1908936

Project Number: 170329301

Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-08
 Client ID: GWTB01_030719
 Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 00:00
 Date Received: 03/07/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 1.5 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

SAMPLE RESULTS

Lab ID: L1908936-08
 Client ID: GWTB01_030719
 Sample Location: BROOKLYN, NY

Date Collected: 03/07/19 00:00
 Date Received: 03/07/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 113 | | 70-130 |
| Toluene-d8 | 99 | | 70-130 |
| 4-Bromofluorobenzene | 107 | | 70-130 |
| Dibromofluoromethane | 107 | | 70-130 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/12/19 09:48
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1214926-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/12/19 09:48
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1214926-5 | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 03/12/19 09:48
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1214926-5 | | | | | |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 106 | | 70-130 |
| Toluene-d8 | 109 | | 70-130 |
| 4-Bromofluorobenzene | 114 | | 70-130 |
| Dibromofluoromethane | 90 | | 70-130 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/12/19 19:35
Analyst: KJD

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-08 Batch: WG1215235-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/12/19 19:35
Analyst: KJD

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-08 Batch: WG1215235-5 | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 03/12/19 19:35
Analyst: KJD

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-08 Batch: WG1215235-5 | | | | | |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 114 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 102 | | 70-130 |
| Dibromofluoromethane | 107 | | 70-130 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/13/19 19:48
Analyst: KJD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1215584-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/13/19 19:48
Analyst: KJD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1215584-5 | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 03/13/19 19:48
Analyst: KJD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1215584-5 | | | | | |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 113 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 109 | | 70-130 |
| Dibromofluoromethane | 108 | | 70-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVE.

Lab Number: L1908936

Project Number: 170329301

Report Date: 03/14/19

| Parameter | LCS | Qual | LCS | Qual | %Recovery | RPD | Qual | RPD |
|--|-----------|------|-----------|------|-----------|-----|------|--------|
| | %Recovery | | %Recovery | | Limits | | | Limits |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1214926-3 WG1214926-4 | | | | | | | | |
| Methylene chloride | 98 | | 95 | | 70-130 | 3 | | 20 |
| 1,1-Dichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Chloroform | 100 | | 98 | | 70-130 | 2 | | 20 |
| Carbon tetrachloride | 92 | | 88 | | 63-132 | 4 | | 20 |
| 1,2-Dichloropropane | 110 | | 100 | | 70-130 | 10 | | 20 |
| Dibromochloromethane | 100 | | 100 | | 63-130 | 0 | | 20 |
| 1,1,2-Trichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Tetrachloroethene | 91 | | 90 | | 70-130 | 1 | | 20 |
| Chlorobenzene | 100 | | 100 | | 75-130 | 0 | | 20 |
| Trichlorofluoromethane | 90 | | 88 | | 62-150 | 2 | | 20 |
| 1,2-Dichloroethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 94 | | 94 | | 67-130 | 0 | | 20 |
| Bromodichloromethane | 100 | | 100 | | 67-130 | 0 | | 20 |
| trans-1,3-Dichloropropene | 110 | | 110 | | 70-130 | 0 | | 20 |
| cis-1,3-Dichloropropene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1-Dichloropropene | 100 | | 98 | | 70-130 | 2 | | 20 |
| Bromoform | 100 | | 100 | | 54-136 | 0 | | 20 |
| 1,1,2,2-Tetrachloroethane | 120 | | 120 | | 67-130 | 0 | | 20 |
| Benzene | 100 | | 99 | | 70-130 | 1 | | 20 |
| Toluene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Ethylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Chloromethane | 92 | | 92 | | 64-130 | 0 | | 20 |
| Bromomethane | 48 | | 48 | | 39-139 | 0 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVE.

Lab Number: L1908936

Project Number: 170329301

Report Date: 03/14/19

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|--|-----------|------|-----------|------|------------------|-----|------|------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1214926-3 WG1214926-4 | | | | | | | | |
| Vinyl chloride | 100 | | 98 | | 55-140 | 2 | | 20 |
| Chloroethane | 95 | | 95 | | 55-138 | 0 | | 20 |
| 1,1-Dichloroethene | 91 | | 88 | | 61-145 | 3 | | 20 |
| trans-1,2-Dichloroethene | 94 | | 92 | | 70-130 | 2 | | 20 |
| Trichloroethene | 92 | | 91 | | 70-130 | 1 | | 20 |
| 1,2-Dichlorobenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,3-Dichlorobenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,4-Dichlorobenzene | 110 | | 100 | | 70-130 | 10 | | 20 |
| Methyl tert butyl ether | 100 | | 100 | | 63-130 | 0 | | 20 |
| p/m-Xylene | 100 | | 100 | | 70-130 | 0 | | 20 |
| o-Xylene | 100 | | 100 | | 70-130 | 0 | | 20 |
| cis-1,2-Dichloroethene | 96 | | 96 | | 70-130 | 0 | | 20 |
| Dibromomethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2,3-Trichloropropane | 120 | | 120 | | 64-130 | 0 | | 20 |
| Acrylonitrile | 110 | | 110 | | 70-130 | 0 | | 20 |
| Styrene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Dichlorodifluoromethane | 91 | | 89 | | 36-147 | 2 | | 20 |
| Acetone | 130 | | 120 | | 58-148 | 8 | | 20 |
| Carbon disulfide | 90 | | 88 | | 51-130 | 2 | | 20 |
| 2-Butanone | 110 | | 120 | | 63-138 | 9 | | 20 |
| Vinyl acetate | 110 | | 110 | | 70-130 | 0 | | 20 |
| 4-Methyl-2-pentanone | 110 | | 110 | | 59-130 | 0 | | 20 |
| 2-Hexanone | 120 | | 120 | | 57-130 | 0 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVE.

Lab Number: L1908936

Project Number: 170329301

Report Date: 03/14/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1214926-3 WG1214926-4 | | | | | | | | |
| Bromochloromethane | 97 | | 94 | | 70-130 | 3 | | 20 |
| 2,2-Dichloropropane | 99 | | 95 | | 63-133 | 4 | | 20 |
| 1,2-Dibromoethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,3-Dichloropropane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1,1,2-Tetrachloroethane | 100 | | 100 | | 64-130 | 0 | | 20 |
| Bromobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| n-Butylbenzene | 100 | | 100 | | 53-136 | 0 | | 20 |
| sec-Butylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| tert-Butylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| o-Chlorotoluene | 110 | | 110 | | 70-130 | 0 | | 20 |
| p-Chlorotoluene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2-Dibromo-3-chloropropane | 100 | | 99 | | 41-144 | 1 | | 20 |
| Hexachlorobutadiene | 86 | | 85 | | 63-130 | 1 | | 20 |
| Isopropylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| p-Isopropyltoluene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Naphthalene | 110 | | 110 | | 70-130 | 0 | | 20 |
| n-Propylbenzene | 100 | | 100 | | 69-130 | 0 | | 20 |
| 1,2,3-Trichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2,4-Trichlorobenzene | 99 | | 100 | | 70-130 | 1 | | 20 |
| 1,3,5-Trimethylbenzene | 100 | | 100 | | 64-130 | 0 | | 20 |
| 1,2,4-Trimethylbenzene | 110 | | 100 | | 70-130 | 10 | | 20 |
| 1,4-Dioxane | 64 | | 74 | | 56-162 | 14 | | 20 |
| p-Diethylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVE.

Lab Number: L1908936

Project Number: 170329301

Report Date: 03/14/19

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|--|-----------|------|-----------|------|---------------------|-----|------|---------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1214926-3 WG1214926-4 | | | | | | | | |
| p-Ethyltoluene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2,4,5-Tetramethylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Ethyl ether | 99 | | 99 | | 59-134 | 0 | | 20 |
| trans-1,4-Dichloro-2-butene | 120 | | 120 | | 70-130 | 0 | | 20 |

| Surrogate | LCS | | LCSD | | Acceptance Criteria |
|-----------------------|-----------|------|-----------|------|------------------------|
| | %Recovery | Qual | %Recovery | Qual | |
| 1,2-Dichloroethane-d4 | 106 | | 105 | | 70-130 |
| Toluene-d8 | 105 | | 107 | | 70-130 |
| 4-Bromofluorobenzene | 108 | | 107 | | 70-130 |
| Dibromofluoromethane | 94 | | 93 | | 70-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVE.

Lab Number: L1908936

Project Number: 170329301

Report Date: 03/14/19

| Parameter | LCS | Qual | LCS | Qual | %Recovery | RPD | Qual | RPD |
|---|-----------|------|-----------|------|-----------|-----|------|--------|
| | %Recovery | | %Recovery | | Limits | | | Limits |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-08 Batch: WG1215235-3 WG1215235-4 | | | | | | | | |
| Methylene chloride | 99 | | 98 | | 70-130 | 1 | | 20 |
| 1,1-Dichloroethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| Chloroform | 100 | | 100 | | 70-130 | 0 | | 20 |
| Carbon tetrachloride | 100 | | 100 | | 63-132 | 0 | | 20 |
| 1,2-Dichloropropane | 95 | | 97 | | 70-130 | 2 | | 20 |
| Dibromochloromethane | 100 | | 100 | | 63-130 | 0 | | 20 |
| 1,1,2-Trichloroethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| Tetrachloroethene | 98 | | 97 | | 70-130 | 1 | | 20 |
| Chlorobenzene | 100 | | 100 | | 75-130 | 0 | | 20 |
| Trichlorofluoromethane | 120 | | 120 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 99 | | 96 | | 67-130 | 3 | | 20 |
| Bromodichloromethane | 100 | | 100 | | 67-130 | 0 | | 20 |
| trans-1,3-Dichloropropene | 89 | | 91 | | 70-130 | 2 | | 20 |
| cis-1,3-Dichloropropene | 91 | | 92 | | 70-130 | 1 | | 20 |
| 1,1-Dichloropropene | 98 | | 98 | | 70-130 | 0 | | 20 |
| Bromoform | 96 | | 95 | | 54-136 | 1 | | 20 |
| 1,1,2,2-Tetrachloroethane | 99 | | 100 | | 67-130 | 1 | | 20 |
| Benzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Toluene | 98 | | 100 | | 70-130 | 2 | | 20 |
| Ethylbenzene | 96 | | 97 | | 70-130 | 1 | | 20 |
| Chloromethane | 100 | | 96 | | 64-130 | 4 | | 20 |
| Bromomethane | 97 | | 97 | | 39-139 | 0 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVE.

Lab Number: L1908936

Project Number: 170329301

Report Date: 03/14/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-08 Batch: WG1215235-3 WG1215235-4 | | | | | | | | |
| Vinyl chloride | 110 | | 110 | | 55-140 | 0 | | 20 |
| Chloroethane | 140 | Q | 140 | Q | 55-138 | 0 | | 20 |
| 1,1-Dichloroethene | 100 | | 99 | | 61-145 | 1 | | 20 |
| trans-1,2-Dichloroethene | 99 | | 99 | | 70-130 | 0 | | 20 |
| Trichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 97 | | 97 | | 70-130 | 0 | | 20 |
| 1,3-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,4-Dichlorobenzene | 100 | | 98 | | 70-130 | 2 | | 20 |
| Methyl tert butyl ether | 85 | | 85 | | 63-130 | 0 | | 20 |
| p/m-Xylene | 95 | | 95 | | 70-130 | 0 | | 20 |
| o-Xylene | 95 | | 95 | | 70-130 | 0 | | 20 |
| cis-1,2-Dichloroethene | 97 | | 97 | | 70-130 | 0 | | 20 |
| Dibromomethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2,3-Trichloropropane | 100 | | 100 | | 64-130 | 0 | | 20 |
| Acrylonitrile | 100 | | 94 | | 70-130 | 6 | | 20 |
| Styrene | 95 | | 100 | | 70-130 | 5 | | 20 |
| Dichlorodifluoromethane | 90 | | 91 | | 36-147 | 1 | | 20 |
| Acetone | 98 | | 98 | | 58-148 | 0 | | 20 |
| Carbon disulfide | 98 | | 97 | | 51-130 | 1 | | 20 |
| 2-Butanone | 92 | | 90 | | 63-138 | 2 | | 20 |
| Vinyl acetate | 85 | | 84 | | 70-130 | 1 | | 20 |
| 4-Methyl-2-pentanone | 87 | | 84 | | 59-130 | 4 | | 20 |
| 2-Hexanone | 74 | | 80 | | 57-130 | 8 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVE.

Lab Number: L1908936

Project Number: 170329301

Report Date: 03/14/19

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|---|-----------|------|-----------|------|------------------|-----|------|------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-08 Batch: WG1215235-3 WG1215235-4 | | | | | | | | |
| Bromochloromethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 2,2-Dichloropropane | 90 | | 89 | | 63-133 | 1 | | 20 |
| 1,2-Dibromoethane | 99 | | 99 | | 70-130 | 0 | | 20 |
| 1,3-Dichloropropane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1,1,2-Tetrachloroethane | 98 | | 100 | | 64-130 | 2 | | 20 |
| Bromobenzene | 94 | | 90 | | 70-130 | 4 | | 20 |
| n-Butylbenzene | 98 | | 97 | | 53-136 | 1 | | 20 |
| sec-Butylbenzene | 110 | | 100 | | 70-130 | 10 | | 20 |
| tert-Butylbenzene | 86 | | 85 | | 70-130 | 1 | | 20 |
| o-Chlorotoluene | 97 | | 94 | | 70-130 | 3 | | 20 |
| p-Chlorotoluene | 97 | | 94 | | 70-130 | 3 | | 20 |
| 1,2-Dibromo-3-chloropropane | 82 | | 84 | | 41-144 | 2 | | 20 |
| Hexachlorobutadiene | 91 | | 88 | | 63-130 | 3 | | 20 |
| Isopropylbenzene | 98 | | 96 | | 70-130 | 2 | | 20 |
| p-Isopropyltoluene | 99 | | 96 | | 70-130 | 3 | | 20 |
| Naphthalene | 62 | Q | 62 | Q | 70-130 | 0 | | 20 |
| n-Propylbenzene | 100 | | 100 | | 69-130 | 0 | | 20 |
| 1,2,3-Trichlorobenzene | 61 | Q | 60 | Q | 70-130 | 2 | | 20 |
| 1,2,4-Trichlorobenzene | 64 | Q | 62 | Q | 70-130 | 3 | | 20 |
| 1,3,5-Trimethylbenzene | 98 | | 96 | | 64-130 | 2 | | 20 |
| 1,2,4-Trimethylbenzene | 94 | | 92 | | 70-130 | 2 | | 20 |
| 1,4-Dioxane | 162 | | 162 | | 56-162 | 0 | | 20 |
| p-Diethylbenzene | 87 | | 85 | | 70-130 | 2 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVE.

Project Number: 170329301

Lab Number: L1908936

Report Date: 03/14/19

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | RPD | |
|---|-----------|------|-----------|------|------------------|-----|------|--------|
| | %Recovery | Qual | %Recovery | Qual | | | Qual | Limits |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-08 Batch: WG1215235-3 WG1215235-4 | | | | | | | | |
| p-Ethyltoluene | 100 | | 98 | | 70-130 | 2 | | 20 |
| 1,2,4,5-Tetramethylbenzene | 36 | Q | 35 | Q | 70-130 | 3 | | 20 |
| Ethyl ether | 100 | | 96 | | 59-134 | 4 | | 20 |
| trans-1,4-Dichloro-2-butene | 94 | | 81 | | 70-130 | 15 | | 20 |

| Surrogate | LCS | | LCSD | | Acceptance Criteria |
|-----------------------|-----------|------|-----------|------|---------------------|
| | %Recovery | Qual | %Recovery | Qual | |
| 1,2-Dichloroethane-d4 | 103 | | 106 | | 70-130 |
| Toluene-d8 | 101 | | 101 | | 70-130 |
| 4-Bromofluorobenzene | 92 | | 90 | | 70-130 |
| Dibromofluoromethane | 103 | | 104 | | 70-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVE.

Lab Number: L1908936

Project Number: 170329301

Report Date: 03/14/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1215584-3 WG1215584-4 | | | | | | | | |
| Methylene chloride | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1-Dichloroethane | 100 | | 110 | | 70-130 | 10 | | 20 |
| Chloroform | 110 | | 110 | | 70-130 | 0 | | 20 |
| Carbon tetrachloride | 110 | | 110 | | 63-132 | 0 | | 20 |
| 1,2-Dichloropropane | 100 | | 100 | | 70-130 | 0 | | 20 |
| Dibromochloromethane | 100 | | 110 | | 63-130 | 10 | | 20 |
| 1,1,2-Trichloroethane | 110 | | 120 | | 70-130 | 9 | | 20 |
| Tetrachloroethene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Chlorobenzene | 100 | | 110 | | 75-130 | 10 | | 20 |
| Trichlorofluoromethane | 120 | | 120 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 110 | | 110 | | 67-130 | 0 | | 20 |
| Bromodichloromethane | 100 | | 110 | | 67-130 | 10 | | 20 |
| trans-1,3-Dichloropropene | 100 | | 100 | | 70-130 | 0 | | 20 |
| cis-1,3-Dichloropropene | 99 | | 99 | | 70-130 | 0 | | 20 |
| 1,1-Dichloropropene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Bromoform | 100 | | 110 | | 54-136 | 10 | | 20 |
| 1,1,1,2-Tetrachloroethane | 100 | | 110 | | 67-130 | 10 | | 20 |
| Benzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Toluene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Ethylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Chloromethane | 110 | | 110 | | 64-130 | 0 | | 20 |
| Bromomethane | 100 | | 100 | | 39-139 | 0 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVE.

Lab Number: L1908936

Project Number: 170329301

Report Date: 03/14/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1215584-3 WG1215584-4 | | | | | | | | |
| Vinyl chloride | 110 | | 110 | | 55-140 | 0 | | 20 |
| Chloroethane | 130 | | 150 | Q | 55-138 | 14 | | 20 |
| 1,1-Dichloroethene | 100 | | 100 | | 61-145 | 0 | | 20 |
| trans-1,2-Dichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Trichloroethene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,3-Dichlorobenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,4-Dichlorobenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Methyl tert butyl ether | 85 | | 87 | | 63-130 | 2 | | 20 |
| p/m-Xylene | 100 | | 105 | | 70-130 | 5 | | 20 |
| o-Xylene | 95 | | 100 | | 70-130 | 5 | | 20 |
| cis-1,2-Dichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Dibromomethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2,3-Trichloropropane | 110 | | 120 | | 64-130 | 9 | | 20 |
| Acrylonitrile | 100 | | 110 | | 70-130 | 10 | | 20 |
| Styrene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Dichlorodifluoromethane | 100 | | 100 | | 36-147 | 0 | | 20 |
| Acetone | 120 | | 120 | | 58-148 | 0 | | 20 |
| Carbon disulfide | 100 | | 100 | | 51-130 | 0 | | 20 |
| 2-Butanone | 99 | | 100 | | 63-138 | 1 | | 20 |
| Vinyl acetate | 83 | | 87 | | 70-130 | 5 | | 20 |
| 4-Methyl-2-pentanone | 89 | | 94 | | 59-130 | 5 | | 20 |
| 2-Hexanone | 79 | | 84 | | 57-130 | 6 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVE.

Lab Number: L1908936

Project Number: 170329301

Report Date: 03/14/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1215584-3 WG1215584-4 | | | | | | | | |
| Bromochloromethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 2,2-Dichloropropane | 91 | | 92 | | 63-133 | 1 | | 20 |
| 1,2-Dibromoethane | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,3-Dichloropropane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1,1,2-Tetrachloroethane | 100 | | 110 | | 64-130 | 10 | | 20 |
| Bromobenzene | 97 | | 110 | | 70-130 | 13 | | 20 |
| n-Butylbenzene | 96 | | 100 | | 53-136 | 4 | | 20 |
| sec-Butylbenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| tert-Butylbenzene | 87 | | 94 | | 70-130 | 8 | | 20 |
| o-Chlorotoluene | 98 | | 110 | | 70-130 | 12 | | 20 |
| p-Chlorotoluene | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,2-Dibromo-3-chloropropane | 92 | | 100 | | 41-144 | 8 | | 20 |
| Hexachlorobutadiene | 86 | | 91 | | 63-130 | 6 | | 20 |
| Isopropylbenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| p-Isopropyltoluene | 99 | | 100 | | 70-130 | 1 | | 20 |
| Naphthalene | 56 | Q | 63 | Q | 70-130 | 12 | | 20 |
| n-Propylbenzene | 110 | | 120 | | 69-130 | 9 | | 20 |
| 1,2,3-Trichlorobenzene | 54 | Q | 66 | Q | 70-130 | 20 | | 20 |
| 1,2,4-Trichlorobenzene | 56 | Q | 64 | Q | 70-130 | 13 | | 20 |
| 1,3,5-Trimethylbenzene | 100 | | 110 | | 64-130 | 10 | | 20 |
| 1,2,4-Trimethylbenzene | 96 | | 100 | | 70-130 | 4 | | 20 |
| 1,4-Dioxane | 128 | | 152 | | 56-162 | 17 | | 20 |
| p-Diethylbenzene | 83 | | 89 | | 70-130 | 7 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVE.

Project Number: 170329301

Lab Number: L1908936

Report Date: 03/14/19

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | RPD | |
|--|-----------|------|-----------|------|------------------|-----|------|--------|
| | %Recovery | Qual | %Recovery | Qual | | | Qual | Limits |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1215584-3 WG1215584-4 | | | | | | | | |
| p-Ethyltoluene | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,2,4,5-Tetramethylbenzene | 32 | Q | 35 | Q | 70-130 | 9 | | 20 |
| Ethyl ether | 99 | | 98 | | 59-134 | 1 | | 20 |
| trans-1,4-Dichloro-2-butene | 91 | | 92 | | 70-130 | 1 | | 20 |

| Surrogate | LCS | | LCSD | | Acceptance Criteria |
|-----------------------|-----------|------|-----------|------|---------------------|
| | %Recovery | Qual | %Recovery | Qual | |
| 1,2-Dichloroethane-d4 | 108 | | 107 | | 70-130 |
| Toluene-d8 | 100 | | 101 | | 70-130 |
| 4-Bromofluorobenzene | 92 | | 94 | | 70-130 |
| Dibromofluoromethane | 105 | | 105 | | 70-130 |

Project Name: 491 WORTMAN AVE.**Lab Number:** L1908936**Project Number:** 170329301**Report Date:** 03/14/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

| Cooler | Custody Seal |
|---------------|---------------------|
| A | Absent |

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|-----------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|--------------------|
| L1908936-01A | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-01B | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-01C | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-02A | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-02B | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-02C | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-03A | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-03B | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-03C | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-04A | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-04B | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-04C | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-05A | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-05B | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-05C | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-06A | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-06B | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-06C | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-07A | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-07B | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-07C | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-08A | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |
| L1908936-08B | Vial HCl preserved | A | NA | | 2.9 | Y | Absent | | NYTCL-8260(14) |

Project Name: 491 WORTMAN AVE.

Project Number: 170329301

Serial_No:03141913:55

Lab Number: L1908936

Report Date: 03/14/19

Container Information

Container ID **Container Type**

| Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|--------------------|
|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|--------------------|

Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

GLOSSARY

Acronyms

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

Footnotes

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

Report Format: DU Report with 'J' Qualifiers



Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
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original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 491 WORTMAN AVE.
Project Number: 170329301

Lab Number: L1908936
Report Date: 03/14/19

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water


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

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

EPA 245.1 Hg.

SM2340B

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

| | | | | | | | | | |
|---|---|---|------------------------------------|---|---------------------------|--|--------------------|---------------|--|
|  NEW YORK CHAIN OF CUSTODY | Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105 | Page 1 | Date Rec'd in Lab 3/8/19 | ALPHA Job # U908936 | | | | | |
| | | of 1 | | | | | | | |
| Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 | Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288 | Project Information | | Deliverables | | Billing Information | | | |
| Client Information Client: LAMAN Engineering Address: 3120 W 31st St New York, NY 10001 Phone: 212 479 5400 Fax: Jrobinson@iangin.com Email: datamanagement@iangin.com | | Project Name: H91 Wortman Ave Project Location: Brooklyn, NY Project # 170329301 (Use Project name as Project #) <input type="checkbox"/> | | <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other | | <input checked="" type="checkbox"/> Same as Client Info PO # | | | |
| Project Manager: James Robinson ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days: | | Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge | | Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other: | | | | | |
| These samples have been previously analyzed by Alpha <input type="checkbox"/> | | Other project specific requirements/comments: | | ANALYSIS | | Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below) | | | |
| Please specify Metals or TAL. | | ALPHA Lab ID (Lab Use Only) | | Sample ID | Collection Date Time | Sample Matrix | Sampler's Initials | Total Bottles | |
| | | 08936.01 | MW-10-030719 | 3/7/19 1243 | GW | KG | X | | |
| | | .02 | MW-10 MW11-030719 | 943 | | KG | X | | |
| | | .03 | MW-7-030719 | 1359 | | KG | X | | |
| | | .04 | MW-9-030719 | 1200 | | KR | X | | |
| | | .05 | PZ-2-030719 | 1320 | | KR | X | | |
| | | .06 | MW-3A-030719 | 1430 | ↓ | KR | X | | |
| | | .07 | GWFBO1-030719 | 1510 | aq | KG | X | | |
| | | .08 | GWTBO1-030719 | ↓ - | ↓ | - | X | | |
| Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other | | Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle | | Westboro: Certification No: MA935 Mansfield: Certification No: MA015 | | Container Type Preservative | | | Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.) |
| | | Relinquished By: | | Date/Time | | Received By: | | Date/Time | |
| | | KR | | 3/7/19 1605 | | Dave Kim | | 3/9/19 1605 | |
| | | Paul Mayella | | 3/17/19 1955 | | Paul Mayella | | 3/18/19 00:07 | |
| | | Paul Mayella | | 3/18/19 00:27 | | Paul Mayella | | 3/18/19 00:07 | |



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L1925743 |
| Client: | Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727 |
| ATTN: | James Robinson |
| Phone: | (212) 479-5400 |
| Project Name: | 491 WORTMAN AVENUE |
| Project Number: | 170329301 |
| Report Date: | 06/21/19 |

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

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



Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L1925743-01 | MW-18S_061419 | WATER | BROOKLYN, NY | 06/14/19 10:00 | 06/14/19 |
| L1925743-02 | MW-18M_061419 | WATER | BROOKLYN, NY | 06/14/19 10:35 | 06/14/19 |
| L1925743-03 | MW-6_061419 | WATER | BROOKLYN, NY | 06/14/19 11:15 | 06/14/19 |
| L1925743-04 | MW-19_061419 | WATER | BROOKLYN, NY | 06/14/19 11:45 | 06/14/19 |
| L1925743-05 | GWTB02_061419 | WATER | BROOKLYN, NY | 06/14/19 00:00 | 06/14/19 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

Case Narrative

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

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

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

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

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

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

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

Case Narrative (continued)

Report Submission

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

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

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 06/21/19

ORGANICS

VOLATILES

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

SAMPLE RESULTS

Lab ID: L1925743-01
 Client ID: MW-18S_061419
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 10:00
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/20/19 01:13
 Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 6.9 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

SAMPLE RESULTS

Lab ID: L1925743-01
Client ID: MW-18S_061419
Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 10:00
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 14 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | 2.4 | J | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | 2.4 | J | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

SAMPLE RESULTS

Lab ID: L1925743-01
 Client ID: MW-18S_061419
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 10:00
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 100 | | 70-130 |
| Toluene-d8 | 93 | | 70-130 |
| 4-Bromofluorobenzene | 102 | | 70-130 |
| Dibromofluoromethane | 106 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

SAMPLE RESULTS

Lab ID: L1925743-02
 Client ID: MW-18M_061419
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 10:35
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/20/19 01:41
 Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 35 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | 0.37 | J | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925743

Project Number: 170329301

Report Date: 06/21/19

SAMPLE RESULTS

Lab ID: L1925743-02
 Client ID: MW-18M_061419
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 10:35
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 61 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | 2.6 | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | 2.6 | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.0 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

SAMPLE RESULTS

Lab ID: L1925743-02
 Client ID: MW-18M_061419
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 10:35
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 104 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 98 | | 70-130 |
| Dibromofluoromethane | 106 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

SAMPLE RESULTS

Lab ID: L1925743-03 D
 Client ID: MW-6_061419
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 11:15
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/20/19 12:23
 Analyst: KJD

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 12 | 3.5 | 5 |
| 1,1-Dichloroethane | ND | | ug/l | 12 | 3.5 | 5 |
| Chloroform | ND | | ug/l | 12 | 3.5 | 5 |
| Carbon tetrachloride | ND | | ug/l | 2.5 | 0.67 | 5 |
| 1,2-Dichloropropane | ND | | ug/l | 5.0 | 0.68 | 5 |
| Dibromochloromethane | ND | | ug/l | 2.5 | 0.74 | 5 |
| 1,1,2-Trichloroethane | ND | | ug/l | 7.5 | 2.5 | 5 |
| Tetrachloroethene | 580 | | ug/l | 2.5 | 0.90 | 5 |
| Chlorobenzene | ND | | ug/l | 12 | 3.5 | 5 |
| Trichlorofluoromethane | ND | | ug/l | 12 | 3.5 | 5 |
| 1,2-Dichloroethane | ND | | ug/l | 2.5 | 0.66 | 5 |
| 1,1,1-Trichloroethane | ND | | ug/l | 12 | 3.5 | 5 |
| Bromodichloromethane | ND | | ug/l | 2.5 | 0.96 | 5 |
| trans-1,3-Dichloropropene | ND | | ug/l | 2.5 | 0.82 | 5 |
| cis-1,3-Dichloropropene | ND | | ug/l | 2.5 | 0.72 | 5 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 2.5 | 0.72 | 5 |
| 1,1-Dichloropropene | ND | | ug/l | 12 | 3.5 | 5 |
| Bromoform | ND | | ug/l | 10 | 3.2 | 5 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.84 | 5 |
| Benzene | ND | | ug/l | 2.5 | 0.80 | 5 |
| Toluene | ND | | ug/l | 12 | 3.5 | 5 |
| Ethylbenzene | ND | | ug/l | 12 | 3.5 | 5 |
| Chloromethane | ND | | ug/l | 12 | 3.5 | 5 |
| Bromomethane | ND | | ug/l | 12 | 3.5 | 5 |
| Vinyl chloride | ND | | ug/l | 5.0 | 0.36 | 5 |
| Chloroethane | ND | | ug/l | 12 | 3.5 | 5 |
| 1,1-Dichloroethene | ND | | ug/l | 2.5 | 0.84 | 5 |
| trans-1,2-Dichloroethene | ND | | ug/l | 12 | 3.5 | 5 |

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925743

Project Number: 170329301

Report Date: 06/21/19

SAMPLE RESULTS

Lab ID: L1925743-03 D

Date Collected: 06/14/19 11:15

Client ID: MW-6_061419

Date Received: 06/14/19

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 420 | | ug/l | 2.5 | 0.88 | 5 |
| 1,2-Dichlorobenzene | ND | | ug/l | 12 | 3.5 | 5 |
| 1,3-Dichlorobenzene | ND | | ug/l | 12 | 3.5 | 5 |
| 1,4-Dichlorobenzene | ND | | ug/l | 12 | 3.5 | 5 |
| Methyl tert butyl ether | ND | | ug/l | 12 | 3.5 | 5 |
| p/m-Xylene | ND | | ug/l | 12 | 3.5 | 5 |
| o-Xylene | ND | | ug/l | 12 | 3.5 | 5 |
| Xylenes, Total | ND | | ug/l | 12 | 3.5 | 5 |
| cis-1,2-Dichloroethene | 14 | | ug/l | 12 | 3.5 | 5 |
| 1,2-Dichloroethene, Total | 14 | | ug/l | 12 | 3.5 | 5 |
| Dibromomethane | ND | | ug/l | 25 | 5.0 | 5 |
| 1,2,3-Trichloropropane | ND | | ug/l | 12 | 3.5 | 5 |
| Acrylonitrile | ND | | ug/l | 25 | 7.5 | 5 |
| Styrene | ND | | ug/l | 12 | 3.5 | 5 |
| Dichlorodifluoromethane | ND | | ug/l | 25 | 5.0 | 5 |
| Acetone | ND | | ug/l | 25 | 7.3 | 5 |
| Carbon disulfide | ND | | ug/l | 25 | 5.0 | 5 |
| 2-Butanone | ND | | ug/l | 25 | 9.7 | 5 |
| Vinyl acetate | ND | | ug/l | 25 | 5.0 | 5 |
| 4-Methyl-2-pentanone | ND | | ug/l | 25 | 5.0 | 5 |
| 2-Hexanone | ND | | ug/l | 25 | 5.0 | 5 |
| Bromochloromethane | ND | | ug/l | 12 | 3.5 | 5 |
| 2,2-Dichloropropane | ND | | ug/l | 12 | 3.5 | 5 |
| 1,2-Dibromoethane | ND | | ug/l | 10 | 3.2 | 5 |
| 1,3-Dichloropropane | ND | | ug/l | 12 | 3.5 | 5 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 12 | 3.5 | 5 |
| Bromobenzene | ND | | ug/l | 12 | 3.5 | 5 |
| n-Butylbenzene | ND | | ug/l | 12 | 3.5 | 5 |
| sec-Butylbenzene | ND | | ug/l | 12 | 3.5 | 5 |
| tert-Butylbenzene | ND | | ug/l | 12 | 3.5 | 5 |
| o-Chlorotoluene | ND | | ug/l | 12 | 3.5 | 5 |
| p-Chlorotoluene | ND | | ug/l | 12 | 3.5 | 5 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 12 | 3.5 | 5 |
| Hexachlorobutadiene | ND | | ug/l | 12 | 3.5 | 5 |
| Isopropylbenzene | ND | | ug/l | 12 | 3.5 | 5 |
| p-Isopropyltoluene | ND | | ug/l | 12 | 3.5 | 5 |
| Naphthalene | ND | | ug/l | 12 | 3.5 | 5 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

SAMPLE RESULTS

Lab ID: L1925743-03 D
 Client ID: MW-6_061419
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 11:15
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 12 | 3.5 | 5 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 12 | 3.5 | 5 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 12 | 3.5 | 5 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 12 | 3.5 | 5 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 12 | 3.5 | 5 |
| 1,4-Dioxane | ND | | ug/l | 1200 | 300 | 5 |
| p-Diethylbenzene | ND | | ug/l | 10 | 3.5 | 5 |
| p-Ethyltoluene | ND | | ug/l | 10 | 3.5 | 5 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 10 | 2.7 | 5 |
| Ethyl ether | ND | | ug/l | 12 | 3.5 | 5 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 12 | 3.5 | 5 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 100 | | 70-130 |
| Toluene-d8 | 93 | | 70-130 |
| 4-Bromofluorobenzene | 98 | | 70-130 |
| Dibromofluoromethane | 107 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

SAMPLE RESULTS

Lab ID: L1925743-04 D
 Client ID: MW-19_061419
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 11:45
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/21/19 09:35
 Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 50 | 14. | 20 |
| 1,1-Dichloroethane | ND | | ug/l | 50 | 14. | 20 |
| Chloroform | ND | | ug/l | 50 | 14. | 20 |
| Carbon tetrachloride | ND | | ug/l | 10 | 2.7 | 20 |
| 1,2-Dichloropropane | ND | | ug/l | 20 | 2.7 | 20 |
| Dibromochloromethane | ND | | ug/l | 10 | 3.0 | 20 |
| 1,1,2-Trichloroethane | ND | | ug/l | 30 | 10. | 20 |
| Tetrachloroethene | 3200 | | ug/l | 10 | 3.6 | 20 |
| Chlorobenzene | ND | | ug/l | 50 | 14. | 20 |
| Trichlorofluoromethane | ND | | ug/l | 50 | 14. | 20 |
| 1,2-Dichloroethane | ND | | ug/l | 10 | 2.6 | 20 |
| 1,1,1-Trichloroethane | ND | | ug/l | 50 | 14. | 20 |
| Bromodichloromethane | ND | | ug/l | 10 | 3.8 | 20 |
| trans-1,3-Dichloropropene | ND | | ug/l | 10 | 3.3 | 20 |
| cis-1,3-Dichloropropene | ND | | ug/l | 10 | 2.9 | 20 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 10 | 2.9 | 20 |
| 1,1-Dichloropropene | ND | | ug/l | 50 | 14. | 20 |
| Bromoform | ND | | ug/l | 40 | 13. | 20 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 10 | 3.3 | 20 |
| Benzene | ND | | ug/l | 10 | 3.2 | 20 |
| Toluene | ND | | ug/l | 50 | 14. | 20 |
| Ethylbenzene | ND | | ug/l | 50 | 14. | 20 |
| Chloromethane | ND | | ug/l | 50 | 14. | 20 |
| Bromomethane | ND | | ug/l | 50 | 14. | 20 |
| Vinyl chloride | ND | | ug/l | 20 | 1.4 | 20 |
| Chloroethane | ND | | ug/l | 50 | 14. | 20 |
| 1,1-Dichloroethene | ND | | ug/l | 10 | 3.4 | 20 |
| trans-1,2-Dichloroethene | ND | | ug/l | 50 | 14. | 20 |

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925743

Project Number: 170329301

Report Date: 06/21/19

SAMPLE RESULTS

Lab ID: L1925743-04 D

Date Collected: 06/14/19 11:45

Client ID: MW-19_061419

Date Received: 06/14/19

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 2400 | | ug/l | 10 | 3.5 | 20 |
| 1,2-Dichlorobenzene | ND | | ug/l | 50 | 14. | 20 |
| 1,3-Dichlorobenzene | ND | | ug/l | 50 | 14. | 20 |
| 1,4-Dichlorobenzene | ND | | ug/l | 50 | 14. | 20 |
| Methyl tert butyl ether | ND | | ug/l | 50 | 14. | 20 |
| p/m-Xylene | ND | | ug/l | 50 | 14. | 20 |
| o-Xylene | ND | | ug/l | 50 | 14. | 20 |
| Xylenes, Total | ND | | ug/l | 50 | 14. | 20 |
| cis-1,2-Dichloroethene | 45 | J | ug/l | 50 | 14. | 20 |
| 1,2-Dichloroethene, Total | 45 | J | ug/l | 50 | 14. | 20 |
| Dibromomethane | ND | | ug/l | 100 | 20. | 20 |
| 1,2,3-Trichloropropane | ND | | ug/l | 50 | 14. | 20 |
| Acrylonitrile | ND | | ug/l | 100 | 30. | 20 |
| Styrene | ND | | ug/l | 50 | 14. | 20 |
| Dichlorodifluoromethane | ND | | ug/l | 100 | 20. | 20 |
| Acetone | ND | | ug/l | 100 | 29. | 20 |
| Carbon disulfide | ND | | ug/l | 100 | 20. | 20 |
| 2-Butanone | ND | | ug/l | 100 | 39. | 20 |
| Vinyl acetate | ND | | ug/l | 100 | 20. | 20 |
| 4-Methyl-2-pentanone | ND | | ug/l | 100 | 20. | 20 |
| 2-Hexanone | ND | | ug/l | 100 | 20. | 20 |
| Bromochloromethane | ND | | ug/l | 50 | 14. | 20 |
| 2,2-Dichloropropane | ND | | ug/l | 50 | 14. | 20 |
| 1,2-Dibromoethane | ND | | ug/l | 40 | 13. | 20 |
| 1,3-Dichloropropane | ND | | ug/l | 50 | 14. | 20 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 50 | 14. | 20 |
| Bromobenzene | ND | | ug/l | 50 | 14. | 20 |
| n-Butylbenzene | ND | | ug/l | 50 | 14. | 20 |
| sec-Butylbenzene | ND | | ug/l | 50 | 14. | 20 |
| tert-Butylbenzene | ND | | ug/l | 50 | 14. | 20 |
| o-Chlorotoluene | ND | | ug/l | 50 | 14. | 20 |
| p-Chlorotoluene | ND | | ug/l | 50 | 14. | 20 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 50 | 14. | 20 |
| Hexachlorobutadiene | ND | | ug/l | 50 | 14. | 20 |
| Isopropylbenzene | ND | | ug/l | 50 | 14. | 20 |
| p-Isopropyltoluene | ND | | ug/l | 50 | 14. | 20 |
| Naphthalene | ND | | ug/l | 50 | 14. | 20 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

SAMPLE RESULTS

Lab ID: L1925743-04 D
 Client ID: MW-19_061419
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 11:45
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 50 | 14. | 20 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 50 | 14. | 20 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 50 | 14. | 20 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 50 | 14. | 20 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 50 | 14. | 20 |
| 1,4-Dioxane | ND | | ug/l | 5000 | 1200 | 20 |
| p-Diethylbenzene | ND | | ug/l | 40 | 14. | 20 |
| p-Ethyltoluene | ND | | ug/l | 40 | 14. | 20 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 40 | 11. | 20 |
| Ethyl ether | ND | | ug/l | 50 | 14. | 20 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 50 | 14. | 20 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 105 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 84 | | 70-130 |
| Dibromofluoromethane | 111 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

SAMPLE RESULTS

Lab ID: L1925743-05
 Client ID: GWTB02_061419
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 00:00
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/20/19 11:55
 Analyst: KJD

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

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925743

Project Number: 170329301

Report Date: 06/21/19

SAMPLE RESULTS

Lab ID: L1925743-05
 Client ID: GWTB02_061419
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 00:00
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

SAMPLE RESULTS

Lab ID: L1925743-05
Client ID: GWTB02_061419
Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 00:00
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 98 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 97 | | 70-130 |
| Dibromofluoromethane | 107 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/20/19 08:39
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,05 Batch: WG1250978-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/20/19 08:39
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,05 Batch: WG1250978-5 | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/20/19 08:39
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,05 Batch: WG1250978-5 | | | | | |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 95 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 101 | | 70-130 |
| Dibromofluoromethane | 105 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/19/19 20:24
Analyst: PK

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1251011-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/19/19 20:24
Analyst: PK

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1251011-5 | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/19/19 20:24
Analyst: PK

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1251011-5 | | | | | |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 97 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 102 | | 70-130 |
| Dibromofluoromethane | 104 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/19 08:44
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1251477-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/19 08:44
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1251477-5 | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/21/19 08:44
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1251477-5 | | | | | |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 106 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 84 | | 70-130 |
| Dibromofluoromethane | 110 | | 70-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925743

Project Number: 170329301

Report Date: 06/21/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG1250978-3 WG1250978-4 | | | | | | | | |
| Methylene chloride | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1-Dichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Chloroform | 100 | | 110 | | 70-130 | 10 | | 20 |
| Carbon tetrachloride | 110 | | 110 | | 63-132 | 0 | | 20 |
| 1,2-Dichloropropane | 100 | | 110 | | 70-130 | 10 | | 20 |
| Dibromochloromethane | 97 | | 98 | | 63-130 | 1 | | 20 |
| 1,1,2-Trichloroethane | 96 | | 98 | | 70-130 | 2 | | 20 |
| Tetrachloroethene | 94 | | 100 | | 70-130 | 6 | | 20 |
| Chlorobenzene | 95 | | 97 | | 75-130 | 2 | | 20 |
| Trichlorofluoromethane | 100 | | 110 | | 62-150 | 10 | | 20 |
| 1,2-Dichloroethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 100 | | 110 | | 67-130 | 10 | | 20 |
| Bromodichloromethane | 100 | | 100 | | 67-130 | 0 | | 20 |
| trans-1,3-Dichloropropene | 96 | | 98 | | 70-130 | 2 | | 20 |
| cis-1,3-Dichloropropene | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,1-Dichloropropene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Bromoform | 91 | | 90 | | 54-136 | 1 | | 20 |
| 1,1,1,2-Tetrachloroethane | 95 | | 95 | | 67-130 | 0 | | 20 |
| Benzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Toluene | 96 | | 98 | | 70-130 | 2 | | 20 |
| Ethylbenzene | 96 | | 100 | | 70-130 | 4 | | 20 |
| Chloromethane | 97 | | 97 | | 64-130 | 0 | | 20 |
| Bromomethane | 140 | Q | 130 | | 39-139 | 7 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925743

Project Number: 170329301

Report Date: 06/21/19

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|---|-----------|------|-----------|------|------------------|-----|------|------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG1250978-3 WG1250978-4 | | | | | | | | |
| Vinyl chloride | 100 | | 100 | | 55-140 | 0 | | 20 |
| Chloroethane | 100 | | 100 | | 55-138 | 0 | | 20 |
| 1,1-Dichloroethene | 110 | | 110 | | 61-145 | 0 | | 20 |
| trans-1,2-Dichloroethene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Trichloroethene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 95 | | 94 | | 70-130 | 1 | | 20 |
| 1,3-Dichlorobenzene | 96 | | 96 | | 70-130 | 0 | | 20 |
| 1,4-Dichlorobenzene | 93 | | 94 | | 70-130 | 1 | | 20 |
| Methyl tert butyl ether | 91 | | 110 | | 63-130 | 19 | | 20 |
| p/m-Xylene | 95 | | 100 | | 70-130 | 5 | | 20 |
| o-Xylene | 95 | | 100 | | 70-130 | 5 | | 20 |
| cis-1,2-Dichloroethene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Dibromomethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2,3-Trichloropropane | 94 | | 94 | | 64-130 | 0 | | 20 |
| Acrylonitrile | 120 | | 110 | | 70-130 | 9 | | 20 |
| Styrene | 95 | | 95 | | 70-130 | 0 | | 20 |
| Dichlorodifluoromethane | 100 | | 100 | | 36-147 | 0 | | 20 |
| Acetone | 140 | | 120 | | 58-148 | 15 | | 20 |
| Carbon disulfide | 110 | | 110 | | 51-130 | 0 | | 20 |
| 2-Butanone | 120 | | 110 | | 63-138 | 9 | | 20 |
| Vinyl acetate | 100 | | 100 | | 70-130 | 0 | | 20 |
| 4-Methyl-2-pentanone | 100 | | 98 | | 59-130 | 2 | | 20 |
| 2-Hexanone | 100 | | 96 | | 57-130 | 4 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925743

Project Number: 170329301

Report Date: 06/21/19

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|---|-----------|------|-----------|------|------------------|-----|------|------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG1250978-3 WG1250978-4 | | | | | | | | |
| Bromochloromethane | 120 | | 120 | | 70-130 | 0 | | 20 |
| 2,2-Dichloropropane | 110 | | 120 | | 63-133 | 9 | | 20 |
| 1,2-Dibromoethane | 95 | | 99 | | 70-130 | 4 | | 20 |
| 1,3-Dichloropropane | 95 | | 97 | | 70-130 | 2 | | 20 |
| 1,1,1,2-Tetrachloroethane | 95 | | 96 | | 64-130 | 1 | | 20 |
| Bromobenzene | 95 | | 95 | | 70-130 | 0 | | 20 |
| n-Butylbenzene | 96 | | 99 | | 53-136 | 3 | | 20 |
| sec-Butylbenzene | 90 | | 88 | | 70-130 | 2 | | 20 |
| tert-Butylbenzene | 95 | | 98 | | 70-130 | 3 | | 20 |
| o-Chlorotoluene | 110 | | 120 | | 70-130 | 9 | | 20 |
| p-Chlorotoluene | 95 | | 97 | | 70-130 | 2 | | 20 |
| 1,2-Dibromo-3-chloropropane | 97 | | 94 | | 41-144 | 3 | | 20 |
| Hexachlorobutadiene | 100 | | 96 | | 63-130 | 4 | | 20 |
| Isopropylbenzene | 96 | | 99 | | 70-130 | 3 | | 20 |
| p-Isopropyltoluene | 98 | | 100 | | 70-130 | 2 | | 20 |
| Naphthalene | 96 | | 95 | | 70-130 | 1 | | 20 |
| n-Propylbenzene | 95 | | 99 | | 69-130 | 4 | | 20 |
| 1,2,3-Trichlorobenzene | 95 | | 94 | | 70-130 | 1 | | 20 |
| 1,2,4-Trichlorobenzene | 96 | | 97 | | 70-130 | 1 | | 20 |
| 1,3,5-Trimethylbenzene | 95 | | 98 | | 64-130 | 3 | | 20 |
| 1,2,4-Trimethylbenzene | 96 | | 99 | | 70-130 | 3 | | 20 |
| 1,4-Dioxane | 170 | Q | 154 | | 56-162 | 10 | | 20 |
| p-Diethylbenzene | 97 | | 98 | | 70-130 | 1 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVENUE

Project Number: 170329301

Lab Number: L1925743

Report Date: 06/21/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG1250978-3 WG1250978-4 | | | | | | | | |
| p-Ethyltoluene | 98 | | 100 | | 70-130 | 2 | | 20 |
| 1,2,4,5-Tetramethylbenzene | 94 | | 98 | | 70-130 | 4 | | 20 |
| Ethyl ether | 110 | | 110 | | 59-134 | 0 | | 20 |
| trans-1,4-Dichloro-2-butene | 88 | | 96 | | 70-130 | 9 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| 1,2-Dichloroethane-d4 | 98 | | 95 | | 70-130 |
| Toluene-d8 | 93 | | 96 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 98 | | 70-130 |
| Dibromofluoromethane | 100 | | 101 | | 70-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925743

Project Number: 170329301

Report Date: 06/21/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1251011-3 WG1251011-4 | | | | | | | | |
| Methylene chloride | 100 | | 96 | | 70-130 | 4 | | 20 |
| 1,1-Dichloroethane | 99 | | 99 | | 70-130 | 0 | | 20 |
| Chloroform | 100 | | 100 | | 70-130 | 0 | | 20 |
| Carbon tetrachloride | 100 | | 98 | | 63-132 | 2 | | 20 |
| 1,2-Dichloropropane | 99 | | 97 | | 70-130 | 2 | | 20 |
| Dibromochloromethane | 96 | | 90 | | 63-130 | 6 | | 20 |
| 1,1,2-Trichloroethane | 92 | | 88 | | 70-130 | 4 | | 20 |
| Tetrachloroethene | 94 | | 87 | | 70-130 | 8 | | 20 |
| Chlorobenzene | 94 | | 89 | | 75-130 | 5 | | 20 |
| Trichlorofluoromethane | 94 | | 89 | | 62-150 | 5 | | 20 |
| 1,2-Dichloroethane | 99 | | 99 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 100 | | 95 | | 67-130 | 5 | | 20 |
| Bromodichloromethane | 100 | | 96 | | 67-130 | 4 | | 20 |
| trans-1,3-Dichloropropene | 90 | | 88 | | 70-130 | 2 | | 20 |
| cis-1,3-Dichloropropene | 98 | | 94 | | 70-130 | 4 | | 20 |
| 1,1-Dichloropropene | 98 | | 91 | | 70-130 | 7 | | 20 |
| Bromoform | 90 | | 88 | | 54-136 | 2 | | 20 |
| 1,1,1,2,2-Tetrachloroethane | 91 | | 86 | | 67-130 | 6 | | 20 |
| Benzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Toluene | 93 | | 86 | | 70-130 | 8 | | 20 |
| Ethylbenzene | 93 | | 87 | | 70-130 | 7 | | 20 |
| Chloromethane | 91 | | 85 | | 64-130 | 7 | | 20 |
| Bromomethane | 78 | | 82 | | 39-139 | 5 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925743

Project Number: 170329301

Report Date: 06/21/19

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|---|-----------|------|-----------|------|------------------|-----|------|------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1251011-3 WG1251011-4 | | | | | | | | |
| Vinyl chloride | 92 | | 84 | | 55-140 | 9 | | 20 |
| Chloroethane | 92 | | 85 | | 55-138 | 8 | | 20 |
| 1,1-Dichloroethene | 97 | | 95 | | 61-145 | 2 | | 20 |
| trans-1,2-Dichloroethene | 100 | | 97 | | 70-130 | 3 | | 20 |
| Trichloroethene | 100 | | 97 | | 70-130 | 3 | | 20 |
| 1,2-Dichlorobenzene | 90 | | 88 | | 70-130 | 2 | | 20 |
| 1,3-Dichlorobenzene | 94 | | 88 | | 70-130 | 7 | | 20 |
| 1,4-Dichlorobenzene | 90 | | 88 | | 70-130 | 2 | | 20 |
| Methyl tert butyl ether | 89 | | 95 | | 63-130 | 7 | | 20 |
| p/m-Xylene | 90 | | 90 | | 70-130 | 0 | | 20 |
| o-Xylene | 90 | | 90 | | 70-130 | 0 | | 20 |
| cis-1,2-Dichloroethene | 100 | | 98 | | 70-130 | 2 | | 20 |
| Dibromomethane | 95 | | 96 | | 70-130 | 1 | | 20 |
| 1,2,3-Trichloropropane | 87 | | 86 | | 64-130 | 1 | | 20 |
| Acrylonitrile | 100 | | 100 | | 70-130 | 0 | | 20 |
| Styrene | 90 | | 85 | | 70-130 | 6 | | 20 |
| Dichlorodifluoromethane | 95 | | 85 | | 36-147 | 11 | | 20 |
| Acetone | 120 | | 120 | | 58-148 | 0 | | 20 |
| Carbon disulfide | 98 | | 92 | | 51-130 | 6 | | 20 |
| 2-Butanone | 100 | | 91 | | 63-138 | 9 | | 20 |
| Vinyl acetate | 94 | | 92 | | 70-130 | 2 | | 20 |
| 4-Methyl-2-pentanone | 90 | | 85 | | 59-130 | 6 | | 20 |
| 2-Hexanone | 87 | | 87 | | 57-130 | 0 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925743

Project Number: 170329301

Report Date: 06/21/19

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|---|-----------|------|-----------|------|------------------|-----|------|------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1251011-3 WG1251011-4 | | | | | | | | |
| Bromochloromethane | 110 | | 100 | | 70-130 | 10 | | 20 |
| 2,2-Dichloropropane | 93 | | 92 | | 63-133 | 1 | | 20 |
| 1,2-Dibromoethane | 90 | | 91 | | 70-130 | 1 | | 20 |
| 1,3-Dichloropropane | 92 | | 88 | | 70-130 | 4 | | 20 |
| 1,1,1,2-Tetrachloroethane | 92 | | 90 | | 64-130 | 2 | | 20 |
| Bromobenzene | 93 | | 93 | | 70-130 | 0 | | 20 |
| n-Butylbenzene | 89 | | 87 | | 53-136 | 2 | | 20 |
| sec-Butylbenzene | 81 | | 78 | | 70-130 | 4 | | 20 |
| tert-Butylbenzene | 90 | | 87 | | 70-130 | 3 | | 20 |
| o-Chlorotoluene | 110 | | 110 | | 70-130 | 0 | | 20 |
| p-Chlorotoluene | 92 | | 89 | | 70-130 | 3 | | 20 |
| 1,2-Dibromo-3-chloropropane | 89 | | 84 | | 41-144 | 6 | | 20 |
| Hexachlorobutadiene | 91 | | 85 | | 63-130 | 7 | | 20 |
| Isopropylbenzene | 94 | | 90 | | 70-130 | 4 | | 20 |
| p-Isopropyltoluene | 93 | | 90 | | 70-130 | 3 | | 20 |
| Naphthalene | 86 | | 84 | | 70-130 | 2 | | 20 |
| n-Propylbenzene | 91 | | 88 | | 69-130 | 3 | | 20 |
| 1,2,3-Trichlorobenzene | 88 | | 85 | | 70-130 | 3 | | 20 |
| 1,2,4-Trichlorobenzene | 90 | | 89 | | 70-130 | 1 | | 20 |
| 1,3,5-Trimethylbenzene | 94 | | 90 | | 64-130 | 4 | | 20 |
| 1,2,4-Trimethylbenzene | 93 | | 92 | | 70-130 | 1 | | 20 |
| 1,4-Dioxane | 148 | | 142 | | 56-162 | 4 | | 20 |
| p-Diethylbenzene | 92 | | 87 | | 70-130 | 6 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVENUE

Project Number: 170329301

Lab Number: L1925743

Report Date: 06/21/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1251011-3 WG1251011-4 | | | | | | | | |
| p-Ethyltoluene | 96 | | 91 | | 70-130 | 5 | | 20 |
| 1,2,4,5-Tetramethylbenzene | 89 | | 90 | | 70-130 | 1 | | 20 |
| Ethyl ether | 98 | | 94 | | 59-134 | 4 | | 20 |
| trans-1,4-Dichloro-2-butene | 90 | | 88 | | 70-130 | 2 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| 1,2-Dichloroethane-d4 | 101 | | 101 | | 70-130 |
| Toluene-d8 | 97 | | 96 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 100 | | 70-130 |
| Dibromofluoromethane | 103 | | 104 | | 70-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925743

Project Number: 170329301

Report Date: 06/21/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1251477-3 WG1251477-4 | | | | | | | | |
| Methylene chloride | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1-Dichloroethane | 99 | | 97 | | 70-130 | 2 | | 20 |
| Chloroform | 110 | | 110 | | 70-130 | 0 | | 20 |
| Carbon tetrachloride | 120 | | 120 | | 63-132 | 0 | | 20 |
| 1,2-Dichloropropane | 92 | | 90 | | 70-130 | 2 | | 20 |
| Dibromochloromethane | 100 | | 100 | | 63-130 | 0 | | 20 |
| 1,1,2-Trichloroethane | 96 | | 92 | | 70-130 | 4 | | 20 |
| Tetrachloroethene | 120 | | 120 | | 70-130 | 0 | | 20 |
| Chlorobenzene | 110 | | 100 | | 75-130 | 10 | | 20 |
| Trichlorofluoromethane | 140 | | 130 | | 62-150 | 7 | | 20 |
| 1,2-Dichloroethane | 110 | | 100 | | 70-130 | 10 | | 20 |
| 1,1,1-Trichloroethane | 110 | | 110 | | 67-130 | 0 | | 20 |
| Bromodichloromethane | 100 | | 100 | | 67-130 | 0 | | 20 |
| trans-1,3-Dichloropropene | 91 | | 87 | | 70-130 | 4 | | 20 |
| cis-1,3-Dichloropropene | 96 | | 94 | | 70-130 | 2 | | 20 |
| 1,1-Dichloropropene | 100 | | 99 | | 70-130 | 1 | | 20 |
| Bromoform | 89 | | 84 | | 54-136 | 6 | | 20 |
| 1,1,2,2-Tetrachloroethane | 86 | | 82 | | 67-130 | 5 | | 20 |
| Benzene | 99 | | 98 | | 70-130 | 1 | | 20 |
| Toluene | 98 | | 98 | | 70-130 | 0 | | 20 |
| Ethylbenzene | 99 | | 98 | | 70-130 | 1 | | 20 |
| Chloromethane | 74 | | 72 | | 64-130 | 3 | | 20 |
| Bromomethane | 130 | | 130 | | 39-139 | 0 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925743

Project Number: 170329301

Report Date: 06/21/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1251477-3 WG1251477-4 | | | | | | | | |
| Vinyl chloride | 93 | | 92 | | 55-140 | 1 | | 20 |
| Chloroethane | 110 | | 110 | | 55-138 | 0 | | 20 |
| 1,1-Dichloroethene | 110 | | 100 | | 61-145 | 10 | | 20 |
| trans-1,2-Dichloroethene | 110 | | 100 | | 70-130 | 10 | | 20 |
| Trichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,3-Dichlorobenzene | 110 | | 100 | | 70-130 | 10 | | 20 |
| 1,4-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Methyl tert butyl ether | 100 | | 93 | | 63-130 | 7 | | 20 |
| p/m-Xylene | 105 | | 105 | | 70-130 | 0 | | 20 |
| o-Xylene | 105 | | 105 | | 70-130 | 0 | | 20 |
| cis-1,2-Dichloroethene | 110 | | 100 | | 70-130 | 10 | | 20 |
| Dibromomethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2,3-Trichloropropane | 90 | | 86 | | 64-130 | 5 | | 20 |
| Acrylonitrile | 97 | | 92 | | 70-130 | 5 | | 20 |
| Styrene | 110 | | 105 | | 70-130 | 5 | | 20 |
| Dichlorodifluoromethane | 100 | | 96 | | 36-147 | 4 | | 20 |
| Acetone | 100 | | 94 | | 58-148 | 6 | | 20 |
| Carbon disulfide | 92 | | 89 | | 51-130 | 3 | | 20 |
| 2-Butanone | 100 | | 93 | | 63-138 | 7 | | 20 |
| Vinyl acetate | 98 | | 93 | | 70-130 | 5 | | 20 |
| 4-Methyl-2-pentanone | 82 | | 76 | | 59-130 | 8 | | 20 |
| 2-Hexanone | 74 | | 67 | | 57-130 | 10 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925743

Project Number: 170329301

Report Date: 06/21/19

| Parameter | LCS | Qual | LCS | Qual | %Recovery | RPD | Qual | RPD |
|--|-----------|------|-----------|------|-----------|-----|------|--------|
| | %Recovery | | %Recovery | | Limits | | | Limits |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1251477-3 WG1251477-4 | | | | | | | | |
| Bromochloromethane | 130 | | 120 | | 70-130 | 8 | | 20 |
| 2,2-Dichloropropane | 110 | | 100 | | 63-133 | 10 | | 20 |
| 1,2-Dibromoethane | 100 | | 99 | | 70-130 | 1 | | 20 |
| 1,3-Dichloropropane | 95 | | 91 | | 70-130 | 4 | | 20 |
| 1,1,1,2-Tetrachloroethane | 110 | | 110 | | 64-130 | 0 | | 20 |
| Bromobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| n-Butylbenzene | 93 | | 90 | | 53-136 | 3 | | 20 |
| sec-Butylbenzene | 97 | | 94 | | 70-130 | 3 | | 20 |
| tert-Butylbenzene | 100 | | 98 | | 70-130 | 2 | | 20 |
| o-Chlorotoluene | 93 | | 90 | | 70-130 | 3 | | 20 |
| p-Chlorotoluene | 92 | | 91 | | 70-130 | 1 | | 20 |
| 1,2-Dibromo-3-chloropropane | 90 | | 86 | | 41-144 | 5 | | 20 |
| Hexachlorobutadiene | 110 | | 100 | | 63-130 | 10 | | 20 |
| Isopropylbenzene | 96 | | 95 | | 70-130 | 1 | | 20 |
| p-Isopropyltoluene | 100 | | 98 | | 70-130 | 2 | | 20 |
| Naphthalene | 95 | | 86 | | 70-130 | 10 | | 20 |
| n-Propylbenzene | 92 | | 91 | | 69-130 | 1 | | 20 |
| 1,2,3-Trichlorobenzene | 100 | | 93 | | 70-130 | 7 | | 20 |
| 1,2,4-Trichlorobenzene | 100 | | 97 | | 70-130 | 3 | | 20 |
| 1,3,5-Trimethylbenzene | 97 | | 96 | | 64-130 | 1 | | 20 |
| 1,2,4-Trimethylbenzene | 97 | | 95 | | 70-130 | 2 | | 20 |
| 1,4-Dioxane | 146 | | 132 | | 56-162 | 10 | | 20 |
| p-Diethylbenzene | 100 | | 96 | | 70-130 | 4 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVENUE

Project Number: 170329301

Lab Number: L1925743

Report Date: 06/21/19

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | RPD | |
|--|-----------|------|-----------|------|------------------|-----|------|--------|
| | %Recovery | Qual | %Recovery | Qual | | | Qual | Limits |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1251477-3 WG1251477-4 | | | | | | | | |
| p-Ethyltoluene | 95 | | 94 | | 70-130 | 1 | | 20 |
| 1,2,4,5-Tetramethylbenzene | 94 | | 91 | | 70-130 | 3 | | 20 |
| Ethyl ether | 120 | | 110 | | 59-134 | 9 | | 20 |
| trans-1,4-Dichloro-2-butene | 76 | | 70 | | 70-130 | 8 | | 20 |

| Surrogate | LCS | | LCSD | | Acceptance Criteria |
|-----------------------|-----------|------|-----------|------|---------------------|
| | %Recovery | Qual | %Recovery | Qual | |
| 1,2-Dichloroethane-d4 | 112 | | 109 | | 70-130 |
| Toluene-d8 | 98 | | 99 | | 70-130 |
| 4-Bromofluorobenzene | 84 | | 84 | | 70-130 |
| Dibromofluoromethane | 112 | | 112 | | 70-130 |

Project Name: 491 WORTMAN AVENUE**Lab Number:** L1925743**Project Number:** 170329301**Report Date:** 06/21/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

| Cooler | Custody Seal |
|---------------|---------------------|
| A | Absent |

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|-----------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|--------------------|
| L1925743-01A | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L1925743-01B | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L1925743-01C | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L1925743-02A | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L1925743-02B | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L1925743-02C | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L1925743-03A | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L1925743-03B | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L1925743-03C | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L1925743-04A | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L1925743-04B | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L1925743-04C | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L1925743-05A | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |
| L1925743-05B | Vial HCl preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260(14) |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

GLOSSARY

Acronyms

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

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

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

Terms

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

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

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925743
Report Date: 06/21/19

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L1925618 |
| Client: | Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727 |
| ATTN: | James Robinson |
| Phone: | (212) 479-5400 |
| Project Name: | 491 WORTMAN AVENUE |
| Project Number: | 170329301 |
| Report Date: | 06/20/19 |

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

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



Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L1925618-01 | MW-2_061319 | WATER | BROOKLYN, NY | 06/13/19 12:21 | 06/13/19 |
| L1925618-02 | PZ-2_061319 | WATER | BROOKLYN, NY | 06/13/19 12:15 | 06/13/19 |
| L1925618-03 | MW-9_061319 | WATER | BROOKLYN, NY | 06/13/19 13:30 | 06/13/19 |
| L1925618-04 | MW-1_061319 | WATER | BROOKLYN, NY | 06/13/19 13:27 | 06/13/19 |
| L1925618-05 | MW-16_061319 | WATER | BROOKLYN, NY | 06/13/19 14:15 | 06/13/19 |
| L1925618-06 | MW-10_061319 | WATER | BROOKLYN, NY | 06/13/19 14:45 | 06/13/19 |
| L1925618-07 | MW-11_061319 | WATER | BROOKLYN, NY | 06/13/19 15:45 | 06/13/19 |
| L1925618-08 | MW-3AS_061319 | WATER | BROOKLYN, NY | 06/13/19 14:17 | 06/13/19 |
| L1925618-09 | MW-7_061319 | WATER | BROOKLYN, NY | 06/13/19 15:14 | 06/13/19 |
| L1925618-10 | GWFB01_061319 | WATER | BROOKLYN, NY | 06/13/19 16:00 | 06/13/19 |
| L1925618-11 | GWTB01_061319 | WATER | BROOKLYN, NY | 06/13/19 00:00 | 06/13/19 |
| L1925618-12 | MW-17_061319 | WATER | BROOKLYN, NY | 06/13/19 16:04 | 06/13/19 |
| L1925618-13 | GWDUP01_061319 | WATER | BROOKLYN, NY | 06/13/19 00:00 | 06/13/19 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

Case Narrative

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

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

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

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

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

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

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

Case Narrative (continued)

Report Submission

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

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

Authorized Signature:

 Amita Naik

Title: Technical Director/Representative

Date: 06/20/19

ORGANICS

VOLATILES

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-01
Client ID: MW-2_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 12:21
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/19/19 00:09
Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 0.28 | J | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-01
Client ID: MW-2_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 12:21
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.42 | J | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 4.2 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-01
Client ID: MW-2_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 12:21
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 108 | | 70-130 |
| Toluene-d8 | 92 | | 70-130 |
| 4-Bromofluorobenzene | 85 | | 70-130 |
| Dibromofluoromethane | 109 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-02
Client ID: PZ-2_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 12:15
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/19/19 00:34
Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 2.4 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925618

Project Number: 170329301

Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-02
 Client ID: PZ-2_061319
 Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 12:15
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.75 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-02
Client ID: PZ-2_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 12:15
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 107 | | 70-130 |
| Toluene-d8 | 92 | | 70-130 |
| 4-Bromofluorobenzene | 84 | | 70-130 |
| Dibromofluoromethane | 110 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-03
 Client ID: MW-9_061319
 Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 13:30
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/19/19 00:59
 Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 0.79 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-03
Client ID: MW-9_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 13:30
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.29 | J | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-03
Client ID: MW-9_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 13:30
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 111 | | 70-130 |
| Toluene-d8 | 92 | | 70-130 |
| 4-Bromofluorobenzene | 83 | | 70-130 |
| Dibromofluoromethane | 110 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-04
Client ID: MW-1_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 13:27
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/19/19 01:25
Analyst: NLK

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

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925618

Project Number: 170329301

Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-04
 Client ID: MW-1_061319
 Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 13:27
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.19 | J | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-04
Client ID: MW-1_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 13:27
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 106 | | 70-130 |
| Toluene-d8 | 93 | | 70-130 |
| 4-Bromofluorobenzene | 84 | | 70-130 |
| Dibromofluoromethane | 110 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-05
 Client ID: MW-16_061319
 Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 14:15
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/19/19 01:50
 Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 1.2 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925618

Project Number: 170329301

Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-05
 Client ID: MW-16_061319
 Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 14:15
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.71 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | 0.91 | J | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | 0.91 | J | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.1 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-05
 Client ID: MW-16_061319
 Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 14:15
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 109 | | 70-130 |
| Toluene-d8 | 92 | | 70-130 |
| 4-Bromofluorobenzene | 85 | | 70-130 |
| Dibromofluoromethane | 110 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-06
 Client ID: MW-10_061319
 Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 14:45
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/19/19 02:15
 Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | 60 | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 0.55 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | 3.6 | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-06
Client ID: MW-10_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 14:45
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.24 | J | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-06
Client ID: MW-10_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 14:45
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 105 | | 70-130 |
| Toluene-d8 | 93 | | 70-130 |
| 4-Bromofluorobenzene | 85 | | 70-130 |
| Dibromofluoromethane | 112 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-07
Client ID: MW-11_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 15:45
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/19/19 02:40
Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | 20 | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 55 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | 1.5 | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-07
Client ID: MW-11_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 15:45
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 40 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | 1.2 | J | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | 1.2 | J | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-07
Client ID: MW-11_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 15:45
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 110 | | 70-130 |
| Toluene-d8 | 92 | | 70-130 |
| 4-Bromofluorobenzene | 84 | | 70-130 |
| Dibromofluoromethane | 113 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-08
 Client ID: MW-3AS_061319
 Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 14:17
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/19/19 03:06
 Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 0.27 | J | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-08
Client ID: MW-3AS_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 14:17
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.41 | J | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 1.5 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-08
 Client ID: MW-3AS_061319
 Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 14:17
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 109 | | 70-130 |
| Toluene-d8 | 93 | | 70-130 |
| 4-Bromofluorobenzene | 83 | | 70-130 |
| Dibromofluoromethane | 109 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-09
 Client ID: MW-7_061319
 Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 15:14
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/19/19 03:31
 Analyst: NLK

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

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-09
Client ID: MW-7_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 15:14
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.24 | J | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.5 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-09
Client ID: MW-7_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 15:14
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 107 | | 70-130 |
| Toluene-d8 | 92 | | 70-130 |
| 4-Bromofluorobenzene | 83 | | 70-130 |
| Dibromofluoromethane | 110 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-10
 Client ID: GWFB01_061319
 Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 16:00
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/18/19 21:13
 Analyst: PD

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

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-10
Client ID: GWFB01_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 16:00
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-10
Client ID: GWFB01_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 16:00
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 104 | | 70-130 |
| Toluene-d8 | 93 | | 70-130 |
| 4-Bromofluorobenzene | 85 | | 70-130 |
| Dibromofluoromethane | 107 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-11
Client ID: GWTB01_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 00:00
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/18/19 21:38
Analyst: PD

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

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-11
Client ID: GWTB01_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 00:00
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 3.4 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-11
Client ID: GWTB01_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 00:00
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 104 | | 70-130 |
| Toluene-d8 | 92 | | 70-130 |
| 4-Bromofluorobenzene | 86 | | 70-130 |
| Dibromofluoromethane | 108 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-12 D
 Client ID: MW-17_061319
 Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 16:04
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/19/19 04:21
 Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,1-Dichloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Chloroform | ND | | ug/l | 5.0 | 1.4 | 2 |
| Carbon tetrachloride | ND | | ug/l | 1.0 | 0.27 | 2 |
| 1,2-Dichloropropane | ND | | ug/l | 2.0 | 0.27 | 2 |
| Dibromochloromethane | ND | | ug/l | 1.0 | 0.30 | 2 |
| 1,1,2-Trichloroethane | ND | | ug/l | 3.0 | 1.0 | 2 |
| Tetrachloroethene | 220 | | ug/l | 1.0 | 0.36 | 2 |
| Chlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Trichlorofluoromethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dichloroethane | ND | | ug/l | 1.0 | 0.26 | 2 |
| 1,1,1-Trichloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromodichloromethane | ND | | ug/l | 1.0 | 0.38 | 2 |
| trans-1,3-Dichloropropene | ND | | ug/l | 1.0 | 0.33 | 2 |
| cis-1,3-Dichloropropene | ND | | ug/l | 1.0 | 0.29 | 2 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 1.0 | 0.29 | 2 |
| 1,1-Dichloropropene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromoform | ND | | ug/l | 4.0 | 1.3 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 1.0 | 0.33 | 2 |
| Benzene | ND | | ug/l | 1.0 | 0.32 | 2 |
| Toluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Ethylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Chloromethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromomethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Vinyl chloride | 0.25 | J | ug/l | 2.0 | 0.14 | 2 |
| Chloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,1-Dichloroethene | 0.45 | J | ug/l | 1.0 | 0.34 | 2 |
| trans-1,2-Dichloroethene | 1.8 | J | ug/l | 5.0 | 1.4 | 2 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-12 D
 Client ID: MW-17_061319
 Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 16:04
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 140 | | ug/l | 1.0 | 0.35 | 2 |
| 1,2-Dichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,3-Dichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,4-Dichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Methyl tert butyl ether | ND | | ug/l | 5.0 | 1.4 | 2 |
| p/m-Xylene | ND | | ug/l | 5.0 | 1.4 | 2 |
| o-Xylene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Xylenes, Total | ND | | ug/l | 5.0 | 1.4 | 2 |
| cis-1,2-Dichloroethene | 7.7 | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dichloroethene, Total | 9.5 | J | ug/l | 5.0 | 1.4 | 2 |
| Dibromomethane | ND | | ug/l | 10 | 2.0 | 2 |
| 1,2,3-Trichloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Acrylonitrile | ND | | ug/l | 10 | 3.0 | 2 |
| Styrene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Dichlorodifluoromethane | ND | | ug/l | 10 | 2.0 | 2 |
| Acetone | ND | | ug/l | 10 | 2.9 | 2 |
| Carbon disulfide | ND | | ug/l | 10 | 2.0 | 2 |
| 2-Butanone | ND | | ug/l | 10 | 3.9 | 2 |
| Vinyl acetate | ND | | ug/l | 10 | 2.0 | 2 |
| 4-Methyl-2-pentanone | ND | | ug/l | 10 | 2.0 | 2 |
| 2-Hexanone | ND | | ug/l | 10 | 2.0 | 2 |
| Bromochloromethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 2,2-Dichloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dibromoethane | ND | | ug/l | 4.0 | 1.3 | 2 |
| 1,3-Dichloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| n-Butylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| sec-Butylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| tert-Butylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| o-Chlorotoluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| p-Chlorotoluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Hexachlorobutadiene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Isopropylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| p-Isopropyltoluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Naphthalene | ND | | ug/l | 5.0 | 1.4 | 2 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-12 D
 Client ID: MW-17_061319
 Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 16:04
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,4-Dioxane | ND | | ug/l | 500 | 120 | 2 |
| p-Diethylbenzene | ND | | ug/l | 4.0 | 1.4 | 2 |
| p-Ethyltoluene | ND | | ug/l | 4.0 | 1.4 | 2 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 4.0 | 1.1 | 2 |
| Ethyl ether | ND | | ug/l | 5.0 | 1.4 | 2 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 5.0 | 1.4 | 2 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 107 | | 70-130 |
| Toluene-d8 | 91 | | 70-130 |
| 4-Bromofluorobenzene | 85 | | 70-130 |
| Dibromofluoromethane | 109 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-13
 Client ID: GWDUP01_061319
 Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 00:00
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/19/19 03:56
 Analyst: NLK

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

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-13
Client ID: GWDUP01_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 00:00
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 0.18 | J | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.6 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

SAMPLE RESULTS

Lab ID: L1925618-13
Client ID: GWDUP01_061319
Sample Location: BROOKLYN, NY

Date Collected: 06/13/19 00:00
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 | 1 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 | 1 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 | 1 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 110 | | 70-130 |
| Toluene-d8 | 91 | | 70-130 |
| 4-Bromofluorobenzene | 82 | | 70-130 |
| Dibromofluoromethane | 111 | | 70-130 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/18/19 20:48
Analyst: KJD

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-13 Batch: WG1250471-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/18/19 20:48
Analyst: KJD

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-13 Batch: WG1250471-5 | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/18/19 20:48
Analyst: KJD

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-13 Batch: WG1250471-5 | | | | | |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 101 | | 70-130 |
| Toluene-d8 | 93 | | 70-130 |
| 4-Bromofluorobenzene | 85 | | 70-130 |
| Dibromofluoromethane | 107 | | 70-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925618

Project Number: 170329301

Report Date: 06/20/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 Batch: WG1250471-3 WG1250471-4 | | | | | | | | |
| Methylene chloride | 96 | | 95 | | 70-130 | 1 | | 20 |
| 1,1-Dichloroethane | 93 | | 92 | | 70-130 | 1 | | 20 |
| Chloroform | 100 | | 100 | | 70-130 | 0 | | 20 |
| Carbon tetrachloride | 110 | | 110 | | 63-132 | 0 | | 20 |
| 1,2-Dichloropropane | 87 | | 86 | | 70-130 | 1 | | 20 |
| Dibromochloromethane | 89 | | 91 | | 63-130 | 2 | | 20 |
| 1,1,2-Trichloroethane | 85 | | 87 | | 70-130 | 2 | | 20 |
| Tetrachloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Chlorobenzene | 95 | | 94 | | 75-130 | 1 | | 20 |
| Trichlorofluoromethane | 120 | | 120 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 100 | | 100 | | 67-130 | 0 | | 20 |
| Bromodichloromethane | 94 | | 93 | | 67-130 | 1 | | 20 |
| trans-1,3-Dichloropropene | 77 | | 79 | | 70-130 | 3 | | 20 |
| cis-1,3-Dichloropropene | 85 | | 87 | | 70-130 | 2 | | 20 |
| 1,1-Dichloropropene | 96 | | 94 | | 70-130 | 2 | | 20 |
| Bromoform | 71 | | 76 | | 54-136 | 7 | | 20 |
| 1,1,1,2-Tetrachloroethane | 75 | | 80 | | 67-130 | 6 | | 20 |
| Benzene | 93 | | 92 | | 70-130 | 1 | | 20 |
| Toluene | 89 | | 88 | | 70-130 | 1 | | 20 |
| Ethylbenzene | 89 | | 89 | | 70-130 | 0 | | 20 |
| Chloromethane | 72 | | 71 | | 64-130 | 1 | | 20 |
| Bromomethane | 94 | | 90 | | 39-139 | 4 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925618

Project Number: 170329301

Report Date: 06/20/19

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|---|-----------|------|-----------|------|------------------|-----|------|------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 Batch: WG1250471-3 WG1250471-4 | | | | | | | | |
| Vinyl chloride | 85 | | 84 | | 55-140 | 1 | | 20 |
| Chloroethane | 100 | | 100 | | 55-138 | 0 | | 20 |
| 1,1-Dichloroethene | 99 | | 98 | | 61-145 | 1 | | 20 |
| trans-1,2-Dichloroethene | 98 | | 97 | | 70-130 | 1 | | 20 |
| Trichloroethene | 98 | | 98 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 91 | | 93 | | 70-130 | 2 | | 20 |
| 1,3-Dichlorobenzene | 92 | | 92 | | 70-130 | 0 | | 20 |
| 1,4-Dichlorobenzene | 93 | | 93 | | 70-130 | 0 | | 20 |
| Methyl tert butyl ether | 86 | | 91 | | 63-130 | 6 | | 20 |
| p/m-Xylene | 95 | | 95 | | 70-130 | 0 | | 20 |
| o-Xylene | 95 | | 95 | | 70-130 | 0 | | 20 |
| cis-1,2-Dichloroethene | 98 | | 97 | | 70-130 | 1 | | 20 |
| Dibromomethane | 96 | | 97 | | 70-130 | 1 | | 20 |
| 1,2,3-Trichloropropane | 70 | | 76 | | 64-130 | 8 | | 20 |
| Acrylonitrile | 90 | | 96 | | 70-130 | 6 | | 20 |
| Styrene | 95 | | 95 | | 70-130 | 0 | | 20 |
| Dichlorodifluoromethane | 85 | | 83 | | 36-147 | 2 | | 20 |
| Acetone | 100 | | 110 | | 58-148 | 10 | | 20 |
| Carbon disulfide | 83 | | 83 | | 51-130 | 0 | | 20 |
| 2-Butanone | 92 | | 94 | | 63-138 | 2 | | 20 |
| Vinyl acetate | 88 | | 92 | | 70-130 | 4 | | 20 |
| 4-Methyl-2-pentanone | 71 | | 77 | | 59-130 | 8 | | 20 |
| 2-Hexanone | 65 | | 71 | | 57-130 | 9 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVENUE

Lab Number: L1925618

Project Number: 170329301

Report Date: 06/20/19

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | Qual | RPD Limits |
|---|-----------|------|-----------|------|------------------|-----|------|------------|
| | %Recovery | Qual | %Recovery | Qual | | | | |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 Batch: WG1250471-3 WG1250471-4 | | | | | | | | |
| Bromochloromethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 2,2-Dichloropropane | 97 | | 95 | | 63-133 | 2 | | 20 |
| 1,2-Dibromoethane | 87 | | 91 | | 70-130 | 4 | | 20 |
| 1,3-Dichloropropane | 83 | | 85 | | 70-130 | 2 | | 20 |
| 1,1,1,2-Tetrachloroethane | 96 | | 95 | | 64-130 | 1 | | 20 |
| Bromobenzene | 92 | | 92 | | 70-130 | 0 | | 20 |
| n-Butylbenzene | 82 | | 82 | | 53-136 | 0 | | 20 |
| sec-Butylbenzene | 86 | | 86 | | 70-130 | 0 | | 20 |
| tert-Butylbenzene | 89 | | 89 | | 70-130 | 0 | | 20 |
| o-Chlorotoluene | 83 | | 82 | | 70-130 | 1 | | 20 |
| p-Chlorotoluene | 82 | | 82 | | 70-130 | 0 | | 20 |
| 1,2-Dibromo-3-chloropropane | 77 | | 83 | | 41-144 | 8 | | 20 |
| Hexachlorobutadiene | 90 | | 90 | | 63-130 | 0 | | 20 |
| Isopropylbenzene | 86 | | 86 | | 70-130 | 0 | | 20 |
| p-Isopropyltoluene | 89 | | 89 | | 70-130 | 0 | | 20 |
| Naphthalene | 82 | | 88 | | 70-130 | 7 | | 20 |
| n-Propylbenzene | 83 | | 83 | | 69-130 | 0 | | 20 |
| 1,2,3-Trichlorobenzene | 86 | | 90 | | 70-130 | 5 | | 20 |
| 1,2,4-Trichlorobenzene | 86 | | 90 | | 70-130 | 5 | | 20 |
| 1,3,5-Trimethylbenzene | 87 | | 87 | | 64-130 | 0 | | 20 |
| 1,2,4-Trimethylbenzene | 86 | | 87 | | 70-130 | 1 | | 20 |
| 1,4-Dioxane | 160 | | 168 | Q | 56-162 | 5 | | 20 |
| p-Diethylbenzene | 88 | | 88 | | 70-130 | 0 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: 491 WORTMAN AVENUE

Project Number: 170329301

Lab Number: L1925618

Report Date: 06/20/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13 Batch: WG1250471-3 WG1250471-4 | | | | | | | | |
| p-Ethyltoluene | 86 | | 87 | | 70-130 | 1 | | 20 |
| 1,2,4,5-Tetramethylbenzene | 84 | | 84 | | 70-130 | 0 | | 20 |
| Ethyl ether | 110 | | 120 | | 59-134 | 9 | | 20 |
| trans-1,4-Dichloro-2-butene | 56 | Q | 59 | Q | 70-130 | 5 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 107 | | 109 | | 70-130 |
| Toluene-d8 | 95 | | 95 | | 70-130 |
| 4-Bromofluorobenzene | 85 | | 87 | | 70-130 |
| Dibromofluoromethane | 110 | | 110 | | 70-130 |

Project Name: 491 WORTMAN AVENUE**Lab Number:** L1925618**Project Number:** 170329301**Report Date:** 06/20/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

| Cooler | Custody Seal |
|---------------|---------------------|
| A | Absent |

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|-----------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|--------------------|
| L1925618-01A | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-01B | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-01C | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-02A | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-02B | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-02C | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-03A | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-03B | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-03C | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-04A | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-04B | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-04C | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-05A | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-05B | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-05C | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-06A | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-06B | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-06C | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-07A | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-07B | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-07C | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-08A | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-08B | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |

Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Serial_No:06201914:57
Lab Number: L1925618
Report Date: 06/20/19

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|-----------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|--------------------|
| L1925618-08C | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-09A | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-09B | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-09C | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-10A | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-10B | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-10C | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-11A | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-11B | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-12A | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-12B | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-12C | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-13A | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-13B | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |
| L1925618-13C | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260(14) |

*Values in parentheses indicate holding time in days



Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

GLOSSARY

Acronyms

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

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

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

Terms

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

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

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 491 WORTMAN AVENUE
Project Number: 170329301

Lab Number: L1925618
Report Date: 06/20/19

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water


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

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

EPA 245.1 Hg.

SM2340B

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

|  NEW YORK CHAIN OF CUSTODY Westborough, MA 01561 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 | NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288 | Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105 | Page 1 of 1 | Date Rec'd in Lab 6/14/19 | ALPHA Job # L1925618 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|----------------|--|--|---|--|--|--------------------|----------|---------------|--------------------|----------|----------|--|--|--|--|--|--|------|------|--|--|--|--|--|--|--|--|--|--|---|--|
| | | Project Information Project Name: 491 Wortman Avenue Project Location: Brooklyn, NY Project #: 170329301 (Use Project name as Project #) <input type="checkbox"/> | | Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other | | Billing Information <input checked="" type="checkbox"/> Same as Client Info PO # | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Information Client: Langan Engineering Address: 360 West 31st St; 8th Fl New York, NY 10001 Phone: (212) 479-5400 Fax: (212) 479-5444 Email: jrobinson@langan.com | | Project Manager: James Robinson ALPHAQuote #: | | Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days: | | Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other: | | ANALYSIS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please also email results to datamanagement@langan.com Please specify Metals or TAL. | | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">TCL VOCs</th> <th colspan="10">ANALYSIS</th> </tr> <tr> <th>Date</th> <th>Time</th> <th colspan="10"></th> </tr> </table> | | ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials | TCL VOCs | ANALYSIS | | | | | | | | | | Date | Time | | | | | | | | | | | Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments | |
| ALPHA Lab ID (Lab Use Only) | Sample ID | | | | | Collection | | | | | Sample Matrix | Sampler's Initials | TCL VOCs | ANALYSIS | | | | | | | | | | | | | | | | | | | | |
| | | Date | Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other | | Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle | | Certification No: MA935 Certification No: MA015 1604 | | Container Type: G G G B | | Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Form No: 01-25 (rev. 30-Sept-2013) | | Relinquished By: <i>[Signature]</i> | | Date/Time: 6-13-19/1615 | | Received By: <i>[Signature]</i> | | Date/Time: 6/13/19 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Relinquished By: <i>[Signature]</i> | | Date/Time: 6/13/19 | | Received By: <i>[Signature]</i> | | Date/Time: 6/13/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Relinquished By: <i>[Signature]</i> | | Date/Time: 6/14 00:05 | | Received By: <i>[Signature]</i> | | Date/Time: 6/14 00:05 | | | | | | | | | | | | | | | | | | | | | | | | | | |