Periodic Review Report

Marcus Garvey Apartments
NYSDEC BCP #C224198
650 Rockaway Avenue
Brooklyn, New York

June 13, 2022

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Executive Summary

This document is required as an element of the remedial program at 650 Rockaway Avenue in Brooklyn, New York (Site) under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP). The Site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index #C224198-02-15, Site Number C224198, which was executed on March 25, 2015. Elevated levels of the chlorinated volatile organic compound (CVOC) tetrachloroethene (PCE), along with some of its breakdown products trichloroethene (TCE) and cis-1,2-dichloroethene (1,2-DCE), were observed in soil, groundwater, and soil vapor on the northern portion of the Site in the vicinity of the former dry cleaning tenant, Johnny's Cleaners. Contamination extended into some off-Site groundwater monitoring wells to the southeast. Due to the nature and extent of contamination of the Site, the NYSDEC and NYS Department of Health (DOH) determined this Site posed a significant threat to human health and the environment prior to remediation. A remedial program was implemented in 2016 before entering the Site Management phase of the project. The Site Management Plan (SMP), dated November 2016, was approved by NYSDEC on December 12, 2016 and the Certificate of Completion (COC) for the Site was also received on December 12, 2016. The required Site-wide inspection, monthly operation and maintenance (O&M) inspections, and groundwater sampling were completed during this SMP monitoring phase. The components, data, and rationale included in this Periodic Review Report (PRR) demonstrate that the engineering and institutional controls are performing as designed, are effective, and are compliant with specifications described in the SMP. Concentrations of CVOCs have been consistently low to non-detect in groundwater monitoring wells at the Site, and termination of the groundwater sampling and monitoring program is requested. Sampling will continue to be implemented annually, until request to discontinue sampling is approved.

1. Introduction

This PRR documents post-remediation activities performed from April 12, 2021 to April 12, 2022 at the property located at 650 Rockaway Avenue (a.k.a. 654, 658, 666, 670, 674 Rockaway Avenue and 327, 329, 331, 333, 335, 337, 339 Chester Street) in the Brownsville section of Brooklyn, New York (Site; Figure 1). Marcus Garvey Preservation LLC (Volunteer) entered into a BCA with the NYSDEC in March 2015 to investigate and remediate the 0.328-acre property located at the above address. The BCP Site is known as Marcus Garvey Apartments.

The property was remediated to meet the NYSDEC title 6 of the Official Compilation of New York Codes, Rules, and Regulations (6 NYCRR) Part 375 Restricted Residential Use Soil Cleanup Objectives (RRSCOs). The Site is entirely comprised of one mixed-use commercial/residential building with a one-story commercial (i.e., retail) component located along Rockaway Avenue and a 55-unit, four-story residential component located immediately behind (west) of the commercial component. Some of the retail spaces have basements, the residential spaces do not. The first story of the building is divided into two separate parts (a north part and a south part) by a gated east/west passageway that leads from the sidewalk to the courtyard behind the building.

The SMP, dated November 2016, was approved by NYSDEC on December 12, 2016 and the COC for the Site was also received on December 12, 2016. The Site Management activities, reporting, and Institutional Control (IC)/ Engineering Control (EC) certifications are scheduled on a certification period basis. This certification is based on the submission of a PRR, submitted to the NYSDEC every year beginning sixteen months after the COC was issued and once per year thereafter. These PRRs will identify and asses all of the IC/ECs required by the remedy for the Site, any environmental monitoring data and/or information generated during the reporting period, and a complete Site evaluation which discusses the overall performance and effectiveness of the completed remedy.

2. Site Overview

2.1 Site Description and History

The Site is located in the County of Kings, Brooklyn, New York and is identified as Block 3575 and Lot 11 on the New York City Tax Map. The Site is situated on an approximately 0.328-acre area bounded by Dumont Avenue to the north; residential/commercial buildings to the south; Rockaway Avenue to the east; and to the west is a courtyard which leads to a multifamily residential building with security, administrative, and maintenance facilities (Figure 1). The Site is entirely comprised of one mixed-use commercial/residential building with a six unit, one-story commercial (i.e., retail) component located along Rockaway Avenue and a 55-unit, four-story residential component located immediately behind (west) of the commercial component. The first story of the building is divided into one northern part and one southern part by an east/west passageway that leads from the Rockaway Avenue sidewalk to the courtyard to behind the building. Some of the retail spaces have basements, the residential spaces do not. Historially, the Site has been used as mixed residential/commercial use since the early 1900s and the current Site building was constructed circa 1974. Previous Environmental Site Assessments (ESAs) identified a former dry cleaners (Johnny's Cleaners) as a recognized environmental concern (REC) with respect to the Site, which reportedly operated from 1995 to 2011 and occupied the northernmost commercial unit, closest to the intersection of Dumont and Rockaway Avenues. It was also determined by the Volunteer that a second commercial space to the south was historically used as a restaurant, but could have historically been used as a separate dry cleaner's space.

2.2 Summary of Remedial Action

Following the BCP Remedial Investigation, and NYSDEC approval of the Remedial Investigation/Remedial Action Work Plan (RIR/RAWP), Volunteer began remediation at the Site in May 2016. The Volunteer as fully implemented and completed the approved remedial program. All remedial work was done with oversight, understanding, and direction from NYSDEC.

The following were the components of the selected remedy:

1. Source excavation of soil/fill exceeding RRSCOs:
    - Soils acting as a source of continued groundwater contamination were excavated and disposed of off-Site; and
    - Confirmation/documentation soil samples were collected after source excavation took place to gauge presence of residual contaminated soil left in place.
2. Construction and maintenance of a Site Cover System consisting of the following elements to prevent human exposure to remaining contaminated soil/fill remaining at the site:
    - Building foundations (concrete slab/ footings/ basement walls);
    - Gravel or dense graded aggregate (DGA); and
    - Asphalt pavement.
3. Soil vapor mitigation systems consisting of:
    - A Sub-Slab Depressurization System (SSDS) beneath the entire footprint of the Site building; and
    - Two supplemental soil vapor extraction (SVE) wells that were installed through the basement of the former dry cleaners and where source excavation took place (Figure 2).

4. Groundwater remediation consisting of:
    - *In situ* potassium permanganate (KMnO4) injections in the northernmost basement of the former Johnny's Cleaners and the former restaurant spaces (basement directly to the south);
    - Baseline groundwater samples that were collected from the monitoring well network prior to groundwater remediation taking place; and
    - Groundwater performance monitoring following the injections event.
5. Screening for indicators of contamination (by visual means, odor, and monitoring with photoionization detector (PID) of all excavated soil during any intrusive site work.
6. Appropriate off-Site disposal of all material removed from the site in accordance with all Federal, State and local rules and regulations for handling, transport, and disposal.
7. Import of fill meeting the requirements of Part 375-6.7(d) was brought in to replace the excavated soil and establish the designed grades at the site. Import of materials used for backfilling and Site Cover System were in compliance with: (1) meeting the lower of the Part 375 Protection of Groundwater or RRSCOs, and (2) all Federal, State and local rules and regulations for handling and transport of material.
8. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site.
9. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) ICs/ECs, (2) monitoring, (3) operation and maintenance and (4) reporting.
10. Periodic certification of the ICs and ECs listed above.

Contaminated soil exceeding RRSCOs was excavated from the basement of the former dry cleaners to four feet below basement slab (ft bbs) between June 6, 2016 and July 5, 2016, using hand tools such as shovels and pick axes (due to space limitations), in a manner that protected the integrity of the existing building. To ensure all hazardous soils were removed and disposed of properly, a one-foot buffer into the non-hazardous soil was added to the original delineation line. Over 40 tons of hazardous soil and over 30 tons of non-hazardous soil and concrete were removed and disposed during the project. Site groundwater treatment was performed in August 2016 with the completion of *in situ* KMnO4 injections, targeted to neutralize the constituents of concern which are CVOCs, primarily PCE and its breakdown products TCE and 1,2-DCE.

Groundwater monitoring was performed throughout the project. Baseline groundwater samples were collected from on-Site and off-Site wells in July 2016 prior to groundwater remediation. Post-remediation samples were collected in August 2016, five consecutive quarters after the COC was issued through the first quarter of 2018, and during the fourth quarter of 2018 (seven quarters total and six quarters after the COC was issued). All post-remediation groundwater samples collected demonstrate that constituents of concern concentrations within the on-Site monitoring wells have been consistently reduced at the Site by over 96% (from the highest concentrations detected). Concentrations in off-Site wells have been consistently reduced compared to baseline samples and remain only slightly above groundwater standards (discussed in detail below). The groundwater sampling event reports submitted to the during the monitoring period are included in Appendix A.

2.3 Remaining Contamination

As described in the SMP, soils exceeding the Part 375 RRSCOs and Protection of Groundwater SCOs are present on-Site. Exposure to remaining contamination at the site is prevented by a Site Cover System over the site. This cover system is comprised of a minimum of asphalt pavement and concrete building slabs.

The demarcation layer, consisting of orange snow fencing material in the excavated portion of the basement of the former dry cleaner and the underside of the asphalt or concrete in all other areas, provides a visual reference to the top of the remaining contamination zone. Additional information on Site Cover System components are included in Appendix B.

2.4 Institutional and Engineering Controls

Since residual contamination remains beneath the Site, ICs/ECs have been incorporated into the Site remedy as part of the NYSDEC-approved SMP, to provide proper management of residual contamination in the future to ensure protection of public health and the environment.

The Site has ECs consisting of:

- SSDS (including SVE wells); and
- Site Cover System.

The goal of the SSDS is to mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the Site. The goal of the Site Cover System is to prevent exposure to remaining contamination in soil/fill at the Site. The SSDS and Site Cover System ECs are fully in place and are effective at meeting their objectives.

A Site-specific Environmental Easement was recorded with the Kings County Clerk that provides an enforceable means to manage the remaining contamination at the Site until the Environmental Easement is extinguished in accordance with NYS Environmental Conservation Law (ECL) Article 71, Title 36. The Environmental Easement introduces a series of ICs to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination; and (3) limit the use restricted residential, commercial, or industrial uses as defined by Part 375-1.8(g) only. Adherence to these ICs on the site is required by the Environmental Easement and are being implemented under the SMP.

3. IC/EC Plan Compliance Report

Since remaining contaminated soil exists beneath the Site, ICs and ECs are required to protect human health and the environment. This section details the purpose and elements of the IC/EC Plan of the SMP including the inspection, monitoring, and reporting requirements, IC/ECs, whether the IC/EC requirements were met, and regulatory notification and certification requirements.

3.1 General

The IC/EC Plan provides:

- A description of all IC/ECs on the Site;
- The basic implementation and intended role of each IC/EC;
- A description of the key components of the ICs set forth in the Environmental Easement;
- A description of the controls to be evaluated during each required inspection and periodic review;
- A description of plans and procedures to be followed for implementation of IC/ECs, such as the implementation of the Excavation Work Plan (EWP; included in the SMP) for the proper handling of remaining contamination that may be disturbed during maintenance or redevelopment work on the Site; and
- Any other provisions necessary to identify or establish methods for implementing the IC/ECs required by the site remedy, as determined by the NYSDEC.

The ECs required by the SMP include the installation of a Site Cover System consisting of the following elements to prevent human exposure to remaining contaminated soil/fill remaining at the site:

- Building foundations (concrete slab/ footings/ basement walls);
- Gravel or DGA; and
- Asphalt pavement.

The ICs presented in the SMP consist of the following:

- The property may be used for restricted residential use;
- All ECs must be operated and maintained as specified in the SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the New York City Department of Environmental Protection to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- Groundwater monitoring must be performed as defined in the SMP and the April 3, 2020 NYSDEC letter granting a reduction in frequency;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the SMP;
- All activities that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP;
- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted on the survey attached to the Environmental Easement, and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the site are prohibited, except for raised planters.

3.2 IC/EC Plan Notification Requirements

Notifications are required to be submitted by the property owner to the NYSDEC, as needed, in accordance with NYSDEC's DER-10 Technical Guidance for Site Investigation and Remediation (DER-10) for the following reasons:

- 60-day advance notice of any proposed changes in site use that are required under the terms of the BCA, Part 375, and/or ECL.
- 7-day advance notice of any field activity associated with the remedial program.
- 15-day advance notice of any proposed ground-intrusive activity pursuant to the EWP.
- Notice within 48-hours of any damage or defect to the foundation, structures or EC that reduces or has the potential to reduce the effectiveness of an EC, and likewise, any action to be taken to mitigate the damage or defect.
- Verbal notice by noon of the following day of any emergency, such as a fire; flood; or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the site, with written confirmation within seven (7) days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action submitted to the NYSDEC within 45 days describing and documenting actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the Site or the responsibility for implementing the SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser/Remedial Party has been provided with a copy of the BCA, and all approved work plans and reports, including the SMP.
- Within 15 days after the transfer of all or part of the Site, the new owner's name, contact representative, and contact information will be confirmed in writing to the NYSDEC.

3.2.1 Notifications

There were no notifications provided during the reporting period.

3.3 Inspections

Inspections of all remedial components installed at the Site will be conducted at frequencies specified in the SMP. A comprehensive Site-wide inspection will be conducted and documented according to the SMP schedule. The inspections will determine and document the following:

- Whether ECs continue to perform as designed;

- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria;
- If site records are complete and up to date; and
- Reporting requirements outlined in Section 7.0 of the SMP.

Inspections will also be performed in the event of an emergency. If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs that reduces or has the potential to reduce the effectiveness of ECs in place at the site, verbal notice to the NYSDEC must be given by noon of the following day. In addition, an inspection of the site will be conducted within five (5) days of the event to verify the effectiveness of the IC/ECs implemented at the Site by a qualified environmental professional (QEP), as determined by the NYSDEC. Written confirmation must be provided to the NYSDEC within seven (7) days of the event that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.

All inspections were conducted at the frequency specified in the schedules provided in following Monitoring Plan and O&M Plan Reporting sections of this PRR.

3.4 IC/EC Plan Certification

For each IC or EC identified for the Site, I certify that all of the following statements are true:

- The inspection of the site to confirm the effectiveness of the ICs/ECs required by the remedial program was performed under my direction;
- The ICs/ECs employed at this site is unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any SMP for this control;
- Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- Use of the Site is compliant with the environmental easement;
- The EC systems are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program and generally accepted engineering practices; and
- The information presented in this report is accurate and complete.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class “A” misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Noelle M. Clarke, P.E. of Roux Environmental Engineering and Geology D.P.C. am certifying as Owner’s Designated Site Representative for the site.

An IC/EC Certification Form for the controls that are currently in place is included as Appendix C.

4. Monitoring and Sampling Plan Compliance Report

The various subsections below describe monitoring and sampling required as part of the remedy and also include an evaluation of the remedy performance, effectiveness, and protectivenes.

4.1 General

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the Site Cover System, and all affected Site media identified below. Components of the Monitoring Plan are:

- Sampling and analysis of all appropriate media (e.g., groundwater);
- Assessing compliance with applicable NYSDEC standards, criteria and guidance (SCGs), particularly groundwater standards; and
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment.

Monitoring of the performance of the remedy will be conducted for the periods specified for each matrix listed in table below and are explained in further detail in the following sections.

Monitoring Program	Frequency	Matrix	Analysis
Site Cover System and Site-Wide Inspection	Annually. First inspection no more than 16 months after issuance of the COC.	Soil	Visual inspection of all cover system components
Groundwater	Annually	Groundwater	VOCs (USEPA Method 8260) for NYSDEC Target Compound List compounds
SSDS and SVE Wells Detailed Operation Inspection	Monthly	Soil Vapor	Visual Inspection of System Components, Vacuum, Temperature, and Condensate
SSDS and SVE Wells System Status	Remote alarm tied into the SSDS and triggered when SSDS is shut down	Soil Vapor	Visual inspection of alarm to determine operation status

If at any time during the reporting period the Volunteer identifies a failure of one or more of the ECs or non-compliance with one or more of the ICs, the remedial party must notify NYSDEC and implement corrective measures, in accordance with a Corrective Measures Work Plan (CMWP) submitted to and approved by NYSDEC and provide a periodic certification of the ICs/ECs.

4.2 Site-Wide Inspection

Site-wide inspections are to be performed once per year. Modification to the frequency or duration of the inspections will require approval from the NYSDEC. Site-wide inspections will also be performed after all

severe weather conditions that may affect ECs or monitoring devices. During these inspections, a Site Inspection Checklist will be completed as provided in the SMP. The Checklist will compile sufficient information to assess the following:

- Compliance with all ICs, including site usage;
- An evaluation of the condition and continued effectiveness of all ECs;
- General site conditions at the time of the inspection;
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection; and
- Confirm that Site records are up to date.

On April 7, 2022, Roux performed a Site-wide inspection to meet the requirements for this reporting period. This inspection determined that all Site Cover system elements described herein were observed to be performing as designed during the reporting period of the PRR and are protective of human health and the environment. The completed Site Inspection Checklist is provided in Appendix D and photographs taken during the Site-wide inspection are provided in the Photo Log included in Appendix E.

4.3 Remedial System Monitoring

Monitoring of the SSDS and SVE wells will be performed on a routine basis, as identified in Table 4.3 – SMP Remedial System Monitoring Requirements and Schedule (see below). Modification to the frequency or sampling requirements will require approval from the NYSDEC. A visual inspection of the complete system will be conducted during each monitoring event. Unscheduled inspections may take place when a suspected failure of the SSDS and SVE wells has been reported or an emergency occurs that is deemed likely to affect the operation of the system. If any equipment readings are not within their specified operation range, any equipment is observed to be malfunctioning or the system is not performing within specifications; maintenance and repair, as per the O&M Plan discussed in following sections. SSDS and SVE wells components to be monitored include, but are not limited to, the components included in the Table 4.3 below.

Table 4.3 – SMP Remedial System Monitoring Requirements and Schedule

System Components	Monitoring Parameter	Operating Range	Monitoring Schedule
SSDS A (Southern Side of the Building)	Vacuum/pressure readings at the blower	-5 to -25 in.w.c. / 10 to 30 in.w.c.	Monthly
	Vacuum readings at SVMPs: SVMP-A2 through SVMP-A5 (as applicable)	Equal to or greater than -0.004 in. w.c.	Monthly
	Visual inspections of the SSDS mechanical and above grade piping components	N/A	Monthly
SSDS B and SVE Wells (Northern Side of the Building)	Vacuum/pressure readings at the blower	-5 to -40 in.w.c. / 10 to 30 in.w.c.	Monthly
	Vacuum readings at SVMPs: SVMP-B1 through SVMP-B5 (as applicable)	Equal to or greater than -0.004 in.w.c.	Monthly
	Visual inspections of the SSDS mechanical and above grade piping components	N/A	Monthly
	SVE Wells SVE-1 and SVE-2 are open	Open or closed	Monthly

SSDS and SVE well monitoring has been performed in accordance with the above table. A summary of the monitoring performed during the reporting period is included in Section 5.

4.4 Post-Remediation Groundwater Monitoring and Sampling

The SMP required that samples shall be collected from the three on-Site and four off-Site monitoring wells on a routine basis. Groundwater sampling locations, required analytical parameters, and sampling schedule are provided below in Table 4.4 – SMP Remedial System Sampling Requirements and Schedule. In addition to the analytical parameters, observations of field parameters (e.g., KMnO4 presence, dissolved oxygen, oxidation-reduction potential, etc.) are collected and recorded in a field book and associated groundwater sampling logs as provided in the SMP. Modification to the frequency or sampling requirements will require approval from the NYSDEC.

Table 4.4 – SMP Post-Remediation Sampling Requirements and Schedule

Sampling Location	Analytical Parameters				Schedule
	VOCs (EPA Method 624)				
MW-1, MW-2, MW-3, MW-5S, MW-6S, MW-8, MW-9	X				Annual

To date, there have been two modifications to the groundwater monitoring and sampling schedule that the NYSDEC approved.

NYSDEC-Approved Modification to Groundwater Sampling Plan, November 21, 2017

On November 21, 2017, NYSDEC approved the permanent removal of the upgradient monitoring well MW-6S from the long-term monitoring network and agreed that wells MW-3 and MW-5S did not require sampling during the fourth quarter 2017 sampling round. Roux resumed sampling these wells in the first quarter of 2018.

NYSDEC-Approved Modification to Groundwater Sampling Plan, April 3, 2020

In response to requests by Marcus Garvey Preservation LLC to terminate the groundwater sampling program, on April 3, 2020 NYSDEC made the determination that the groundwater sampling program should not be terminated due to continued AWQSGV exceedances of VOCs. In this communication, NYSDEC approved that the groundwater monitoring well sampling program could be modified to only include the five monitoring wells (MW-1, MW-2, MW-3, MW-8, and MW-9) and that sampling frequency could be reduced from quarterly to annually.

Groundwater Sampling Activities

To date, nine post-remediation sampling rounds have been completed (eight of which were completed after the issuance of the Site COC) on behalf of the Volunteer with the most recent sampling event being November 4, 2021. Table 1 shows the results of historic groundwater samples collected on August 20, 2014 (reported in the Roux January 2016 RIR/RAWP), baseline sampling on July 14, 2016, and all post-remediation sampling events to date. Plate 1 presents the sample results over time and includes only those parameters with at least one exceedance of AWQSGVs contained in a respective well. A groundwater sampling event report was submitted to NYSDEC after the sampling event and is included in Appendix A.

A Data Usability Summary Report (DUSR) was prepared by a party independent from the laboratory performing analysis for all samples and is included in Appendix A.

Trends in On-Site Monitoring Wells

The constituent of concern 1,2-DCE was not detected above AWQSGVs at any of the three on-Site monitoring wells, except during the August 2014 sampling event. TCE was detected during the November 2021 sampling event at MW-1 but did not exceed AWQSGVs. For PCE, samples from the on-Site monitoring wells have exhibited over a 99% reduction in PCE when compared to their highest concentrations (2014 samples) for the last five consecutive sampling rounds (dating back to August 2017). For reference, the highest concentration of PCE in on-Site monitoring wells was detected on August 2014 at 7,700 parts per billion (ppb) from the sample taken from MW-2. Results from MW-2 from the November 2021 sampling event show the PCE concentration was 8.9 ppb, which is only slightly above the NYSDEC AWQSGV of 5 ppb. At well MW-1, the concentration of PCE was detected at 3,200 ppb in August 2014 and PCE was detected at 7.5 ppb in well MW-1 in November 2021, which is the lowest post-remediation concentration observed to date. MW-3 has been non-detect or detected below AWQSGVs for PCE for all post-injection samples.

Trends in Off-Site Monitoring Wells

PCE is the only constituent of concern that has been detected above AWQGVs in off-Site monitoring wells. MW-8 is the off-Site well located closest to where *in situ* injections were completed at the Site. PCE during the November 2021 sampling event at MW-8 was detected at 5.1 ppb, the lowest concentration recorded in groundwater at this location to date, which corresponds to a greater than an 96% reduction when compared to the baseline sample (July 2016) result of 140 ppb. MW-9 is farther downgradient and PCE was detected at 6.6 ppb during the November 2021 sampling event, which is also the lowest concentration observed in groundwater at this location and is below the PCE concentration detected during the July 2016 baseline sampling (20 ppb). As discussed in the quarterly groundwater sampling report submissions, significant influence was not expected at MW-9 due to the distance of MW-9 from the injections area, however, concentrations remain low.

4.5 Monitoring and Sampling Plan Conclusions and Recommendations

Roux submitted the 2021 Annual Groundwater Sampling Event Summary to NYSDEC on March 7, 2022. This summary letter included a request to terminate the groundwater sampling program based on the consistent low to non-detect concentrations of the COCs in groundwater across the Site showing that asymptotic conditions have been reached. As of the date of this PRR, NYSDEC has not provided a decision with regards to this request to terminate. Roux respectfully requests that the groundwater sampling program be terminated.

5. Operation and Maintenance Compliance Report

5.1 General

The O&M Plan provides a brief description of the measures necessary to operate, monitor and maintain the mechanical components of the remedy selected for the site. The O&M Plan:

- Includes the procedures necessary to allow individuals unfamiliar with the site to operate and maintain the SSDS and SVE systems;
- Will be updated periodically to reflect changes in site conditions or the manner in which the SSDS and SVE systems are operated and maintained.

As mentioned in Section 4.3, routine maintenance activities are required monthly by the SMP and recorded on the SSDS O&M forms outlined in the SMP. The routine maintenance activities include visual inspections, operating data collection and general maintenance. Visual inspection is the routine part of the SSDS and SVE well operator's activities. The system operator will note any conditions which present a potential hazard or could cause future system shutdown. Special attention should be given to any unusual or excessive noise or vibrations from the piping and blower. Specific routine maintenance tasks are outlined below:

- Inspect control panel and warning lights/alarms;
- Inspect all above slab blower piping for leaks and confirm operation of appropriate valves (i.e., dilution valve, pressure relief valve);
- Inspect vacuum/pressure gauges for proper operation;
- Check and clean air filter on each moisture knockout tank; and
- Check for the presence of and remove water in each knockout tank.

Non-routine equipment maintenance is likely to occur and consists of maintenance activities that will be performed with less frequency than the routine maintenance (i.e., semi-annually) on several system components. Specific non-routine maintenance tasks are outlined below:

- Inspect and test alarms;
- Check float switch in each knockout tank for proper operation;
- Replacement of vacuum/pressure gauges; and
- Change bearings on blowers after 15,000 hours of operation.

5.2 SSDS Operation Monitoring

Equipment maintenance and inspections were performed in accordance with the SMP, with the exception that monitoring was not completed in October and December of 2021. Specific routine maintenance tasks outlined above were recorded monthly on the SSDS O&M logs. All SSDS O&M logs that were completed during the reporting period are provided in chronological order in Appendix F. Overall, O&M activities described herein determined that the O&M Plan was carried out as designed during the reporting period of the PRR and it is protective of human health and the environment. Three of the soil vapor monitoring points (SVMP-A5, SVMP-B3, and SVMP-B4) were reading erratically during the monitoring period, indicating that they may have become clogged over time or malfunctioning. Significant vacuum was observed in the nearby SSDS legs, indicating the SSDS is operating normally and generating significant vacuum in the subsurface.

Roux has reported to the Site multiple times throughout the reporting period to troubleshoot the monitoring points and clean them out with brushes and compressed air. However, minimal improvements in vacuum measurements have been observed at SVMP-A5, SVMP-B3, and SVMP-B4 and further evaluation/replacement of these monitoring points will be conducted during the second quarter 2022.

6. Overall PRR Conclusions and Recommendations

Based on the information and data provided herein, the ICs and ECs are performing as designed, are effective, and are compliant with the specifications described in the SMP and as described herein. Roux requests that the groundwater sampling program be terminated at this time. There are no changes to the SSDS monitoring plan being requested at this time. As noted above, additional cleaning and/or replacement (if necessary) of soil vapor monitoring points will be undertaken in the second quarter of 2022.

Respectfully submitted,

ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C.

Levi Curnutte
Project Scientist

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Principal Engineer

TABLE

1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater, Marcus Garvey Apartments, Brooklyn, New York

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
		Sample Date:	8/20/2014	07/14/2016	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	FD	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	25 UD	1.2 U	1 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	75 UD	3.8 U	3 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	25 UD	1.2 U	1 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 UJV	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	100 UD	5 U	4 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 UJV	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	100 UD	5 U	4 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	25 UD	1.2 U	1 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	µg/L	50 UD	2.5 U	2 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	25 UD	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	100 UD	5 U	4 U	2 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	12000 UD	620 RV	500 RV	250 RV	250 RV	250 RV
2,2-Dichloropropane	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	250 UD	12 U	10 U	5 U	5 U	5 U
4-Chlorotoluene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	100 UD	5 U	4 U	2 U	2 U	2 U
Acetone	50	µg/L	250 UD	12 U	10 U	4.2 J	2.6 J	5 U
Acrylonitrile	5	µg/L	250 UD	12 U	10 U	5 U	5 U	5 U
Benzene	1	µg/L	25 UD	1.2 U	1 U	0.5 U	0.5 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
		Sample Date:	8/20/2014	07/14/2016	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	FD	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	25 UD	0.56 J	0.57 J	0.48 J	0.5 U	0.5 U
Bromoform	50	µg/L	100 UD	5 U	4 U	2 U	2 U	2 U
Bromomethane	5	µg/L	120 UD	6.2 U	5 U	2.5 UJV	2.5 U	2.5 U
Carbon Disulfide	60	µg/L	250 UD	12 U	10 U	5 U	5 U	5 U
Carbon Tetrachloride	5	µg/L	25 UD	1.2 U	1 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	120 UD	6.4	6.8	4.7	2.5 U	2.5 U
Chloromethane	--	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	**60 JD**	2.2 J	2.3 J	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	25 UD	1.2 U	1 U	0.5 U	0.5 U	0.5 U
Cymene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	25 UD	1.2 U	1 U	0.5 U	0.5 U	0.5 U
Dibromomethane	5	µg/L	250 UD	12 U	10 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	µg/L	250 UD	12 U	10 U	5 U	5 U	5 U
Dichloroethylenes	5	µg/L	**60 JD**	2.2 J	2.3 J	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	250 UD	12 U	10 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	250 UD	12 U	10 U	5 U	5 U	5 U
Methylene Chloride	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	120 UD	6.2 UJV	5 UJV	2.5 UJV	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 UJV	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
		Sample Date:	8/20/2014	07/14/2016	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	FD	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 UJV	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	**3200 D**	**220**	**240**	**110**	**62**	**78**
Toluene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	NA	1.2 U	1 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	25 UD	1.2 U	1 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	120 UD	6.2 U	5 U	2.5 UJV	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	**40 D**	2.6	2.8	0.5 U	0.59	0.72
Trichlorofluoromethane	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	250 UD	12 U	10 U	5 U	5 U	5 U
Vinyl Chloride	2	µg/L	50 UD	2.5 U	2 U	1 U	1 U	1 U
Xylenes	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
		Sample Date:	08/31/2017	12/07/2017	03/15/2018	03/15/2018	12/4/2018	10/1/2020
		Normal or Field Duplicate:	N	N	N	FD	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	2 U	2 U	2 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	2 U	2 U	2 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
1,2-Dichloropropane	1	µg/L	1 U	1 U	1 U	1 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	NA	NA	NA	0.50 U	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	2 U	2 U	2 U	2.0 U	2.0 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 RV	250 RV	250 RV	250 RV	250 U	250 U
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	2 U	2 U	2 U	2.0 U	2.0 U
Acetone	50	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
Acrylonitrile	5	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
Benzene	1	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
		Sample Date:	08/31/2017	12/07/2017	03/15/2018	03/15/2018	12/4/2018	10/1/2020
		Normal or Field Duplicate:	N	N	N	FD	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.59
Bromoform	50	µg/L	2 U	2 UJV	2 U	2 UJV	2.0 U	2.0 U
Bromomethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Carbon Disulfide	60	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
Carbon Tetrachloride	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	**13**
Chloromethane	--	µg/L	2.5 UJV	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
Dibromomethane	5	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
Dichlorodifluoromethane	5	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
		Sample Date:	08/31/2017	12/07/2017	03/15/2018	03/15/2018	12/4/2018	10/1/2020
		Normal or Field Duplicate:	N	N	N	FD	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	**31**	**16**	**18**	**14**	**21**	**9.5**
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.50 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.48 J	0.31 J	0.29 J	0.3 J	0.29 J	0.68
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
Vinyl Chloride	2	µg/L	1 UJV	1 U	1 UJV	1 UJV	1.0 U	1.0 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2
		Sample Date:	11/04/2021	8/20/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	150 UD	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	200 UD	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	200 UD	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	µg/L	1 U	100 UD	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	50 UD	NA	NA	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	200 UD	2 U	2 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 U	25000 UD	250 RV	250 RV	250 RV	250 RV
2,2-Dichloropropane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	500 UD	5 U	5 U	5 U	5 U
4-Chlorotoluene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	200 UD	2 U	2 U	2 U	2 U
Acetone	50	µg/L	5 U	500 UD	5 U	**200**	16	5.2
Acrylonitrile	5	µg/L	5 U	500 UD	5 U	5 U	5 U	5 U
Benzene	1	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2
		Sample Date:	11/04/2021	8/20/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	µg/L	2 U	200 UD	2 U	2.1	2 U	2 U
Bromomethane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
Carbon Disulfide	60	µg/L	5 U	500 UD	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	2.1 J	250 UD	2.5 U	2.1 J	2.5 U	2.5 U
Chloromethane	--	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	**190 JD**	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U
Cymene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	5	µg/L	5 U	500 UD	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	µg/L	5 U	500 UD	5 U	5 U	5 U	5 U
Dichloroethylenes	5	µg/L	2.5 U	**190 JD**	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	500 UD	5 U	8.7	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	500 UD	5 U	5 U	5 U	5 U
Methylene Chloride	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	250 UD	2.5 UJV	2.5 UJV	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2
		Sample Date:	11/04/2021	8/20/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	**7.5**	**7700 D**	**49**	0.23 J	**9.1**	**11**
Toluene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	250 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.27 J	**110 D**	0.49 J	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	500 UD	5 U	5 U	5 U	5 U
Vinyl Chloride	2	µg/L	1 U	100 UD	1 U	1 U	1 U	1 U
Xylenes	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
		Sample Date:	08/31/2017	12/07/2017	03/15/2018	12/4/2018	10/1/2020	10/1/2020
		Normal or Field Duplicate:	N	N	N	N	N	FD
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 UJV	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	2 U	2 U	2.0 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 UJV	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	2 U	2 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	1	µg/L	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	NA	NA	0.50 U	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	2 U	2 U	2.0 U	2.0 U	2.0 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 RV	250 RV	250 RV	250 U	250 U	250 U
2,2-Dichloropropane	5	µg/L	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	2 U	2 U	2.0 U	2.0 U	2.0 U
Acetone	50	µg/L	12	5.9	6	5.0 U	5.0 U	5.0 U
Acrylonitrile	5	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Benzene	1	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
		Sample Date:	08/31/2017	12/07/2017	03/15/2018	12/4/2018	10/1/2020	10/1/2020
		Normal or Field Duplicate:	N	N	N	N	N	FD
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.56	0.56
Bromoform	50	µg/L	1 J-V	2 UJV	2 UJV	2.0 U	2.0 U	2.0 U
Bromomethane	5	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
Carbon Disulfide	60	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	5	µg/L	0.5 UJV	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	0.97 J	2.5 U	2.5 U	0.79 J	4.1	4.2
Chloromethane	--	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.5 UJV	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
Dibromomethane	5	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	5	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	1.2 J	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
		Sample Date:	08/31/2017	12/07/2017	03/15/2018	12/4/2018	10/1/2020	10/1/2020
		Normal or Field Duplicate:	N	N	N	N	N	FD
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	3.8	5	**5.3**	**8.1**	**5.1**	**5.1**
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	0.5 U	0.5 U	NA	0.50 U	0.50 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 UJV	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride	2	µg/L	1 U	1 U	1 UJV	1.0 U	1.0 U	1.0 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-2	MW-3	MW-3	MW-3	MW-3	MW-3
		Sample Date:	11/04/2021	8/20/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	25 UD	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	75 UD	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	25 UD	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	100 UD	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	100 UD	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	25 UD	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	µg/L	1 U	50 UD	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	25 UD	NA	NA	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	100 UD	2 U	2 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 U	12000 UD	250 RV	250 RV	250 RV	250 RV
2,2-Dichloropropane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	250 UD	5 U	5 U	5 U	5 U
4-Chlorotoluene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	100 UD	2 U	2 U	2 U	2 U
Acetone	50	µg/L	5 U	250 UD	5 U	**58**	5 U	5 U
Acrylonitrile	5	µg/L	5 U	250 UD	5 U	5 U	5 U	5 U
Benzene	1	µg/L	0.5 U	25 UD	0.5 U	0.5 U	0.5 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-2	MW-3	MW-3	MW-3	MW-3	MW-3
		Sample Date:	11/04/2021	8/20/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.31 J	25 UD	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	µg/L	2 U	100 UD	2 U	1.6 J	2 U	2 U
Bromomethane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
Carbon Disulfide	60	µg/L	5 U	250 UD	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	µg/L	0.5 U	25 UD	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	5.5	120 UD	2.5 U	1.5 J	2.5 U	2.5 U
Chloromethane	--	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.5 U	25 UD	0.5 U	0.5 U	0.5 U	0.5 U
Cymene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	25 UD	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	5	µg/L	5 U	250 UD	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	µg/L	5 U	250 UD	5 U	5 U	5 U	5 U
Dichloroethylenes	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	250 UD	5 U	3.9 J	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	250 UD	5 U	5 U	5 U	5 U
Methylene Chloride	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	120 UD	2.5 UJV	2.5 UJV	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-2	MW-3	MW-3	MW-3	MW-3	MW-3
		Sample Date:	11/04/2021	8/20/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	**8.9**	**2700 D**	**32**	0.5 U	4.2	2.8
Toluene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 U	25 UD	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	120 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.5 U	**28 D**	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	250 UD	5 U	5 U	5 U	5 U
Vinyl Chloride	2	µg/L	1 U	50 UD	1 U	1 U	1 U	1 U
Xylenes	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
		Sample Date:	08/31/2017	08/31/2017	03/15/2018	12/4/2018	10/1/2020	11/04/2021
		Normal or Field Duplicate:	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	2 U	2 U	2.0 U	2.0 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	2 U	2 U	2.0 U	2.0 U	2 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U
1,2-Dichloropropane	1	µg/L	1 U	1 U	1 U	1.0 U	1.0 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	NA	NA	0.50 U	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	2 U	2 U	2.0 U	2.0 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 RV	250 RV	250 RV	250 U	250 U	250 U
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	2 U	2 U	2.0 U	2.0 U	2 U
Acetone	50	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
Acrylonitrile	5	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
Benzene	1	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
		Sample Date:	08/31/2017	08/31/2017	03/15/2018	12/4/2018	10/1/2020	11/04/2021
		Normal or Field Duplicate:	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.31 J	0.50 U	0.5 U
Bromoform	50	µg/L	2 U	2 UJV	2 UJV	2.0 U	2.0 U	2 U
Bromomethane	5	µg/L	2.5 UJV	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
Carbon Disulfide	60	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
Carbon Tetrachloride	5	µg/L	0.5 U	0.5 UJV	0.5 U	0.50 U	0.50 U	0.5 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	2.5 U	2.5 U	2.5 U	1.5 J	3.2	3
Chloromethane	--	µg/L	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.5 U	0.5 UJV	0.5 U	0.50 U	0.50 U	0.5 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U
Dibromomethane	5	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
Dichlorodifluoromethane	5	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
		Sample Date:	08/31/2017	08/31/2017	03/15/2018	12/4/2018	10/1/2020	11/04/2021
		Normal or Field Duplicate:	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	3.3	3	2.3	3.1	1.9	1.6
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	0.5 U	0.5 U	NA	0.50 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 UJV	0.5 U	0.50 U	0.50 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
Vinyl Chloride	2	µg/L	1 UJV	1 U	1 UJV	1.0 U	1.0 U	1 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S
		Sample Date:	8/19/2014	8/19/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	0.50 U	0.50 U	NA	NA	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 U	250 U	250 RV	250 RV	250 RV	250 RV
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
Acetone	50	µg/L	5.0 U	5.0 U	1.6 J	5 U	5 U	11
Acrylonitrile	5	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Benzene	1	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S
		Sample Date:	8/19/2014	8/19/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.50 U	0.50 U	0.77	0.5 U	0.5 U	0.5 U
Bromoform	50	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
Bromomethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Carbon Disulfide	60	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	2.5 U	2.5 U	**9.8**	2.6	2.5 U	2.5 U
Chloromethane	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	5	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 UJV	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S
		Sample Date:	8/19/2014	8/19/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	0.54	0.54	1	0.82	0.25 J	0.5 U
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-5S	MW-5S	MW-5S	MW-6S	MW-6S	MW-6S
		Sample Date:	08/31/2017	03/15/2018	12/4/2018	8/18/2014	07/14/2016	08/18/2016
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	2 U	2.0 U	2.0 U	2 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	2 U	2.0 U	2.0 U	2 U	2 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
1,2-Dichloropropane	1	µg/L	1 U	1 U	1.0 U	1.0 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	NA	0.50 U	0.50 U	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	2 U	2.0 U	2.0 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 RV	250 RV	250 U	250 U	250 RV	250 RV
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	2 U	2.0 U	2.0 U	2 U	2 U
Acetone	50	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
Acrylonitrile	5	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
Benzene	1	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-5S	MW-5S	MW-5S	MW-6S	MW-6S	MW-6S
		Sample Date:	08/31/2017	03/15/2018	12/4/2018	8/18/2014	07/14/2016	08/18/2016
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
Bromoform	50	µg/L	2 U	2 U	2.0 U	2.0 U	2 U	2 U
Bromomethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
Carbon Disulfide	60	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
Carbon Tetrachloride	5	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	--	µg/L	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
Dibromomethane	5	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
Dichlorodifluoromethane	5	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 UJV
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-5S	MW-5S	MW-5S	MW-6S	MW-6S	MW-6S
		Sample Date:	08/31/2017	03/15/2018	12/4/2018	8/18/2014	07/14/2016	08/18/2016
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	0.5 U	0.5 U	0.50 U	**7.2**	3.4	1.8
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	0.5 U	NA	NA	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
Trichloroethylene (TCE)	5	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
Vinyl Chloride	2	µg/L	1 UJV	1 UJV	1.0 U	1.0 U	1 U	1 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-6S	MW-6S	MW-6S	MW-8	MW-8	MW-8
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	07/14/2016	08/18/2016	08/18/2016
		Normal or Field Duplicate:	N	N	N	N	N	FD
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	3 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 UJV	2.5 UJV
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	2 U	2 U	4 U	2 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 UJV	2.5 UJV
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	2 U	2 U	4 U	2 U	2 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,2-Dichloropropane	1	µg/L	1 U	1 U	1 U	2 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	2 U	2 U	4 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 RV	250 RV	250 RV	500 RV	250 RV	250 RV
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	2 U	2 U	4 U	2 U	2 U
Acetone	50	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
Acrylonitrile	5	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
Benzene	1	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-6S	MW-6S	MW-6S	MW-8	MW-8	MW-8
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	07/14/2016	08/18/2016	08/18/2016
		Normal or Field Duplicate:	N	N	N	N	N	FD
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	1	1.9	1.9
Bromoform	50	µg/L	2 U	2 U	2 U	4 U	2 U	2 U
Bromomethane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 UJV	2.5 UJV
Carbon Disulfide	60	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
Carbon Tetrachloride	5	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	2.5 U	2.5 U	2.5 U	**12**	**19**	**19**
Chloromethane	--	µg/L	2.5 U	2.5 U	2.5 UJV	5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.4 J	2 J	2 J
Cis-1,3-Dichloropropene	5	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Dibromomethane	5	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
Dichlorodifluoromethane	5	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.4 J	2 J	2 J
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 U	5 UJV	2.5 UJV	2.5 UJV
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 UJV	2.5 UJV
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-6S	MW-6S	MW-6S	MW-8	MW-8	MW-8
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	07/14/2016	08/18/2016	08/18/2016
		Normal or Field Duplicate:	N	N	N	N	N	FD
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 UJV	2.5 UJV
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	0.5 U	0.5 U	0.24 J	**140**	**140**	**140**
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 UJV	2.5 UJV
Trichloroethylene (TCE)	5	µg/L	0.5 U	0.5 U	0.5 U	2.9	2.8	2.8
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
Vinyl Chloride	2	µg/L	1 U	1 U	1 UJV	2 U	1 U	1 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	12/07/2017	03/15/2018	12/4/2018
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 UJV	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	2 U	2 U	2 U	2 U	2.0 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 UJV	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	2 U	2 U	2 U	2 U	2.0 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
1,2-Dichloropropane	1	µg/L	1 U	1 U	1 U	1 U	1 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	NA	NA	NA	NA	0.50 U
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	2 U	2 U	2 U	2 U	2.0 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 RV	250 RV	250 RV	250 RV	250 RV	250 U
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	2 U	2 U	2 U	2 U	2.0 U
Acetone	50	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Acrylonitrile	5	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Benzene	1	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	12/07/2017	03/15/2018	12/4/2018
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
Bromoform	50	µg/L	2 U	2 U	2 UJV	2 UJV	2 UJV	2.0 U
Bromomethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U
Carbon Disulfide	60	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Carbon Tetrachloride	5	µg/L	0.5 U	0.5 U	0.5 UJV	0.5 U	0.5 U	0.50 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	1.1 J	2.5 U	2.5 U	0.78 J	0.96 J	2.5 U
Chloromethane	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.5 U	0.5 U	0.5 UJV	0.5 U	0.5 U	0.50 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
Dibromomethane	5	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Dichlorodifluoromethane	5	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	12/07/2017	03/15/2018	12/4/2018
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	**36**	**22**	**20**	**20**	**17**	**17**
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 UJV	0.5 U	0.5 U	0.50 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.9	0.49 J	0.52	0.52	0.49 J	0.40 J
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Vinyl Chloride	2	µg/L	1 U	1 U	1 U	1 U	1 UJV	1.0 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-8	MW-8	MW-8	MW-8	MW-9	MW-9
		Sample Date:	12/4/2018	10/1/2020	11/04/2021	11/04/2021	07/14/2016	08/18/2016
		Normal or Field Duplicate:	FD	N	N	FD	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	0.50 U	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 U	250 U	250 U	250 U	250 RV	250 RV
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
Acetone	50	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Benzene	1	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-8	MW-8	MW-8	MW-8	MW-9	MW-9
		Sample Date:	12/4/2018	10/1/2020	11/04/2021	11/04/2021	07/14/2016	08/18/2016
		Normal or Field Duplicate:	FD	N	N	FD	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.50 U	0.45 J	0.34 J	0.24 J	0.5 U	0.5 U
Bromoform	50	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
Bromomethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
Carbon Disulfide	60	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	2.5 U	**9.3**	6.4	5.7	2.5 U	2.5 U
Chloromethane	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	5	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 UJV
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-8	MW-8	MW-8	MW-8	MW-9	MW-9
		Sample Date:	12/4/2018	10/1/2020	11/04/2021	11/04/2021	07/14/2016	08/18/2016
		Normal or Field Duplicate:	FD	N	N	FD	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	**18**	**7.9**	**5.1**	**5.1**	**20**	**24**
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	NA	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
Trichloroethylene (TCE)	5	µg/L	0.38 J	0.61	0.28 J	0.26 J	0.61	0.79
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	12/07/2017	03/15/2018	12/4/2018
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 UJV	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	2 U	2 U	2 U	2 U	2.0 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 UJV	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	2 U	2 U	2 U	2 U	2.0 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
1,2-Dichloropropane	1	µg/L	1 U	1 U	1 U	1 U	1 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	NA	NA	NA	NA	0.50 U
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	2 U	2 U	2 U	2 U	2.0 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 RV	250 RV	250 RV	250 RV	250 RV	250 U
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	2 U	2 U	2 U	2 U	2.0 U
Acetone	50	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Acrylonitrile	5	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Benzene	1	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	12/07/2017	03/15/2018	12/4/2018
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
Bromoform	50	µg/L	2 U	2 U	2 UJV	2 UJV	2 UJV	2.0 U
Bromomethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U
Carbon Disulfide	60	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Carbon Tetrachloride	5	µg/L	0.5 U	0.5 U	0.5 UJV	0.5 U	0.5 U	0.50 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	0.84 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.5 U	0.5 U	0.5 UJV	0.5 U	0.5 U	0.50 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
Dibromomethane	5	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Dichlorodifluoromethane	5	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	12/07/2017	03/15/2018	12/4/2018
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	**35**	**33**	**12**	**20**	**13**	**14**
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 UJV	0.5 U	0.5 U	0.50 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.75	0.64	0.45 J	0.45 J	0.4 J	0.51
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Vinyl Chloride	2	µg/L	1 U	1 U	1 U	1 U	1 UJV	1.0 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-9	MW-9
		Sample Date:	10/1/2020	11/04/2021
		Normal or Field Duplicate:	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units		
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.50 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.50 U	0.5 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2.0 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2.0 U	2 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.50 U	0.5 U
1,2-Dichloropropane	1	µg/L	1.0 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2.0 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 U	250 U
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U
2-Hexanone	50	µg/L	5.0 U	5 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2.0 U	2 U
Acetone	50	µg/L	5.0 U	5 U
Acrylonitrile	5	µg/L	5.0 U	5 U
Benzene	1	µg/L	0.50 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-9	MW-9
		Sample Date:	10/1/2020	11/04/2021
		Normal or Field Duplicate:	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units		
Bromobenzene	5	µg/L	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.50 U	0.34 J
Bromoform	50	µg/L	2.0 U	2 U
Bromomethane	5	µg/L	2.5 U	2.5 U
Carbon Disulfide	60	µg/L	5.0 U	5 U
Carbon Tetrachloride	5	µg/L	0.50 U	0.5 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U
Chloroform	**7**	µg/L	0.85 J	6.1
Chloromethane	--	µg/L	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.50 U	0.5 U
Cymene	5	µg/L	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.50 U	0.5 U
Dibromomethane	5	µg/L	5.0 U	5 U
Dichlorodifluoromethane	5	µg/L	5.0 U	5 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5.0 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5.0 U	5 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 U

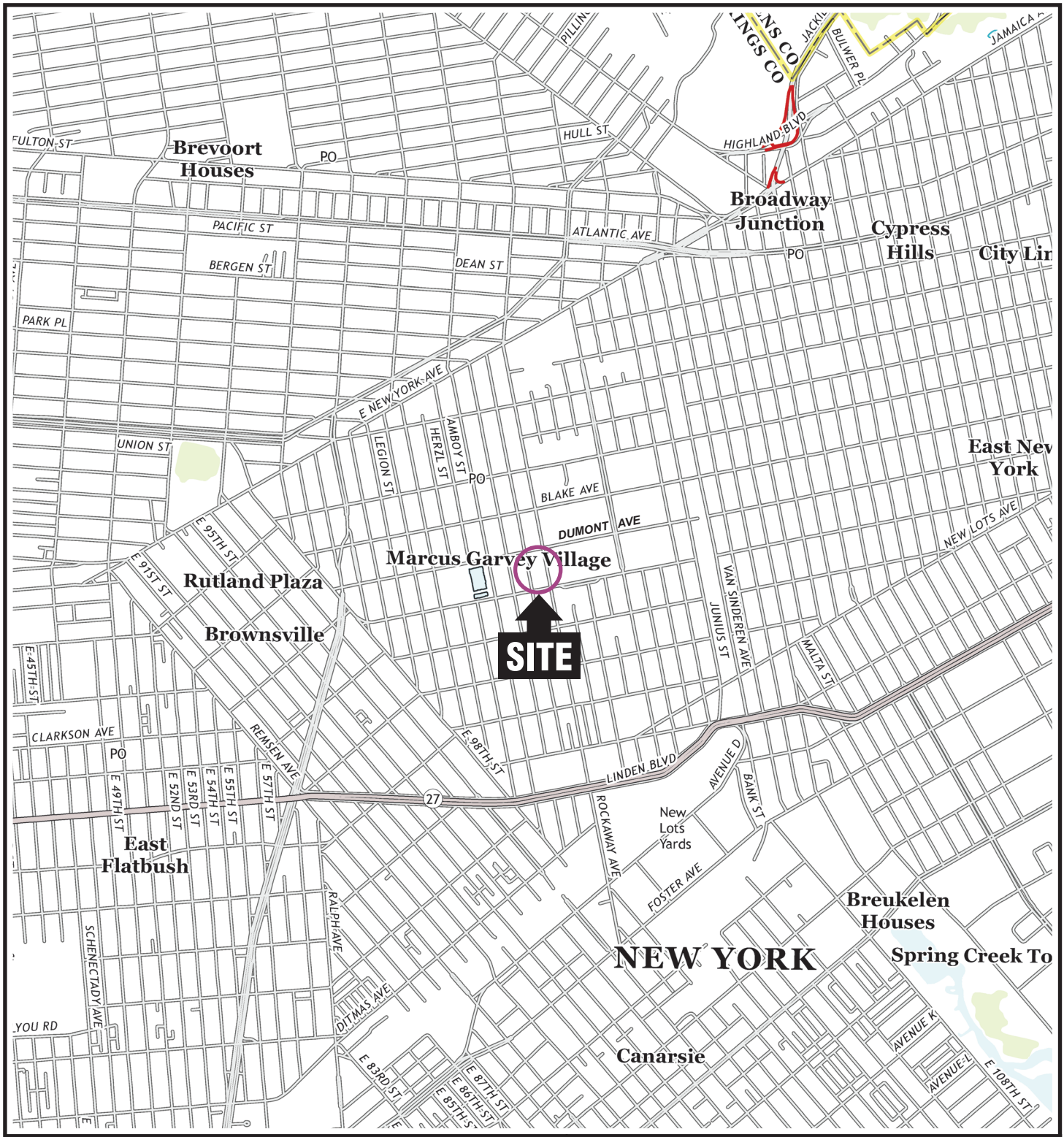
Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-9	MW-9
		Sample Date:	10/1/2020	11/04/2021
		Normal or Field Duplicate:	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units		
T-Butylbenzene	5	µg/L	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	**12**	**6.6**
Toluene	5	µg/L	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.50 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.50 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.26 J	0.48 J
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5.0 U	5 U
Vinyl Chloride	2	µg/L	1.0 U	1 U
Xylenes	5	µg/L	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

FIGURES

1. Site Location
2. As-Built Sub-Slab Depressurization System Plan



QUADRANGLE LOCATION

SOURCE:
USGS; 2013, Brooklyn, NY
7.5 Minute Topographic Quadrangle

N

0 2000'

Title:

SITE LOCATION MAP

MARCUS GARVEY APARTMENTS
650 ROCKAWAY AVENUE, BROOKLYN, NEW YORK

Prepared for:

C+C APARTMENT MANAGERS LLC

ROUX

Compiled by: L.C.	Date: 03JUN19	FIGURE
Prepared by: B.H.C.	Scale: AS SHOWN	1
Project Mgr.: L.C.	Project No.: 2158.0002Y004	
File: 2158.0002Y162.01.CDR		

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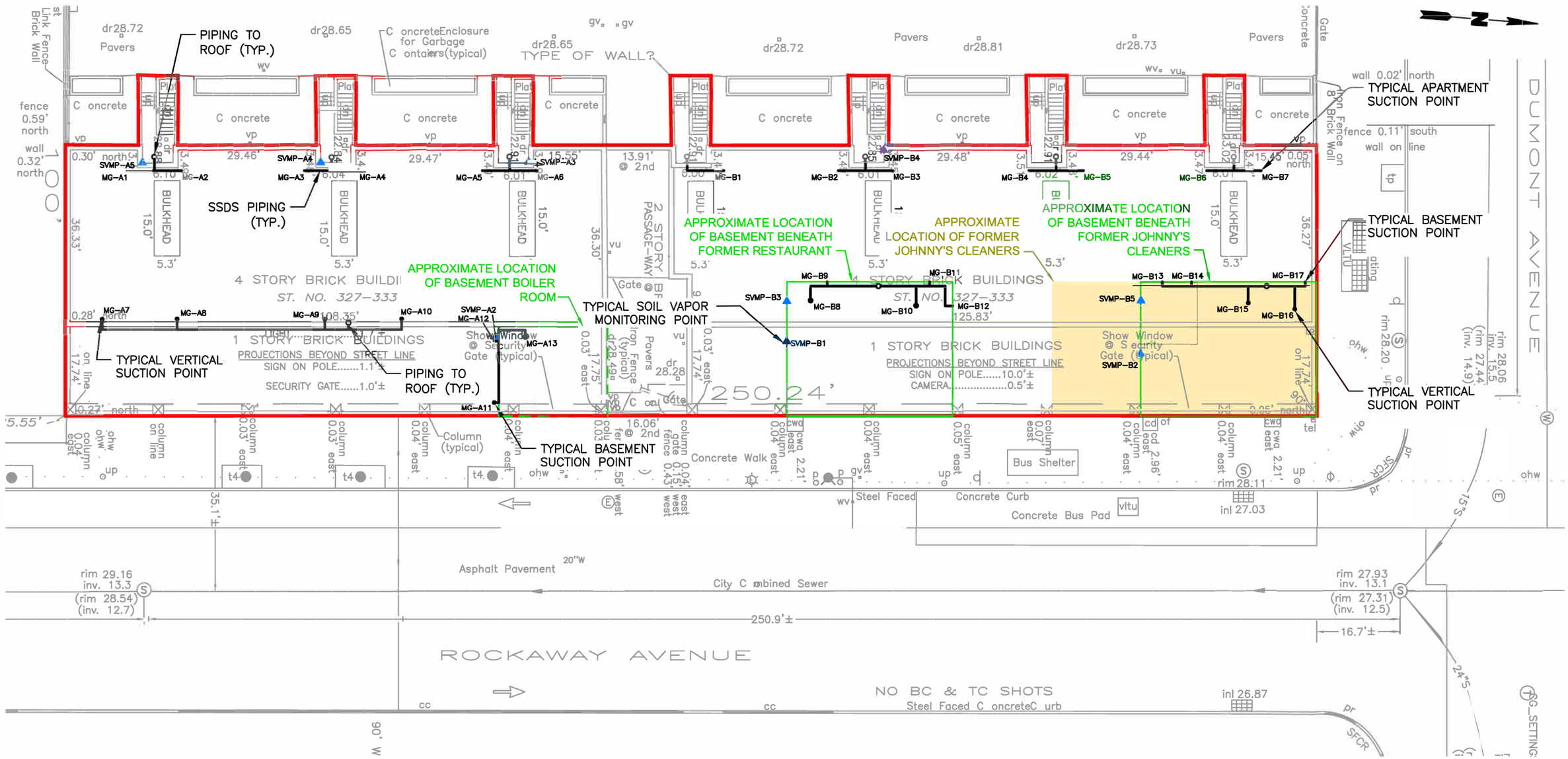

LEGEND

- APPROXIMATE FOOTPRINT OF FORMER JOHNNY'S CLEANERS
- BCP SITE /ENVIRONMENTAL EASEMENT BOUNDARY
- APPROXIMATE LOCATION OF BASEMENT
- SVMP-B4 ▲ LOCATION AND DESIGNATION OF TYPICAL SOIL VAPOR MONITORING POINT

NOTES

1. SITE PLAN ADAPTED FROM SURVEY PREPARED BY MONTROSE SURVEYING CO., LLP (SURVEY NO. 64991-1)
2. NOT ALL SSDS PIPING IS SHOWN FOR CLARITY REASONS.
3. SVMP-A1 IS NO LONGER BEING MONITORED AS OF JANUARY 2017.

Title:

AS-BUILT SUB-SLAB DEPRESSURIZATION SYSTEM PLAN

MARCUS GARVEY APARTMENTS
650 ROCKAWAY AVENUE, BROOKLYN, NEW YORK

Prepared For:
C+C APARTMENT MANAGERS LLC

ROUX

Compiled by: L.C.	Date: 11MAY22	FIGURE
Prepared by: B.H.C.	Scale: AS SHOWN	2
Project Mgr: L.C.	Project: 2158.0002Y004	
File: 2158.0002Y162.02.DWG		

V:\CAD\PROJECTS\2158Y\0002Y\162\2158.0002Y162.02.DWG

APPENDICES

A. Groundwater Monitoring Reports and DUSRs
B. Site Cover System
C. IC and EC Certification Form
D. Annual Site Inspection Checklist
E. Annual Inspection Photograph Log
F. Monthly SSDS O&M Logs

APPENDIX A

Groundwater Monitoring Reports and DUSRs

March 7, 2022

Mr. Christopher Heller
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau A
625 Broadway
Albany, New York 12233-7015

Re: 2021 Annual Groundwater Sampling Event Summary
Site Management Plan Groundwater Monitoring Program
Marcus Garvey Apartments
Site Number C224198
650 Rockaway Avenue, Brooklyn, New York

Dear Mr. Heller:

This letter is to summarize 2021 annual groundwater sampling activities at the site known as Marcus Garvey Apartments located at 650 Rockaway Avenue (a.k.a. 654, 658, 666, 670, 674 Rockaway Avenue and 327, 329, 331, 333, 335, 337, 339 Chester Street) in the Brownsville section of Brooklyn, New York (Site). Marcus Garvey Preservation LLC entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in March 2015 as a Volunteer (Site Number C224198). In accordance with the Site Management Plan (SMP) for the Site dated November 2016, Roux Environmental Engineering and Geology, D.P.C. (Roux) conducted groundwater sampling on behalf of Marcus Garvey Preservation LLC. As described in the SMP, the constituents of concern (COCs) for the Site in groundwater are chlorinated volatile organic compounds (CVOCs); primarily tetrachloroethylene (PCE) and its breakdown products trichloroethylene (TCE) and cis-1,2-dichloroethene (1,2-DCE). The remedy for the Site included the removal of source material soil and implementation of *in situ* potassium permanganate injections completed in July and August 2016, respectively.

As per the SMP, the Site monitoring and sampling plan required groundwater monitoring for a total of seven rounds after the certificate of completion was issued for the Site. The network of monitoring wells was designed to monitor on-Site and downgradient groundwater conditions at the Site. Groundwater flow direction is generally to the south. The original monitoring network defined in the SMP included on-Site groundwater monitoring wells MW-1, MW-2, and MW-3 and off-Site groundwater monitoring wells MW-5S, MW-6S, MW-8, and MW-9 (Plate 1). On November 21, 2017, NYSDEC approved to permanently remove well MW-6S from the monitoring network. On April 3, 2020, NYSDEC approved to permanently remove well MW-5S from the monitoring network and reduce the sampling frequency from quarterly to annually. The off-Site monitoring wells MW-5S and MW-6S remain in place.

In accordance with NYSDEC's April 3, 2020 determination mentioned above, groundwater sampling was performed by Roux at five monitoring wells; MW-1, MW-2, MW-3, MW-8, and MW-9 on November 4, 2021. This was the ninth post-remediation sampling round completed and eighth after the issuance of

209 Shafter Street ■ Islandia, New York 11749 ■ +1.631.232.2600 ■ www.rouxinc.com
California ■ Illinois ■ Massachusetts ■ New Jersey ■ New York ■ Texas ■ Virginia

the Site certificate of completion. Wells were sampled using a low-flow, peristaltic pump technique and analyzed for VOCs by Alpha Analytical Laboratories in Westborough, Massachusetts.

The laboratory analytical report (including the chain-of-custody) and field sampling sheets are included as Attachments 1 and 2, respectively. Table 1 shows the results of historic groundwater samples collected in August 2014 (reported in the Roux January 2016 Remedial Investigation Report/Remedial Action Work Plan [RIR/RAWP]), baseline sampling on July 14, 2016, and all post-remediation sampling events to date. Plate 1 presents the sample results over time. Plate 1 includes only those parameters with at least one exceedance of NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1.) Ambient Water Quality Standards and Guidance Values (AWQSGVs) at a particular well.

TCE was detected at one monitoring well (on-site well MW-1) but the concentration did not exceed the AWQSGV. There were no detections of 1,2-DCE observed in the November 2021 sampling round. The trends in the PCE concentrations observed in on-Site and off-Site monitoring wells with time are summarized below.

PCE Trends in On-Site Monitoring Wells

The highest concentration of PCE in on-Site monitoring wells was detected on August 20, 2014 at 7,700 micrograms per liter (µg/L) from the sample taken from MW-2. Results from MW-2 from the November 2021 sampling event show that the PCE concentration was 8.9 µg/L, which is slightly above the NYSDEC AWQSGV of 5 µg/L. At well MW-1, the highest concentration of PCE was detected at 3,200 µg/L in August 2014 and PCE was detected at 7.5 µg/L in well MW-1 during the November 2021 sampling event. The PCE results at MW-1 are the lowest post-remediation concentrations observed to date. MW-3 has been non-detect or below AWQSGVs for PCE for all post-remediation sampling events since August 2016. When compared to their 2014 sample concentrations, all on-Site monitoring wells continue to exhibit over a 99% reduction in PCE since the August 2017 sampling event.

PCE Trends in Off-Site Monitoring Wells

MW-8 is the off-Site well located closest to where the *in situ* injections were completed at the Site. In November 2021, PCE was detected at MW-8 at a concentration of 5.1 µg/L (in both the parent and duplicate sample), which corresponds to a greater than an 96% reduction when compared to the baseline sample (July 2016) result of 140 µg/L. MW-9 is farther downgradient and PCE was detected at 6.6 ppb during the November 2021 sampling event, which is below the PCE concentration detected during the July 2016 baseline sampling (20 ppb). Furthermore, due to the distance of MW-9 from the injections area significant influence was not expected at this well, however, concentrations remain low and are continuing to trend downward. The PCE results at off-Site wells MW-8 and MW-9 are also the lowest post-remediation concentrations observed to date.

Request to Terminate Groundwater Sampling Program

The data presented in this report continue to demonstrate that the remedial actions implemented at the Site were effective. At the off-Site wells MW-8 and MW-9 PCE, concentrations are the lowest observed to date and remain only slightly above NYSDEC AWQSGVs. In addition, concentrations of COCs in all on-Site monitoring wells have exhibited reductions of at least 99% in all post-remediation samples since the August 2017 sampling event. Consistently low to non-detect concentrations of the COCs in groundwater monitoring wells across the Site show that asymptotic conditions have be reached. Due

to these observations, Marcus Garvey Preservation LLC respectfully requests that the Site groundwater sampling program be terminated at this time.

Please do not hesitate to contact Noelle Clarke, P.E. or Levi Curnutte at (631) 232-2600 if you have questions or require additional information.

Sincerely,

ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C.

Levi Curnutte
Project Scientist / Project Manager

Noelle M. Clarke, P.E.
Principal Engineer

Attachments

TABLES

1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
		Sample Date:	8/20/2014	07/14/2016	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	FD	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	25 UD	1.2 U	1 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	75 UD	3.8 U	3 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	25 UD	1.2 U	1 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 UJV	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	100 UD	5 U	4 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 UJV	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	100 UD	5 U	4 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	25 UD	1.2 U	1 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	µg/L	50 UD	2.5 U	2 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	25 UD	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	100 UD	5 U	4 U	2 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	12000 UD	620 RV	500 RV	250 RV	250 RV	250 RV
2,2-Dichloropropane	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	250 UD	12 U	10 U	5 U	5 U	5 U
4-Chlorotoluene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	100 UD	5 U	4 U	2 U	2 U	2 U
Acetone	50	µg/L	250 UD	12 U	10 U	4.2 J	2.6 J	5 U
Acrylonitrile	5	µg/L	250 UD	12 U	10 U	5 U	5 U	5 U
Benzene	1	µg/L	25 UD	1.2 U	1 U	0.5 U	0.5 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
		Sample Date:	8/20/2014	07/14/2016	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	FD	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	25 UD	0.56 J	0.57 J	0.48 J	0.5 U	0.5 U
Bromoform	50	µg/L	100 UD	5 U	4 U	2 U	2 U	2 U
Bromomethane	5	µg/L	120 UD	6.2 U	5 U	2.5 UJV	2.5 U	2.5 U
Carbon Disulfide	60	µg/L	250 UD	12 U	10 U	5 U	5 U	5 U
Carbon Tetrachloride	5	µg/L	25 UD	1.2 U	1 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	120 UD	6.4	6.8	4.7	2.5 U	2.5 U
Chloromethane	--	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	**60 JD**	2.2 J	2.3 J	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	25 UD	1.2 U	1 U	0.5 U	0.5 U	0.5 U
Cymene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	25 UD	1.2 U	1 U	0.5 U	0.5 U	0.5 U
Dibromomethane	5	µg/L	250 UD	12 U	10 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	µg/L	250 UD	12 U	10 U	5 U	5 U	5 U
Dichloroethylenes	5	µg/L	**60 JD**	2.2 J	2.3 J	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	250 UD	12 U	10 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	250 UD	12 U	10 U	5 U	5 U	5 U
Methylene Chloride	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	120 UD	6.2 UJV	5 UJV	2.5 UJV	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 UJV	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
		Sample Date:	8/20/2014	07/14/2016	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	FD	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	120 UD	6.2 U	5 U	2.5 UJV	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	**3200 D**	**220**	**240**	**110**	**62**	**78**
Toluene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	NA	1.2 U	1 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	25 UD	1.2 U	1 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	120 UD	6.2 U	5 U	2.5 UJV	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	**40 D**	2.6	2.8	0.5 U	0.59	0.72
Trichlorofluoromethane	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	250 UD	12 U	10 U	5 U	5 U	5 U
Vinyl Chloride	2	µg/L	50 UD	2.5 U	2 U	1 U	1 U	1 U
Xylenes	5	µg/L	120 UD	6.2 U	5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
		Sample Date:	08/31/2017	12/07/2017	03/15/2018	03/15/2018	12/4/2018	10/1/2020
		Normal or Field Duplicate:	N	N	N	FD	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	2 U	2 U	2 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	2 U	2 U	2 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
1,2-Dichloropropane	1	µg/L	1 U	1 U	1 U	1 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	NA	NA	NA	0.50 U	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	2 U	2 U	2 U	2.0 U	2.0 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 RV	250 RV	250 RV	250 RV	250 U	250 U
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	2 U	2 U	2 U	2.0 U	2.0 U
Acetone	50	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
Acrylonitrile	5	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
Benzene	1	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
		Sample Date:	08/31/2017	12/07/2017	03/15/2018	03/15/2018	12/4/2018	10/1/2020
		Normal or Field Duplicate:	N	N	N	FD	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.59
Bromoform	50	µg/L	2 U	2 UJV	2 U	2 UJV	2.0 U	2.0 U
Bromomethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Carbon Disulfide	60	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
Carbon Tetrachloride	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	**13**
Chloromethane	--	µg/L	2.5 UJV	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
Dibromomethane	5	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
Dichlorodifluoromethane	5	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
		Sample Date:	08/31/2017	12/07/2017	03/15/2018	03/15/2018	12/4/2018	10/1/2020
		Normal or Field Duplicate:	N	N	N	FD	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	**31**	**16**	**18**	**14**	**21**	**9.5**
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.50 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.48 J	0.31 J	0.29 J	0.3 J	0.29 J	0.68
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	5 U	5 U	5 U	5.0 U	5.0 U
Vinyl Chloride	2	µg/L	1 UJV	1 U	1 UJV	1 UJV	1.0 U	1.0 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2
		Sample Date:	11/04/2021	8/20/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	150 UD	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	200 UD	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	200 UD	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	µg/L	1 U	100 UD	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	50 UD	NA	NA	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	200 UD	2 U	2 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 U	25000 UD	250 RV	250 RV	250 RV	250 RV
2,2-Dichloropropane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	500 UD	5 U	5 U	5 U	5 U
4-Chlorotoluene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	200 UD	2 U	2 U	2 U	2 U
Acetone	50	µg/L	5 U	500 UD	5 U	**200**	16	5.2
Acrylonitrile	5	µg/L	5 U	500 UD	5 U	5 U	5 U	5 U
Benzene	1	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2
		Sample Date:	11/04/2021	8/20/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	µg/L	2 U	200 UD	2 U	2.1	2 U	2 U
Bromomethane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
Carbon Disulfide	60	µg/L	5 U	500 UD	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	2.1 J	250 UD	2.5 U	2.1 J	2.5 U	2.5 U
Chloromethane	--	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	**190 JD**	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U
Cymene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	5	µg/L	5 U	500 UD	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	µg/L	5 U	500 UD	5 U	5 U	5 U	5 U
Dichloroethylenes	5	µg/L	2.5 U	**190 JD**	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	500 UD	5 U	8.7	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	500 UD	5 U	5 U	5 U	5 U
Methylene Chloride	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	250 UD	2.5 UJV	2.5 UJV	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2
		Sample Date:	11/04/2021	8/20/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	**7.5**	**7700 D**	**49**	0.23 J	**9.1**	**11**
Toluene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 U	50 UD	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	250 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.27 J	**110 D**	0.49 J	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	500 UD	5 U	5 U	5 U	5 U
Vinyl Chloride	2	µg/L	1 U	100 UD	1 U	1 U	1 U	1 U
Xylenes	5	µg/L	2.5 U	250 UD	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
		Sample Date:	08/31/2017	12/07/2017	03/15/2018	12/4/2018	10/1/2020	10/1/2020
		Normal or Field Duplicate:	N	N	N	N	N	FD
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 UJV	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	2 U	2 U	2.0 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 UJV	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	2 U	2 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	1	µg/L	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	NA	NA	0.50 U	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	2 U	2 U	2.0 U	2.0 U	2.0 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 RV	250 RV	250 RV	250 U	250 U	250 U
2,2-Dichloropropane	5	µg/L	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	2 U	2 U	2.0 U	2.0 U	2.0 U
Acetone	50	µg/L	12	5.9	6	5.0 U	5.0 U	5.0 U
Acrylonitrile	5	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Benzene	1	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
		Sample Date:	08/31/2017	12/07/2017	03/15/2018	12/4/2018	10/1/2020	10/1/2020
		Normal or Field Duplicate:	N	N	N	N	N	FD
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.56	0.56
Bromoform	50	µg/L	1 J-V	2 UJV	2 UJV	2.0 U	2.0 U	2.0 U
Bromomethane	5	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
Carbon Disulfide	60	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	5	µg/L	0.5 UJV	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	0.97 J	2.5 U	2.5 U	0.79 J	4.1	4.2
Chloromethane	--	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.5 UJV	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
Dibromomethane	5	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	5	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	1.2 J	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
		Sample Date:	08/31/2017	12/07/2017	03/15/2018	12/4/2018	10/1/2020	10/1/2020
		Normal or Field Duplicate:	N	N	N	N	N	FD
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	3.8	5	**5.3**	**8.1**	**5.1**	**5.1**
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	0.5 U	0.5 U	NA	0.50 U	0.50 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 UJV	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride	2	µg/L	1 U	1 U	1 UJV	1.0 U	1.0 U	1.0 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-2	MW-3	MW-3	MW-3	MW-3	MW-3
		Sample Date:	11/04/2021	8/20/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	25 UD	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	75 UD	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	25 UD	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	100 UD	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	100 UD	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	25 UD	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	µg/L	1 U	50 UD	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	25 UD	NA	NA	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	100 UD	2 U	2 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 U	12000 UD	250 RV	250 RV	250 RV	250 RV
2,2-Dichloropropane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	250 UD	5 U	5 U	5 U	5 U
4-Chlorotoluene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	100 UD	2 U	2 U	2 U	2 U
Acetone	50	µg/L	5 U	250 UD	5 U	**58**	5 U	5 U
Acrylonitrile	5	µg/L	5 U	250 UD	5 U	5 U	5 U	5 U
Benzene	1	µg/L	0.5 U	25 UD	0.5 U	0.5 U	0.5 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-2	MW-3	MW-3	MW-3	MW-3	MW-3
		Sample Date:	11/04/2021	8/20/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.31 J	25 UD	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	µg/L	2 U	100 UD	2 U	1.6 J	2 U	2 U
Bromomethane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
Carbon Disulfide	60	µg/L	5 U	250 UD	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	µg/L	0.5 U	25 UD	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	5.5	120 UD	2.5 U	1.5 J	2.5 U	2.5 U
Chloromethane	--	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.5 U	25 UD	0.5 U	0.5 U	0.5 U	0.5 U
Cymene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	25 UD	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	5	µg/L	5 U	250 UD	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	µg/L	5 U	250 UD	5 U	5 U	5 U	5 U
Dichloroethylenes	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	250 UD	5 U	3.9 J	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	250 UD	5 U	5 U	5 U	5 U
Methylene Chloride	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	120 UD	2.5 UJV	2.5 UJV	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-2	MW-3	MW-3	MW-3	MW-3	MW-3
		Sample Date:	11/04/2021	8/20/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	**8.9**	**2700 D**	**32**	0.5 U	4.2	2.8
Toluene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 U	25 UD	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	120 UD	2.5 U	2.5 UJV	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.5 U	**28 D**	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	250 UD	5 U	5 U	5 U	5 U
Vinyl Chloride	2	µg/L	1 U	50 UD	1 U	1 U	1 U	1 U
Xylenes	5	µg/L	2.5 U	120 UD	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
		Sample Date:	08/31/2017	08/31/2017	03/15/2018	12/4/2018	10/1/2020	11/04/2021
		Normal or Field Duplicate:	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	2 U	2 U	2.0 U	2.0 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	2 U	2 U	2.0 U	2.0 U	2 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U
1,2-Dichloropropane	1	µg/L	1 U	1 U	1 U	1.0 U	1.0 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	NA	NA	0.50 U	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	2 U	2 U	2.0 U	2.0 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 RV	250 RV	250 RV	250 U	250 U	250 U
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	2 U	2 U	2.0 U	2.0 U	2 U
Acetone	50	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
Acrylonitrile	5	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
Benzene	1	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
		Sample Date:	08/31/2017	08/31/2017	03/15/2018	12/4/2018	10/1/2020	11/04/2021
		Normal or Field Duplicate:	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.31 J	0.50 U	0.5 U
Bromoform	50	µg/L	2 U	2 UJV	2 UJV	2.0 U	2.0 U	2 U
Bromomethane	5	µg/L	2.5 UJV	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
Carbon Disulfide	60	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
Carbon Tetrachloride	5	µg/L	0.5 U	0.5 UJV	0.5 U	0.50 U	0.50 U	0.5 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	2.5 U	2.5 U	2.5 U	1.5 J	3.2	3
Chloromethane	--	µg/L	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.5 U	0.5 UJV	0.5 U	0.50 U	0.50 U	0.5 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U
Dibromomethane	5	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
Dichlorodifluoromethane	5	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
		Sample Date:	08/31/2017	08/31/2017	03/15/2018	12/4/2018	10/1/2020	11/04/2021
		Normal or Field Duplicate:	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	3.3	3	2.3	3.1	1.9	1.6
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	0.5 U	0.5 U	NA	0.50 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 UJV	0.5 U	0.50 U	0.50 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	5 U	5 U	5.0 U	5.0 U	5 U
Vinyl Chloride	2	µg/L	1 UJV	1 U	1 UJV	1.0 U	1.0 U	1 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S
		Sample Date:	8/19/2014	8/19/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	0.50 U	0.50 U	NA	NA	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 U	250 U	250 RV	250 RV	250 RV	250 RV
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
Acetone	50	µg/L	5.0 U	5.0 U	1.6 J	5 U	5 U	11
Acrylonitrile	5	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Benzene	1	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S
		Sample Date:	8/19/2014	8/19/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.50 U	0.50 U	0.77	0.5 U	0.5 U	0.5 U
Bromoform	50	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
Bromomethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Carbon Disulfide	60	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	2.5 U	2.5 U	**9.8**	2.6	2.5 U	2.5 U
Chloromethane	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	5	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 UJV	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S
		Sample Date:	8/19/2014	8/19/2014	07/14/2016	08/18/2016	02/28/2017	06/13/2017
		Normal or Field Duplicate:	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	0.54	0.54	1	0.82	0.25 J	0.5 U
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-5S	MW-5S	MW-5S	MW-6S	MW-6S	MW-6S
		Sample Date:	08/31/2017	03/15/2018	12/4/2018	8/18/2014	07/14/2016	08/18/2016
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	2 U	2.0 U	2.0 U	2 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	2 U	2.0 U	2.0 U	2 U	2 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
1,2-Dichloropropane	1	µg/L	1 U	1 U	1.0 U	1.0 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	NA	0.50 U	0.50 U	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	2 U	2.0 U	2.0 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 RV	250 RV	250 U	250 U	250 RV	250 RV
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	2 U	2.0 U	2.0 U	2 U	2 U
Acetone	50	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
Acrylonitrile	5	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
Benzene	1	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-5S	MW-5S	MW-5S	MW-6S	MW-6S	MW-6S
		Sample Date:	08/31/2017	03/15/2018	12/4/2018	8/18/2014	07/14/2016	08/18/2016
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
Bromoform	50	µg/L	2 U	2 U	2.0 U	2.0 U	2 U	2 U
Bromomethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
Carbon Disulfide	60	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
Carbon Tetrachloride	5	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	--	µg/L	2.5 UJV	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
Dibromomethane	5	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
Dichlorodifluoromethane	5	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 UJV
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-5S	MW-5S	MW-5S	MW-6S	MW-6S	MW-6S
		Sample Date:	08/31/2017	03/15/2018	12/4/2018	8/18/2014	07/14/2016	08/18/2016
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	0.5 U	0.5 U	0.50 U	**7.2**	3.4	1.8
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	0.5 U	NA	NA	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
Trichloroethylene (TCE)	5	µg/L	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	5 U	5.0 U	5.0 U	5 U	5 U
Vinyl Chloride	2	µg/L	1 UJV	1 UJV	1.0 U	1.0 U	1 U	1 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-6S	MW-6S	MW-6S	MW-8	MW-8	MW-8
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	07/14/2016	08/18/2016	08/18/2016
		Normal or Field Duplicate:	N	N	N	N	N	FD
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	3 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 UJV	2.5 UJV
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	2 U	2 U	4 U	2 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 UJV	2.5 UJV
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	2 U	2 U	4 U	2 U	2 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,2-Dichloropropane	1	µg/L	1 U	1 U	1 U	2 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	2 U	2 U	4 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 RV	250 RV	250 RV	500 RV	250 RV	250 RV
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	2 U	2 U	4 U	2 U	2 U
Acetone	50	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
Acrylonitrile	5	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
Benzene	1	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-6S	MW-6S	MW-6S	MW-8	MW-8	MW-8
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	07/14/2016	08/18/2016	08/18/2016
		Normal or Field Duplicate:	N	N	N	N	N	FD
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	1	1.9	1.9
Bromoform	50	µg/L	2 U	2 U	2 U	4 U	2 U	2 U
Bromomethane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 UJV	2.5 UJV
Carbon Disulfide	60	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
Carbon Tetrachloride	5	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	2.5 U	2.5 U	2.5 U	**12**	**19**	**19**
Chloromethane	--	µg/L	2.5 U	2.5 U	2.5 UJV	5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.4 J	2 J	2 J
Cis-1,3-Dichloropropene	5	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Dibromomethane	5	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
Dichlorodifluoromethane	5	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.4 J	2 J	2 J
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 U	5 UJV	2.5 UJV	2.5 UJV
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 UJV	2.5 UJV
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-6S	MW-6S	MW-6S	MW-8	MW-8	MW-8
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	07/14/2016	08/18/2016	08/18/2016
		Normal or Field Duplicate:	N	N	N	N	N	FD
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 UJV	2.5 UJV
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	0.5 U	0.5 U	0.24 J	**140**	**140**	**140**
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 UJV	2.5 UJV
Trichloroethylene (TCE)	5	µg/L	0.5 U	0.5 U	0.5 U	2.9	2.8	2.8
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	5 U	5 U	10 U	5 U	5 U
Vinyl Chloride	2	µg/L	1 U	1 U	1 UJV	2 U	1 U	1 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	12/07/2017	03/15/2018	12/4/2018
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 UJV	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	2 U	2 U	2 U	2 U	2.0 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 UJV	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	2 U	2 U	2 U	2 U	2.0 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
1,2-Dichloropropane	1	µg/L	1 U	1 U	1 U	1 U	1 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	NA	NA	NA	NA	0.50 U
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	2 U	2 U	2 U	2 U	2.0 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 RV	250 RV	250 RV	250 RV	250 RV	250 U
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	2 U	2 U	2 U	2 U	2.0 U
Acetone	50	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Acrylonitrile	5	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Benzene	1	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	12/07/2017	03/15/2018	12/4/2018
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
Bromoform	50	µg/L	2 U	2 U	2 UJV	2 UJV	2 UJV	2.0 U
Bromomethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U
Carbon Disulfide	60	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Carbon Tetrachloride	5	µg/L	0.5 U	0.5 U	0.5 UJV	0.5 U	0.5 U	0.50 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	1.1 J	2.5 U	2.5 U	0.78 J	0.96 J	2.5 U
Chloromethane	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.5 U	0.5 U	0.5 UJV	0.5 U	0.5 U	0.50 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
Dibromomethane	5	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Dichlorodifluoromethane	5	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	12/07/2017	03/15/2018	12/4/2018
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	**36**	**22**	**20**	**20**	**17**	**17**
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 UJV	0.5 U	0.5 U	0.50 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.9	0.49 J	0.52	0.52	0.49 J	0.40 J
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Vinyl Chloride	2	µg/L	1 U	1 U	1 U	1 U	1 UJV	1.0 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-8	MW-8	MW-8	MW-8	MW-9	MW-9
		Sample Date:	12/4/2018	10/1/2020	11/04/2021	11/04/2021	07/14/2016	08/18/2016
		Normal or Field Duplicate:	FD	N	N	FD	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	0.50 U	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 U	250 U	250 U	250 U	250 RV	250 RV
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
Acetone	50	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Benzene	1	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-8	MW-8	MW-8	MW-8	MW-9	MW-9
		Sample Date:	12/4/2018	10/1/2020	11/04/2021	11/04/2021	07/14/2016	08/18/2016
		Normal or Field Duplicate:	FD	N	N	FD	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.50 U	0.45 J	0.34 J	0.24 J	0.5 U	0.5 U
Bromoform	50	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U
Bromomethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
Carbon Disulfide	60	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	2.5 U	**9.3**	6.4	5.7	2.5 U	2.5 U
Chloromethane	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	5	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 UJV
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-8	MW-8	MW-8	MW-8	MW-9	MW-9
		Sample Date:	12/4/2018	10/1/2020	11/04/2021	11/04/2021	07/14/2016	08/18/2016
		Normal or Field Duplicate:	FD	N	N	FD	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	**18**	**7.9**	**5.1**	**5.1**	**20**	**24**
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	NA	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV
Trichloroethylene (TCE)	5	µg/L	0.38 J	0.61	0.28 J	0.26 J	0.61	0.79
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	12/07/2017	03/15/2018	12/4/2018
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 UJV	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2 U	2 U	2 U	2 U	2 U	2.0 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 UJV	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2 U	2 U	2 U	2 U	2 U	2.0 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
1,2-Dichloropropane	1	µg/L	1 U	1 U	1 U	1 U	1 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	NA	NA	NA	NA	0.50 U
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2 U	2 U	2 U	2 U	2 U	2.0 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 RV	250 RV	250 RV	250 RV	250 RV	250 U
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2 U	2 U	2 U	2 U	2 U	2.0 U
Acetone	50	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Acrylonitrile	5	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Benzene	1	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	12/07/2017	03/15/2018	12/4/2018
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
Bromobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
Bromoform	50	µg/L	2 U	2 U	2 UJV	2 UJV	2 UJV	2.0 U
Bromomethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U
Carbon Disulfide	60	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Carbon Tetrachloride	5	µg/L	0.5 U	0.5 U	0.5 UJV	0.5 U	0.5 U	0.50 U
Chlorobenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	**7**	µg/L	0.84 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L	0.5 U	0.5 U	0.5 UJV	0.5 U	0.5 U	0.50 U
Cymene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
Dibromomethane	5	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Dichlorodifluoromethane	5	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Dichloroethylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U
Ethylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Methylene Chloride	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9
		Sample Date:	02/28/2017	06/13/2017	08/31/2017	12/07/2017	03/15/2018	12/4/2018
		Normal or Field Duplicate:	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units						
T-Butylbenzene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	**35**	**33**	**12**	**20**	**13**	**14**
Toluene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 UJV	0.5 U	0.5 U	0.50 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 U	2.5 U	2.5 UJV	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.75	0.64	0.45 J	0.45 J	0.4 J	0.51
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5 U	5 U	5 U	5 U	5 U	5.0 U
Vinyl Chloride	2	µg/L	1 U	1 U	1 U	1 U	1 UJV	1.0 U
Xylenes	5	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
V - Value altered or qualifier added during data validation
R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-9	MW-9
		Sample Date:	10/1/2020	11/04/2021
		Normal or Field Duplicate:	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units		
1,1,1,2-Tetrachloroethane	5	µg/L	2.5 U	2.5 U
1,1,1-Trichloroethane	5	µg/L	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	µg/L	0.50 U	0.5 U
1,1,2-Trichloroethane	1	µg/L	1.5 U	1.5 U
1,1-Dichloroethane	5	µg/L	2.5 U	2.5 U
1,1-Dichloroethene	5	µg/L	0.50 U	0.5 U
1,1-Dichloropropene	5	µg/L	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	µg/L	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	µg/L	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	µg/L	2.0 U	2 U
1,2,4-Trichlorobenzene	5	µg/L	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	µg/L	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	--	µg/L	2.0 U	2 U
1,2-Dichlorobenzene	3	µg/L	2.5 U	2.5 U
1,2-Dichloroethane	0.6	µg/L	0.50 U	0.5 U
1,2-Dichloropropane	1	µg/L	1.0 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	2.5 U	2.5 U
1,3-Dichlorobenzene	3	µg/L	2.5 U	2.5 U
1,3-Dichloropropane	5	µg/L	2.5 U	2.5 U
1,3-Dichloropropene	0.4	µg/L	NA	NA
1,4-Dichlorobenzene	3	µg/L	2.5 U	2.5 U
1,4-Diethyl Benzene	--	µg/L	2.0 U	2 U
1,4-Dioxane (P-Dioxane)	--	µg/L	250 U	250 U
2,2-Dichloropropane	5	µg/L	2.5 U	2.5 U
2-Chlorotoluene	5	µg/L	2.5 U	2.5 U
2-Hexanone	50	µg/L	5.0 U	5 U
4-Chlorotoluene	5	µg/L	2.5 U	2.5 U
4-Ethyltoluene	--	µg/L	2.0 U	2 U
Acetone	50	µg/L	5.0 U	5 U
Acrylonitrile	5	µg/L	5.0 U	5 U
Benzene	1	µg/L	0.50 U	0.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

			Sample Designation:	MW-9	MW-9
			Sample Date:	10/1/2020	11/04/2021
			Normal or Field Duplicate:	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units			
Bromobenzene	5	µg/L		2.5 U	2.5 U
Bromochloromethane	5	µg/L		2.5 U	2.5 U
Bromodichloromethane	50	µg/L		0.50 U	0.34 J
Bromoform	50	µg/L		2.0 U	2 U
Bromomethane	5	µg/L		2.5 U	2.5 U
Carbon Disulfide	60	µg/L		5.0 U	5 U
Carbon Tetrachloride	5	µg/L		0.50 U	0.5 U
Chlorobenzene	5	µg/L		2.5 U	2.5 U
Chloroethane	5	µg/L		2.5 U	2.5 U
Chloroform	**7**	µg/L		0.85 J	6.1
Chloromethane	--	µg/L		2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	µg/L		2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	µg/L		0.50 U	0.5 U
Cymene	5	µg/L		2.5 U	2.5 U
Dibromochloromethane	50	µg/L		0.50 U	0.5 U
Dibromomethane	5	µg/L		5.0 U	5 U
Dichlorodifluoromethane	5	µg/L		5.0 U	5 U
Dichloroethylenes	5	µg/L		2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	--	µg/L		2.5 U	2.5 U
Ethylbenzene	5	µg/L		2.5 U	2.5 U
Hexachlorobutadiene	0.5	µg/L		2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	µg/L		2.5 U	2.5 U
m,p-Xylene	5	µg/L		2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L		5.0 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	µg/L		5.0 U	5 U
Methylene Chloride	5	µg/L		2.5 U	2.5 U
Naphthalene	10	µg/L		2.5 U	2.5 U
N-Butylbenzene	5	µg/L		2.5 U	2.5 U
N-Propylbenzene	5	µg/L		2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L		2.5 U	2.5 U
Sec-Butylbenzene	5	µg/L		2.5 U	2.5 U
Styrene	5	µg/L		2.5 U	2.5 U

Table 1. Summary of Historic, Baseline, and Post-Remediation Volatile Organic Compounds in Groundwater
Marcus Garvey Apartments, Brooklyn, New York

		Sample Designation:	MW-9	MW-9
		Sample Date:	10/1/2020	11/04/2021
		Normal or Field Duplicate:	N	N
Parameter	NYSDEC Ambient Water-Quality Standards and Guidance Vallues	Units		
T-Butylbenzene	5	µg/L	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	µg/L	2.5 U	2.5 U
Tetrachloroethylene (PCE)	**5**	µg/L	**12**	**6.6**
Toluene	5	µg/L	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	µg/L	0.50 U	0.5 U
Trans-1,2-Dichloroethene	5	µg/L	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	µg/L	0.50 U	0.5 U
Trans-1,4-Dichloro-2-Butene	--	µg/L	2.5 U	2.5 U
Trichloroethylene (TCE)	5	µg/L	0.26 J	0.48 J
Trichlorofluoromethane	5	µg/L	2.5 U	2.5 U
Vinyl Acetate	--	µg/L	5.0 U	5 U
Vinyl Chloride	2	µg/L	1.0 U	1 U
Xylenes	5	µg/L	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample
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R - Sample results rejected by validator
UJ - Analyte was not detected. The associated reported quantitation limit is an estimate
FD - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above NYSDEC AWQSGVs

ATTACHMENTS

1. Laboratory Analytical Report
2. Field Sampling Sheets

ATTACHMENT 1

Laboratory Analytical Report

ANALYTICAL REPORT

Lab Number:	L2160651
Client:	Roux Env. Eng. & Geology, DPC 209 Shafter Street Islandia, NY 11749
ATTN:	Levi Curnutte
Phone:	(631) 232-2600
Project Name:	MARCUS GARVEY
Project Number:	2158.0002Y004
Report Date:	11/09/21

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: MARCUS GARVEY
Project Number: 2158.0002Y004

Lab Number: L2160651
Report Date: 11/09/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2160651-01	MW-9	WATER	BROOKLYN, NY	11/04/21 07:25	11/04/21
L2160651-02	MW-8	WATER	BROOKLYN, NY	11/04/21 07:30	11/04/21
L2160651-03	DUP-110421	WATER	BROOKLYN, NY	11/04/21 07:35	11/04/21
L2160651-04	MW-2	WATER	BROOKLYN, NY	11/04/21 08:40	11/04/21
L2160651-05	MW-3	WATER	BROOKLYN, NY	11/04/21 08:40	11/04/21
L2160651-06	MW-1	WATER	BROOKLYN, NY	11/04/21 09:25	11/04/21
L2160651-07	FIELD BLANK-110421	WATER	BROOKLYN, NY	11/04/21 09:00	11/04/21
L2160651-08	TRIP BLANK	WATER	BROOKLYN, NY	11/01/21 00:00	11/04/21

Project Name:	MARCUS GARVEY	**Lab Number:**	L2160651
Project Number:	2158.0002Y004	**Report Date:**	11/09/21

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:	MARCUS GARVEY	**Lab Number:**	L2160651
Project Number:	2158.0002Y004	**Report Date:**	11/09/21

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: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 11/09/21

ORGANICS

VOLATILES

Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-01
Client ID: MW-9
Sample Location: BROOKLYN, NY

Date Collected: 11/04/21 07:25
Date Received: 11/04/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/08/21 11:16
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	6.1		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	6.6		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	0.34	J	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
1,1,2,2-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: MARCUS GARVEY **Lab Number:** L2160651

Project Number: 2158.0002Y004 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-01 Date Collected: 11/04/21 07:25

Client ID: MW-9 Date Received: 11/04/21

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	0.48	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: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-01
Client ID: MW-9
Sample Location: BROOKLYN, NY
Date Collected: 11/04/21 07:25
Date Received: 11/04/21
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	93		70-130
Dibromofluoromethane	111		70-130

Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-02
Client ID: MW-8
Sample Location: BROOKLYN, NY

Date Collected: 11/04/21 07:30
Date Received: 11/04/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/08/21 11:36
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	6.4		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	5.1		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	0.34	J	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
1,1,2,2-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: MARCUS GARVEY **Lab Number:** L2160651

Project Number: 2158.0002Y004 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-02 Date Collected: 11/04/21 07:30

Client ID: MW-8 Date Received: 11/04/21

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	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	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: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-02
Client ID: MW-8
Sample Location: BROOKLYN, NY
Date Collected: 11/04/21 07:30
Date Received: 11/04/21
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	94		70-130
Dibromofluoromethane	116		70-130

Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-03
Client ID: DUP-110421
Sample Location: BROOKLYN, NY

Date Collected: 11/04/21 07:35
Date Received: 11/04/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/08/21 11:57
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	5.7		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	5.1		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	0.24	J	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
1,1,2,2-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: MARCUS GARVEY **Lab Number:** L2160651

Project Number: 2158.0002Y004 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-03 Date Collected: 11/04/21 07:35

Client ID: DUP-110421 Date Received: 11/04/21

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	0.26	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: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-03
Client ID: DUP-110421
Sample Location: BROOKLYN, NY
Date Collected: 11/04/21 07:35
Date Received: 11/04/21
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	94		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	109		70-130

Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-04
Client ID: MW-2
Sample Location: BROOKLYN, NY

Date Collected: 11/04/21 08:40
Date Received: 11/04/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/08/21 12:17
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	5.5		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	8.9		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	0.31	J	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
1,1,2,2-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: MARCUS GARVEY **Lab Number:** L2160651

Project Number: 2158.0002Y004 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-04 Date Collected: 11/04/21 08:40

Client ID: MW-2 Date Received: 11/04/21

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	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: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-04
Client ID: MW-2
Sample Location: BROOKLYN, NY
Date Collected: 11/04/21 08:40
Date Received: 11/04/21
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	112		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	109		70-130

Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-05
Client ID: MW-3
Sample Location: BROOKLYN, NY

Date Collected: 11/04/21 08:40
Date Received: 11/04/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/08/21 12:37
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	3.0		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	1.6		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
1,1,2,2-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: MARCUS GARVEY **Lab Number:** L2160651

Project Number: 2158.0002Y004 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-05 Date Collected: 11/04/21 08:40

Client ID: MW-3 Date Received: 11/04/21

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	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: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-05
Client ID: MW-3
Sample Location: BROOKLYN, NY
Date Collected: 11/04/21 08:40
Date Received: 11/04/21
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	94		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	112		70-130

Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-06
Client ID: MW-1
Sample Location: BROOKLYN, NY

Date Collected: 11/04/21 09:25
Date Received: 11/04/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/08/21 12:58
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	2.1	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	7.5		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
1,1,2,2-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: MARCUS GARVEY **Lab Number:** L2160651

Project Number: 2158.0002Y004 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-06 Date Collected: 11/04/21 09:25

Client ID: MW-1 Date Received: 11/04/21

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	0.27	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: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-06
Client ID: MW-1
Sample Location: BROOKLYN, NY
Date Collected: 11/04/21 09:25
Date Received: 11/04/21
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	93		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	111		70-130

Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-07
Client ID: FIELD BLANK-110421
Sample Location: BROOKLYN, NY
Date Collected: 11/04/21 09:00
Date Received: 11/04/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/08/21 10:36
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
1,1,2,2-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: MARCUS GARVEY **Lab Number:** L2160651

Project Number: 2158.0002Y004 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-07 Date Collected: 11/04/21 09:00

Client ID: FIELD BLANK-110421 Date Received: 11/04/21

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	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: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-07
Client ID: FIELD BLANK-110421
Sample Location: BROOKLYN, NY
Date Collected: 11/04/21 09:00
Date Received: 11/04/21
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	93		70-130
Dibromofluoromethane	113		70-130

Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-08
Client ID: TRIP BLANK
Sample Location: BROOKLYN, NY

Date Collected: 11/01/21 00:00
Date Received: 11/04/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/08/21 10:56
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
1,1,2,2-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: MARCUS GARVEY **Lab Number:** L2160651

Project Number: 2158.0002Y004 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-08 Date Collected: 11/01/21 00:00

Client ID: TRIP BLANK Date Received: 11/04/21

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	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: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2160651-08
Client ID: TRIP BLANK
Sample Location: BROOKLYN, NY
Date Collected: 11/01/21 00:00
Date Received: 11/04/21
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	95		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	112		70-130

Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/08/21 10:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1569079-5					
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: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/08/21 10:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1569079-5					
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: MARCUS GARVEY
Project Number: 2158.0002Y004
Lab Number: L2160651
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/08/21 10:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1569079-5					
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	111		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	111		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: MARCUS GARVEY

Project Number: 2158.0002Y004

Lab Number: L2160651

Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1569079-3 WG1569079-4								
Methylene chloride	100		110		70-130	10		20
1,1-Dichloroethane	86		87		70-130	1		20
Chloroform	94		95		70-130	1		20
Carbon tetrachloride	88		97		63-132	10		20
1,2-Dichloropropane	98		95		70-130	3		20
Dibromochloromethane	88		91		63-130	3		20
1,1,2-Trichloroethane	93		97		70-130	4		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	96		100		75-130	4		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	99		97		70-130	2		20
1,1,1-Trichloroethane	97		100		67-130	3		20
Bromodichloromethane	97		97		67-130	0		20
trans-1,3-Dichloropropene	84		87		70-130	4		20
cis-1,3-Dichloropropene	83		85		70-130	2		20
1,1-Dichloropropene	85		94		70-130	10		20
Bromoform	84		84		54-136	0		20
1,1,2,2-Tetrachloroethane	95		94		67-130	1		20
Benzene	96		96		70-130	0		20
Toluene	94		97		70-130	3		20
Ethylbenzene	99		99		70-130	0		20
Chloromethane	110		110		64-130	0		20
Bromomethane	120		110		39-139	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004

Lab Number: L2160651
Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1569079-3 WG1569079-4								
Vinyl chloride	94		94		55-140	0		20
Chloroethane	130		120		55-138	8		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	98		98		70-130	0		20
1,2-Dichlorobenzene	98		96		70-130	2		20
1,3-Dichlorobenzene	100		99		70-130	1		20
1,4-Dichlorobenzene	97		99		70-130	2		20
Methyl tert butyl ether	99		100		63-130	1		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	83		82		70-130	1		20
Dibromomethane	94		93		70-130	1		20
1,2,3-Trichloropropane	90		92		64-130	2		20
Acrylonitrile	74		73		70-130	1		20
Styrene	105		110		70-130	5		20
Dichlorodifluoromethane	95		96		36-147	1		20
Acetone	100		100		58-148	0		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	64		89		63-138	**33**	Q	20
Vinyl acetate	75		77		70-130	3		20
4-Methyl-2-pentanone	77		80		59-130	4		20
2-Hexanone	76		78		57-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004

Lab Number: L2160651
Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1569079-3 WG1569079-4								
Bromochloromethane	85		86		70-130	1		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	93		98		70-130	5		20
1,3-Dichloropropane	94		96		70-130	2		20
1,1,1,2-Tetrachloroethane	91		95		64-130	4		20
Bromobenzene	97		98		70-130	1		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	100		98		70-130	2		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	80		81		41-144	1		20
Hexachlorobutadiene	96		93		63-130	3		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		99		70-130	1		20
Naphthalene	**68**	Q	**68**	Q	70-130	0		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	72		74		70-130	3		20
1,2,4-Trichlorobenzene	80		81		70-130	1		20
1,3,5-Trimethylbenzene	100		97		64-130	3		20
1,2,4-Trimethylbenzene	98		97		70-130	1		20
1,4-Dioxane	102		96		56-162	6		20
p-Diethylbenzene	99		98		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: MARCUS GARVEY

Project Number: 2158.0002Y004

Lab Number: L2160651

Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1569079-3 WG1569079-4								
p-Ethyltoluene	110		100		70-130	10		20
1,2,4,5-Tetramethylbenzene	88		86		70-130	2		20
Ethyl ether	110		110		59-134	0		20
trans-1,4-Dichloro-2-butene	90		94		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		101		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	99		97		70-130
Dibromofluoromethane	89		98		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004

Lab Number: L2160651
Report Date: 11/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1569079-6 WG1569079-7 QC Sample: L2160651-01 Client ID: MW-9												
Methylene chloride	ND	10	11	110		12	120		70-130	9		20
1,1-Dichloroethane	ND	10	12	120		12	120		70-130	0		20
Chloroform	6.1	10	18	119		17	109		70-130	6		20
Carbon tetrachloride	ND	10	11	110		11	110		63-132	0		20
1,2-Dichloropropane	ND	10	11	110		11	110		70-130	0		20
Dibromochloromethane	ND	10	10	100		11	110		63-130	10		20
1,1,2-Trichloroethane	ND	10	10	100		11	110		70-130	10		20
Tetrachloroethene	6.6	10	17	104		16	94		70-130	6		20
Chlorobenzene	ND	10	10	100		10	100		75-130	0		20
Trichlorofluoromethane	ND	10	12	120		11	110		62-150	9		20
1,2-Dichloroethane	ND	10	11	110		11	110		70-130	0		20
1,1,1-Trichloroethane	ND	10	12	120		12	120		67-130	0		20
Bromodichloromethane	0.34J	10	12	120		12	120		67-130	0		20
trans-1,3-Dichloropropene	ND	10	9.2	92		9.3	93		70-130	1		20
cis-1,3-Dichloropropene	ND	10	8.9	89		9.0	90		70-130	1		20
1,1-Dichloropropene	ND	10	10	100		10	100		70-130	0		20
Bromoform	ND	10	9.6	96		10	100		54-136	4		20
1,1,2,2-Tetrachloroethane	ND	10	10	100		11	110		67-130	10		20
Benzene	ND	10	10	100		11	110		70-130	10		20
Toluene	ND	10	10	100		10	100		70-130	0		20
Ethylbenzene	ND	10	10	100		10	100		70-130	0		20
Chloromethane	ND	10	12	120		11	110		64-130	9		20
Bromomethane	ND	10	11	110		11	110		39-139	0		20

Matrix Spike Analysis

Batch Quality Control

Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004

Lab Number: L2160651
Report Date: 11/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1569079-6 WG1569079-7 QC Sample: L2160651-01 Client ID: MW-9												
Vinyl chloride	ND	10	11	110		11	110		55-140	0		20
Chloroethane	ND	10	13	130		14	**140**	Q	55-138	7		20
1,1-Dichloroethene	ND	10	12	120		12	120		61-145	0		20
trans-1,2-Dichloroethene	ND	10	12	120		12	120		70-130	0		20
Trichloroethene	0.48J	10	12	120		11	110		70-130	9		20
1,2-Dichlorobenzene	ND	10	10	100		10	100		70-130	0		20
1,3-Dichlorobenzene	ND	10	10	100		10	100		70-130	0		20
1,4-Dichlorobenzene	ND	10	9.9	99		11	110		70-130	11		20
Methyl tert butyl ether	ND	10	11	110		11	110		63-130	0		20
p/m-Xylene	ND	20	22	110		22	110		70-130	0		20
o-Xylene	ND	20	21	105		21	105		70-130	0		20
cis-1,2-Dichloroethene	ND	10	11	110		11	110		70-130	0		20
Dibromomethane	ND	10	10	100		10	100		70-130	0		20
1,2,3-Trichloropropane	ND	10	9.5	95		10	100		64-130	5		20
Acrylonitrile	ND	10	10	100		11	110		70-130	10		20
Styrene	ND	20	22	110		22	110		70-130	0		20
Dichlorodifluoromethane	ND	10	10	100		10	100		36-147	0		20
Acetone	ND	10	12	120		12	120		58-148	0		20
Carbon disulfide	ND	10	12	120		12	120		51-130	0		20
2-Butanone	ND	10	11	110		8.6	86		63-138	**24**	Q	20
Vinyl acetate	ND	10	9.6	96		9.8	98		70-130	2		20
4-Methyl-2-pentanone	ND	10	8.1	81		8.6	86		59-130	6		20
2-Hexanone	ND	10	8.0	80		8.8	88		57-130	10		20

Matrix Spike Analysis
Batch Quality Control

Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004

Lab Number: L2160651
Report Date: 11/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1569079-6 WG1569079-7 QC Sample: L2160651-01 Client ID: MW-9												
Bromochloromethane	ND	10	11	110		10	100		70-130	10		20
2,2-Dichloropropane	ND	10	11	110		11	110		63-133	0		20
1,2-Dibromoethane	ND	10	10	100		10	100		70-130	0		20
1,3-Dichloropropane	ND	10	10	100		10	100		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	10	11	110		10	100		64-130	10		20
Bromobenzene	ND	10	9.9	99		10	100		70-130	1		20
n-Butylbenzene	ND	10	10	100		11	110		53-136	10		20
sec-Butylbenzene	ND	10	10	100		11	110		70-130	10		20
tert-Butylbenzene	ND	10	9.9	99		10	100		70-130	1		20
o-Chlorotoluene	ND	10	11	110		11	110		70-130	0		20
p-Chlorotoluene	ND	10	10	100		11	110		70-130	10		20
1,2-Dibromo-3-chloropropane	ND	10	8.7	87		9.8	98		41-144	12		20
Hexachlorobutadiene	ND	10	8.8	88		10	100		63-130	13		20
Isopropylbenzene	ND	10	10	100		10	100		70-130	0		20
p-Isopropyltoluene	ND	10	9.9	99		10	100		70-130	1		20
Naphthalene	ND	10	6.8	**68**	Q	7.8	78		70-130	14		20
n-Propylbenzene	ND	10	10	100		11	110		69-130	10		20
1,2,3-Trichlorobenzene	ND	10	7.2	72		8.2	82		70-130	13		20
1,2,4-Trichlorobenzene	ND	10	8.1	81		8.7	87		70-130	7		20
1,3,5-Trimethylbenzene	ND	10	9.9	99		10	100		64-130	1		20
1,2,4-Trimethylbenzene	ND	10	9.8	98		10	100		70-130	2		20
1,4-Dioxane	ND	500	520	104		560	112		56-162	7		20
p-Diethylbenzene	ND	10	9.7	97		10	100		70-130	3		20

Matrix Spike Analysis

Batch Quality Control

Project Name: MARCUS GARVEY

Project Number: 2158.0002Y004

Lab Number: L2160651

Report Date: 11/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1569079-6 WG1569079-7 QC Sample: L2160651-01 Client ID: MW-9												
p-Ethyltoluene	ND	10	10	100		11	110		70-130	10		20
1,2,4,5-Tetramethylbenzene	ND	10	8.2	82		8.9	89		70-130	8		20
Ethyl ether	ND	10	11	110		11	110		59-134	0		20
trans-1,4-Dichloro-2-butene	ND	10	9.6	96		9.7	97		70-130	1		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		104		70-130
4-Bromofluorobenzene	95		98		70-130
Dibromofluoromethane	106		103		70-130
Toluene-d8	93		96		70-130

Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004

Lab Number: L2160651
Report Date: 11/09/21

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(*)
L2160651-01A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-01A1	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-01A2	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-01B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-01B1	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-01B2	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-01C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-01C1	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-01C2	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-02A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-02B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-02C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-03A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-03B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-03C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-04A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-04B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-04C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-05A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-05B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-05C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-06A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-06B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004

Lab Number: L2160651
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Container Information

Container ID	*Container Type*	*Cooler*	*Initial pH*	*Final pH*	*Temp deg C*	*Pres*	*Seal*	*Frozen Date/Time*	*Analysis(*)*
L2160651-06C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-07A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-07B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-07C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-08A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L2160651-08B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	MARCUS GARVEY	**Lab Number:**	L2160651
Project Number:	2158.0002Y004	**Report Date:**	11/09/21

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.

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

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

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

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

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

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

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	MARCUS GARVEY	**Lab Number:**	L2160651
Project Number:	2158.0002Y004	**Report Date:**	11/09/21

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

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

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	MARCUS GARVEY	**Lab Number:**	L2160651
Project Number:	2158.0002Y004	**Report Date:**	11/09/21

Data Qualifiers

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.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	MARCUS GARVEY	**Lab Number:**	L2160651
Project Number:	2158.0002Y004	**Report Date:**	11/09/21

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

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, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

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

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

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

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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 of

Date Rec'd in Lab: 11/4/21

ALPHA Job #: L2160651

Client Information
Client: ROUX
Address: 209 SHAFTER ST. ISLANDIA, NY 11749
Phone: 631-2322600
Fax: 631-2329898
Email: LCURNUTTE@ROUXINC.COM

Project Information
Project Name: MARCUS GARVEY
Project Location: BROOKLYN, NY
Project # 2158.0002Y004
(Use Project name as Project #) ☐
Project Manager: LEVI CURNUTTE
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other CATEGORY B

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

Billing Information
☑ Same as Client Info
PO #

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

These samples have been previously analyzed by Alpha ☑

Other project specific requirements/comments:

Please specify Metals or TAL.

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

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs (8260)	Total Bottle
06051-01	MW-9	11-4-21	0725	GW	AF	X	3
-01	MW-9-MS	11-4-21	0730	GW	AF	X	3
-01	MW-9-MSD	11-4-21	0735	GW	AF	X	3
-02	MW-8	11-4-21	0730	GW	MS	X	3
-03	DUP-110421	11-4-21	0735	GW	MS	X	3
-04	MW-2	11-4-21	0840	GW	MS	X	3
-05	MW-3	11-4-21	0840	GW	AF	X	3
-06	MW-1	11-4-21	0925	GW	MS	X	3
-07	FIELD BLANK-110421	11-4-21	0900	FB	MS		3
-08	TRIP BLANK	11-1-21	—	LAB	BJ	X	2

Container Type: V
Preservative: B

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
ROUX	11/4/21 1339	JGoogin	11/4/21 1339
JGoogin	11/4/21 1339	AAL	11/4 1800
AAL	11/4		
			11/4/21 2200

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

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

ATTACHMENT 2

Field Sampling Sheets

Well Sampling Purge Log

Client: Marcus Garvey **Project Number:** 2158.0002Y004

Site Location: 650 Rockaway Avenue. Brooklyn, NY

Well No: MW-1 Weather: 50°F clear (indoors)

Date: 11-9-21 Purge Water Disposal: 30 Gallons steel drum

Sampled By: MS Well Diameter / Type: Stick up

Depth to Product (ft): Water Column (ft): 9.48

Depth to Water(ft): 10.64 Volume of Water in Well (gal) 0.39

Depth to Bottom (ft): 20.12 Volume of Water to Remove (gal): N/A

well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 0845 Purge Rate: 100mL/min

End Purging: 0925 Volume of Water Removed (gal): 1.1

Method of Purge: Peristaltic Pump Method of Sampling: Low-Flow

Physical Appearance/ Comments: Clear

Samples Collected: (analyses / no. bottles) VOCs (3 vials / HCl)

Duplicate Sample: NO Laboratory : Alpha Analytical

Field Measurements:

Time	DTP ft	DTW ft	pH SU	Conductivity mS/cm - S/m	Turbidity NTU	Dissolved O_2 mg/L	Temperature C°	ORP mV
0845	—	10.64	7.17	0.531	224	6.72	19.37	152
0848	—	10.64	7.11	0.528	207	6.51	19.39	154
0852	—	10.64	7.10	0.525	170	6.45	19.30	155
0855	—	10.64	7.07	0.524	140	6.28	19.51	156
0900	—	10.64	7.09	0.524	103	6.17	19.60	154
0905	—	10.64	7.08	0.520	75.1	6.06	19.67	156
0915	—	10.64	7.10	0.518	52.8	6.00	19.70	155
0920	—	10.64	7.09	0.517	48.9	5.96	19.76	155
0925	—	10.64	7.08	0.516	47.1	5.94	19.78	155
	—	[illegible]						
	—	[illegible]						

Well Sampling Purge Log

Client: Marcus Garvey **Project Number:** 2158.0002Y004

Site Location: 650 Rockaway Avenue. Brooklyn, NY

Well No: MW-2 Weather: 50°F clear (indoors)

Date: 11 04 21 Purge Water Disposal: 30 Gallons steel drum

Sampled By: MS Well Diameter / Type: Stick up

Depth to Product (ft): — Water Column (ft): _____

Depth to Water(ft): 11.19 Volume of Water in Well (gal) _____

Depth to Bottom (ft): 20.03 Volume of Water to Remove (gal): _____

well diameter:	(1 in)	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 0800 Purge Rate: 100 mL/min

End Purging: 0840 Volume of Water Removed (gal): ~ 2GAL

Method of Purge: Peristaltic Pump Method of Sampling: Low-Flow

Physical Appearance/ Comments: clear

Samples Collected: (analyses / no. bottles) VOCs (3 vials / HCl)

Duplicate Sample: NO Laboratory : Alpha Analytical

Field Measurements:

Time	DTP ft	DTW ft	pH SU	Conductivity mS/cm - S/m	Turbidity NTU	Dissolved O_2 mg/L	Temperature C°	ORP mV
0800	—	11.19	7.10	0.684	23.9	7.69	17.28	143
0803	—	11.20	7.08	0.693	20.8	7.63	17.28	144
0806	—	11.20	7.03	0.693	12.3	7.62	17.33	145
0809	—	11.20	7.05	0.692	4.9	7.59	17.37	146
0812	—	11.20	7.04	0.690	1.0	7.58	17.39	147
0815	—	11.20	7.03	0.689	0.3	7.56	17.40	148
0820	—	11.20	7.02	0.688	0.1	7.57	17.41	148
0825	—	11.20	7.03	0.686	0.0	7.56	17.43	149
0830	—	11.20	7.03	0.685	0.0	7.55	17.44	149
0835	—	11.21	7.04	0.683	0.0	7.59	17.45	150
0840	—	11.21	7.03	0.681	0.0	7.57	17.47	151

Sample time: 0840

Well Sampling Purge Log

Client: Marcus Garvey **Project Number:** 2158.0002Y004

Site Location: 650 Rockaway Avenue. Brooklyn, NY

Well No: MW-3 Weather: 43°F, CLEAR

Date: 11-4-21 Purge Water Disposal: 30 Gallons steel drum

Sampled By: ALFREDO F. Well Diameter / Type: 1" PVC

Depth to Product (ft): — Water Column (ft): 8.97

Depth to Water(ft): 11.08 Volume of Water in Well (gal) 0.37

Depth to Bottom (ft): 20.05 Volume of Water to Remove (gal): NA

well diameter:	(1 in)	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 0803 Purge Rate: 100 mL/MIN

End Purging: 0836 Volume of Water Removed (gal): 0.92

Method of Purge: Peristaltic Pump Method of Sampling: Low-Flow

Physical Appearance/ Comments: CLEAR THROUGHOUT PURGE

Samples Collected: (analyses / no. bottles) VOCs (3 vials / HCl)

Duplicate Sample: No Laboratory : Alpha Analytical

Field Measurements:

Time	DTP ft	DTW ft	pH SU	Conductivity (mS/cm) - S/m	Turbidity NTU	Dissolved O_2 mg/L	Temperature C°	ORP mV
0806	—	11.08	6.65	0.290	2.1	4.73	17.87	126
0809	—	11.08	6.63	0.282	0.2	4.50	17.89	129
0812	—	11.08	6.62	0.273	0	4.36	17.89	130
0815	—	11.08	6.62	0.270	0	4.29	17.90	132
0818	—	11.08	6.62	0.268	0	4.25	17.92	133
0821	—	11.08	6.62	0.266	0	4.19	17.94	133
0824	—	11.08	6.61	0.265	0	4.18	17.95	134
0827	—	11.08	6.61	0.265	0	4.17	17.95	134
0830	—	11.08	6.61	0.265	0	4.17	17.95	135
0833	—	11.08	6.61	0.265	0	4.16	17.96	136
0836	—	11.08	6.61	0.265	0	4.16	17.96	136

SAMPLE TIME: 0840

Well Sampling Purge Log

Client: Marcus Garvey **Project Number:** 2158.0002Y004

Site Location: 650 Rockaway Avenue. Brooklyn, NY

Well No: MW-8 Weather: clear 48°F

Date: 11.04.21 Purge Water Disposal: 30 Gallons steel drum

Sampled By: MS Well Diameter / Type: flush @ 2inch

Depth to Product (ft): — Water Column (ft):

Depth to Water(ft): 19.98 Volume of Water in Well (gal)

Depth to Bottom (ft): 28.68 Volume of Water to Remove (gal):

well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 0700 Purge Rate: 100 mL/min

End Purging: 0740 Volume of Water Removed (gal): ~2 GAL

Method of Purge: Peristaltic Pump Method of Sampling: Low-Flow

Physical Appearance/ Comments: clear

Samples Collected: (analyses / no. bottles) VOCs (3 vials / HCl)

Duplicate Sample: Yes Laboratory : Alpha Analytical

Field Measurements:

Time	DTP ft	DTW ft	pH SU	Conductivity mS/cm - S/m	Turbidity NTU	Dissolved O_2 mg/L	Temperature C°	ORP mV
0700	—	19.98	6.54	0.368	0.0	1.39	19.69	155
0703	—	19.98	6.80	0.371	0.0	1.13	19.92	128
0706	—	19.99	6.89	0.367	0.0	1.03	19.96	115
0709	—	19.99	7.00	0.366	0.0	1.01	19.88	112
0712	—	1999	7.04	0.364	0.0	1.00	19.90	108
0715	—	2000	7.09	0.357	1.2	0.98	19.98	105
0720	—	2000	7.11	0.356	0.8	1.01	20.03	104
0725	—	20.00	7.13	0.355	0.4	0.97	20.05	105
0730	—	20.00	7.13	0.353	0.0	0.96	20.06	103
	—	~~20.00~~						

Sample time : 0730

Dup 110421 : 0735

Well Sampling Purge Log

Client: Marcus Garvey **Project Number:** 2158.0002Y004

Site Location: 650 Rockaway Avenue. Brooklyn, NY

Well No: MW-9 Weather: 43°F, CLEAR

Date: 11-4-21 Purge Water Disposal: 30 Gallons steel drum

Sampled By: ALFREDO F. Well Diameter / Type: 2" PVC

Depth to Product (ft): — Water Column (ft): 8.42

Depth to Water(ft): 20.77 Volume of Water in Well (gal) 1.37

Depth to Bottom (ft): 29.19 Volume of Water to Remove (gal): NA

well diameter:	1 in	(2 in)	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 0652 Purge Rate: 125 mL/Min

End Purging: 0725 Volume of Water Removed (gal): 1.15

Method of Purge: Peristaltic Pump Method of Sampling: Low-Flow

Physical Appearance/ Comments: CLEAR THROUGHOUT PURGE

Samples Collected: (analyses / no. bottles) VOCs (3 vials / HCl)

Duplicate Sample: No Laboratory : Alpha Analytical

Field Measurements:

Time	DTP ft	DTW ft	pH SU	Conductivity (mS/cm - S/m)	Turbidity NTU	Dissolved O_2 mg/L	Temperature C°	ORP mV
0655	—	20.77	6.34	0.338	3.2	3.08	21.09	137
0658	—	20.77	6.38	0.325	1.3	2.63	21.12	133
0701	—	20.77	6.41	0.323	1.0	2.38	21.17	130
0704	—	20.77	6.46	0.323	0.2	2.01	21.19	128
0707	—	20.77	6.49	0.323	0	1.97	21.22	126
0710	—	20.77	6.53	0.322	0	1.84	21.26	125
0713	—	20.77	6.53	0.321	0	1.80	21.28	125
0716	—	20.77	6.54	0.321	0	1.76	21.29	124
0719	—	20.77	6.54	0.321	0	1.68	21.30	124
0722	—	20.77	6.54	0.321	0	1.64	21.31	123
0725	—	20.77	6.54	0.321	0	1.61	21.31	123

SAMPLE TIME: 0725
MW-9-MS (TIME: 0730)
MW-9-MSD (TIME: 0735)

PLATES

1. Exceedances of AWQSGV's in Groundwater

MW-1	8/20/14	7/14/16	7/14/16	8/18/16	2/28/17	6/13/17	8/31/17	12/7/17	3/15/18	3/15/18	12/4/18	10/1/20	11/4/21
VOCs			DUP							DUP			
Chloroform	ND	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	**13**	NE
Cis-1,2-Dichloroethylene	**60 JD**	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichloroethylenes	**60 JD**	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	**3200 D**	**220**	**240**	**110**	**62**	**78**	**31**	**16**	**18**	**14**	**21**	**9.5**	**7.5**
Trichloroethylene (TCE)	**40 D**	NE	NE	ND	NE	NE	NE	NE	NE	NE	NE	NE	NE

MW-9	7/14/16	8/18/16	2/28/17	6/13/17	8/31/17	12/7/17	3/15/18	12/4/18	10/1/20	11/4/21
VOCs										
Tetrachloroethylene (PCE)	**20**	**24**	**35**	**33**	**12**	**20**	**13**	**14**	**12**	**6.6**

MW-8	7/14/16	8/18/16	8/18/16	2/28/17	6/13/17	8/31/17	12/7/17	3/15/18	12/4/18	12/4/18	10/1/20	11/4/21	11/4/21
VOCs			DUP										DUP
Chloroform	**12**	**19**	**19**	NE	ND	ND	NE	NE	ND	ND	**9.3**	NE	NE
Tetrachloroethylene (PCE)	**140**	**140**	**140**	**36**	**22**	**20**	**20**	**17**	**17**	**18**	**7.9**	**5.1**	**5.1**

MW-2	8/20/14	7/14/16	8/18/16	2/28/17	6/13/17	8/31/17	12/7/17	3/15/18	12/4/18	10/1/20	10/1/20	11/4/21
VOCs											DUP	
Acetone	ND	ND	**200**	NE	NE	NE	NE	NE	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	**190 JD**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichloroethylenes	**190 JD**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	**7700 D**	**49**	NE	**9.1**	**11**	NE	NE	**5.3**	**8.1**	**5.1**	**5.1**	**8.9**
Trichloroethylene (TCE)	**110 D**	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MW-3	8/20/14	7/14/16	8/18/16	2/28/17	6/13/17	8/31/17	8/31/17	3/15/18	12/4/18	10/1/20	11/4/21
VOCs							DUP				
Acetone	ND	ND	**58**	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	**2700 D**	**32**	ND	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethylene (TCE)	**28 D**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

LEGEND

- MW-4 — LOCATION AND DESIGNATION OF MONITORING WELL IN LONG-TERM MONITORING SITE NETWORK
- MW-1 — LOCATION AND DESIGNATION OF MONITORING WELL NO LONGER IN USE
- BCP SITE/ENVIRONMENTAL EASEMENT BOUNDARY
- APPROXIMATE FOOTPRINT OF FORMER JOHNNY'S CLEANERS/ENVIRONMENTAL EASEMENT BOUNDARY
- APPROXIMATE LOCATION OF BASEMENT (DASHED LINE INDICATES BASEMENT NOT ACCESSED DURING SITE WALK)

NOTES

1. SITE PLAN ADAPTED FROM SURVEY PREPARED BY MONTROSE SURVEYING CO., LLP (SURVEY NO. 64991-1D)
2. WELLS THAT ARE IN THE LONG-TERM SITE MONITORING NETWORK ARE MW-1, MW-2, MW-3, MW-8 AND MW-9.
3. ON NOVEMBER 21, 2017, NYSDEC APPROVED THE REMOVAL OF MW-6S FROM THE LONG-TERM SITE MONITORING NETWORK.

DATA BOX KEY

SAMPLE LOCATION — SAMPLE DATE

MW-2	8/20/14	7/14/16	8/18/16
VOCs			
Acetone	ND	ND	**200**
Cis-1,2-Dichloroethylene	**190 JD**	ND	ND
Dichloroethylenes	**190 JD**	ND	ND
Tetrachloroethylene (PCE)	**7700 D**	**49**	NE
Trichloroethylene (TCE)	**110 D**	NE	ND

ANALYTE — CONCENTRATION

Parameter	NYSDEC AWQSGVs (µg/L)
VOCs	
Acetone	**50**
Chloroform	**7**
Cis-1,2-Dichloroethylene	**5**
Dichloroethylenes	**5**
Tetrachloroethylene (PCE)	**5**
Trichloroethylene (TCE)	**5**

µg/L – MICROGRAMS PER LITER
NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AWQSGVs – AMBIENT WATER-QUALITY STANDARDS AND GUIDANCE VALUES
D – DILUTION
J – ESTIMATED VALUE
DUP – DUPLICATE SAMPLE
VOCs – VOLATILE ORGANIC COMPOUNDS
ND – NO DETECTION
NE – NO EXCEEDANCES
NS – NOT SAMPLED

25' 0 25'

Title:

EXCEEDANCES OF AWQSGVs IN GROUNDWATER

MARCUS GARVEY APARTMENTS
650 ROCKAWAY AVE., BROOKLYN, NEW YORK

Prepared for:

C & C APARTMENT MANAGERS LLC

ROUX

Compiled by: L.C.	Date: 13JAN22	PLATE
Prepared by: B.H.C.	Scale: AS SHOWN	1
Project Mgr: L.C.	Project: 2158.0002Y004	
File: 2158.0002Y166.01.DWG		

V:\CAD\PROJECTS\2158\Y0002Y\166\2158.0002Y166.01.DWG

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, NY 12853
Phone (518) 251-4429
harry@frontiernet.net

March 26, 2022

Levi Curnette
Roux Associates, Inc.
209 Shafter St
Islandia, NY 11749

RE: Marcus Garvey, Brooklyn, NY Groundwater Events
Data **U**sability **S**ummary **R**eport (DUSR)
Alpha SDG No. L2160651

Dear Mr. Curnette:

Review has been completed for the analytical data package noted above, generated by Alpha Analytical, that pertains to groundwater samples collected 11/24/21 at the Marcus Garvey, Brooklyn, NY site. Five samples, a field duplicate, field blank, and trip blank were processed for volatile analytes by USEPA method 8260C.

The data packages submitted by the laboratory contain full deliverables for validation, and this DUSR is generated from review of the summary form and raw data documentation, with guidance from the USEPA validation guidance documents. The following items were reviewed:

* Laboratory Narrative Discussion
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Matrix Spike Recoveries/Duplicate Correlations
* Blind Field Duplicate Correlations
* Method Blanks
* Laboratory Control Samples (LCSs)
* Instrumental Tunes
* Calibration Standards
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data packages.

In summary, analyses were conducted in compliance with the required analytical protocols. Most sample results are usable either as reported or with minor qualification/edit. However, the results for 1,4-dioxane are rejected in all samples due to methodology limitations.

Data completeness, accuracy, precision, representativeness, sensitivity, and the analytical method comparability are acceptable.

The sample identification summary is attached to this text. Also included with the report are validation qualifier definitions and the laboratory EQuIS results file annotated to reflect the qualifications recommended within this report.

Because the same client IDs were utilized for samples collected in multiple sampling events, they are distinguished from each other in this narrative parenthetically by the collection dates.

The following text discusses quality issues of concern.

Chain-of-Custody/Sample Receipt

The custody forms requested the Target Analyte List (TCL); however, the laboratory reported an extended list of volatile analytes.

Blind Duplicate Evaluations

The blind field duplicate evaluation was performed for location MW-8, and shows acceptable correlations.

Volatile Analyses by EPA 8260C

The matrix spike/duplicate evaluation of MW-9 show acceptable recoveries and correlations.

Due to very low calibration standard response factors inherent in the methodology, the results for 1,4-dioxane in the samples are rejected and not usable. Other calibration standards show responses within validation guidelines, with the exception of those for naphthalene and 1,2,3-trichlorobenzene (32%D and 28%D), results for which are qualified as estimated, with a low bias, in the samples.

Due to low recoveries (68% and 69%)in the associated LCSs, the results for naphthalene in the samples have been qualified as estimated in value, with a low bias.

Surrogate and internal standard responses are compliant. Blanks show no contamination.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

Judy Harry

Att: Validation Data Qualifier Definitions
Sample Identifications
Qualified Client EDD

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Sample Summaries

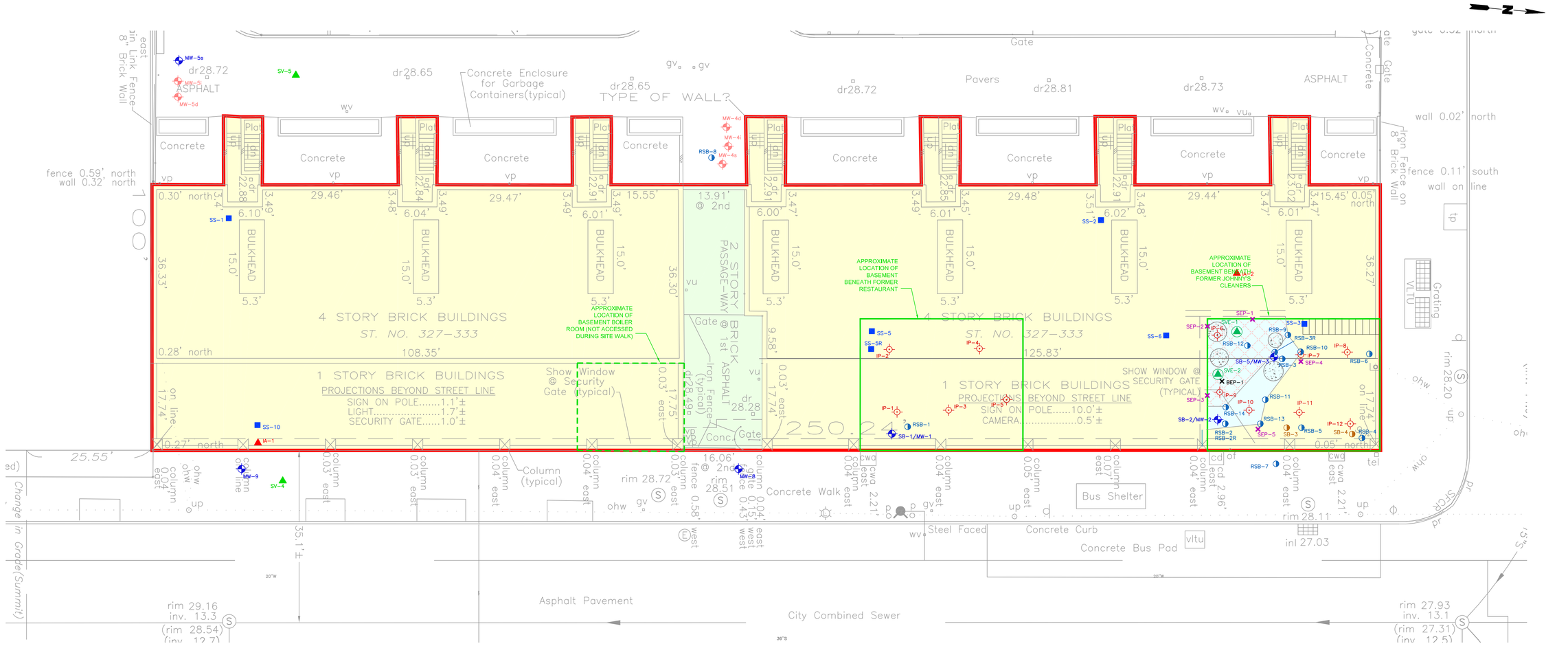
Project Name: MARCUS GARVEY
Project Number: 2158.0002Y004

Lab Number: L2160651
Report Date: 11/09/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2160651-01	MW-9	WATER	BROOKLYN, NY	11/04/21 07:25	11/04/21
L2160651-02	MW-8	WATER	BROOKLYN, NY	11/04/21 07:30	11/04/21
L2160651-03	DUP-110421	WATER	BROOKLYN, NY	11/04/21 07:35	11/04/21
L2160651-04	MW-2	WATER	BROOKLYN, NY	11/04/21 08:40	11/04/21
L2160651-05	MW-3	WATER	BROOKLYN, NY	11/04/21 08:40	11/04/21
L2160651-06	MW-1	WATER	BROOKLYN, NY	11/04/21 09:25	11/04/21
L2160651-07	FIELD BLANK-110421	WATER	BROOKLYN, NY	11/04/21 09:00	11/04/21
L2160651-08	TRIP BLANK	WATER	BROOKLYN, NY	11/01/21 00:00	11/04/21

APPENDIX B

Site Cover System



LEGEND

- MW-4 — LOCATION AND DESIGNATION OF MONITORING WELL IN LONG-TERM MONITORING SITE NETWORK
- MW-1 — LOCATION AND DESIGNATION OF MONITORING WELL NO LONGER IN USE
- SS-1 — LOCATION AND DESIGNATION OF TEMPORARY SUB-SLAB VAPOR SAMPLING POINT
- SV-1 — LOCATION AND DESIGNATION OF TEMPORARY SOIL VAPOR SAMPLING POINT
- IA-1 — LOCATION AND DESIGNATION OF INDOOR AIR SAMPLE
- SVE-1 — LOCATION AND DESIGNATION OF SOIL VAPOR EXTRACTION WELL
- SEP-3 — LOCATION AND DESIGNATION OF SIDEWALL DOCUMENTATION SAMPLE
- BEP-3 — LOCATION AND DESIGNATION OF BOTTOM DOCUMENTATION SAMPLE
- RSB-1 — LOCATION AND DESIGNATION OF SOIL BORING
- SB-4 — LOCATION AND DESIGNATION OF SOIL BORING INSTALLED BY ECOSYSTEMS STRATEGIES, INC.
- IP-1 — LOCATION AND DESIGNATION OF IN SITU CHEMICAL OXIDATION POINT
- LIMITS OF HOT SPOT EXCAVATION, DISPOSAL AS F-LISTED HAZARDOUS WASTE AND BACKFILL WITH CLEAN DGA TO 4 FEET BBS AND CONCRETE SLAB REMOVAL AND REPLACEMENT
- LIMITS OF HOT SPOT EXCAVATION, DISPOSAL AS NON HAZARDOUS WASTE AND BACKFILL WITH CLEAN DGA TO 4 FEET BBS AND CONCRETE SLAB REMOVAL AND REPLACEMENT
- SITE COVER SYSTEM COMPRISED OF EXISTING CONCRETE SLAB
- SITE COVER SYSTEM COMPRISED OF EXISTING ASPHALT PAVEMENT
- BCP SITE/ENVIRONMENTAL EASEMENT BOUNDARY
- APPROXIMATE LOCATION OF BASEMENT (DASHED LINE INDICATES BASEMENT NOT ACCESSED DURING SITE WALK)
- FORMER COLUMN FOOTING REMOVED DURING REMEDIATION

NOTES

1. SITE PLAN ADAPTED FROM SURVEY PREPARED BY MONTROSE SURVEYING CO., LLP (SURVEY NO. 64991-1D).
2. BASEMENT ELEVATION IS APPROXIMATELY 10 FEET BELOW LAND SURFACE.
3. IN SITU GROUNDWATER TREATMENT CONSISTED OF POTASSIUM PERMANGANATE INJECTIONS INTO 12 CHEMICAL INJECTION POINTS (10 TEMPORARY WELLS AND 2 DIRECT INJECTION POINTS IP-2 AND IP-4). ADDITIONAL INJECTION ROUNDS MAY BE REQUIRED DEPENDING UPON POST-INJECTION GROUNDWATER SAMPLING RESULTS.
4. REFER TO DETAILS FOR SITE COVER SYSTEM TYPES.
5. THE SUB-SLAB DEPRESSURIZATION SYSTEM AND SVE WELLS INSTALLED AT THE SITE IS SHOWN ON PLATE 3.
6. EXCAVATION WAS BACKFILLED WITH DGA, WHICH MET THE CRITERIA FOR IMPORT WITHOUT SAMPLING. BACKFILL WAS APPROVED BY NYSDEC PRIOR TO IMPORT.
7. REFER TO PLATE 6 FOR CROSS SECTIONS SHOWING THE ELEVATION OF REMAINING CONTAMINATION.

FT BLS – FEET BELOW LAND SURFACE

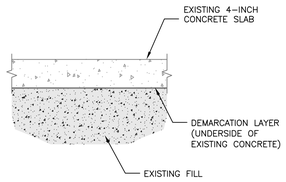
FT BBS – FEET BELOW BASEMENT SLAB (SEE NOTE 2)

SEP – SIDEWALL ENDPOINT SAMPLE

BEP – BOTTOM ENDPOINT SAMPLE

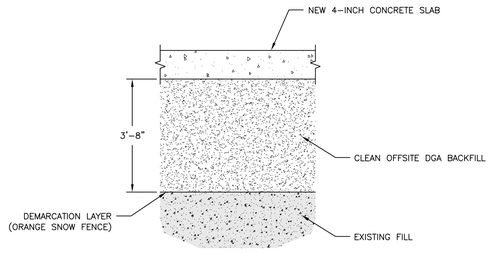
NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DGA – DENSE GRADED AGGREGATE



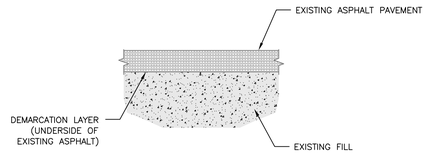
1 SITE COVER SYSTEM: EXISTING CONCRETE

SCALE: NOT TO SCALE



2 SITE COVER SYSTEM: REPAIRED CONCRETE (IN HOT SPOT AREA)

SCALE: NOT TO SCALE



3 SITE COVER SYSTEM: EXISTING ASPHALT PAVEMENT

SCALE: NOT TO SCALE

AS-BUILT

10' 0 10'

NO.	DATE	REVISION DESCRIPTION	INT.

STATE OF NEW YORK — Nicole M. Ciafre — No. 072491 — LICENSED PROFESSIONAL ENGINEER

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF STATE LAW.

THESE DOCUMENTS (OR COPIES OF ANY THEREOF) PREPARED BY OR BEARING THE SEAL OF THE ENGINEER, SHALL NOT BE REUSED FOR ANY EXTENSIONS OF THE PROJECT OR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

PROJ. ENGINEER:	N.C.	DRAWN BY:	J.A.D.
DESIGNED BY:	N.C.	CHECKED BY:	W.K.
DRAWING SCALE:	1"=10'	PLOT SCALE:	1:1
DRAWING DATE:	28OCT16	PRINT TYPE:	COLOR
OFFICE:	NY	PAPER SIZE:	ARCH D
PROJECT NO.:	2158.0002Y002		
DRAWING FILE:	2158.0002Y142.01.DWG		

Remedial

REMEDIAL ENGINEERING, P.C.

209 Shafter Street
Islandia, New York 11749 (631) 232-2600

PROJECT NAME:
MARCUS GARVEY APARTMENTS
650 ROCKAWAY AVE., BROOKLYN, NY

PROJECT FOR:
MARCUS GARVEY PRESERVATION LLC

TITLE:
AS-BUILT OF REMEDIAL COMPONENTS COMPLETED AND ENGINEERING AND INSTITUTIONAL CONTROLS

PLATE
3

V:\CAD\PROJECTS\2158\0.0002Y\142\2158.0002Y142.01.DWG

APPENDIX C

IC and EC Certification Form

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

Site Details **Box 1**

Site No. C224198

Site Name Marcus Garvey Apartments

Site Address: 650 Rockaway Avenue Zip Code: 11212-5631
City/Town: Brooklyn
County: Kings
Site Acreage: 0.328

Reporting Period: April 12, 2021 to April 12, 2022

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	☐
7. Are all ICs in place and functioning as designed?	X	☐

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

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

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	X

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

	YES	NO
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	X	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C224198 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
3575-11	Marcus Garvey Preservation LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan

The site is subject to an environmental easement, which:
• requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
• allows the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
• restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and
• require compliance with the Department approved Site Management Plan.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
3575-11	Vapor Mitigation Cover System Air Sparging/Soil Vapor Extraction

The engineering controls in place at the site are:
• a site cover that allows for restricted residential use of the site. The cover consists of either structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs); and
• an active sub-slab depressurization system operating in any current or future occupied on-site buildings, to mitigate the migration of vapors into occupied buildings from contaminated soil and/or groundwater via soil vapor intrusion.
•Soil Vapor Extraction - Two Soil Vapor Extraction (SVE) wells were installed to address contamination beneath the footings of the building that could not be removed during the excavation.

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

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

YES	NO
X	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

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

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

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

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

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

YES	NO
X	☐

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

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

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. C224198

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I John Garcia at 650 Rockaway Avenue,
print name print business address

am certifying as Owner (Owner or Remedial Party)

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

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

6/9/2022
Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

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

I Noelle Clarke (print name) at 209 Shafter Street, Islandia, NY (print business address),

am certifying as a Qualified Environmental Professional for the Owner (Owner or Remedial Party)

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

Stamp (Required for PE)

May 31, 2022
Date

APPENDIX D

Annual Site Inspection Checklist

Site Inspection Checklist, Marcus Garvey Apartments Site, 650 Rockaway Avenue, Brooklyn, NY

Date: 04-07-2022

Completed By: ALFREDO FERNANDEZ

Description	Status: Ok	Status: Action Req.	Status: N/A	Actions Taken / Comments
Site Cover System				
1 Inspect site cover system for cracks and leaks.	✓			
Sub-Slab Depressurization System Blower A (South Side of Building)				
A. Aboveground Piping on Roof				
1 Inspect aboveground piping for cracks, leaks and support issues.	✓			
2 Inspect vacuum/pressure gauges and flowmeters for proper operation.	✓			
B. Electrical				
1 Check that the electrical control panel is closed/secured.	✓			
2 Confirm that the alarm light is functioning properly.	✓			
C. Blower Enclosure				
1 Inspect condition of exhaust fan, thermostat and louver.	✓			
D. Moisture Knock-out Tank				
1 Check condition of vacuum filter.	✓			
2 Check dilution valve for noises or leaks.	✓			
3 Check for presence of water in knockout tank.	✓			
Sub-Slab Depressurization System BlowerB (North Side of Building)				
A. Aboveground Piping on Roof				
1 Inspect aboveground piping for cracks, leaks and support issues.	✓			
2 Inspect vacuum/pressure gauges and flowmeters for proper operation.	✓			
B. Electrical				
1 Check that the electrical control panel is closed/secured.	✓			
2 Confirm that the alarm light is functioning properly.	✓			
C. Blower Enclosure				
1 Inspect condition of exhaust fan, thermostat and louver.	✓			
D. Moisture Knock-out Tank				
1 Check condition of vacuum filter.	✓			
2 Check dilution valve for noises or leaks.	✓			
3 Check for presence of water in knockout tank.	✓			
Institutional Controls				
1 Confirm that the site usage is in compliance with the institutional controls.	✓			
Site Records				
1 Inspect site records and confirm that they are up to date (e.g., Site Inspection Checklists and Sub-Slab Depressurization System and SVE Wells Operations Logs, sampling logs, etc.)	✓			

APPENDIX E

Annual Inspection Photograph Log

Photo 1: View of Blower A panel with functioning “pump running” bulb shown as functional.

Photo 2: Looking north, a photo of Blower A SSDS enclosure, knock out tank, and exhaust, and influent piping is shown.

Photo 3: View of Blower B SSDS control panel.

Photo 4: View of Blower B blower fan.

Photo 5: View of PID reading of the effluent air at Blower B discharge stack.

Photo 6: Photo of checking Blower A knockout tank during the inspection. Tank was found to be empty.

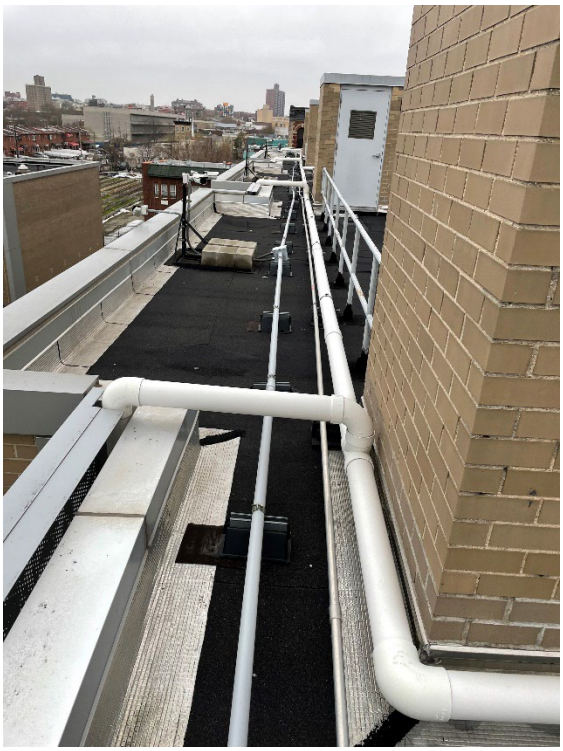


Photo 7: Looking north, photo showing SSDS piping run along the roof with legs heading down the residential side of the building.

Photo 8: Looking north, photo showing SSDS piping run along the roof with legs leading towards the residential building side.

Photo 9: Looking south, view of monitoring point SVMP-A2 in the boiler room and SSDS leg going into the wall.

Photo 10: Photo of SVMP-A5 during annual inspection with adjacent suction point MG-A1. The suction point showed significant a vacuum measurement during inspection (Appendix F).

Photo 11: Sidewalk vault leading to exposed SSDS and monitoring points related to Building B blower (southern basement area).

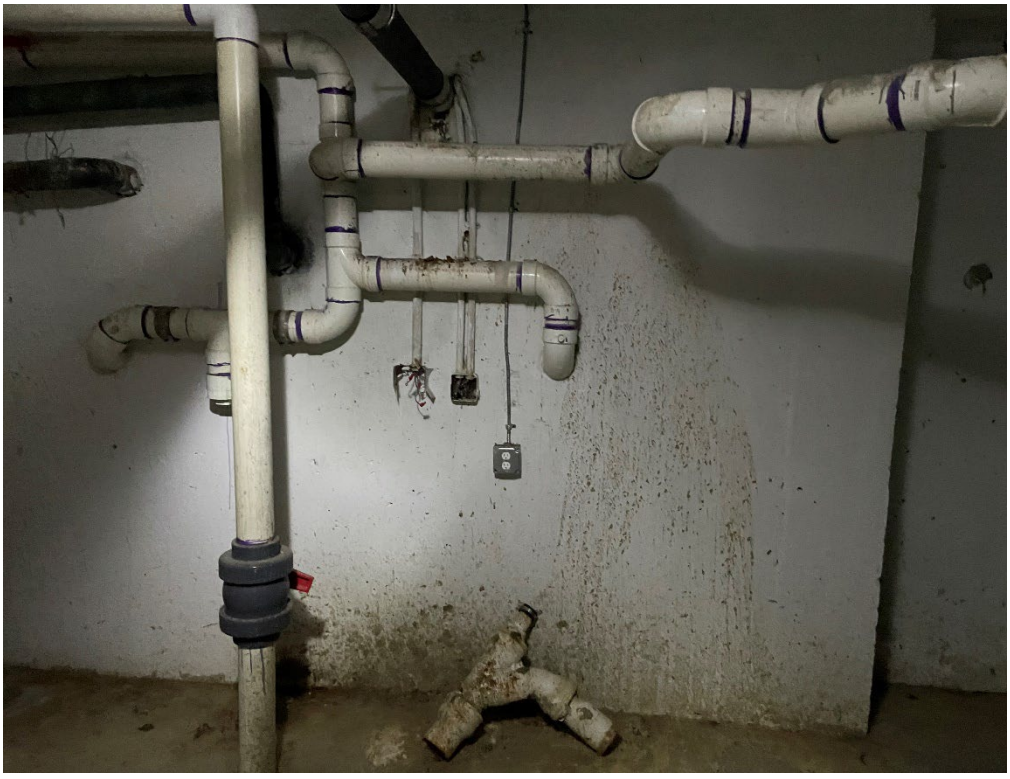


Photo 12: Photo of the southern basement located under the commercial spaces; SVE well and suction points -B8 through -B11.

Photo 13: Photo showing intact concrete composite cover system located in the southern commercial space basement.

Photo 14: Photo showing Blower B exposed piping in cellar and inspecting. SVMP-B5 to the left and suction points MG-13 and -14.

Photo 15: Looking south, showing residential side of the site and stairwells leading to basements where SVMP's are located.

Photo 16: Photo showing monitoring point SVMP-A5 during site inspection.

Photo 17: Photo showing piping layout and SVMP-B4 and adjacent suction point MG-B3.

Photo 18: Inspection of the boiler room piping and foundation.

Photo 19: Photo showing monitoring point SVMP-A3 located on the residential side of the site.

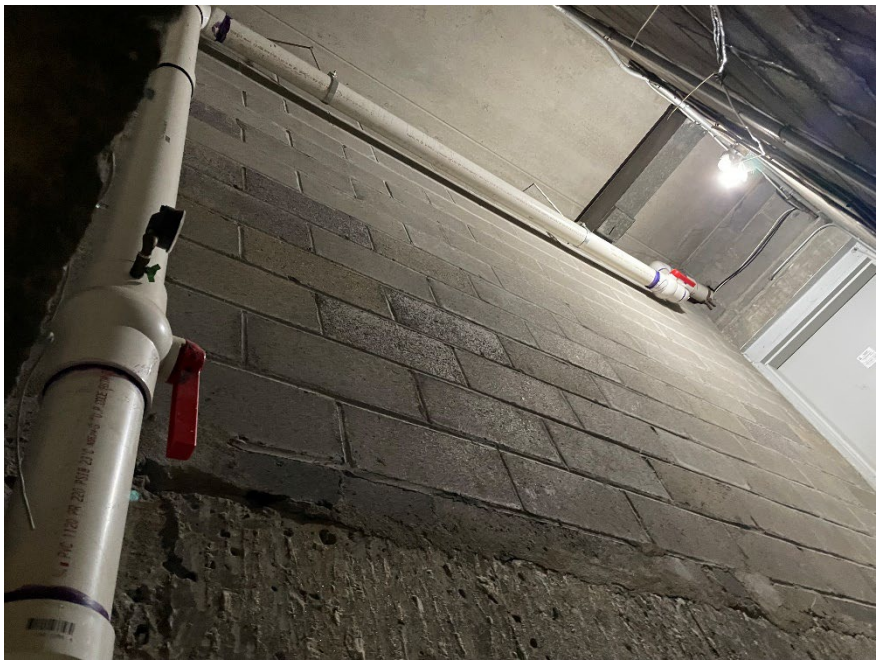


Photo 20: SSDS piping run leading down from the first floor and into the boiler room wall.

APPENDIX F

Monthly SSDS O&M Logs

BLOWER A (SOUTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)
Street Address:	650 Rockaway Avenue
Location:	Brownsville, NY
System:	Active Mix Use Sub-Slab Depressurization System
Blower:	Rotron EN858, 7.5 Hp (Blower A)
Blower Range:	120 IWG pressure, 98 IWG vac, 400 cfm

Inspection Date: 05-06-21

Inspection Personnel: ALFREDO FERNANDEZ

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		
Are any warning lights on? (Please list those that are on)		✓	
If there is an alarm condition, was it fixed and the system restarted?		✓	
Is the blower enclosure in good condition?	✓		
Are the valves (at blower and aboveground piping) in good condition?	✓		
Is the vacuum filter in good condition?	✓		
Does the knock-out tank need to be drained? (Record amount drained)		✓	
Are aboveground piping free of cracks, leaks, and support issues?	✓		
Are vacuum/pressure gauges at blower operating properly?	✓		
Are interior piping free of cracks, leaks, and support issues?	✓		

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-A1 (after knock-out tank)	25	
Knock-out Tank-A	21	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-A1	0.113	PID: 0 PPM
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-A2	1.409	
SVMP-A3 (335 Chester)	0.046	
SVMP-A4 (337 Chester)	0.093	
SVMP-A5 (339 Chester)	0.017 (BEFORE AIR COMPRESSOR)	0.040 (AFTER AIR COMPRESSOR)

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-A2, SVMP-A3, SVMP-A4, OR SVMP-A5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?			

Suction Point*	Vacuum (in. w.c.)	Comments
MG-A1	15.50	
MG-A2	15.56	
MG-A3	15.42	
MG-A4	15.29	
MG-A5		
MG-A6	14.27	
MG-A7		
MG-A8		
MG-A9		
MG-A10		
MG-A11	7.746	
MG-A12	7.819	
MG-A13		
MG-A14		

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

BLOWER B (NORTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)
Street Address:	650 Rockaway Avenue
Location:	Brownsville, NY
System:	Active Mix Use Sub-Slab Depressurization System
Blower:	Rotron EN909 15 Hp (Blower B)
Blower Range:	120 IWG pressure, 100 IWG vac, 600 cfm

Inspection Date: 05-06-21

Inspection Personnel: ALFREDO FERNANDEZ

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		
Are any warning lights on? (Please list those that are on)		✓	
If there is an alarm condition, was it fixed and the system restarted?		✓	
Is the blower enclosure in good condition?	✓		
Are the valves (at blower and aboveground piping) in good condition?	✓		
Is the vacuum filter in good condition?	✓		
Does the knock-out tank need to be drained? (Record amount drained)		✓	
Are aboveground piping free of cracks, leaks, and support issues?	✓		
Are vacuum/pressure gauges at blower operating properly?	✓		
Are interior piping free of cracks, leaks, and support issues?	✓		
Are the valves on SVE wells 1 and 2 open?	✓		

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-B1 (after knock-out tank)	50	
Knock-out Tank-B	50	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-B1	0.284	
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-B1	0.002 (BEFORE AIR COMPRESSOR)	0.014 (AFTER AIR COMPRESSOR)
SVMP-B2	0.072	
SVMP-B3	0.005 (BEFORE AIR COMPRESSOR)	0.029 (AFTER AIR COMPRESSOR)
SVMP-B4 (331 Chester)	0 (BEFORE AIR COMPRESSOR)	0 (AFTER AIR COMPRESSOR)
SVMP-B5	0.031	

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-B2, SVMP-B3, SVMP-B4, OR SVMP-B5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?			

Suction Point*	Vacuum (in. w.c.)	Comments
MG-B1	29.21	
MG-B2	30.50	
MG-B3	30.42	
MG-B4	32.68	
MG-B5	32.59	
MG-B6	33.02	
MG-B7	32.52	
MG-B8	15.26	
MG-B9	15.01	
MG-B10	14.91	
MG-B11	14.85	
MG-B12	15.07	
MG-B13	9.325	
MG-B14	9.148	
MG-B15	8.957	
MG-B16	8.684	
MG-B17		DOOR LOCKED

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

A

BLOWER A (SOUTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)	Inspection Date:	6/29/2021
Street Address:	650 Rockaway Avenue		
Location:	Brownsville, NY	Inspection Personnel:	
System:	Active Mix Use Sub-Slab Depressurization System		Cristian S.
Blower:	Rotron EN858, 7.5 Hp (Blower A)		
Blower Range:	120 IWG pressure, 98 IWG vac, 400 cfm		

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		
Are any warning lights on? (Please list those that are on)		✓	
If there is an alarm condition, was it fixed and the system restarted?		✓	
Is the blower enclosure in good condition?	✓		
Are the valves (at blower and aboveground piping) in good condition?	✓		
Is the vacuum filter in good condition?	✓		
Does the knock-out tank need to be drained? (Record amount drained)		✓	
Are aboveground piping free of cracks, leaks, and support issues?	✓		
Are vacuum/pressure gauges at blower operating properly?	✓		
Are interior piping free of cracks, leaks, and support issues?			

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-A1 (after knock-out tank)	39	
Knock-out Tank-A1	20	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-A1	1.255	
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-A2	1.394	
SVMP-A3 (335 Chester)	0.008	
SVMP-A4 (337 Chester)	0.064	
SVMP-A5 (339 Chester)	0.000	

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-A2, SVMP-A3, SVMP-A4, OR SVMP-A5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?			

Suction Point*	Vacuum (in. w.c.)	Comments
MG-A1		
MG-A2		
MG-A3		
MG-A4		
MG-A5		
MG-A6		
MG-A7		
MG-A8		
MG-A9		
MG-A10		
MG-A11		
MG-A12		
MG-A13		
MG-A14		

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

B

BLOWER B (NORTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)	Inspection Date:	6/29/2021
Street Address:	650 Rockaway Avenue		
Location:	Brownsville, NY	Inspection Personnel:	
System:	Active Mix Use Sub-Slab Depressurization System		Cristian S.
Blower:	Rotron EN909 15 Hp (Blower B)		
Blower Range:	120 IWG pressure, 100 IWG vac, 600 cfm		

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		
Are any warning lights on? (Please list those that are on)		✓	
If there is an alarm condition, was it fixed and the system restarted?		✓	
Is the blower enclosure in good condition?	✓		
Are the valves (at blower and aboveground piping) in good condition?	✓		
Is the vacuum filter in good condition?	✓		
Does the knock-out tank need to be drained? (Record amount drained)		✓	
Are aboveground piping free of cracks, leaks, and support issues?	✓		
Are vacuum/pressure gauges at blower operating properly?	✓		
Are interior piping free of cracks, leaks, and support issues?	✓		
Are the valves on SVE wells 1 and 2 open?			

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-B1 (after knock-out tank)	56	
Knock-out Tank-B1	58	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-B1	0.214	
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-B1	0.000	
SVMP-B2	0.054	
SVMP-B3	0.000	
SVMP-B4 (331 Chester)	0.000	
SVMP-B5	0.019	

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-B2, SVMP-B3, SVMP-B4, OR SVMP-B5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?			

Suction Point*	Vacuum (in. w.c.)	Comments
MG-B1		
MG-B2		
MG-B3		
MG-B4		
MG-B5		
MG-B6		
MG-B7		
MG-B8		
MG-B9		
MG-B10		
MG-B11		
MG-B12		
MG-B13		
MG-B14		
MG-B15		
MG-B16		
MG-B17		

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

BLOWER A (SOUTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)	Inspection Date:	7/30/2021
Street Address:	650 Rockaway Avenue		
Location:	Brownsville, NY	Inspection Personnel:	Cristian
System:	Active Mix Use Sub-Slab Depressurization System		
Blower:	Rotron EN858, 7.5 Hp (Blower A)		
Blower Range:	120 IWG pressure, 98 IWG vac, 400 cfm		

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓	—	
Are any warning lights on? (Please list those that are on)	✓	—	
If there is an alarm condition, was it fixed and the system restarted?	✓	—	
Is the blower enclosure in good condition?	✓	—	
Are the valves (at blower and aboveground piping) in good condition?	✓	—	
Is the vacuum filter in good condition?	✓	—	
Does the knock-out tank need to be drained? (Record amount drained)	—	✓	
Are aboveground piping free of cracks, leaks, and support issues?	—	✓	
Are vacuum/pressure gauges at blower operating properly?	✓	—	
Are interior piping free of cracks, leaks, and support issues?	—	✓	

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-A1 (after knock-out tank)	40	
Knock-out Tank-A1	19	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-A1	0.256	
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-A2	0.701	
SVMP-A3 (335 Chester)	0.010	
SVMP-A4 (337 Chester)	0.057	
SVMP-A5 (339 Chester)	0.000	

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-A2, SVMP-A3, SVMP-A4, OR SVMP-A5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?	—	—	

Suction Point*	Vacuum (in. w.c.)	Comments
MG-A1		
MG-A2		
MG-A3		
MG-A4		
MG-A5		
MG-A6		
MG-A7		
MG-A8		
MG-A9		
MG-A10		
MG-A11		
MG-A12		
MG-A13		
MG-A14		

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

BLOWER B (NORTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)	Inspection Date:	7/30/21
Street Address:	650 Rockaway Avenue		
Location:	Brownsville, NY	Inspection Personnel:	Cristian
System:	Active Mix Use Sub-Slab Depressurization System		
Blower:	Rotron EN909 15 Hp (Blower B)		
Blower Range:	120 IWG pressure, 100 IWG vac, 600 cfm		

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		
Are any warning lights on? (Please list those that are on)	✓		
If there is an alarm condition, was it fixed and the system restarted?	✓		
Is the blower enclosure in good condition?	✓		
Are the valves (at blower and aboveground piping) in good condition?	✓		
Is the vacuum filter in good condition?	✓		
Does the knock-out tank need to be drained? (Record amount drained)		✓	
Are aboveground piping free of cracks, leaks, and support issues?		✓	
Are vacuum/pressure gauges at blower operating properly?	✓		
Are interior piping free of cracks, leaks, and support issues?	✓		
Are the valves on SVE wells 1 and 2 open?		✓	

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-B1 (after knock-out tank)	57	
Knock-out Tank-B1	51	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-B1	0.515	
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-B1	0.938	
SVMP-B2	0.053	
SVMP-B3	0.000	
SVMP-B4 (331 Chester)	0.000	
SVMP-B5	0.017	

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-B2, SVMP-B3, SVMP-B4, OR SVMP-B5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?			

Suction Point*	Vacuum (in. w.c.)	Comments
MG-B1		
MG-B2		
MG-B3		
MG-B4		
MG-B5		
MG-B6		
MG-B7		
MG-B8		
MG-B9		
MG-B10		
MG-B11		
MG-B12		
MG-B13		
MG-B14		
MG-B15		
MG-B16		
MG-B17		

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

BLOWER A (SOUTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)	Inspection Date:	8-27-2021
Street Address:	650 Rockaway Avenue		
Location:	Brownsville, NY	Inspection Personnel:	Cristian A.
System:	Active Mix Use Sub-Slab Depressurization System		
Blower:	Rotron EN858, 7.5 Hp (Blower A)		
Blower Range:	120 IWG pressure, 98 IWG vac, 400 cfm		

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		
Are any warning lights on? (Please list those that are on)		✓	
If there is an alarm condition, was it fixed and the system restarted?	✓		
Is the blower enclosure in good condition?	✓		
Are the valves (at blower and aboveground piping) in good condition?	✓		
Is the vacuum filter in good condition?	✓		
Does the knock-out tank need to be drained? (Record amount drained)		✓	
Are aboveground piping free of cracks, leaks, and support issues?		✓	
Are vacuum/pressure gauges at blower operating properly?	✓		
Are interior piping free of cracks, leaks, and support issues?		✓	

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-A1 (after knock-out tank)	4.2	
Knock-out Tank-A1	18	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-A1	0.422	
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-A2	1.145	
SVMP-A3 (335 Chester)	0.018	
SVMP-A4 (337 Chester)	0.031	
SVMP-A5 (339 Chester)	0.000	

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-A2, SVMP-A3, SVMP-A4, OR SVMP-A5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?			

Suction Point*	Vacuum (in. w.c.)	Comments
MG-A1		
MG-A2		
MG-A3		
MG-A4		
MG-A5		
MG-A6		
MG-A7		
MG-A8		
MG-A9		
MG-A10		
MG-A11		
MG-A12		
MG-A13		
MG-A14		

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

BLOWER B (NORTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)	Inspection Date:	9-27-2021
Street Address:	650 Rockaway Avenue		
Location:	Brownsville, NY	Inspection Personnel:	Cristian
System:	Active Mix Use Sub-Slab Depressurization System		
Blower:	Rotron EN909 15 Hp (Blower B)		
Blower Range:	120 IWG pressure, 100 IWG vac, 600 cfm		

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		
Are any warning lights on? (Please list those that are on)		✓	
If there is an alarm condition, was it fixed and the system restarted?	✓		
Is the blower enclosure in good condition?	✓		
Are the valves (at blower and aboveground piping) in good condition?	✓		
Is the vacuum filter in good condition?	✓		
Does the knock-out tank need to be drained? (Record amount drained)		✓	
Are aboveground piping free of cracks, leaks, and support issues?		✓	
Are vacuum/pressure gauges at blower operating properly?	✓		
Are interior piping free of cracks, leaks, and support issues?		✓	
Are the valves on SVE wells 1 and 2 open?		✓	

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-B1 (after knock-out tank)	58	
Knock-out Tank-B1	52	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-B1	0.580	
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-B1	0.015	
SVMP-B2	0.162	
SVMP-B3	0.000	
SVMP-B4 (331 Chester)	0.000	
SVMP-B5	0.006	

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-B2, SVMP-B3, SVMP-B4, OR SVMP-B5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?			

Suction Point*	Vacuum (in. w.c.)	Comments
MG-B1		
MG-B2		
MG-B3		
MG-B4		
MG-B5		
MG-B6		
MG-B7		
MG-B8		
MG-B9		
MG-B10		
MG-B11		
MG-B12		
MG-B13		
MG-B14		
MG-B15		
MG-B16		
MG-B17		

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

BLOWER A (SOUTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)	Inspection Date:	9/21/21
Street Address:	650 Rockaway Avenue		
Location:	Brownsville, NY	Inspection Personnel:	Cristian
System:	Active Mix Use Sub-Slab Depressurization System		
Blower:	Rotron EN858, 7.5 Hp (Blower A)		
Blower Range:	120 IWG pressure, 98 IWG vac, 400 cfm		

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		
Are any warning lights on? (Please list those that are on)		✓	
If there is an alarm condition, was it fixed and the system restarted?		✓	
Is the blower enclosure in good condition?	✓		
Are the valves (at blower and aboveground piping) in good condition?	✓		
Is the vacuum filter in good condition?	✓		
Does the knock-out tank need to be drained? (Record amount drained)	✓		
Are aboveground piping free of cracks, leaks, and support issues?		✓	
Are vacuum/pressure gauges at blower operating properly?	✓		
Are interior piping free of cracks, leaks, and support issues?		✓	

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-A1 (after knock-out tank)	42	
Knock-out Tank-A1	19	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-A1	0.302	
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-A2	1.330	
SVMP-A3 (335 Chester)	0.036	
SVMP-A4 (337 Chester)	0.021	
SVMP-A5 (339 Chester)	0.000	

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-A2, SVMP-A3, SVMP-A4, OR SVMP-A5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?			

Suction Point*	Vacuum (in. w.c.)	Comments
MG-A1		
MG-A2		
MG-A3		
MG-A4		
MG-A5		
MG-A6		
MG-A7		
MG-A8		
MG-A9		
MG-A10		
MG-A11		
MG-A12		
MG-A13		
MG-A14		

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

BLOWER B (NORTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)	Inspection Date:	9/24/21
Street Address:	650 Rockaway Avenue		
Location:	Brownsville, NY	Inspection Personnel:	Cristian
System:	Active Mix Use Sub-Slab Depressurization System		
Blower:	Rotron EN909 15 Hp (Blower B)		
Blower Range:	120 IWG pressure, 100 IWG vac, 600 cfm		

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		
Are any warning lights on? (Please list those that are on)		✓	
If there is an alarm condition, was it fixed and the system restarted?	✓		
Is the blower enclosure in good condition?	✓		
Are the valves (at blower and aboveground piping) in good condition?	✓		
Is the vacuum filter in good condition?	✓		
Does the knock-out tank need to be drained? (Record amount drained)	✓		
Are aboveground piping free of cracks, leaks, and support issues?	✓		
Are vacuum/pressure gauges at blower operating properly?	✓		
Are interior piping free of cracks, leaks, and support issues?		✓	
Are the valves on SVE wells 1 and 2 open?		✓	

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-B1 (after knock-out tank)	58	
Knock-out Tank-B1	55	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-B1	0.422	
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-B1	0.315	
SVMP-B2	0.440	
SVMP-B3	0.000	
SVMP-B4 (331 Chester)	0.000	
SVMP-B5	0.017	

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-B2, SVMP-B3, SVMP-B4, OR SVMP-B5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?			

Suction Point*	Vacuum (in. w.c.)	Comments
MG-B1	0.315	
MG-B2	0.440	
MG-B3	0.000	
MG-B4		
MG-B5	0.017	
MG-B6		
MG-B7		
MG-B8		
MG-B9		
MG-B10		
MG-B11		
MG-B12		
MG-B13		
MG-B14		
MG-B15		
MG-B16		
MG-B17		

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

BLOWER A (SOUTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)	Inspection Date:	11-04-21
Street Address:	650 Rockaway Avenue		
Location:	Brownsville, NY	Inspection Personnel:	ALFREDO FERNANDEZ
System:	Active Mix Use Sub-Slab Depressurization System		MICHAEL SARNI
Blower:	Rotron EN858, 7.5 Hp (Blower A)		
Blower Range:	120 IWG pressure, 98 IWG vac, 400 cfm		

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		
Are any warning lights on? (Please list those that are on)		✓	
If there is an alarm condition, was it fixed and the system restarted?		✓	
Is the blower enclosure in good condition?	✓		
Are the valves (at blower and aboveground piping) in good condition?	✓		
Is the vacuum filter in good condition?	✓		
Does the knock-out tank need to be drained? (Record amount drained)		✓	
Are aboveground piping free of cracks, leaks, and support issues?	✓		
Are vacuum/pressure gauges at blower operating properly?	✓		
Are interior piping free of cracks, leaks, and support issues?	✓		

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-A1 (after knock-out tank)	23	
Knock-out Tank-A1	19	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-A1	0.086	PID < 0.0 PPM
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-A2	1.341	
SVMP-A3 (335 Chester)	0.043	
SVMP-A4 (337 Chester)	0.079	
SVMP-A5 (339 Chester)	0.011	CUT CAP OFF- RESEALED

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-A2, SVMP-A3, SVMP-A4, OR SVMP-A5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?	✓		

Suction Point*	Vacuum (in. w.c.)	Comments
MG-A1	14.69	
MG-A2	14.67	
MG-A3	14.07	
MG-A4	14.04	
MG-A5		
MG-A6	13.18	
MG-A7		
MG-A8		
MG-A9		
MG-A10		
MG-A11		
MG-A12	7.627	
MG-A13	7.437	
MG-A14		

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

BLOWER B (NORTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)	Inspection Date:	11-04-21
Street Address:	650 Rockaway Avenue		
Location:	Brownsville, NY	Inspection Personnel:	ALFREDO FERNANDEZ
System:	Active Mix Use Sub-Slab Depressurization System		MICHAEL SARNI
Blower:	Rotron EN909 15 Hp (Blower B)		
Blower Range:	120 IWG pressure, 100 IWG vac, 600 cfm		

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		
Are any warning lights on? (Please list those that are on)		✓	
If there is an alarm condition, was it fixed and the system restarted?		✓	
Is the blower enclosure in good condition?	✓		
Are the valves (at blower and aboveground piping) in good condition?	✓		
Is the vacuum filter in good condition?	✓		
Does the knock-out tank need to be drained? (Record amount drained)		✓	
Are aboveground piping free of cracks, leaks, and support issues?	✓		
Are vacuum/pressure gauges at blower operating properly?	✓		
Are interior piping free of cracks, leaks, and support issues?	✓		
Are the valves on SVE wells 1 and 2 open?	✓		

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-B1 (after knock-out tank)	45	
Knock-out Tank-B1	44	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-B1	0.145	PID 0.0
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-B1	0.006	
SVMP-B2	0.004	
SVMP-B3	0.010	CUT CAP OFF - RESEALED
SVMP-B4 (331 Chester)	0.000	CUT CAP OFF - resealed
SVMP-B5	0.019	

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-B2, SVMP-B3, SVMP-B4, OR SVMP-B5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?	✓		

Suction Point*	Vacuum (in. w.c.)	Comments
MG-B1	32.26	
MG-B2	34.34	
MG-B3	34.26	
MG-B4	35.79	
MG-B5	35.41	
MG-B6	35.62	
MG-B7	35.85	
MG-B8	17.12	
MG-B9	17.26	
MG-B10	16.64	
MG-B11	16.56	
MG-B12	16.70	
MG-B13	10.47	
MG-B14	10.39	
MG-B15	10.06	
MG-B16	9.888	
MG-B17		DOOR Locked

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

BLOWER B (NORTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)	Inspection Date:	01-26-22
Street Address:	650 Rockaway Avenue		
Location:	Brownsville, NY	Inspection Personnel:	Cristian Salcedo
System:	Active Mix Use Sub-Slab Depressurization System		
Blower:	Rotron EN909 15 Hp (Blower B)		
Blower Range:	120 IWG pressure, 100 IWG vac, 600 cfm		

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		
Are any warning lights on? (Please list those that are on)		✓	
If there is an alarm condition, was it fixed and the system restarted?	✓		
Is the blower enclosure in good condition?	✓		
Are the valves (at blower and aboveground piping) in good condition?	✓		
Is the vacuum filter in good condition?	✓		
Does the knock-out tank need to be drained? (Record amount drained)	✓		10 Gal of water
Are aboveground piping free of cracks, leaks, and support issues?		✓	
Are vacuum/pressure gauges at blower operating properly?	✓		
Are interior piping free of cracks, leaks, and support issues?		✓	
Are the valves on SVE wells 1 and 2 open?			

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-B1 (after knock-out tank)	50	
Knock-out Tank-B1	44	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-B1	0.372	
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-B1	0.056	
SVMP-B2	0.060	
SVMP-B3	0.004	
SVMP-B4 (331 Chester)	0.000	
SVMP-B5	0.002	

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-B2, SVMP-B3, SVMP-B4, OR SVMP-B5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?			

Suction Point*	Vacuum (in. w.c.)	Comments
MG-B1		
MG-B2		
MG-B3		
MG-B4		
MG-B5		
MG-B6		
MG-B7		
MG-B8		
MG-B9		
MG-B10		
MG-B11		
MG-B12		
MG-B13		
MG-B14		
MG-B15		
MG-B16		
MG-B17		

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

BLOWER A (SOUTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)	Inspection Date:	02-22-2022
Street Address:	650 Rockaway Avenue		
Location:	Brownsville, NY	Inspection Personnel:	ALFREDO FERNANDEZ
System:	Active Mix Use Sub-Slab Depressurization System		
Blower:	Rotron EN858, 7.5 Hp (Blower A)		
Blower Range:	*120 IWG pressure, 98 IWG vac, 400 cfm*		

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		
Are any warning lights on? (Please list those that are on)		✓	
If there is an alarm condition, was it fixed and the system restarted?		✓	
Is the blower enclosure in good condition?	✓		
Are the valves (at blower and aboveground piping) in good condition?	✓		
Is the vacuum filter in good condition?	✓		
Does the knock-out tank need to be drained? (Record amount drained)		✓	
Are aboveground piping free of cracks, leaks, and support issues?	✓		
Are vacuum/pressure gauges at blower operating properly?	✓		
Are interior piping free of cracks, leaks, and support issues?	✓		

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-A1 (after knock-out tank)	30	
Knock-out Tank-A1	20	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-A1	0.077	PID: 0 PPM
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-A2	1.113	
SVMP-A3 (335 Chester)	0.102	
SVMP-A4 (337 Chester)	0.097	
SVMP-A5 (339 Chester)	0.002	

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-A2, SVMP-A3, SVMP-A4, OR SVMP-A5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?	✓		

Suction Point*	Vacuum (in. w.c.)	Comments
MG-A1	18.02	
MG-A2	17.37	
MG-A3	16.93	
MG-A4	16.86	
MG-A5		
MG-A6	16.27	
MG-A7		
MG-A8		
MG-A9		
MG-A10		
MG-A11		
MG-A12	9.136	
MG-A13	9.401	
MG-A14		

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

BLOWER B (NORTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)	Inspection Date:	02-22-2022
Street Address:	650 Rockaway Avenue		
Location:	Brownsville, NY	Inspection Personnel:	ALFREDO FERNANDEZ
System:	Active Mix Use Sub-Slab Depressurization System		
Blower:	Rotron EN909 15 Hp (Blower B)		
Blower Range:	120 IWG pressure, 100 IWG vac, 600 cfm.		

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		
Are any warning lights on? (Please list those that are on)		✓	
If there is an alarm condition, was it fixed and the system restarted?		✓	
Is the blower enclosure in good condition?	✓		
Are the valves (at blower and aboveground piping) in good condition?	✓		
Is the vacuum filter in good condition?	✓		
Does the knock-out tank need to be drained? (Record amount drained)		✓	
Are aboveground piping free of cracks, leaks, and support issues?	✓		
Are vacuum/pressure gauges at blower operating properly?	✓		
Are interior piping free of cracks, leaks, and support issues?	✓		
Are the valves on SVE wells 1 and 2 open?	✓		

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-B1 (after knock-out tank)	45	
Knock-out Tank-B1	45	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-B1	0.096	PID: 0 PPM
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-B1	0.026	
SVMP-B2	0.051	
SVMP-B3	0.007	
SVMP-B4 (331 Chester)	0.004	
SVMP-B5	0.016	

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-B2, SVMP-B3, SVMP-B4, OR SVMP-B5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?	✓		

Suction Point*	Vacuum (in. w.c.)	Comments
MG-B1	32.12	
MG-B2	34.52	
MG-B3	36.81	
MG-B4	36.58	
MG-B5	36.19	
MG-B6	36.75	
MG-B7	36.47	
MG-B8	17.16	
MG-B9	16.14	
MG-B10	16.66	
MG-B11	16.13	
MG-B12	16.22	
MG-B13	10.15	
MG-B14	10.11	
MG-B15	9.53	
MG-B16	9.48	
MG-B17		DOOR LOCKED

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

BLOWER A (SOUTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)	Inspection Date:	
Street Address:	650 Rockaway Avenue		
Location:	Brownsville, NY	Inspection Personnel:	Christian
System:	Active Mix Use Sub-Slab Depressurization System		
Blower:	Rotron EN858, 7.5 Hp (Blower A)		
Blower Range:	120 IWG pressure, 98 IWG vac, 400 cfm		

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		
Are any warning lights on? (Please list those that are on)		✓	
If there is an alarm condition, was it fixed and the system restarted?		✓	
Is the blower enclosure in good condition?	✓		
Are the valves (at blower and aboveground piping) in good condition?	✓		
Is the vacuum filter in good condition?	✓		
Does the knock-out tank need to be drained? (Record amount drained)		✓	0 water
Are aboveground piping free of cracks, leaks, and support issues?	✓		
Are vacuum/pressure gauges at blower operating properly?	✓	✓	
Are interior piping free of cracks, leaks, and support issues?		✓	

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-A1 (after knock-out tank)	35	
Knock-out Tank-A1	20	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-A1	0.050	
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-A2	1.285	
SVMP-A3 (335 Chester)	0.034	
SVMP-A4 (337 Chester)	0.037	
SVMP-A5 (339 Chester)	0.000	

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-A2, SVMP-A3, SVMP-A4, OR SVMP-A5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?			

Suction Point*	Vacuum (in. w.c.)	Comments
MG-A1		
MG-A2		
MG-A3		
MG-A4		
MG-A5		
MG-A6		
MG-A7		
MG-A8		
MG-A9		
MG-A10		
MG-A11		
MG-A12		
MG-A13		
MG-A14		

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

B

BLOWER B (NORTHERN) SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	Marcus Garvey Apartments (BCP Site No. C224198)	Inspection Date:	
Street Address:	650 Rockaway Avenue		
Location:	Brownsville, NY	Inspection Personnel:	Cristian
System:	Active Mix Use Sub-Slab Depressurization System		
Blower:	Rotron EN909 15 Hp (Blower B)		
Blower Range:	120 IWG pressure, 100 IWG vac, 600 cfm		

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		
Are any warning lights on? (Please list those that are on)		✓	
If there is an alarm condition, was it fixed and the system restarted?		✓	
Is the blower enclosure in good condition?	✓		
Are the valves (at blower and aboveground piping) in good condition?	✓		
Is the vacuum filter in good condition?	✓		
Does the knock-out tank need to be drained? (Record amonnt drained)	✓		0 water
Are aboveground piping free of cracks, leaks, and support issues?		✓	
Are vacuum/pressure ganges at blower operating properly?	✓		
Are interior piping free of cracks, leaks, and support issues?		✓	
Are the valves on SVE wells 1 and 2 open?	✓		

List maintenance activities that were performed or other comments abont the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-B1 (after knock-out tank)	48	
Knock-out Tank-B1	43	
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-B1	0.063	
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SVMP-B1	0.011	
SVMP-B2	0.097	
SVMP-B3	0.003	
SVMP-B4 (331 Chester)	0.000	
SVMP-B5	0.001	

PERFORM THE FOLLOWING ONLY IF VACUUM READING AT SVMP-B2, SVMP-B3, SVMP-B4, OR SVMP-B5 IS LESS THAN 0.004 IN. W.C.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Are interior vacuum gauges operating properly?			

Suction Point*	Vacuum (in. w.c.)	Comments
MG-B1		
MG-B2		
MG-B3		
MG-B4		
MG-B5		
MG-B6		
MG-B7		
MG-B8		
MG-B9		
MG-B10		
MG-B11		
MG-B12		
MG-B13		
MG-B14		
MG-B15		
MG-B16		
MG-B17		

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

PLATE

Exceedances of AWQSGVs in Groundwater

MW-1	8/20/14	7/14/16	7/14/16	8/18/16	2/28/17	6/13/17	8/31/17	12/7/17	3/15/18	3/15/18	12/4/18	10/1/20	11/4/21
VOCs			DUP							DUP			
Chloroform	ND	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	**13**	NE
Cis-1,2-Dichloroethylene	**60 JD**	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichloroethylenes	**60 JD**	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	**3200 D**	**220**	**240**	**110**	**62**	**78**	**31**	**16**	**18**	**14**	**21**	**9.5**	**7.5**
Trichloroethylene (TCE)	**40 D**	NE	NE	ND	NE	NE	NE	NE	NE	NE	NE	NE	NE

MW-9	7/14/16	8/18/16	2/28/17	6/13/17	8/31/17	12/7/17	3/15/18	12/4/18	10/1/20	11/4/21
VOCs										
Tetrachloroethylene (PCE)	**20**	**24**	**35**	**33**	**12**	**20**	**13**	**14**	**12**	**6.6**

MW-8	7/14/16	8/18/16	8/18/16	2/28/17	6/13/17	8/31/17	12/7/17	3/15/18	12/4/18	12/4/18	10/1/20	11/4/21	11/4/21
VOCs			DUP										DUP
Chloroform	**12**	**19**	**19**	NE	ND	ND	NE	NE	ND	ND	**9.3**	NE	NE
Tetrachloroethylene (PCE)	**140**	**140**	**140**	**36**	**22**	**20**	**20**	**17**	**17**	**18**	**7.9**	**5.1**	**5.1**

MW-2	8/20/14	7/14/16	8/18/16	2/28/17	6/13/17	8/31/17	12/7/17	3/15/18	12/4/18	10/1/20	10/1/20	11/4/21
VOCs											DUP	
Acetone	ND	ND	**200**	NE	NE	NE	NE	NE	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	**190 JD**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichloroethylenes	**190 JD**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	**7700 D**	**49**	NE	**9.1**	**11**	NE	NE	**5.3**	**8.1**	**5.1**	**5.1**	**8.9**
Trichloroethylene (TCE)	**110 D**	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MW-3	8/20/14	7/14/16	8/18/16	2/28/17	6/13/17	8/31/17	8/31/17	3/15/18	12/4/18	10/1/20	11/4/21
VOCs							DUP				
Acetone	ND	ND	**58**	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	**2700 D**	**32**	ND	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethylene (TCE)	**28 D**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

LEGEND

- MW-4 — LOCATION AND DESIGNATION OF MONITORING WELL IN LONG-TERM MONITORING SITE NETWORK
- MW-1 — LOCATION AND DESIGNATION OF MONITORING WELL NO LONGER IN USE
- BCP SITE/ENVIRONMENTAL EASEMENT BOUNDARY
- APPROXIMATE FOOTPRINT OF FORMER JOHNNY'S CLEANERS/ENVIRONMENTAL EASEMENT BOUNDARY
- APPROXIMATE LOCATION OF BASEMENT (DASHED LINE INDICATES BASEMENT NOT ACCESSED DURING SITE WALK)

NOTES

1. SITE PLAN ADAPTED FROM SURVEY PREPARED BY MONTROSE SURVEYING CO., LLP (SURVEY NO. 64991-1D)
2. WELLS THAT ARE IN THE LONG-TERM SITE MONITORING NETWORK ARE MW-1, MW-2, MW-3, MW-8 AND MW-9.
3. ON NOVEMBER 21, 2017, NYSDEC APPROVED THE REMOVAL OF MW-6S FROM THE LONG-TERM SITE MONITORING NETWORK.

DATA BOX KEY

SAMPLE LOCATION — SAMPLE DATE

MW-2	8/20/14	7/14/16	8/18/16
VOCs			
Acetone	ND	ND	**200**
Cis-1,2-Dichloroethylene	**190 JD**	ND	ND
Dichloroethylenes	**190 JD**	ND	ND
Tetrachloroethylene (PCE)	**7700 D**	**49**	NE
Trichloroethylene (TCE)	**110 D**	NE	ND

ANALYTE — CONCENTRATION

Parameter	NYSDEC AWQSGVs (µg/L)
VOCs	
Acetone	**50**
Chloroform	**7**
Cis-1,2-Dichloroethylene	**5**
Dichloroethylenes	**5**
Tetrachloroethylene (PCE)	**5**
Trichloroethylene (TCE)	**5**

µg/L – MICROGRAMS PER LITER
NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AWQSGVs – AMBIENT WATER-QUALITY STANDARDS AND GUIDANCE VALUES
D – DILUTION
J – ESTIMATED VALUE
DUP – DUPLICATE SAMPLE
VOCs – VOLATILE ORGANIC COMPOUNDS
ND – NO DETECTION
NE – NO EXCEEDANCES
NS – NOT SAMPLED

25' 0 25'

Title:

EXCEEDANCES OF AWQSGVs IN GROUNDWATER

MARCUS GARVEY APARTMENTS
650 ROCKAWAY AVE., BROOKLYN, NEW YORK

Prepared for:

C & C APARTMENT MANAGERS LLC

ROUX

Compiled by: L.C.	Date: 13JAN22	PLATE
Prepared by: B.H.C.	Scale: AS SHOWN	1
Project Mgr: L.C.	Project: 2158.0002Y004	
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