Periodic Review Report

Former Paragon Paint and Varnish Site
Long Island City, New York

July 12, 2024

Prepared for:

ZDJ Vernon LLC

Prepared by:

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Executive Summary

The following provides a brief summary of the controls implemented for the Site, as well as the inspections, monitoring, maintenance, and reporting activities required by this Site Management Plan amended per the NYSDEC's letter dated January 12, 2018 (Appendix F):

Site Identification: Site Identification No. C241108
Paragon Paint and Varnish Corp.
5-43 to 5-49 46th Avenue and 45-38 to 45-40 Vernon Boulevard,
Long Island City, Queens, New York

Institutional Controls:	1. The property may be used for restricted residential, commercial and/or industrial use only.
	2. Environmental Easement
	3. Performance of soil vapor intrusion evaluation in event of redevelopment.
	4. All ECs must be inspected at a frequency and in a manner defined in the SMP.
Engineering Controls:	1. Cover system
	2. Light Non-Aqueous Phase Liquid (LNAPL) Recovery System
	3. *In-situ* Chemical Oxidation (ISCO) Injections

Inspections:	**Frequency**
1. Cover inspection	Annually
2. LNAPL recovery system inspection	As Needed
Monitoring:	**Frequency**
1. Gauging of LNAPL recovery wells	Quarterly
2. Gauging of Monitoring wells – Groundwater	Quarterly
3. Sampling of Monitoring Wells – Groundwater	Annually
Maintenance:	**Frequency**
1. LNAPL pump maintenance	As Needed
2. LNAPL recovery drum change-out	As Needed
Reporting:	**Frequency**
1. Progress Report (Ongoing)	As Needed
2. Groundwater Monitoring Results	Annually
3. Periodic Review Report	Annually

1. Introduction

This Periodic Review Report (PRR) was prepared by Roux Environmental Engineering and Geology D.P.C. (Roux)[1] on behalf of ZDJ Vernon LLC (current Site Owner) and serves as a required element of the remedial program for the Former Paragon Paint and Varnish site located in Long Island City, New York (hereinafter referred to as the Site). A Site plan is provided in Figure 1. The Site was formerly in the New York State (NYS) Brownfield Cleanup Program (BCP), Site No. C241108, administered by the New York State Department of Environmental Conservation (NYSDEC). A Certificate of Completion (COC) was issued in December 2016. Key dates related to the BCP application are below:

- June 29, 2007: 549 46th Avenue LLC applied to the BCP as a Volunteer.
- September 4, 2008: The NYSDEC signed the Brownfield Cleanup Agreement (BCA) with 549-46th Avenue LLC as Volunteer.
- July 6, 2010: Anable Beach Inc. applied to amend the BCA to be added as a Volunteer.
- August 17, 2010: The NYSDEC executed the BCA Amendment #1.
- July 18, 2011: Vernon 4540 Realty LLC applied to amend the BCA a second time to be added as a third Volunteer (BCA Amendment #2).
- July 29, 2011: The NYSDEC executed BCA Amendment #2.
- December 15, 2016: The NYSDEC issued a COC for the Site to 549-46th Avenue LLC, Anable Beach Inc., and Vernon 4540 Realty LLC.
- April 24, 2019: The NYSDEC modified the COC to add CSC 4540 Property Co, LLC and remove Anable Beach, Inc. as a COC holder.
- December 20, 2023: 60-Day Advance Notification submitted for the transfer of ownership and COC from CSC 4540 Property Co, LLC to ZDJ Vernon LLC.

As part of being in the BCP, a Site investigation was performed that revealed high levels of Benzene, Ethylbenzene, Isopropylbenzene (Cumene), and Xylene contamination in soil and groundwater at the Site. In addition, Roux also confirmed that there were two distinct LNAPL plumes located at the Site—one plume in the center of the courtyard and the other at the southwestern edge of the Site located within the driveway. A Track 4 cleanup was proposed and implemented in accordance with the Remedial Action Work Plan submitted to the NYSDEC on October 7, 2015.

The Site Management Plan (SMP), dated August 2015, was approved by NYSDEC on December 7, 2016 (refer to Appendix E) with a subsequent modification being approved by the NYSDEC on January 12, 2018.

In response to a letter issued from the NYSDEC on January 19, 2021, the SMP was modified to include sampling of Tentatively Identified Compounds (TICs) via EPA Method 8260, 1,4-dioxane via EPA Method 8270 SIM, and per- and poly-fluoroalkyl substances (PFAS) via EPA Method 537. These modifications were put into effect for the annual groundwater sampling event during this reporting period. The results are provided in Appendix C. The revised SMP was approved by NYSDEC on August 31, 2023 (refer to Appendix E).

[1] Prior to March 1, 2018, Roux Environmental Engineering and Geology, D.P.C. performed work as Remedial Engineering P.C. and Roux Associates, Inc. Remedial Engineering P.C. is a New York State professional service corporation organized primarily for the purpose of providing engineering services for clients of Roux Associates, Inc.

The required Site-wide inspection and quarterly O&M inspections were completed during this SMP monitoring phase. The components, data, and rationale included in this PRR demonstrate that the engineering and institutional controls are performing as designed, are effective, and are compliant with specifications described in the SMP. With the transfer of ownership and commencement of Site redevelopment activities planned for the next reporting period, changes to the monitoring plan have been proposed in previous correspondence with NYSDEC and are summarized in Section 4 of this PRR.

Site Management activities, reporting, and Institutional Control (IC)/ Engineering Control (EC) certification are scheduled on a certification period basis. This certification is based on the submission of a PRR (included herein), submitted to the NYSDEC every year beginning fifteen months after the COC was issued. These PRRs will identify and assess 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 that discusses the overall performance and effectiveness of the previous remedy.

2. Site Overview

2.1 Site Description and History

The Site is located in Long Island City, Queens County, New York and is identified as Block 26 and Lot 4 on the Long Island City Tax Map. The Site is an approximately 0.76-acre area and is bounded by a one-story commercial property and Anable Basin to the north, 46th Avenue to the south, Vernon Boulevard and multi-story residential/commercial buildings to the east, and a two-story warehouse to the west. The owner of the Site during the reporting period is CSC 4540 Property Co, LLC.

The Site consists of a four-story former paint factory, a three-story former garage and office, a three-story former warehouse, a concrete access road off 46th Avenue and a concrete rear courtyard that fronts approximately 50 feet of the Anable Basin. The Site is zoned industrial and is currently vacant. The properties adjoining the Site and, in the neighborhood, surrounding the Site primarily include commercial and residential properties.

2.2 Summary of Remedial Action

Following the BCP Remedial Investigation Report, and the Department's approval of the Remedial Action Work Plan, Volunteers began remediation at the Site in 2015. Since then, Volunteers have fully implemented and completed the approved remedial program. All remedial work was done with oversight, understanding, and direction from the NYSDEC.

Based on the results of the Remedial Investigation Report, the Decision Document identified the following Remedial Action Objectives (RAOs) for this Site.

Remedial Action Objectives

Groundwater RAOs

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer, to the extent practicable, to pre-disposal/pre-release conditions.
- Prevent the discharge of contaminants to surface water.
- Remove the source of ground or surface water contamination.

Soil RAOs

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure to, contaminants volatilizing from soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

Soil Vapor RAOs

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the Site.

The cleanup consisted of the following:

- Excavation and off-Site disposal of grossly contaminated soil in the courtyard LNAPL source area, including:
  - Grossly contaminated soil as defined in 6NYCRR Part 375-1.2(u);
  - Soil containing LNAPL;
  - Soil containing total SVOCs exceeding 500 parts per million (ppm);
  - Soils which exceeded the PoGW SCOs as defined by 6 NYCRR Part 375-6.8 for those contaminants found in Site groundwater above standards; and
  - Soils that created a nuisance condition, as defined in NYSDEC Commissioner Policy CP-51 Section G.
- Closure of USTs by removal or, as a contingency, closure in place.
- Excavation and disposal of subsurface piping.
- Air monitoring of potential airborne VOCs and particulates during all ground intrusive and soil handling activities.
- Implementation of erosion and sediment controls.
- Installation of five autonomous LNAPL recovery pumps at property boundary areas where LNAPL plume extends off-Site.
- Installation of a Site cover system.
- *In situ* chemical oxidation (ISCO) injections for treatment of VOCs in soil and groundwater underneath the brick warehouse building on-Site.

2.3 Remaining Contamination

The Remedial Alternative (RA) was designed to reduce the concentration of Site contaminants in groundwater through excavation of grossly contaminated soil in the LNAPL source area within the courtyard followed by product recovery at the edges of the LNAPL plumes that extended off-site from the courtyard area and the driveway.

Due to limits of the Support of Excavation (SOE), structural engineering concerns associated with the onsite buildings and other Site constraints, all soil contamination was not removed as part of the performance of the remedial action. As a result, soil contamination remains at several locations across the Site that exceeds the NYSDEC PoG SCOs for one or more of the four VOCs of concern (benzene, ethylbenzene, isopropylbenzene, and total xylenes).

2.3.1 Soil

The RA addressed grossly contaminated soil in the LNAPL source areas within the courtyard and driveway through excavation, low-level VOCs underneath the Warehouse through ISCO, and limiting contact with potentially-contaminated soil by installing a composite cover over the rest of the Site. Though the grossly contaminated soil was removed from the LNAPL source areas in the courtyard and driveway, soil

contamination remains to the east of the excavation towards the four-story paint factory building and within the driveway excavation. This material, which potentially extends beneath Site buildings, could not be removed due to the SOE limitations.

The south extent of the excavation in the courtyard was extended to as near the warehouse and garage as a 1:1 slope would allow. Excavation and post-excavation sampling determined the presence of grossly contaminated material towards the three-story building and beneath the concrete slab where former 20,000 USTs had been staged on. The bottom sample collected from the middle of the driveway excavation at 17.5 ft showed evidence of gross contamination.

A total of 11 USTs was encountered during the RA, with five (5) in the southeast corner of the courtyard excavation and the remaining six (6) located inside the garage excavation footprint. All 11 tanks and their chambers encountered during the RA were emptied, cleaned and were either removed (the five (5) courtyard excavation USTs) or abandoned in place (the six (6) garage excavation USTs). Compliance UST samples were collected from the soil surrounding the courtyard and garage and the presence of residual contamination was present. This material could not be removed due to SOE limitations.

The residual soil contamination, as originally presented in the Final Engineering Report (FER) dated November 22, 2016, is also presented in this PRR as Figures 4 and 5. Further remedies to address this residual contamination will be evaluated in the Site redevelopment plan.

2.3.2 Groundwater

The RA addressed groundwater through removal and/or treatment of soil with VOCs above PoG SCOs. A component of the RAWP was an ISCO injection program to treat VOCs in groundwater and soil where excavation could not be completed during the RA, namely the soils under the basement of the Warehouse. As documented in the FER, the initial ISCO injection program marginally improved groundwater quality as all Site's contaminants of Concern (benzene, ethylbenzene, isopropylbenzene, m,p-xylene, and o-xylene) remain above their respective NYSDEC ambient water quality guidance and standard values (AWQSGV) at various monitoring well locations across the Site.

Based upon the continued presence of residual VOCs in groundwater following the initial injection treatment event in the warehouse area and residual VOCs in soil after excavation of impacted soil in the courtyard during the Remedial Action, additional ISCO treatment was performed in April 2017. It was later concluded that the ISCO treatment had reached its maximum level of effectiveness and the SMP was modified in accordance with the letter issued by NYSDEC on January 12, 2018 (Appendix F), to maintain quarterly groundwater monitoring and manual LNAPL recovery, as needed.

Groundwater analytical results collected during the reporting period are summarized in Appendix C. COC-specific data from the reporting period and previous reporting period are depicted on Figure 2.

2.3.3 Soil Vapor

The RA addressed soil vapor through removal and/or treatment of soil containing VOCs above the PoG SCOs. During redevelopment, the need for soil vapor mitigation in new structures will be evaluated. New buildings with occupancy and slab-on-grade design may require a vapor barrier and a sub-slab depressurization system.

2.4 Engineering and Institutional 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 and ensure protection of public health and the environment.

2.4.1 Engineering Controls

The Site has ECs consisting of:

- Site Cover System (refer to Figure 3);
- ISCO Injections; and
- LNAPL Recovery System.

The purpose of each EC is described below:

- The Site Cover System prevents exposure to remaining contamination in soil/ fill at the Site.
- The ISCO Injections, if effective, destroy the residual VOCs in groundwater and soil that were present after completion of the excavation remedy.
- The LNAPL Recovery System removes any residual LNAPL that may be present at the water table.

The LNAPL Recovery and Site Cover System Ecs are fully in place and effective at meeting their objectives.

2.4.2 Institutional Controls

A Site-specific Environmental Easement has been recorded with the Queens County Clerk that provides an enforceable means to manage the remaining contamination at the Site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. The ICs presented in the SMP consist of the following:

- The property may be used for: restricted residential, commercial, or industrial use.
- All ECs must be operated and maintained as specified in this 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 Health and Mental Hygiene to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department.
- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP.
- Data and information pertinent to Site management must be reported at the frequency and in a manner as defined in this SMP.
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP.
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP.
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this 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, and any potential impacts that are identified must be monitored or mitigated.
- Vegetable gardens and farming on the Site are prohibited.

3. SMP Requirements and Compliance Monitoring

Since remaining contaminated soil and groundwater exists beneath the Site, ICs and ECs are required to protect human health and the environment. This section details the elements 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. The various subsections below also include an evaluation of the remedy performance, effectiveness, and protectiveness.

3.1 IC/EC Plan Compliance Report

Since remaining contamination exists beneath the Site, ICs and ECs are required to protect human health and the environment and are described in detail in Section 2.4. On an annual basis, required certifications must be made for these Site-specific ICs and ECs to ensure that the required IC/ ECs are in place, are performing properly, and remain effective; and to confirm that they are continuing to be protective of human health and the environment. The respective IC/EC Certification Form for the controls that are currently in place for the Site is provided in Appendix A.

3.1.1 Notifications

Notifications will be submitted by the property owner to the NYSDEC, as needed, in accordance with NYSDEC's 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, 6NYCRR Part 375 and/or Environmental Conservation Law.
- 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 Excavation Work Plan.
- 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, along with written confirmation within 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 this 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 this 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 Inspections

All inspections were conducted at the frequency specified in the Executive Summary. Specific details of requirements and completed inspections are provided in the following sections. Inspections of remedial components are also conducted when a breakdown of any treatment system component has occurred or whenever a severe condition has taken place, such as power interruption or fire that may affect the ECs. The inspections will determine and document the following:

- IC/ECs are in place, are performing properly, and remain effective;
- 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;
- Sampling and analysis of appropriate media during monitoring events;
- If Site records are complete and up to date; and
- Changes, or needed changes, to the remedial or monitoring system.

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

3.3 Monitoring Plan Compliance Report

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, particularly ambient groundwater standards and Part 375 SCOs for soil.
- Assessing achievement of the remedial performance criteria.
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment.
- Preparing the necessary reports for the various monitoring activities.

Monitoring of the performance of the remedy and overall reduction in contamination onsite will be conducted for the periods specified for each matrix listed in table below. The frequency is subject to change in consultation with NYSDEC and based on reports submitted showing contaminant trends.

Monitoring Program	Frequency	Matrix	Analysis
Site Cover System and Site-Wide Inspection	Annually. First inspection no more than 15 months after issuance of the COC.	Soil	Visual inspection of all cover system components
Groundwater in Monitoring Wells	Quarterly gauging and annual sampling*	Groundwater	VOCs (USEPA Method 8260) for NYSDEC Target Compound List and Tentatively Identified compounds. Emerging Contaminants (USEPA Method 8270 SIM) for 1,4-dioxane and (USEPA Method 537) for PFAS
Free Product in Monitoring Wells	Quarterly gauging	LNAPL	Check for presence of LNAPL and confirm thickness, if applicable. Manual recovery of LNAPL where present and practical
LNAPL Recovery System Inspection	As Needed	LNAPL	Visual Inspection of all system components

A record of the findings of each monitoring/inspection event and maintenance activity performed as described above, where applicable, are documented on the Site Inspection Checklists and the LNAPL Recovery System Monitoring Logs provided in Appendices B and C, respectively, of the SMP. If at any time during the reporting period the Volunteers identify 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 IC/ECs.

There was a disturbance of the Site cover system during the reporting period, discussed further in Section 3.3.1. There were no other disturbances identified during the reporting period.

3.3.1 Site Cover System

Exposure to remaining contamination at the Site is prevented by a non-mechanical engineered Site composite cover system that consists of:

- Existing concrete building slabs for the Paint Factory, 1-Story Brick Building, and 3-Story Warehouse;
- Existing concrete pavement;
- Installed asphalt cap; or
- Installed minimum 2 feet of recycled concrete aggregate (RCA).

The location and details of the Site cover system are shown on Figure 3. Monitoring of the Site cover system will occur on an annual basis as long as the Environmental Easement is in effect to ensure the system's integrity. Monitoring consists of visual inspection, which evaluates the structural integrity of the slab, pavement, and asphalt, and exposure of the demarcation barrier and direction of drainage for the RCA cap.

Roux performed a Site cover system and Site-wide inspection on February 20, 2024. The completed Site Inspection Checklist is provided in Appendix B. The findings from that inspection are discussed and addressed below.

3.3.1.1 Site Cover System Disturbance

During the inspection, it was found that part of the cover system consisting of installed RCA was disturbed and the NYSDEC was promptly notified via email. It was determined that this disturbance was caused by a contractor who was trying to locate a utility pipe and was not communicated by the contractor to the owner or Roux beforehand. In response to the notification, NYSDEC requested that an investigation be performed to confirm the actual extents of the disturbance and collect soil samples of the displaced material to confirm if soils below the cover system were disturbed.

The laboratory analytical report from the soil sampling and photographs taken during the Site-wide inspection are also provided in Appendix B. The soil data is tabulated in Tables 1 through 6. The location of the disturbance is shown in Figure 5. Based on the measured depth of the excavation and analytical data, Roux confirmed that soils below the composite cover system were disturbed.

As a result, Roux prepared a restoration plan that required the backfilling of the disturbed area to grade with excavated material and restoring the required cover system above the entire footprint of the disturbed area. The restoration plan was submitted to the NYSDEC on March 8, 2024. The plan was approved by NYSDEC on March 13, 2024, and implemented on April 19, 2024. The email correspondence is included in Appendix I. Nine cubic yards of ¾" ASTM 57 stone were imported to the Site to use as backfill to restore the site cover system over the disturbed area. The material was sourced from Tilcon New York, Inc. (Tilcon) and was approved by NYSDEC via email on April 19, 2024. Documentation on the backfill including the Request to Import Form, Tilcon submittal, and Mining Permit are included in Appendix J.

As documented in the CAMP and daily progress reports (refer to Appendix K) for the cover system restoration, the restoration work was performed in strict accordance with the NYSDEC-approved plan.

3.3.2 Groundwater Monitoring and Sampling

Quarterly groundwater monitoring during the reporting period was performed on May 9, 2023; August 17, 2023; November 7, 2023; and February 16, 2024. Samples were collected annually from the monitoring wells within the SMP monitoring network for Target Compound List (TCL) of VOCS and Tentatively Identified Compounds (TICs) using United States Environmental Protections Agency (USEPA) SW846 Method 8260. Two samples were also collected annually from monitoring wells within the SMP monitoring network each representing a different location at the Site (Courtyard and Paint Factory) for 1,4-dioxane using USEPA Method 8270 SIM and PFAS using USEPA Method 537. Samples were not collected from the warehouse and the driveway during the reporting period because all accessible monitoring wells in each area were either dry or contained trace LNAPL. Purge water and decontamination wastewater generated during the groundwater sampling was containerized in a labeled 55-gallon drum stored onsite. Groundwater analysis results for the August 2023 sampling event are provided in Appendix C. All formal groundwater monitoring reports submitted to the NYSDEC during the reporting period are provided in Appendix G. The sampling, sample handling, decontamination, and field instrument calibration procedures were performed in accordance with procedures detailed in the Quality Assurance Project Plan, provided in Appendix H.

The most recent round of SMP groundwater monitoring indicated detections above NYSDEC AWQSGV for eight (8) compounds, excluding the acetone detections that were most likely caused by laboratory preservative methods:

- One detection of Benzene, 1.3 µg/L, detected at MW-3;

- Isopropylbenzene concentrations ranged from 7.1 µg/L to 23 µg/L with the highest concentration detected at MW-3;
- n-Propylbenzene concentrations ranged from 9.3 µg/L to 27 µg/L with the highest concentration detected in MW-3;
- One detection of sec-Butylbenzene, 8.5 µg/L, detected at MW-3; and
- One detection of tert-Butylbenzene, 8.7 µg/L, detected at MW-4.

VOC groundwater concentrations continue to be consistent with previous sampling events. Total TICs were reported for the first time at the Site during this period, and were observed between non-detect and 135 µg/L.

For the emerging contaminants analyzed during this period, there were detections above NYSDEC Drinking Water Maximum Contaminant Levels (MCLs) for the three compounds that apply to this standard:

- Perfluorooctanesulfonic acid (PFOS) concentrations ranged from 3.53 µg/L to 14.6 µg/L with the highest concentration detected at MW-46; and
- Perfluorooctanoic acid (PFOA) concentrations ranged from 7.11 µg/L to 12.7 µg/L with the highest concentration detected at MW-46.

Although the observed concentrations exceed drinking water standards, groundwater beneath the Site will continue to not be used for drinking or industrial purposes and will continue to be protected from direct exposure with the Site Cover system.

Roux does not believe ISCO or other applicable technologies, (i.e., bioventing, bioremediation, or air sparging) would effectively address groundwater and gross contamination in soil at the Site. As such, alternative treatment options (i.e., stabilization) would be further evaluated as Site redevelopment plans are finalized.

From April 19 to April 20, 2024, all monitoring wells and recovery wells located on-Site were abandoned via the grout in place method in anticipation of demolition activities. New wells will be proposed in representative areas of the Site at a later date to be coordinated with the Site redevelopment contractor. In the interim, groundwater monitoring will continue at the same frequency for the remaining wells located in the sidewalk surrounding the Site (MW-3, MW-5, MW-17, MW-18, MW-21, and MW-34).

3.3.3 Soil Vapor Intrusion Monitoring

New buildings with occupancy and slab-on-grade design may require a vapor barrier and sub-slab depressurization system. As part of the planned redevelopment, a sub-slab depressurization system (SSDS) will be installed beneath all occupied buildings. Design for the SSDS will be submitted to the NYSDEC for approval prior to its construction. The SMP will then be revised to include the SSDS as an EC.

3.4 Operation and Maintenance Plan Compliance Report

The O&M Plan provided in the SMP:

- Includes the procedures necessary to allow individuals unfamiliar with the Site to operate and maintain the LNAPL recovery system;
- Includes troubleshooting as referenced in the equipment manual(s); and
- Will be updated periodically to reflect changes in Site conditions or the manner in which the SSDS is operated and maintained.

The LNAPL recovery system consists of a Geotech AC Sipper connected to five recovery wells (RW-1 through RW-5). The system operates when product is present within the recovery well. To date, the Sipper has recovered approximately 3.3 gallons of LNAPL. Due to the lack of presence of detectable LNAPL, the recovery system has not been running since March 30, 2017. Complete details of the NYSDEC-approved LNAPL recovery system including as-built drawings and startup procedures are presented in the SMP.

3.4.1 LNAPL Recovery System Operation Monitoring

All mechanical aspects of the product recovery system are visibly inspected to ensure proper function. Inspection activities include making sure that power supply is functioning, verifying no leaks are present in any of the recovery tubing, hoses, or connections. The 55-gallon product storage drum was also checked during each visit to determine if disposal arrangements needed to be made. The system currently remains in place.

Free product levels within the wells located in the area were monitored and recorded to determine if the system needed to be restarted. Wells were gauged quarterly in accordance with the Site's IC/EC requirements.

As part of the planned Site redevelopment, the building housing the Geotech AC Sipper control panel will be demolished during the next reporting period. All recovery wells were abandoned between April 19 and April 20, 2024, in anticipation of the demolition activities. The LNAPL Recovery System is effectively decommissioned, however if recoverable quantities of LNAPL are observed in monitoring wells in the future, the need for a system will be re-evaluated.

Moving forward, any LNAPL that is observed in monitoring wells at the Site during routine gauging events will continue to be manually recovered, to the extent practical, on a quarterly basis. During the reporting period, approximately 3 total gallons of LNAPL were recovered from MW-2R, MW-3, MW-33, and MW-34.

Well ID	LNAPL Recovered (gallons)
MW-2R	1.2
MW-3	0.4
MW-33	1.1
MW-34	0.7

The required LNAPL Recovery System Monitoring Logs that were completed during the reporting period are provided in chronological order in Appendix D. 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.

4. Overall Conclusions and Recommendations

The following section presents conclusions from inspections and monitoring activities and recommendations.

- The ICs and ECs are performing as designed, are effective, and are compliant with specifications described in the SMP.
- With Site redevelopment activities planned for the next reporting period, the following changes to the monitoring plan are proposed:
    - Temporary reduction in the groundwater monitoring program during Site redevelopment activities. Due to the abandonment of all on-Site monitoring wells, the program will continue with the remaining monitoring wells located on the sidewalk only until redevelopment plans are finalized and new monitoring well locations are proposed.
    - Decommission of the LNAPL Recovery System, which has not operated since 2017, due to the abandonment of recovery wells RW-1 through RW-5 and planned Site demolition. If not reinstalled, the SMP will be updated to remove the LNAPL Recovery System EC once building construction is complete.
    - Establishment of operation and maintenance procedures upon installation of an SSDS beneath all occupied buildings, which will serve as an EC to mitigate exposure to building occupants from intrusion of potentially impacted soil vapor.

TABLES

1. Summary of Volatile Organic Compounds in Soil Samples
2. Summary of Semivolatile Organic Compounds in Soil Samples
3. Summary of Metals in Soil Samples
4. Summary of Polychlorinated Biphenyls in Soil Samples
5. Summary of Pesticides in Soil Samples
6. Summary of General Chemistry in Soil Samples

Notes Utilized Throughout Tables	
Soil Tables	
J -	Estimated value
U -	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit
P -	The RPD between the results for the two columns exceeds the method-specified criteria
I -	The lower value for the two columns has been reported due to obvious interference
RPD -	Relative Percent Difference
ft bls -	Feet below land surface
FD -	Duplicate sample
NA -	Compound was not analyzed for by laboratory
mg/kg -	Milligrams per kilogram
NYSDEC -	New York State Department of Environmental Conservation
SCO -	Soil Cleanup Objectives
--	No SCO available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential SCO	

Table 1. Summary of Volatile Organic Compounds in Soil Samples, 5-49 46th Avenue, Long Island City, New York

	Sample Designation:		BDS-1	BDS-1
	Sample Date:		02/27/2024	02/27/2024
	Sample Depth (ft bls):		0 - 2.5	0 - 2.5
	Normal or Field Duplicate:		N	FD
Parameter	NYSDEC Part 375 Restricted Residential SCO	Units		
1,1,1-Trichloroethane (TCA)	100	MG/KG	0.00052 U	0.00048 U
1,1,2,2-Tetrachloroethane	--	MG/KG	0.00052 U	0.00048 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	MG/KG	0.0041 U	0.0038 U
1,1,2-Trichloroethane	--	MG/KG	0.001 U	0.00096 U
1,1-Dichloroethane	26	MG/KG	0.001 U	0.00096 U
1,1-Dichloroethene	100	MG/KG	0.001 U	0.00096 U
1,2,3-Trichlorobenzene	--	MG/KG	0.0021 U	0.0019 U
1,2,4-Trichlorobenzene	--	MG/KG	0.0021 U	0.0019 U
1,2-Dibromo-3-Chloropropane	--	MG/KG	0.0031 U	0.0029 U
1,2-Dibromoethane (Ethylene Dibromide)	--	MG/KG	0.001 U	0.00096 U
1,2-Dichlorobenzene	100	MG/KG	0.0021 U	0.0019 U
1,2-Dichloroethane	3.1	MG/KG	0.001 U	0.00096 U
1,2-Dichloropropane	--	MG/KG	0.001 U	0.00096 U
1,3,5-Trimethylbenzene (Mesitylene)	52	MG/KG	0.0021 U	0.0019 U
1,3-Dichlorobenzene	49	MG/KG	0.0021 U	0.0019 U
1,4-Dichlorobenzene	13	MG/KG	0.0021 U	0.0019 U
1,4-Dioxane (P-Dioxane)	13	MG/KG	0.082 U	0.076 U
2-Hexanone	--	MG/KG	0.01 U	0.0096 U
Acetone	100	MG/KG	0.011	0.0096 U
Benzene	4.8	MG/KG	0.00052 U	0.00048 U
Bromochloromethane	--	MG/KG	0.0021 U	0.0019 U
Bromodichloromethane	--	MG/KG	0.00052 U	0.00048 U
Bromoform	--	MG/KG	0.0041 U	0.0038 U
Bromomethane	--	MG/KG	0.0021 U	0.0019 U
Carbon Disulfide	--	MG/KG	0.01 U	0.0096 U
Carbon Tetrachloride	2.4	MG/KG	0.001 U	0.00096 U
Chlorobenzene	100	MG/KG	0.00052 U	0.00048 U
Chloroethane	--	MG/KG	0.0021 U	0.0019 U
Chloroform	49	MG/KG	0.0015 U	0.0014 U
Chloromethane	--	MG/KG	0.0041 U	0.0038 U
Cis-1,2-Dichloroethylene	100	MG/KG	0.001 U	0.00096 U
Cis-1,3-Dichloropropene	--	MG/KG	0.00052 U	0.00048 U
Dibromochloromethane	--	MG/KG	0.001 U	0.00096 U
Dichlorodifluoromethane	--	MG/KG	0.01 U	0.0096 U

Table 1. Summary of Volatile Organic Compounds in Soil Samples, 5-49 46th Avenue, Long Island City, New York

	Sample Designation:		BDS-1	BDS-1
	Sample Date:		02/27/2024	02/27/2024
	Sample Depth (ft bls):		0 - 2.5	0 - 2.5
	Normal or Field Duplicate:		N	FD
Parameter	NYSDEC Part 375 Restricted Residential SCO	Units		
Dichloroethylenes	--	MG/KG	0.001 U	0.00096 U
Ethylbenzene	41	MG/KG	0.001 U	0.00096 U
Isopropylbenzene (Cumene)	--	MG/KG	0.001 U	0.00096 U
m,p-Xylene	--	MG/KG	0.00068 J	0.00059 J
Methyl Ethyl Ketone (2-Butanone)	100	MG/KG	0.0042 J	0.0096 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	MG/KG	0.01 U	0.0096 U
Methylene Chloride	100	MG/KG	0.0052 U	0.0048 U
N-Propylbenzene	100	MG/KG	0.001 U	0.00096 U
O-Xylene (1,2-Dimethylbenzene)	--	MG/KG	0.001 U	0.00096 U
Sec-Butylbenzene	100	MG/KG	0.001 U	0.00096 U
Styrene	--	MG/KG	0.001 U	0.00096 U
T-Butylbenzene	100	MG/KG	0.0021 U	0.0019 U
Tert-Butyl Methyl Ether	100	MG/KG	0.0021 U	0.0019 U
Tetrachloroethylene (PCE)	19	MG/KG	0.00052 U	0.00048 U
Toluene	100	MG/KG	0.001 U	0.00096 U
Total, 1,3-Dichloropropene (Cis And Trans)	--	MG/KG	0.00052 U	0.00048 U
Trans-1,2-Dichloroethene	100	MG/KG	0.0015 U	0.0014 U
Trans-1,3-Dichloropropene	--	MG/KG	0.001 U	0.00096 U
Trichloroethylene (TCE)	21	MG/KG	0.00052 U	0.00048 U
Trichlorofluoromethane	--	MG/KG	0.0041 U	0.0038 U
Vinyl Chloride	0.9	MG/KG	0.001 U	0.00096 U
Xylenes	100	MG/KG	0.00068 J	0.00059 J

Table 2. Summary of Semivolatile Organic Compounds in Soil Samples, 5-49 46th Avenue, Long Island City, New York

	Sample Designation:		BDS-1	BDS-1
	Sample Date:		02/27/2024	02/27/2024
	Sample Depth (ft bls):		0 - 2.5	0 - 2.5
	Normal or Field Duplicate:		N	FD
Parameter	NYSDEC Part 375 Restricted Residential SCO	Units		
1,2,4,5-Tetrachlorobenzene	--	MG/KG	0.18 U	0.18 U
1,2,4-Trichlorobenzene	--	MG/KG	0.18 U	0.18 U
1,2-Dichlorobenzene	100	MG/KG	0.18 U	0.18 U
1,3-Dichlorobenzene	49	MG/KG	0.18 U	0.18 U
1,4-Dichlorobenzene	13	MG/KG	0.18 U	0.18 U
1,4-Dioxane (P-Dioxane)	13	MG/KG	0.028 U	NA
2,4,5-Trichlorophenol	--	MG/KG	0.18 U	0.18 U
2,4,6-Trichlorophenol	--	MG/KG	0.11 U	0.11 U
2,4-Dichlorophenol	--	MG/KG	0.17 U	0.17 U
2,4-Dimethylphenol	--	MG/KG	0.18 U	0.18 U
2,4-Dinitrophenol	--	MG/KG	0.89 U	0.89 U
2,4-Dinitrotoluene	--	MG/KG	0.18 U	0.18 U
2,6-Dinitrotoluene	--	MG/KG	0.18 U	0.18 U
2-Chloronaphthalene	--	MG/KG	0.18 U	NA
2-Chlorophenol	--	MG/KG	0.18 U	0.18 U
2-Methylnaphthalene	--	MG/KG	0.049 J	NA
2-Methylphenol (O-Cresol)	100	MG/KG	0.18 U	0.18 U
2-Nitroaniline	--	MG/KG	0.18 U	0.18 U
2-Nitrophenol	--	MG/KG	0.4 U	0.4 U
3,3'-Dichlorobenzidine	--	MG/KG	0.18 U	0.18 U
3-Nitroaniline	--	MG/KG	0.18 U	0.18 U
4,6-Dinitro-2-Methylphenol	--	MG/KG	0.48 U	0.48 U
4-Bromophenyl Phenyl Ether	--	MG/KG	0.18 U	0.18 U
4-Chloro-3-Methylphenol	--	MG/KG	0.18 U	0.18 U
4-Chloroaniline	--	MG/KG	0.18 U	0.18 U
4-Chlorophenyl Phenyl Ether	--	MG/KG	0.18 U	0.18 U
4-Nitroaniline	--	MG/KG	0.18 U	0.18 U
4-Nitrophenol	--	MG/KG	0.26 U	0.26 U
Acenaphthene	100	MG/KG	0.064 J	NA
Acenaphthylene	100	MG/KG	0.04 J	NA
Acetophenone	--	MG/KG	0.18 U	0.18 U
Anthracene	100	MG/KG	0.2	NA
Benzo(A)Anthracene	1	MG/KG	0.52	NA
Benzo(A)Pyrene	1	MG/KG	0.59	NA

Table 2. Summary of Semivolatile Organic Compounds in Soil Samples, 5-49 46th Avenue, Long Island City, New York

	Sample Designation:		BDS-1	BDS-1
	Sample Date:		02/27/2024	02/27/2024
	Sample Depth (ft bls):		0 - 2.5	0 - 2.5
	Normal or Field Duplicate:		N	FD
Parameter	NYSDEC Part 375 Restricted Residential SCO	Units		
Benzo(B)Fluoranthene	1	MG/KG	0.88	NA
Benzo(G,H,I)Perylene	100	MG/KG	0.34	NA
Benzo(K)Fluoranthene	3.9	MG/KG	0.22	NA
Benzoic Acid	--	MG/KG	0.6 U	0.6 U
Benzyl Alcohol	--	MG/KG	0.18 U	0.29
Benzyl Butyl Phthalate	--	MG/KG	0.093 J	0.18 U
Biphenyl (Diphenyl)	--	MG/KG	0.42 U	0.075 J
Bis(2-Chloroethoxy) Methane	--	MG/KG	0.2 U	0.2 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	--	MG/KG	0.17 U	0.17 U
Bis(2-Chloroisopropyl) Ether	--	MG/KG	0.22 U	0.22 U
Bis(2-Ethylhexyl) Phthalate	--	MG/KG	0.13 J	0.11 J
Carbazole	--	MG/KG	0.098 J	0.45
Chrysene	3.9	MG/KG	0.6	NA
Dibenz(A,H)Anthracene	0.33	MG/KG	0.09 J	NA
Dibenzofuran	59	MG/KG	0.042 J	0.55
Diethyl Phthalate	--	MG/KG	0.18 U	0.18 U
Dimethyl Phthalate	--	MG/KG	0.18 U	0.18 U
Di-N-Butyl Phthalate	--	MG/KG	0.27	0.18 U
Di-N-Octylphthalate	--	MG/KG	0.18 U	0.18 U
Fluoranthene	100	MG/KG	1.1	NA
Fluorene	100	MG/KG	0.067 J	NA
Hexachlorobenzene	1.2	MG/KG	0.11 U	NA
Hexachlorobutadiene	--	MG/KG	0.18 U	NA
Hexachlorocyclopentadiene	--	MG/KG	0.53 U	0.53 U
Hexachloroethane	--	MG/KG	0.15 U	NA
Indeno(1,2,3-C,D)Pyrene	0.5	MG/KG	0.32	NA
Isophorone	--	MG/KG	0.17 U	0.17 U
M+P MethylPhenol	100	MG/KG	0.27 U	0.27 U
Naphthalene	100	MG/KG	0.077 J	NA
Nitrobenzene	--	MG/KG	0.17 U	0.17 U
N-Nitrosodi-N-Propylamine	--	MG/KG	0.18 U	0.18 U
N-Nitrosodiphenylamine	--	MG/KG	0.15 U	0.15 U
Pentachlorophenol	6.7	MG/KG	0.15 U	NA
Phenanthrene	100	MG/KG	0.72	NA

Table 2. Summary of Semivolatile Organic Compounds in Soil Samples, 5-49 46th Avenue, Long Island City, New York

	Sample Designation:		BDS-1	BDS-1
	Sample Date:		02/27/2024	02/27/2024
	Sample Depth (ft bls):		0 - 2.5	0 - 2.5
	Normal or Field Duplicate:		N	FD
Parameter	NYSDEC Part 375 Restricted Residential SCO	Units		
Phenol	100	MG/KG	0.18 U	0.18 U
Pyrene	100	MG/KG	0.95	NA

Table 3. Summary of Metals in Soil Samples, 5-49 46th Avenue, Long Island City, New York

	Sample Designation:		BDS-1	BDS-1
	Sample Date:		02/27/2024	02/27/2024
	Sample Depth (ft bls):		0 - 2.5	0 - 2.5
	Normal or Field Duplicate:		N	FD
Parameter	NYSDEC Part 375 Restricted Residential SCO	Units		
Aluminum	--	MG/KG	5700	6400
Antimony	--	MG/KG	5.3	1.8
Arsenic	16	MG/KG	4.6	6.8
Barium	400	MG/KG	140	160
Beryllium	72	MG/KG	0.27 J	0.36
Cadmium	4.3	MG/KG	1.7	2.8
Calcium	--	MG/KG	27000	23000
Chromium III	180	MG/KG	22	33
Chromium, Hexavalent	110	MG/KG	0.905 U	0.9 U
Chromium, Total	180	MG/KG	22	33
Cobalt	--	MG/KG	4.8	7.6
Copper	**270**	MG/KG	**3600**	**2800**
Cyanide	27	MG/KG	1 U	1.1 U
Iron	--	MG/KG	15000	39000
Lead	**400**	MG/KG	**1100**	**520**
Magnesium	--	MG/KG	4400	4400
Manganese	2000	MG/KG	220	340
Mercury	0.81	MG/KG	0.548	0.473
Nickel	310	MG/KG	35	34
Potassium	--	MG/KG	980	1100
Selenium	180	MG/KG	1.3 J	1.4 J
Silver	180	MG/KG	1.2	0.52 J
Sodium	--	MG/KG	280	370
Thallium	--	MG/KG	0.13 J	0.1 J
Vanadium	--	MG/KG	18	26
Zinc	10000	MG/KG	1300	2200

Table 4. Summary of Polychlorinated Biphenyls in Soil Samples, 5-49 46th Avenue, Long Island City, New York

	Sample Designation:		BDS-1	BDS-1
	Sample Date:		02/27/2024	02/27/2024
	Sample Depth (ft bls):		0 - 2.5	0 - 2.5
	Normal or Field Duplicate:		N	FD
Parameter	NYSDEC Part 375 Restricted Residential SCO	Units		
PCB-1016 (Aroclor 1016)	--	MG/KG	0.0546 U	0.0546 U
PCB-1221 (Aroclor 1221)	--	MG/KG	0.0546 U	0.0546 U
PCB-1232 (Aroclor 1232)	--	MG/KG	0.0546 U	0.0546 U
PCB-1242 (Aroclor 1242)	--	MG/KG	0.0546 U	0.0546 U
PCB-1248 (Aroclor 1248)	--	MG/KG	0.0546 U	0.0546 U
PCB-1254 (Aroclor 1254)	--	MG/KG	0.0684	0.039 J
PCB-1260 (Aroclor 1260)	--	MG/KG	0.0226 J	0.0114 J
PCB-1262 (Aroclor 1262)	--	MG/KG	0.0546 U	0.0546 U
PCB-1268 (Aroclor 1268)	--	MG/KG	0.00697 J	0.0546 U
Polychlorinated Biphenyl (PCBs)	1	MG/KG	0.098 J	0.0504 J

Table 5. Summary of Pesticides in Soil Samples, 5-49 46th Avenue, Long Island City, New York

	Sample Designation:		BDS-1	BDS-1
	Sample Date:		02/27/2024	02/27/2024
	Sample Depth (ft bls):		0 - 2.5	0 - 2.5
	Normal or Field Duplicate:		N	FD
Parameter	NYSDEC Part 375 Restricted Residential SCO	Units		
Aldrin	0.097	MG/KG	0.00172 U	0.0018 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.48	MG/KG	0.000718 U	0.000748 U
Alpha Endosulfan	24	MG/KG	0.00172 U	0.0018 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.36	MG/KG	0.00172 U	0.0018 U
Beta Endosulfan	24	MG/KG	0.00172 U	0.0018 U
Chlordane	--	MG/KG	0.0406	0.0352
cis-Chlordane	4.2	MG/KG	0.00385	0.00253
Delta BHC (Delta Hexachlorocyclohexane)	100	MG/KG	0.00172 U	0.0018 U
Dieldrin	0.2	MG/KG	0.00108 U	0.00112 U
Endosulfan Sulfate	24	MG/KG	0.000718 U	0.000748 U
Endrin	11	MG/KG	0.000718 U	0.000748 U
Endrin Aldehyde	--	MG/KG	0.00215 U	0.00224 U
Endrin Ketone	--	MG/KG	0.00172 U	0.0018 U
Gamma Bhc (Lindane)	1.3	MG/KG	0.000718 U	0.000748 U
Heptachlor	2.1	MG/KG	0.000862 U	0.000898 U
Heptachlor Epoxide	--	MG/KG	0.00323 U	0.00337 U
Methoxychlor	--	MG/KG	0.00323 U	0.00337 U
P,P'-DDD	13	MG/KG	0.00811	0.00332
P,P'-DDE	8.9	MG/KG	0.00778	0.00365
P,P'-DDT	7.9	MG/KG	0.0103 IP	0.00555 IP
Toxaphene	--	MG/KG	0.0323 U	0.0337 U
trans-Chlordane	--	MG/KG	0.00426 IP	0.00224 U

Table 6. Summary of General Chemistry in Soil Samples, 5-49 46th Avenue, Long Island City, New York

		Sample Designation:	BDS-1	BDS-1
		Sample Date:	02/27/2024	02/27/2024
		Sample Depth (ft bls):	0 - 2.5	0 - 2.5
		Normal or Field Duplicate:	N	FD
Parameter	NYSDEC Part 375 Restricted Residential SCO	Units		
Total Solids	--	PERCENT	88.4	88.9

FIGURES

1. Site Plan
2. VOCs and LNAPL Detected in Groundwater August 2022 to August 2023
3. Engineering Control Location – Composite Cover System
4. Contamination Remaining in Soil After Remedial Action Within Courtyard
5. Contamination Remaining in Soil After Remedial Action Within Garage

ANABLE BASIN

45TH ROAD

VERNON BOULEVARD

46TH AVENUE

1 STORY MASONRY BUILDING

COURTYARD

WOODEN TRACK

SUBGRADE CONCRETE WALL

1 STORY BRICK BUILDING 45-28 OFFSITE PROPERTY C

4 STORY PAINT FACTORY "45-40 VERNON BOULEVARD"

3 STORY BRICK GARAGE

OVERHANG

3 BAYS

TALL 1 STORY MASONRY BUILDING

CONCRETE DRIVE

3 STORY BRICK WAREHOUSE

3 STORY FRAME RESIDENTIAL

TALL 1 STORY BRICK OFFSITE PROPERTY D

3 STORY MASONRY BUILDING

2 STORY BRICK BUILDING OFFSITE PROPERTY E

BAY

STEPS

CONC. MAT

RAISED CONC. PAD

BRICK

CONC. CURB

CONC. WALK

BOLLARD

TWO-WAY TRAFFIC

ONE-WAY TRAFFIC

ASPHALT SCAR

STEEL FACE CONC. CURB

8' HIGH CHAIN LINK GATE W/ RAZOR WIRE

BUILDING ONLINE CONC. WALK (FAIR CONDITION)

LIGHT FIXTURES

EDGE OF CONC.

BRICK

SOLID WHITE LINE

CROSSS WALK

APPROXIMATE 10' WIDE PERMANENT EASEMENT FOR SUBTERRANEAN TRANSMISSION LINES

54" INTERCEPTOR PER REF. #14 (SEE NOTE # 3 & #11)

INTERCEPTOR

WHITE LINE

MH WATER

MH SEWER

MH ELEC.

MH CON ED

INLET

BILCO DOOR

DOUBLE YELLOW LINE

FENCE

CONC DOCK

BRICK

OH

D.C.

P.M.

M.C.

MW-10
MW-11
MW-46
MW-5
MW-43
MW-45
MW-4
MW-47
MW-44
MW-14
MW-15
MW-48
MW-22
MW-4
MW-20
MW-36/B-15
RW-3
MW-42
GT-1
MW-2/2R
MW-7
MW-7R
MW-19
MW-33/B-10
RW-2
MW-37/B-25
MW-41
MW-40
MW-38/B-27
RW-1
MW-34
MW-3
MW-17
MW-18
MW-21
MW-5
RW-5
RW-4
GT-6
GT-2
GT-3A
GT-3B
GT-4A
GT-4B
GT-5A
GT-5B
GT-5C
IP-2
IP-3
IP-4
IP-5
IP-7
IP-8
IP-9
IP-10
IP-12
IP-13
IP-14
IP-15

LEGEND

MW-5	LOCATION AND DESIGNATION OF MONITORING WELL
RW-1	LOCATION AND DESIGNATION OF LNAPL RECOVERY WELL
IP-2	LOCATION AND DESIGNATION OF PERMANENT ISCO INJECTION POINT
	LOCATION OF FIRST ROUND ISCO INJECTION POINT
ft	FEET
ISCO	IN-SITU CHEMICAL OXIDATION
	CONCRETE VAULT
	PROPERTY BOUNDARY
GT-6	APPROXIMATE LOCATION AND DESIGNATION OF UNDERGROUND STORAGE TANK (ABANDONED IN PLACE)
	CONCRETE SLAB

N

30' 0 30'

Title:

SITE PLAN

SITE MANAGEMENT PERIODIC REVIEW REPORT
PARAGON PAINT AND VARNISH CORPORATION

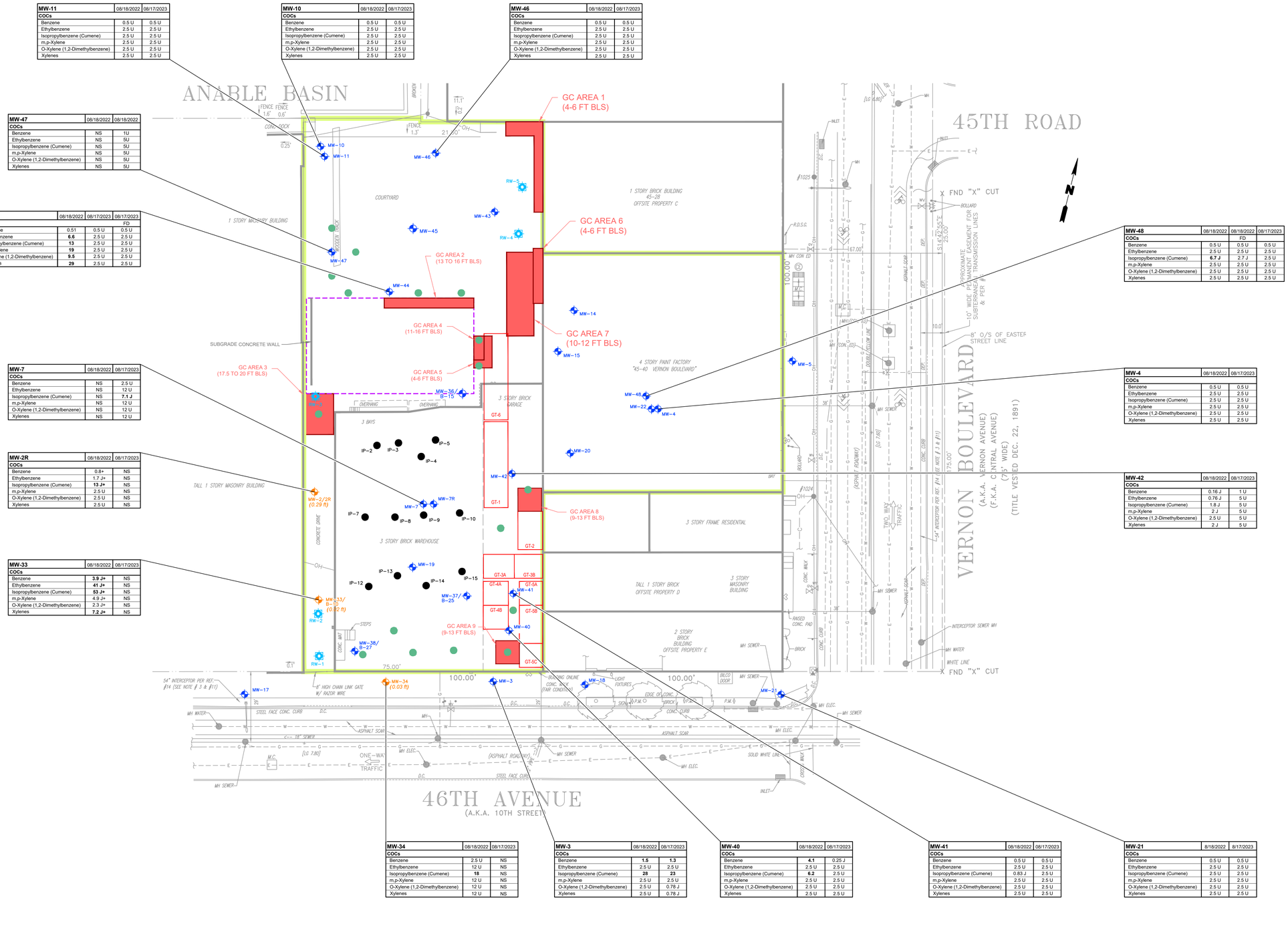
Prepared for:

CSC 4540 PROPERTY CO. LLC

ROUX

Compiled by: C.H.	Date: 05MAR24	FIGURE
Prepared by: G.M.	Scale: AS SHOWN	1
Project Mgr: C.H.	Project: 2051.0001Y002	
File: 2051.0001Y278.01.DWG		

V:\CAD\PROJECTS\2051Y0001Y\278\2051.0001Y278.01.DWG



MW-11	08/18/2022	08/17/2023
COCs		
Benzene	0.5 U	0.5 U
Ethylbenzene	2.5 U	2.5 U
Isopropylbenzene (Cumene)	2.5 U	2.5 U
m,p-Xylene	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	2.5 U	2.5 U
Xylenes	2.5 U	2.5 U

MW-10	08/18/2022	08/17/2023
COCs		
Benzene	0.5 U	0.5 U
Ethylbenzene	2.5 U	2.5 U
Isopropylbenzene (Cumene)	2.5 U	2.5 U
m,p-Xylene	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	2.5 U	2.5 U
Xylenes	2.5 U	2.5 U

MW-46	08/18/2022	08/17/2023
COCs		
Benzene	0.5 U	0.5 U
Ethylbenzene	2.5 U	2.5 U
Isopropylbenzene (Cumene)	2.5 U	2.5 U
m,p-Xylene	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	2.5 U	2.5 U
Xylenes	2.5 U	2.5 U

MW-47	08/18/2022	08/18/2022
COCs		
Benzene	NS	1U
Ethylbenzene	NS	5U
Isopropylbenzene (Cumene)	NS	5U
m,p-Xylene	NS	5U
O-Xylene (1,2-Dimethylbenzene)	NS	5U
Xylenes	NS	5U

MW-44	08/18/2022	08/17/2023	08/17/2023
COCs			FD
Benzene	0.51	0.5 U	0.5 U
Ethylbenzene	**6.6**	2.5 U	2.5 U
Isopropylbenzene (Cumene)	**13**	2.5 U	2.5 U
m,p-Xylene	**19**	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	**9.5**	2.5 U	2.5 U
Xylenes	**29**	2.5 U	2.5 U

MW-7	08/18/2022	08/17/2023
COCs		
Benzene	NS	2.5 U
Ethylbenzene	NS	12 U
Isopropylbenzene (Cumene)	NS	**7.1 J**
m,p-Xylene	NS	12 U
O-Xylene (1,2-Dimethylbenzene)	NS	12 U
Xylenes	NS	12 U

MW-2R	08/18/2022	08/17/2023
COCs		
Benzene	0.8+	NS
Ethylbenzene	1.7 J+	NS
Isopropylbenzene (Cumene)	**13 J+**	NS
m,p-Xylene	2.5 U	NS
O-Xylene (1,2-Dimethylbenzene)	2.5 U	NS
Xylenes	2.5 U	NS

MW-33	08/18/2022	08/17/2023
COCs		
Benzene	**3.9 J+**	NS
Ethylbenzene	**41 J+**	NS
Isopropylbenzene (Cumene)	**53 J+**	NS
m,p-Xylene	4.9 J+	NS
O-Xylene (1,2-Dimethylbenzene)	2.3 J+	NS
Xylenes	**7.2 J+**	NS

MW-48	08/18/2022	08/18/2022	08/17/2023
COCs		FD	
Benzene	0.5 U	0.5 U	0.5 U
Ethylbenzene	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	**6.7 J**	2.7 J	2.5 U
m,p-Xylene	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	2.5 U	2.5 U	2.5 U
Xylenes	2.5 U	2.5 U	2.5 U

MW-4	08/18/2022	08/17/2023
COCs		
Benzene	0.5 U	0.5 U
Ethylbenzene	2.5 U	2.5 U
Isopropylbenzene (Cumene)	2.5 U	2.5 U
m,p-Xylene	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	2.5 U	2.5 U
Xylenes	2.5 U	2.5 U

MW-42	08/18/2022	08/17/2023
COCs		
Benzene	0.16 J	1 U
Ethylbenzene	0.76 J	5 U
Isopropylbenzene (Cumene)	1.8 J	5 U
m,p-Xylene	2 J	5 U
O-Xylene (1,2-Dimethylbenzene)	2.5 U	5 U
Xylenes	2 J	5 U

MW-34	08/18/2022	08/17/2023
COCs		
Benzene	2.5 U	NS
Ethylbenzene	12 U	NS
Isopropylbenzene (Cumene)	**18**	NS
m,p-Xylene	12 U	NS
O-Xylene (1,2-Dimethylbenzene)	12 U	NS
Xylenes	12 U	NS

MW-3	08/18/2022	08/17/2023
COCs		
Benzene	**1.5**	**1.3**
Ethylbenzene	2.5 U	2.5 U
Isopropylbenzene (Cumene)	**28**	**23**
m,p-Xylene	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	2.5 U	0.78 J
Xylenes	2.5 U	0.78 J

MW-40	08/18/2022	08/17/2023
COCs		
Benzene	**4.1**	0.25 J
Ethylbenzene	2.5 U	2.5 U
Isopropylbenzene (Cumene)	**6.2**	2.5 U
m,p-Xylene	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	2.5 U	2.5 U
Xylenes	2.5 U	2.5 U

MW-41	08/18/2022	08/17/2023
COCs		
Benzene	0.5 U	0.5 U
Ethylbenzene	2.5 U	2.5 U
Isopropylbenzene (Cumene)	0.83 J	2.5 U
m,p-Xylene	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	2.5 U	2.5 U
Xylenes	2.5 U	2.5 U

MW-21	8/18/2022	8/17/2023
COCs		
Benzene	0.5 U	0.5 U
Ethylbenzene	2.5 U	2.5 U
Isopropylbenzene (Cumene)	2.5 U	2.5 U
m,p-Xylene	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	2.5 U	2.5 U
Xylenes	2.5 U	2.5 U

LEGEND

- MW-5 — LOCATION AND DESIGNATION OF MONITORING WELL (NO LNAPL PRESENT)
- MW-3 — LOCATION AND DESIGNATION OF MONITORING WELL (LNAPL PRESENT)
- RW-1 — LOCATION AND DESIGNATION OF LNAPL RECOVERY WELL (LNAPL THICKNESS SHOWN IF PRESENT)
- IP-2 — LOCATION AND DESIGNATION OF PERMANENT ISCO INJECTION POINT
- LOCATION OF FIRST ROUND ISCO INJECTION POINT
- (0.53 ft) — LNAPL THICKNESS
- GC AREA 1 (4-6 FT BLS) — DESIGNATION AND INFERRED HORIZONTAL AND VERTICAL LIMITS OF REMAINING GROSSLY CONTAMINATED MATERIAL BASED ON FIELD OBSERVATION AND RESULTS OF POST-EXCAVATION SAMPLING AND FIELD SCREENING
- ft — FEET
- LNAPL — LIGHT NON-AQUEOUS PHASE LIQUID
- ISCO — IN-SITU CHEMICAL OXIDATION
- CONCRETE VAULT
- PROPERTY BOUNDARY
- 1 — APPROXIMATE LOCATION AND DESIGNATION OF UNDERGROUND STORAGE TANK (ABANDONED IN PLACE)
- CONCRETE SLAB

TYPICAL DATA BOX INFORMATION

SAMPLE ID. — SAMPLE DATE

MW-41	08/18/2022	08/17/2023
COCs		
Benzene	0.5 U	0.5 U
Ethylbenzene	2.5 U	2.5 U
Isopropylbenzene (Cumene)	0.83 J	2.5 U
m,p-Xylene	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	2.5 U	2.5 U
Xylenes	2.5 U	2.5 U

ANALYTES — CONCENTRATIONS (IN µg/L)

PARAMETER	STANDARDS*
Benzene	1
Ethylbenzene	5
Isopropylbenzene (Cumene)	5
m,p-Xylene	5
O-Xylene (1,2-Dimethylbenzene)	5
Xylenes	5

CONCENTRATIONS IN µg/L

µg/L – MICROGRAMS PER LITER

* – NYSDEC AWQSGVs

NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AWQSGVs – AMBIENT WATER-QUALITY STANDARDS AND GUIDANCE VALUES

– – NO NYSDEC AWQSGV AVAILABLE

FD – DUPLICATE SAMPLE

J – ESTIMATED VALUE

J+ – ESTIMATED VALUE HIGH BIAS

NS – NOT SAMPLED

U – COMPOUND WAS ANALYZED FOR BUT NOT DETECTED

BOLD – INDICATES THAT PARAMETER WAS DETECTED ABOVE THE NYSDEC AWQSGVS

NOTES

1. AN OBSERVABLE SHEEN WAS RECORDED DURING PURGE AT MONITORING WELLS MW-2R, MW-33 AND MW-34 AND WERE NOT SAMPLED.
2. MONITORING WELLS MW-19, MW-37, MW-38 AND MW-45 WERE DRY DURING GAUGING OR PURGING AND WERE NOT SAMPLED.
3. MONITORING WELL MW-43 WAS INACCESSIBLE AND WAS NOT SAMPLED.

30' 0 30'

NO.	DATE	REVISION DESCRIPTION	INT.

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(631) 232-2600

PROJECT NAME:
SITE MANAGEMENT PERIODIC REVIEW REPORT
PARAGON PAINT AND VARNISH CORPORATION
LONG ISLAND CITY, NEW YORK

PROJECT FOR:
CSC 4540 PROPERTY CO LLC

TITLE:
CONTAMINANTS OF CONCERN (COCs) IN GROUNDWATER AUGUST 2022 TO AUGUST 2023

FIGURE
2

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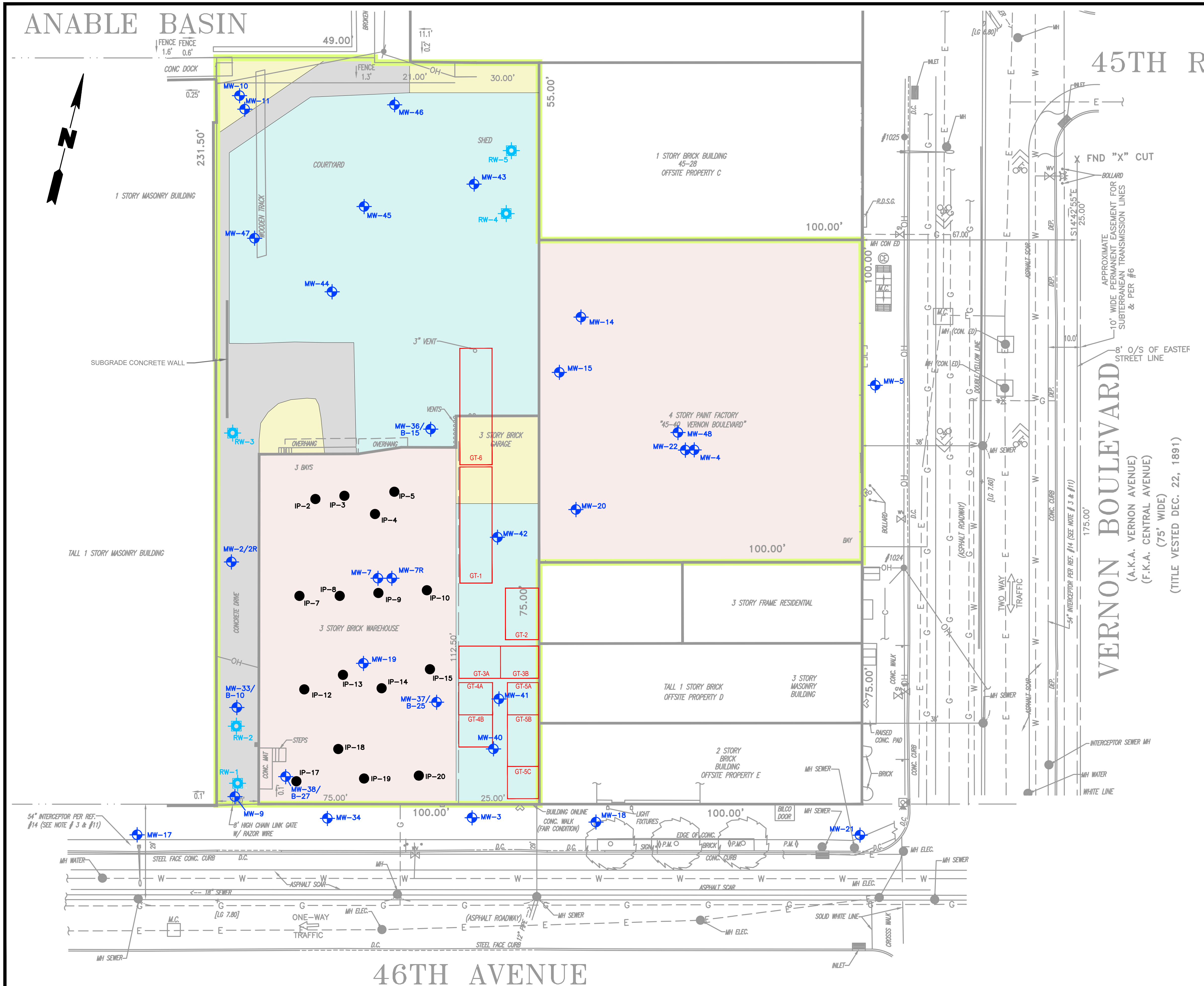

LEGEND

Symbol	Description
MW-5	LOCATION AND DESIGNATION OF MONITORING WELL
RW-1	LOCATION AND DESIGNATION OF LNAPL RECOVERY WELL
IP-2	LOCATION AND DESIGNATION OF PERMANENT ISCO INJECTION POINT
LNAPL	LIGHT NON-AQUEOUS PHASE LIQUID
ISCO	IN-SITU CHEMICAL OXIDATION
	CONCRETE VAULT
	PROPERTY BOUNDARY
GT-6	APPROXIMATE LOCATION AND DESIGNATION OF OF UNDERGROUND STORAGE TANK (ABANDONED IN PLACE)
	INSTALLED ASPHALT CAP
	EXISTING CONCRETE PAVEMENT
	INSTALLED RECYCLED CONCRETE AGGREGATE (MIN. 2 FT)
	EXISTING BUILDING SLAB

NOTE

REFER TO AS-BUILT DRAWINGS FOR ELEVATION INFORMATION OF INSTALLED PORTIONS OF COVER SYSTEM.

Title:
ENGINEERING CONTROL LOCATION COMPOSITE COVER SYSTEM

SITE MANAGEMENT PERIODIC REVIEW REPORT
PARAGON PAINT AND VARNISH CORPORATION

Prepared for:

CSC 4540 PROPERTY CO. LLC

ROUX

Compiled by: C.H.	Date: 05MAR24	FIGURE
Prepared by: G.M.	Scale: AS SHOWN	3
Project Mgr: C.H.	Project: 2051.0001Y002	
File: 2051.0001Y278.03.DWG		

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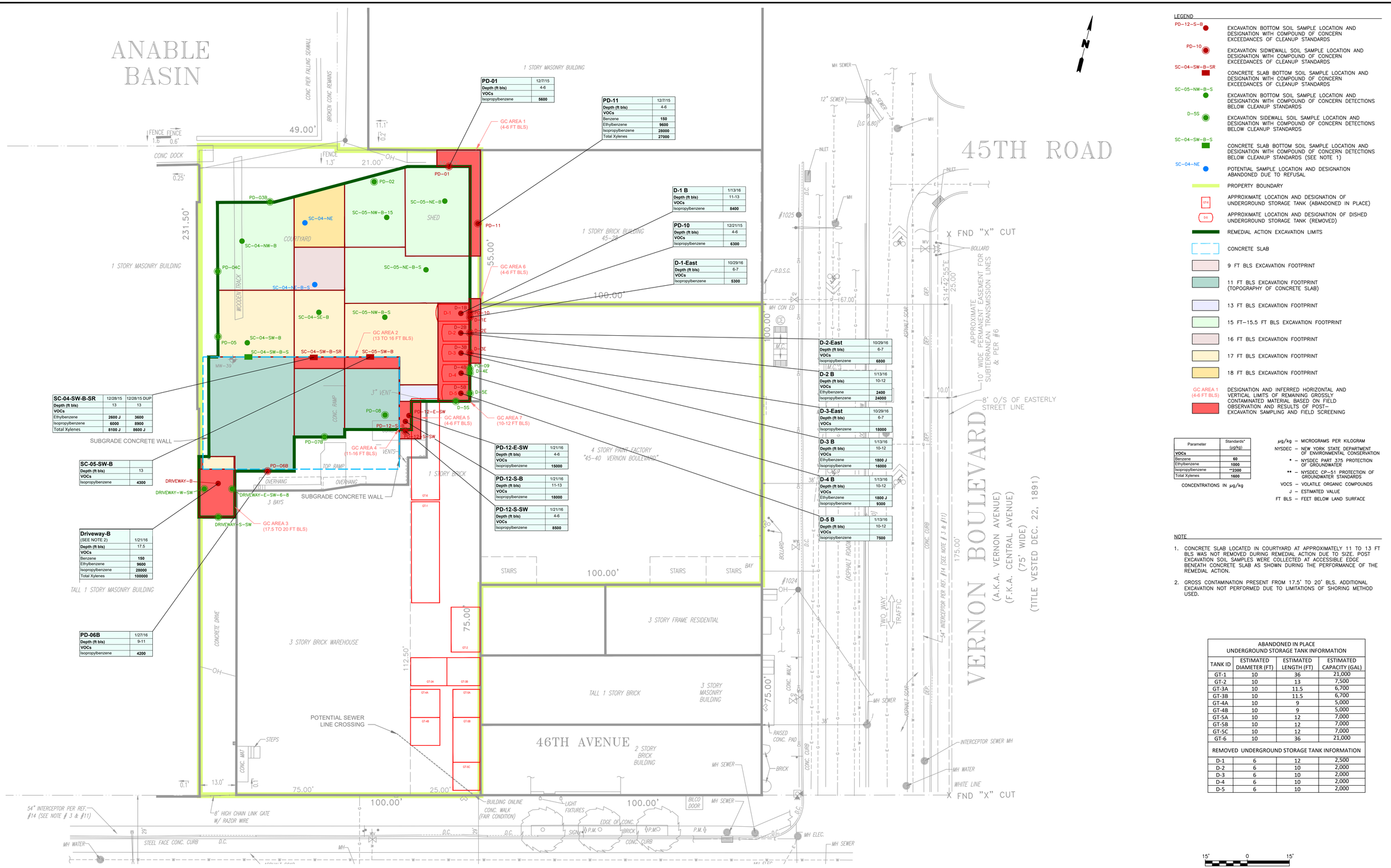

PD-01	12/7/15
Depth (ft bls)	4-6
VOCs	
Isopropylbenzene	5600

PD-11	12/7/15
Depth (ft bls)	4-6
VOCs	
Benzene	150
Ethylbenzene	9600
Isopropylbenzene	28000
Total Xylenes	27000

D-1 B	1/13/16
Depth (ft bls)	11-13
VOCs	
Isopropylbenzene	8400

PD-10	12/21/15
Depth (ft bls)	4-6
VOCs	
Isopropylbenzene	6300

D-1-East	10/29/16
Depth (ft bls)	6-7
VOCs	
Isopropylbenzene	5300

SC-04-SW-B-SR	12/28/15	12/28/15 DUP
Depth (ft bls)	13	13
VOCs		
Ethylbenzene	2600 J	3600
Isopropylbenzene	6000	8900
Total Xylenes	8100 J	8600 J

SC-05-SW-B	
Depth (ft bls)	13
VOCs	
Isopropylbenzene	4300

Driveway-B (SEE NOTE 2)	1/21/16
Depth (ft bls)	17.5
VOCs	
Benzene	150
Ethylbenzene	9600
Isopropylbenzene	28000
Total Xylenes	100000

PD-06B	1/27/16
Depth (ft bls)	9-11
VOCs	
Isopropylbenzene	4200

PD-12-E-SW	1/21/16
Depth (ft bls)	4-6
VOCs	
Isopropylbenzene	15000

PD-12-S-B	1/21/16
Depth (ft bls)	11-13
VOCs	
Isopropylbenzene	18000

PD-12-S-SW	1/21/16
Depth (ft bls)	4-6
VOCs	
Isopropylbenzene	8500

D-2-East	10/29/16
Depth (ft bls)	6-7
VOCs	
Isopropylbenzene	6800

D-2 B	1/13/16
Depth (ft bls)	10-12
VOCs	
Ethylbenzene	2400
Isopropylbenzene	24000

D-3-East	10/29/16
Depth (ft bls)	6-7
VOCs	
Isopropylbenzene	18000

D-3 B	1/13/16
Depth (ft bls)	10-12
VOCs	
Ethylbenzene	1800 J
Isopropylbenzene	16000

D-4 B	1/13/16
Depth (ft bls)	10-12
VOCs	
Ethylbenzene	1800 J
Isopropylbenzene	9300

D-5 B	1/13/16
Depth (ft bls)	10-12
VOCs	
Isopropylbenzene	7500

LEGEND

- PD-12-S-B — EXCAVATION BOTTOM SOIL SAMPLE LOCATION AND DESIGNATION WITH COMPOUND OF CONCERN EXCEEDANCES OF CLEANUP STANDARDS
- PD-10 — EXCAVATION SIDEWALL SOIL SAMPLE LOCATION AND DESIGNATION WITH COMPOUND OF CONCERN EXCEEDANCES OF CLEANUP STANDARDS
- SC-04-SW-B-SR — CONCRETE SLAB BOTTOM SOIL SAMPLE LOCATION AND DESIGNATION WITH COMPOUND OF CONCERN EXCEEDANCES OF CLEANUP STANDARDS
- SC-05-NW-B-S — EXCAVATION BOTTOM SOIL SAMPLE LOCATION AND DESIGNATION WITH COMPOUND OF CONCERN DETECTIONS BELOW CLEANUP STANDARDS
- D-5S — EXCAVATION SIDEWALL SOIL SAMPLE LOCATION AND DESIGNATION WITH COMPOUND OF CONCERN DETECTIONS BELOW CLEANUP STANDARDS
- SC-04-SW-B-S — CONCRETE SLAB BOTTOM SOIL SAMPLE LOCATION AND DESIGNATION WITH COMPOUND OF CONCERN DETECTIONS BELOW CLEANUP STANDARDS (SEE NOTE 1)
- SC-04-NE — POTENTIAL SAMPLE LOCATION AND DESIGNATION ABANDONED DUE TO REFUSAL
- PROPERTY BOUNDARY
- GT-4 — APPROXIMATE LOCATION AND DESIGNATION OF UNDERGROUND STORAGE TANK (ABANDONED IN PLACE)
- GT-5 — APPROXIMATE LOCATION AND DESIGNATION OF DISHED UNDERGROUND STORAGE TANK (REMOVED)
- REMEDIAL ACTION EXCAVATION LIMITS
- CONCRETE SLAB
- 9 FT BLS EXCAVATION FOOTPRINT
- 11 FT BLS EXCAVATION FOOTPRINT (TOPOGRAPHY OF CONCRETE SLAB)
- 13 FT BLS EXCAVATION FOOTPRINT
- 15 FT–15.5 FT BLS EXCAVATION FOOTPRINT
- 16 FT BLS EXCAVATION FOOTPRINT
- 17 FT BLS EXCAVATION FOOTPRINT
- 18 FT BLS EXCAVATION FOOTPRINT
- GC AREA 1 (4-6 FT BLS) — DESIGNATION AND INFERRED HORIZONTAL AND VERTICAL LIMITS OF REMAINING GROSSLY CONTAMINATED MATERIAL BASED ON FIELD OBSERVATION AND RESULTS OF POST–EXCAVATION SAMPLING AND FIELD SCREENING

Parameter	Standards* (µg/kg)
VOCs	
Benzene	60
Ethylbenzene	1000
Isopropylbenzene	**2300
Total Xylenes	1600

CONCENTRATIONS IN µg/kg

µg/kg – MICROGRAMS PER KILOGRAM
NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
* – NYSDEC PART 375 PROTECTION OF GROUNDWATER
** – NYSDEC CP–51 PROTECTION OF GROUNDWATER STANDARDS
VOCS – VOLATILE ORGANIC COMPOUNDS
J – ESTIMATED VALUE
FT BLS – FEET BELOW LAND SURFACE

NOTE

1. CONCRETE SLAB LOCATED IN COURTYARD AT APPROXIMATELY 11 TO 13 FT BLS WAS NOT REMOVED DURING REMEDIAL ACTION DUE TO SIZE. POST EXCAVATION SOIL SAMPLES WERE COLLECTED AT ACCESSIBLE EDGE BENEATH CONCRETE SLAB AS SHOWN DURING THE PERFORMANCE OF THE REMEDIAL ACTION.
2. GROSS CONTAMINATION PRESENT FROM 17.5' TO 20' BLS. ADDITIONAL EXCAVATION NOT PERFORMED DUE TO LIMITATIONS OF SHORING METHOD USED.

ABANDONED IN PLACE UNDERGROUND STORAGE TANK INFORMATION			
TANK ID	ESTIMATED DIAMETER (FT)	ESTIMATED LENGTH (FT)	ESTIMATED CAPACITY (GAL)
GT-1	10	36	21,000
GT-2	10	13	7,500
GT-3A	10	11.5	6,700
GT-3B	10	11.5	6,700
GT-4A	10	9	5,000
GT-4B	10	9	5,000
GT-5A	10	12	7,000
GT-5B	10	12	7,000
GT-5C	10	12	7,000
GT-6	10	36	21,000
REMOVED UNDERGROUND STORAGE TANK INFORMATION			
D-1	6	12	2,500
D-2	6	10	2,000
D-3	6	10	2,000
D-4	6	10	2,000
D-5	6	10	2,000

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(631) 232-2600

PROJECT NAME:
SITE MANAGEMENT PERIODIC REVIEW REPORT
PARAGON PAINT AND VARNISH CORPORATION
LONG ISLAND CITY, NEW YORK

PROJECT FOR:
CSC 4540 PROPERTY CO LLC

TITLE:
CONTAMINATION REMAINING IN SOIL AFTER THE REMEDIAL ACTION WITHIN COURTYARD

FIGURE
4

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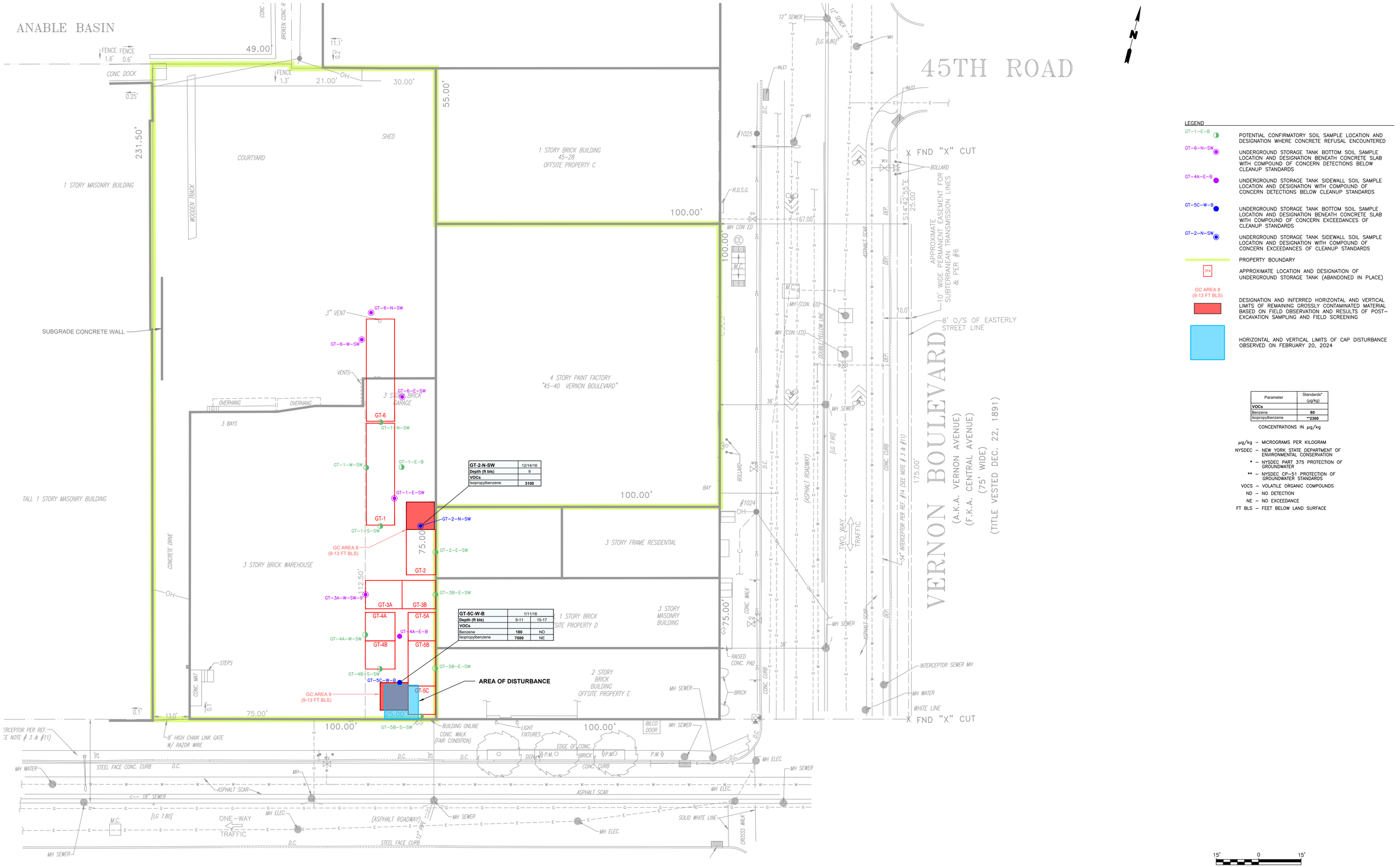

GT-2-N-SW	12/14/16
Depth (ft bls)	9
VOCs	
Isopropylbenzene	3100

GT-5C-W-B	1/11/16	
Depth (ft bls)	9-11	15-17
VOCs		
Benzene	180	ND
Isopropylbenzene	7500	NE

LEGEND

- GT-1-E-B — POTENTIAL CONFIRMATORY SOIL SAMPLE LOCATION AND DESIGNATION WHERE CONCRETE REFUSAL ENCOUNTERED
- GT-6-N-SW — UNDERGROUND STORAGE TANK BOTTOM SOIL SAMPLE LOCATION AND DESIGNATION BENEATH CONCRETE SLAB WITH COMPOUND OF CONCERN DETECTIONS BELOW CLEANUP STANDARDS
- GT-4A-E-B — UNDERGROUND STORAGE TANK SIDEWALL SOIL SAMPLE LOCATION AND DESIGNATION WITH COMPOUND OF CONCERN DETECTIONS BELOW CLEANUP STANDARDS
- GT-5C-W-B — UNDERGROUND STORAGE TANK BOTTOM SOIL SAMPLE LOCATION AND DESIGNATION BENEATH CONCRETE SLAB WITH COMPOUND OF CONCERN EXCEEDANCES OF CLEANUP STANDARDS
- GT-2-N-SW — UNDERGROUND STORAGE TANK SIDEWALL SOIL SAMPLE LOCATION AND DESIGNATION WITH COMPOUND OF CONCERN EXCEEDANCES OF CLEANUP STANDARDS
- PROPERTY BOUNDARY
- GT4 — APPROXIMATE LOCATION AND DESIGNATION OF UNDERGROUND STORAGE TANK (ABANDONED IN PLACE)
- GC AREA 8 (9-13 FT BLS) — DESIGNATION AND INFERRED HORIZONTAL AND VERTICAL LIMITS OF REMAINING GROSSLY CONTAMINATED MATERIAL BASED ON FIELD OBSERVATION AND RESULTS OF POST-EXCAVATION SAMPLING AND FIELD SCREENING
- HORIZONTAL AND VERTICAL LIMITS OF CAP DISTURBANCE OBSERVED ON FEBRUARY 20, 2024

Parameter	Standards* (µg/kg)
VOCs	
Benzene	60
Isopropylbenzene	**2300

CONCENTRATIONS IN µg/kg

µg/kg – MICROGRAMS PER KILOGRAM
NYSDEC – NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
* – NYSDEC PART 375 PROTECTION OF GROUNDWATER
** – NYSDEC CP-51 PROTECTION OF GROUNDWATER STANDARDS
VOCS – VOLATILE ORGANIC COMPOUNDS
ND – NO DETECTION
NE – NO EXCEEDANCE
FT BLS – FEET BELOW LAND SURFACE

15' 0 15'

NO.	DATE	REVISION DESCRIPTION	INT.

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PROJECT NAME:
SITE MANAGEMENT PERIODIC REVIEW REPORT
PARAGON PAINT AND VARNISH CORPORATION
LONG ISLAND CITY, NEW YORK

PROJECT FOR:
CSC 4540 PROPERTY CO LLC

TITLE:
CONTAMINATION REMAINING IN SOIL AFTER THE REMEDIAL ACTION WITHIN THE GARAGE

FIGURE
5

APPENDICES

A. IC/EC Certification Form
B. Site Inspection Checklists and Photo Log
C. Groundwater Monitoring Results
D. LNAPL Recovery System Monitoring Logs
E. NYSDEC Site Management Plan Approvals
F. NYSDEC Response Letter to SMP Modifications
G. Formal Groundwater Monitoring Report and NYSDEC Correspondence
H. Revised Quality Assurance Project Plan
I. Cover System Restoration NYSDEC Approval
J. Imported Backfill Documentation and NYSDEC Approval
K. Cap Restoration CAMP and Daily Reports

APPENDIX A

IC/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. C241108

Site Name Paragon Paint and Varnish Corp

Site Address: 5-49 46th Avenue Zip Code: 11101-5214
City/Town: Long Island City
County: Queens
Site Acreage: 0.759

Reporting Period: April 15, 2023 to April 15, 2024

	YES	NO
1. Is the information above correct?		
If NO, include handwritten above or on a separate sheet.	☐	☑
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☑
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☑
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☑

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

	YES	NO
5. Is the site currently undergoing development?	☐	☑

Box 2

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

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

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

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?	☐	☑

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

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☑	☐

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. C241108 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
4-26-4	CSC 4540 Property Co, LLC, c/o Simon Dev	Ground Water Use Restriction Soil Management Plan Monitoring Plan Site Management Plan O&M Plan IC/EC Plan

Site Management Plan (SMP)
Conduct groundwater monitoring
Compliance with a soil management plan
Prepare periodic review reports
Perform OM&M as per the SMP
Evaluate vapor intrusion before occupying buildings
No vegetable gardens

Box 4

Description of Engineering Controls

Parcel	Engineering Control
4-26-4	Cover System

Cover System for entire site 0.759 acres
LNAPL Recovery System
ISCO Injections as required

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
☑	☐

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

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

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

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

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

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

YES	NO
☑	☐

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

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

_____ _____

Signature of Owner, Remedial Party or Designated Representative — Date

IC CERTIFICATIONS
SITE NO. C241108

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 Omar Ramotar at Roux Environmental Engineering and Geology, D.P.C. 209 Shafter Street, Islandia, NY 11749,
print name print business address

am certifying as Remedial Party (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

5-14-24
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

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

I Omar Ramotar (print name) at Roux Environmental Engineering and Geology, D.P.C. 209 Shafter Street, Islandia, NY 11749 (print business address),

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

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		5-14-24

APPENDIX B

Site Inspection Checklists and Photo Log

Appendix B. Site Checklist and Photo Log

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

SITE-WIDE MONITORING, INSPECTION AND MAINTENANCE FORM

Client: **Vernon 4540 Realty LLC**
Location: **5-49 46th Avenue, Long Island City, Queens, New York**
Inspector: **Michael Sarni**
Date: **Tuesday, February 20, 2024**

Site Observations: Performed by (MS) on (2/20/2024)

Yes	No	
[ ]	[X]	Have any Site improvements been made since last inspection?
[ ]	[X]	Has there been any maintenance activity impacting engineering controls?
[X]	[ ]	Are monitoring wells intact?
		-Include sketches or photos of observations (as necessary)

Inspection of RCA Cap: Performed by (MS) on (2/20/2024)

Yes	No	
[X]	[ ]	Underlying demarcation barrier exposed? **See pg. 2**
[X]	[ ]	Are soil caps sloped to allow for drainage away from the peak?

Inspection of Asphalt/Concrete Caps: Performed by (MS) on (2/20/2024)

Yes	No	
[ ]	[X]	Significant cracks observed?
[ ]	[X]	Other damage observed? If yes, refer to Page 2 for additional clarification.
		-Include sketches or photos of observations (as nece

Inspection of Building Covers: Performed by (MS) on (2/20/2024)

Yes	No	
[X]	[ ]	Were all buildings inspected?
[ ]	[X]	Significant cracks observed?
[ ]	[X]	Other damage observed? If yes, refer to Page 2 for additional clarification.
[ ]	[X]	Any new slab penetrations observed? If yes, include description on page 2.
		-Include sketches or photos of observations (as necessary)

Inspection of LNAPL Recovery System : Performed by (MS) on (2/20/2024)

Yes	No	
[X]	[ ]	Were all five (5) Recovery wells intact?
[ ]	**[X]**	Were all five (5) AC Sipper reels operating properly? **See pg. 2**
[ ]	[X]	Were there any signs of corrosion on the 55 gallon drum?
[X]	[ ]	Were the fill alarm and spill alarms operating properly?
[X]	[ ]	Was the secondary containment pallet intact?
[X]	[ ]	Is the AC Sipper control panel intact?

Appendix B. Site Checklist and Photo Log

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

SITE-WIDE MONITORING, INSPECTION AND MAINTENANCE FORM

Client: **Vernon 4540 Realty LLC**

Location: **5-49 46th Avenue, Long Island City, Queens, New York**

Inspector: **Michael Sarni**

Date: **2/20/2024**

Site Observations

See pg. 1

Additional Comments or Clarification Where Corrective Actions May Be Required:

LNAPL Recovery system has been off since March 30, 2017. Operation and maintenance activities will resume upon presence of LNAPL in recovery wells.

RCA cap was observed to be disturbed during inspection. The cause of this disturbance was from a demolition contractor trying to locate and disconnect the sewer line. The contractor had not communicated the cap disturbance to the owner or Roux beforehand. The soil was sampled on February 27, 2024 and the laboratory analytical report is attached to this Appendix. Following approval from NYSDEC on March 13, 2024, the cap was restored on April 19, 2024.

Photos of inspection and restored cap are also attached to this Appendix.

ANALYTICAL REPORT

Lab Number:	L2410383
Client:	Roux Env. Eng. & Geology, DPC 209 Shafter St Islandia, NY 11749
ATTN:	Christian Hoelzli
Phone:	(631) 630-2477
Project Name:	FORMER PARAGON PAINT & VARNISH
Project Number:	2051.0001Y002
Report Date:	03/05/24

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002

Lab Number: L2410383
Report Date: 03/05/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2410383-01	BDS-1(0-2.5)	SOIL	LONG ISLAND CITY, NY	02/27/24 10:00	02/27/24
L2410383-02	DUP-022724	SOIL	LONG ISLAND CITY, NY	02/27/24 11:00	02/27/24
L2410383-03	FIELD BLANK-022724	FIELD BLANK	LONG ISLAND CITY, NY	02/27/24 10:30	02/27/24
L2410383-04	TRIP BLANK	TRIP BLANK (AQUEOUS)	LONG ISLAND CITY, NY	02/26/24 00:00	02/27/24

Project Name:	FORMER PARAGON PAINT & VARNISH	**Lab Number:**	L2410383
Project Number:	2051.0001Y002	**Report Date:**	03/05/24

Case Narrative

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

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

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

Soil/sediments, 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:	FORMER PARAGON PAINT & VARNISH	**Lab Number:**	L2410383
Project Number:	2051.0001Y002	**Report Date:**	03/05/24

Case Narrative (continued)

Report Submission

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

Sample Receipt

L2410383-03: Sample containers for Herbicides, EPH, Flashpoint, Reactive Cyanide, and Reactive Sulfide analyses were received for the "FIELD BLANK-022724" sample, but were not listed on the chain of custody. At the client's request, the analyses were not performed.

Volatile Organics

The WG1890812-5 Method Blank, associated with L2410383-01 and -02, has a concentration above the reporting limit for bromomethane. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

Semivolatile Organics

The WG1890913-2/-3 LCS/LCSD recoveries, associated with L2410383-01 and -02, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

The WG1890913-4/-5 MS/MSD recoveries, performed on L2410383-01, are below the acceptance criteria for hexachlorocyclopentadiene (0%/0%), 2,4-dinitrophenol (0%/0%), 4,6-dinitro-o-cresol (0%/0%), and benzoic acid (0%/0%) due to the concentration of these compounds in the MS/MSD falling below the reported detection limit.

Total Metals

L2410383-03: The Field Blank has a result for manganese present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential

Project Name:	FORMER PARAGON PAINT & VARNISH	**Lab Number:**	L2410383
Project Number:	2051.0001Y002	**Report Date:**	03/05/24

Case Narrative (continued)

for carry over.

The WG1890975-3/-4 MS/MSD recoveries for aluminum (617%/844%), calcium (MSD 0%), copper (0%/0%), iron (28100%/18000%), lead (0%/0%), manganese (359%/338%), and zinc (0%/0%), performed on L2410383-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1890975-3/-4 MS/MSD recoveries, performed on L2410383-01, are outside the acceptance criteria for barium (MS 129%), chromium (MS 163%) and nickel (72%/74%), potassium (MSD 126%), and vanadium (MSD 146%). A post digestion spike was performed and was within acceptance criteria.

The WG1890975-3/-4 MS/MSD RPD for iron (25%), performed on L2410383-01, is above the acceptance criteria.

The WG1890976-3 MS recovery, performed on L2410383-01, is outside the acceptance criteria for mercury (152%). A post digestion spike was performed and was within acceptance criteria.

Cyanide, Total

The WG1890558-2/-3 LCS/LCSD recoveries for cyanide, total (79%/78%), associated with L2410383-01 and -02, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 03/05/24

ORGANICS

VOLATILES

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-01
Client ID: BDS-1(0-2.5)
Sample Location: LONG ISLAND CITY, NY

Date Collected: 02/27/24 10:00
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 02/28/24 14:59
Analyst: AJK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-01 Date Collected: 02/27/24 10:00

Client ID: BDS-1(0-2.5) Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	0.68	J	ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	0.68	J	ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	11		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	4.2	J	ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,4-Dioxane	ND		ug/kg	82	36.	1
Freon-113	ND		ug/kg	4.1	0.72	1

Tentatively Identified Compounds				
Total TIC Compounds	12.0	J	ug/kg	1
Unknown	12.0	J	ug/kg	1

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-01 Date Collected: 02/27/24 10:00

Client ID: BDS-1(0-2.5) Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	85		70-130
4-Bromofluorobenzene	80		70-130
Dibromofluoromethane	109		70-130

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-02
Client ID: DUP-022724
Sample Location: LONG ISLAND CITY, NY

Date Collected: 02/27/24 11:00
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 02/28/24 15:26
Analyst: AJK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.96	0.52	1
Ethylbenzene	ND		ug/kg	0.96	0.13	1
Chloromethane	ND		ug/kg	3.8	0.89	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.48	0.13	1

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-02 Date Collected: 02/27/24 11:00

Client ID: DUP-022724 Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	0.59	J	ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.96	0.28	1
Xylenes, Total	0.59	J	ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.96	0.13	1
Styrene	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	ND		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	ND		ug/kg	9.6	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
sec-Butylbenzene	ND		ug/kg	0.96	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.95	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
n-Propylbenzene	ND		ug/kg	0.96	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,4-Dioxane	ND		ug/kg	76	34.	1
Freon-113	ND		ug/kg	3.8	0.66	1

Tentatively Identified Compounds				
Total TIC Compounds	11.8	J	ug/kg	1
Unknown	11.8	J	ug/kg	1

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-02 Date Collected: 02/27/24 11:00

Client ID: DUP-022724 Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	85		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	114		70-130

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-03
Client ID: FIELD BLANK-022724
Sample Location: LONG ISLAND CITY, NY

Date Collected: 02/27/24 10:30
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:
Matrix: Field Blank
Analytical Method: 1,8260D
Analytical Date: 02/28/24 14:19
Analyst: MAG

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
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-03 Date Collected: 02/27/24 10:30

Client ID: FIELD BLANK-022724 Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
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
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1

Tentatively Identified Compounds				
No Tentatively Identified Compounds	ND	ug/l		1

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-03 Date Collected: 02/27/24 10:30

Client ID: FIELD BLANK-022724 Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	104		70-130

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-04
Client ID: TRIP BLANK
Sample Location: LONG ISLAND CITY, NY

Date Collected: 02/26/24 00:00
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:
Matrix: Trip Blank (Aqueous)
Analytical Method: 1,8260D
Analytical Date: 02/28/24 14:43
Analyst: MAG

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
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-04 Date Collected: 02/26/24 00:00

Client ID: TRIP BLANK Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
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
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-04 Date Collected: 02/26/24 00:00

Client ID: TRIP BLANK Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	104		70-130

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/28/24 09:48
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1890695-5					
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
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/28/24 09:48
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1890695-5					
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
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
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
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/28/24 09:48
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1890695-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/28/24 13:37
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1890812-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	2.2		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/28/24 13:37
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1890812-5					
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/28/24 13:37
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1890812-5					
Tentatively Identified Compounds					
Total TIC Compounds	24.0	J	ug/kg		
Unknown	11.6	J	ug/kg		
Unknown	9.32	J	ug/kg		
Unknown	3.06	J	ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	85		70-130
4-Bromofluorobenzene	82		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1890695-3 WG1890695-4								
Methylene chloride	97		94		70-130	3		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		99		70-130	1		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	96		94		63-130	2		20
1,1,2-Trichloroethane	110		100		70-130	10		20
Tetrachloroethene	100		96		70-130	4		20
Chlorobenzene	100		99		75-130	1		20
Trichlorofluoromethane	93		90		62-150	3		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	110		100		70-130	10		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Bromoform	90		89		54-136	1		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	110		100		70-130	10		20
Ethylbenzene	110		100		70-130	10		20
Chloromethane	94		90		64-130	4		20
Bromomethane	55		55		39-139	0		20
Vinyl chloride	100		100		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1890695-3 WG1890695-4								
Chloroethane	96		97		55-138	1		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		99		70-130	1		20
Trichloroethene	110		100		70-130	10		20
1,2-Dichlorobenzene	100		99		70-130	1		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	98		100		63-130	2		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	96		95		70-130	1		20
Styrene	100		95		70-130	5		20
Dichlorodifluoromethane	88		86		36-147	2		20
Acetone	84		100		58-148	17		20
Carbon disulfide	100		99		51-130	1		20
2-Butanone	97		110		63-138	13		20
4-Methyl-2-pentanone	98		98		59-130	0		20
2-Hexanone	90		96		57-130	6		20
Bromochloromethane	95		96		70-130	1		20
1,2-Dibromoethane	99		98		70-130	1		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	87		92		41-144	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1890695-3 WG1890695-4								
Isopropylbenzene	110		100		70-130	10		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	90		93		70-130	3		20
1,2,4-Trichlorobenzene	95		93		70-130	2		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,4-Dioxane	94		98		56-162	4		20
Freon-113	110		100		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		108		70-130
Toluene-d8	104		101		70-130
4-Bromofluorobenzene	103		105		70-130
Dibromofluoromethane	95		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1890812-3 WG1890812-4								
Methylene chloride	89		89		70-130	0		30
1,1-Dichloroethane	92		91		70-130	1		30
Chloroform	89		88		70-130	1		30
Carbon tetrachloride	97		96		70-130	1		30
1,2-Dichloropropane	94		91		70-130	3		30
Dibromochloromethane	88		87		70-130	1		30
1,1,2-Trichloroethane	81		79		70-130	3		30
Tetrachloroethene	97		95		70-130	2		30
Chlorobenzene	88		87		70-130	1		30
Trichlorofluoromethane	105		103		70-139	2		30
1,2-Dichloroethane	84		84		70-130	0		30
1,1,1-Trichloroethane	96		96		70-130	0		30
Bromodichloromethane	89		90		70-130	1		30
trans-1,3-Dichloropropene	81		79		70-130	3		30
cis-1,3-Dichloropropene	92		91		70-130	1		30
Bromoform	82		82		70-130	0		30
1,1,2,2-Tetrachloroethane	72		73		70-130	1		30
Benzene	91		90		70-130	1		30
Toluene	82		81		70-130	1		30
Ethylbenzene	86		85		70-130	1		30
Chloromethane	92		91		52-130	1		30
Bromomethane	108		107		57-147	1		30
Vinyl chloride	107		107		67-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002

Lab Number: L2410383
Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1890812-3 WG1890812-4								
Chloroethane	112		110		50-151	2		30
1,1-Dichloroethene	107		103		65-135	4		30
trans-1,2-Dichloroethene	101		100		70-130	1		30
Trichloroethene	98		96		70-130	2		30
1,2-Dichlorobenzene	88		86		70-130	2		30
1,3-Dichlorobenzene	90		88		70-130	2		30
1,4-Dichlorobenzene	88		86		70-130	2		30
Methyl tert butyl ether	89		86		66-130	3		30
p/m-Xylene	83		82		70-130	1		30
o-Xylene	83		81		70-130	2		30
cis-1,2-Dichloroethene	94		93		70-130	1		30
Styrene	82		78		70-130	5		30
Dichlorodifluoromethane	83		82		30-146	1		30
Acetone	79		82		54-140	4		30
Carbon disulfide	95		94		59-130	1		30
2-Butanone	87		86		70-130	1		30
4-Methyl-2-pentanone	74		76		70-130	3		30
2-Hexanone	**68**	Q	**68**	Q	70-130	0		30
Bromochloromethane	102		100		70-130	2		30
1,2-Dibromoethane	86		87		70-130	1		30
sec-Butylbenzene	79		78		70-130	1		30
tert-Butylbenzene	82		82		70-130	0		30
1,2-Dibromo-3-chloropropane	82		84		68-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1890812-3 WG1890812-4								
Isopropylbenzene	75		74		70-130	1		30
n-Propylbenzene	83		80		70-130	4		30
1,2,3-Trichlorobenzene	88		86		70-130	2		30
1,2,4-Trichlorobenzene	91		89		70-130	2		30
1,3,5-Trimethylbenzene	80		79		70-130	1		30
1,4-Dioxane	108		107		65-136	1		30
Freon-113	106		104		50-139	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	87		89		70-130
Toluene-d8	86		86		70-130
4-Bromofluorobenzene	83		85		70-130
Dibromofluoromethane	103		104		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1890812-6 WG1890812-7 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)												
Methylene chloride	ND	93.2	60	**65**	Q	69	73		70-130	13		30
1,1-Dichloroethane	ND	93.2	64	**69**	Q	78	82		70-130	19		30
Chloroform	ND	93.2	55	**59**	Q	70	74		70-130	24		30
Carbon tetrachloride	ND	93.2	56	**60**	Q	89	94		70-130	**46**	Q	30
1,2-Dichloropropane	ND	93.2	57	**61**	Q	63	**66**	Q	70-130	10		30
Dibromochloromethane	ND	93.2	41	**44**	Q	48	**51**	Q	70-130	17		30
1,1,2-Trichloroethane	ND	93.2	44	**47**	Q	50	**52**	Q	70-130	12		30
Tetrachloroethene	ND	93.2	30	**32**	Q	45	**48**	Q	70-130	**41**	Q	30
Chlorobenzene	ND	93.2	26	**28**	Q	29	**30**	Q	70-130	11		30
Trichlorofluoromethane	ND	93.2	77	83		130	135		70-139	**49**	Q	30
1,2-Dichloroethane	ND	93.2	49	**52**	Q	60	**64**	Q	70-130	22		30
1,1,1-Trichloroethane	ND	93.2	61	**66**	Q	90	95		70-130	**38**	Q	30
Bromodichloromethane	ND	93.2	48	**51**	Q	58	**61**	Q	70-130	19		30
trans-1,3-Dichloropropene	ND	93.2	31	**33**	Q	31	**32**	Q	70-130	0		30
cis-1,3-Dichloropropene	ND	93.2	41	**44**	Q	41	**43**	Q	70-130	0		30
Bromoform	ND	93.2	35	**38**	Q	41	**43**	Q	70-130	15		30
1,1,2,2-Tetrachloroethane	ND	93.2	33	**35**	Q	35	**36**	Q	70-130	5		30
Benzene	ND	93.2	55	**59**	Q	64	**67**	Q	70-130	15		30
Toluene	ND	93.2	35	**38**	Q	43	**45**	Q	70-130	20		30
Ethylbenzene	ND	93.2	24	**26**	Q	30	**31**	Q	70-130	20		30
Chloromethane	ND	93.2	73	79		97	102		52-130	28		30
Bromomethane	ND	93.2	74	80		97	102		57-147	26		30
Vinyl chloride	ND	93.2	89	95		120	122		67-130	26		30

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1890812-6 WG1890812-7 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)												
Chloroethane	ND	93.2	87	94		120	122		50-151	28		30
1,1-Dichloroethene	ND	93.2	76	82		100	108		65-135	30		30
trans-1,2-Dichloroethene	ND	93.2	58	**62**	Q	70	74		70-130	19		30
Trichloroethene	ND	93.2	44	**48**	Q	55	**58**	Q	70-130	22		30
1,2-Dichlorobenzene	ND	93.2	13	**14**	Q	14	**14**	Q	70-130	4		30
1,3-Dichlorobenzene	ND	93.2	13	**13**	Q	13	**14**	Q	70-130	5		30
1,4-Dichlorobenzene	ND	93.2	12	**13**	Q	12	**13**	Q	70-130	3		30
Methyl tert butyl ether	ND	93.2	65	70		79	83		66-130	19		30
p/m-Xylene	0.68J	186	41	**22**	Q	51	**27**	Q	70-130	20		30
o-Xylene	ND	186	43	**23**	Q	51	**27**	Q	70-130	18		30
cis-1,2-Dichloroethene	ND	93.2	55	**59**	Q	60	**64**	Q	70-130	9		30
Styrene	ND	186	38	**20**	Q	41	**22**	Q	70-130	8		30
Dichlorodifluoromethane	ND	93.2	69	74		110	115		30-146	**45**	Q	30
Acetone	11	93.2	62	55		75	68		54-140	19		30
Carbon disulfide	ND	93.2	53	**57**	Q	70	74		59-130	28		30
2-Butanone	4.2J	93.2	62	**66**	Q	68	72		70-130	10		30
4-Methyl-2-pentanone	ND	93.2	55	**59**	Q	58	**61**	Q	70-130	4		30
2-Hexanone	ND	93.2	44	**47**	Q	42	**44**	Q	70-130	3		30
Bromochloromethane	ND	93.2	60	**64**	Q	68	72		70-130	13		30
1,2-Dibromoethane	ND	93.2	40	**43**	Q	42	**44**	Q	70-130	3		30
sec-Butylbenzene	ND	93.2	11	**11**	Q	14	**15**	Q	70-130	28		30
tert-Butylbenzene	ND	93.2	14	**14**	Q	18	**19**	Q	70-130	29		30
1,2-Dibromo-3-chloropropane	ND	93.2	30	**32**	Q	30	**32**	Q	68-130	1		30

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1890812-6 WG1890812-7 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)												
Isopropylbenzene	ND	93.2	17	**18**	Q	22	**23**	Q	70-130	25		30
n-Propylbenzene	ND	93.2	14	**15**	Q	17	**18**	Q	70-130	23		30
1,2,3-Trichlorobenzene	ND	93.2	6.4	**7**	Q	5.6	**6**	Q	70-130	13		30
1,2,4-Trichlorobenzene	ND	93.2	6.3	**7**	Q	5.7	**6**	Q	70-130	10		30
1,3,5-Trimethylbenzene	ND	93.2	13	**14**	Q	16	**17**	Q	70-130	22		30
1,4-Dioxane	ND	4660	7800	**167**	Q	4000	85		65-136	**64**	Q	30
Freon-113	ND	93.2	72	77		110	119		50-139	**44**	Q	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		102		70-130
4-Bromofluorobenzene	91		89		70-130
Dibromofluoromethane	98		112		70-130
Toluene-d8	87		91		70-130

SEMIVOLATILES

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-01
Client ID: BDS-1(0-2.5)
Sample Location: LONG ISLAND CITY, NY

Date Collected: 02/27/24 10:00
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 03/02/24 09:02
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 02/29/24 22:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	64	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	1100		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	77	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	130	J	ug/kg	180	64.	1
Butyl benzyl phthalate	93	J	ug/kg	180	47.	1
Di-n-butylphthalate	270		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-01 Date Collected: 02/27/24 10:00

Client ID: BDS-1(0-2.5) Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	520		ug/kg	110	21.	1
Benzo(a)pyrene	590		ug/kg	150	45.	1
Benzo(b)fluoranthene	880		ug/kg	110	31.	1
Benzo(k)fluoranthene	220		ug/kg	110	30.	1
Chrysene	600		ug/kg	110	19.	1
Acenaphthylene	40	J	ug/kg	150	28.	1
Anthracene	200		ug/kg	110	36.	1
Benzo(ghi)perylene	340		ug/kg	150	22.	1
Fluorene	67	J	ug/kg	180	18.	1
Phenanthrene	720		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	90	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	320		ug/kg	150	26.	1
Pyrene	950		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	42	J	ug/kg	180	18.	1
2-Methylnaphthalene	49	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-01 Date Collected: 02/27/24 10:00

Client ID: BDS-1(0-2.5) Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	98	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	54		30-120
2,4,6-Tribromophenol	55		10-136
4-Terphenyl-d14	45		18-120

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-02
Client ID: DUP-022724
Sample Location: LONG ISLAND CITY, NY

Date Collected: 02/27/24 11:00
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 03/02/24 09:19
Analyst: CMM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 02/29/24 22:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Isophorone	ND		ug/kg	170	24.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	110	J	ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Biphenyl	75	J	ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-02 Date Collected: 02/27/24 11:00

Client ID: DUP-022724 Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	550		ug/kg	180	18.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	290		ug/kg	180	57.	1
Carbazole	450		ug/kg	180	18.	1

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-02 Date Collected: 02/27/24 11:00

Client ID: DUP-022724 Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	10900	J	ug/kg			1
Unknown PAH	232	J	ug/kg			1
Unknown	654	J	ug/kg			1
Unknown	911	J	ug/kg			1
Unknown PAH	1170	J	ug/kg			1
Unknown Ketone	427	J	ug/kg			1
Unknown Thiophene	531	J	ug/kg			1
Unknown	297	J	ug/kg			1
Unknown	360	J	ug/kg			1
Unknown PAH	701	J	ug/kg			1
Unknown PAH	291	J	ug/kg			1
Unknown Ketone	752	J	ug/kg			1
Unknown	1550	J	ug/kg			1
Unknown	646	J	ug/kg			1
Unknown	2420	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	61		10-136
4-Terphenyl-d14	49		18-120

Project Name: FORMER PARAGON PAINT & VARNISH
Lab Number: L2410383
Project Number: 2051.0001Y002
Report Date: 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-03
Client ID: FIELD BLANK-022724
Sample Location: LONG ISLAND CITY, NY

Date Collected: 02/27/24 10:30
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:
Matrix: Field Blank
Analytical Method: 1,8270E
Analytical Date: 03/04/24 19:19
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 03/03/24 09:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-03 Date Collected: 02/27/24 10:30

Client ID: FIELD BLANK-022724 Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Tentatively Identified Compounds						
Total TIC Compounds	22.1	J	ug/l			1
Unknown	15.6	J	ug/l			1
Unknown Alkane	1.96	J	ug/l			1
Unknown Organic Acid	1.53	J	ug/l			1
Unknown Alkane	3.02	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	51		10-120
4-Terphenyl-d14	70		41-149

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-03
Client ID: FIELD BLANK-022724
Sample Location: LONG ISLAND CITY, NY

Date Collected: 02/27/24 10:30
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:
Matrix: Field Blank
Analytical Method: 1,8270E-SIM
Analytical Date: 03/04/24 09:45
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/03/24 09:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.07	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-03 Date Collected: 02/27/24 10:30

Client ID: FIELD BLANK-022724 Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	80		41-149

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 03/01/24 22:33
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 02/29/24 22:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1890913-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 03/01/24 22:33
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 02/29/24 22:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1890913-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	22.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 03/01/24 22:33
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 02/29/24 22:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1890913-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	71		18-120

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 03/04/24 11:06
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 03/03/24 09:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1891588-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 03/04/24 11:06
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 03/03/24 09:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1891588-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 03/04/24 11:06
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 03/03/24 09:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1891588-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Tentatively Identified Compounds			
Total TIC Compounds	29.5	J	ug/l
Unknown	14.4	J	ug/l
Unknown Organic Acid	2.36	J	ug/l
Unknown Alkane	1.93	J	ug/l
Unknown Organic Acid	3.24	J	ug/l
Unknown	1.56	J	ug/l
Unknown	3.56	J	ug/l
Unknown Alkane	2.44	J	ug/l

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 03/04/24 11:06
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 03/03/24 09:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1891588-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	72		41-149

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 03/04/24 08:40
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/03/24 09:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 03 Batch: WG1891589-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 03/04/24 08:40
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/03/24 09:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 03 Batch: WG1891589-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	87		10-120
4-Terphenyl-d14	79		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1890913-2 WG1890913-3								
Acenaphthene	80		74		31-137	8		50
1,2,4-Trichlorobenzene	76		68		38-107	11		50
Hexachlorobenzene	83		76		40-140	9		50
Bis(2-chloroethyl)ether	78		74		40-140	5		50
2-Chloronaphthalene	76		69		40-140	10		50
1,2-Dichlorobenzene	76		74		40-140	3		50
1,3-Dichlorobenzene	73		71		40-140	3		50
1,4-Dichlorobenzene	75		73		28-104	3		50
3,3'-Dichlorobenzidine	64		58		40-140	10		50
2,4-Dinitrotoluene	92		82		40-132	11		50
2,6-Dinitrotoluene	84		74		40-140	13		50
Fluoranthene	81		73		40-140	10		50
4-Chlorophenyl phenyl ether	80		71		40-140	12		50
4-Bromophenyl phenyl ether	77		69		40-140	11		50
Bis(2-chloroisopropyl)ether	87		80		40-140	8		50
Bis(2-chloroethoxy)methane	81		73		40-117	10		50
Hexachlorobutadiene	74		70		40-140	6		50
Hexachlorocyclopentadiene	72		67		40-140	7		50
Hexachloroethane	76		74		40-140	3		50
Isophorone	82		73		40-140	12		50
Naphthalene	78		73		40-140	7		50
Nitrobenzene	88		82		40-140	7		50
NDPA/DPA	80		71		36-157	12		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002

Lab Number: L2410383
Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1890913-2 WG1890913-3								
n-Nitrosodi-n-propylamine	83		75		32-121	10		50
Bis(2-ethylhexyl)phthalate	86		78		40-140	10		50
Butyl benzyl phthalate	83		76		40-140	9		50
Di-n-butylphthalate	85		75		40-140	13		50
Di-n-octylphthalate	85		78		40-140	9		50
Diethyl phthalate	82		72		40-140	13		50
Dimethyl phthalate	78		68		40-140	14		50
Benzo(a)anthracene	77		69		40-140	11		50
Benzo(a)pyrene	82		74		40-140	10		50
Benzo(b)fluoranthene	81		74		40-140	9		50
Benzo(k)fluoranthene	81		73		40-140	10		50
Chrysene	79		72		40-140	9		50
Acenaphthylene	75		68		40-140	10		50
Anthracene	83		75		40-140	10		50
Benzo(ghi)perylene	83		73		40-140	13		50
Fluorene	81		74		40-140	9		50
Phenanthrene	81		74		40-140	9		50
Dibenzo(a,h)anthracene	83		74		40-140	11		50
Indeno(1,2,3-cd)pyrene	82		72		40-140	13		50
Pyrene	82		73		35-142	12		50
Biphenyl	72		64		37-127	12		50
4-Chloroaniline	75		68		40-140	10		50
2-Nitroaniline	80		74		47-134	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002

Lab Number: L2410383
Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1890913-2 WG1890913-3								
3-Nitroaniline	75		67		26-129	11		50
4-Nitroaniline	80		71		41-125	12		50
Dibenzofuran	81		74		40-140	9		50
2-Methylnaphthalene	80		72		40-140	11		50
1,2,4,5-Tetrachlorobenzene	70		62		40-117	12		50
Acetophenone	74		69		14-144	7		50
2,4,6-Trichlorophenol	79		71		30-130	11		50
p-Chloro-m-cresol	85		76		26-103	11		50
2-Chlorophenol	78		72		25-102	8		50
2,4-Dichlorophenol	81		72		30-130	12		50
2,4-Dimethylphenol	96		83		30-130	15		50
2-Nitrophenol	86		78		30-130	10		50
4-Nitrophenol	103		93		11-114	10		50
2,4-Dinitrophenol	60		55		4-130	9		50
4,6-Dinitro-o-cresol	85		76		10-130	11		50
Pentachlorophenol	72		67		17-109	7		50
Phenol	84		77		26-90	9		50
2-Methylphenol	84		75		30-130.	11		50
3-Methylphenol/4-Methylphenol	90		80		30-130	12		50
2,4,5-Trichlorophenol	79		71		30-130	11		50
Benzoic Acid	**0**	Q	**0**	Q	10-110	NC		50
Benzyl Alcohol	84		76		40-140	10		50
Carbazole	83		74		54-128	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1890913-2 WG1890913-3								
1,4-Dioxane	62		60		40-140	3		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	82		77		25-120
Phenol-d6	85		77		10-120
Nitrobenzene-d5	85		81		23-120
2-Fluorobiphenyl	78		70		30-120
2,4,6-Tribromophenol	94		83		10-136
4-Terphenyl-d14	79		71		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1891588-2 WG1891588-3								
Acenaphthene	67		72		37-111	7		30
1,2,4-Trichlorobenzene	63		68		39-98	8		30
Hexachlorobenzene	72		83		40-140	14		30
Bis(2-chloroethyl)ether	60		64		40-140	6		30
2-Chloronaphthalene	68		76		40-140	11		30
1,2-Dichlorobenzene	61		67		40-140	9		30
1,3-Dichlorobenzene	60		64		40-140	6		30
1,4-Dichlorobenzene	60		63		36-97	5		30
3,3'-Dichlorobenzidine	58		61		40-140	5		30
2,4-Dinitrotoluene	67		74		48-143	10		30
2,6-Dinitrotoluene	72		83		40-140	14		30
Fluoranthene	69		77		40-140	11		30
4-Chlorophenyl phenyl ether	72		76		40-140	5		30
4-Bromophenyl phenyl ether	74		78		40-140	5		30
Bis(2-chloroisopropyl)ether	59		65		40-140	10		30
Bis(2-chloroethoxy)methane	64		66		40-140	3		30
Hexachlorobutadiene	64		72		40-140	12		30
Hexachlorocyclopentadiene	67		73		40-140	9		30
Hexachloroethane	59		64		40-140	8		30
Isophorone	64		67		40-140	5		30
Naphthalene	64		71		40-140	10		30
Nitrobenzene	63		65		40-140	3		30
NDPA/DPA	72		79		40-140	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002

Lab Number: L2410383
Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1891588-2 WG1891588-3								
n-Nitrosodi-n-propylamine	62		66		29-132	6		30
Bis(2-ethylhexyl)phthalate	60		68		40-140	13		30
Butyl benzyl phthalate	64		73		40-140	13		30
Di-n-butylphthalate	66		77		40-140	15		30
Di-n-octylphthalate	62		69		40-140	11		30
Diethyl phthalate	69		75		40-140	8		30
Dimethyl phthalate	73		84		40-140	14		30
Benzo(a)anthracene	68		74		40-140	8		30
Benzo(a)pyrene	66		76		40-140	14		30
Benzo(b)fluoranthene	69		78		40-140	12		30
Benzo(k)fluoranthene	69		75		40-140	8		30
Chrysene	67		73		40-140	9		30
Acenaphthylene	69		79		45-123	14		30
Anthracene	68		76		40-140	11		30
Benzo(ghi)perylene	65		73		40-140	12		30
Fluorene	69		75		40-140	8		30
Phenanthrene	69		76		40-140	10		30
Dibenzo(a,h)anthracene	67		75		40-140	11		30
Indeno(1,2,3-cd)pyrene	62		70		40-140	12		30
Pyrene	70		78		26-127	11		30
Biphenyl	69		79		40-140	14		30
4-Chloroaniline	60		65		40-140	8		30
2-Nitroaniline	70		78		52-143	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1891588-2 WG1891588-3								
3-Nitroaniline	65		70		25-145	7		30
4-Nitroaniline	66		72		51-143	9		30
Dibenzofuran	69		75		40-140	8		30
2-Methylnaphthalene	64		71		40-140	10		30
1,2,4,5-Tetrachlorobenzene	69		79		2-134	14		30
Acetophenone	65		70		39-129	7		30
2,4,6-Trichlorophenol	71		83		30-130	16		30
p-Chloro-m-cresol	71		78		23-97	9		30
2-Chlorophenol	65		69		27-123	6		30
2,4-Dichlorophenol	70		76		30-130	8		30
2,4-Dimethylphenol	68		74		30-130	8		30
2-Nitrophenol	64		67		30-130	5		30
4-Nitrophenol	64		70		10-80	9		30
2,4-Dinitrophenol	72		77		20-130	7		30
4,6-Dinitro-o-cresol	72		83		20-164	14		30
Pentachlorophenol	60		66		9-103	10		30
Phenol	52		55		12-110	6		30
2-Methylphenol	65		69		30-130	6		30
3-Methylphenol/4-Methylphenol	64		68		30-130	6		30
2,4,5-Trichlorophenol	72		86		30-130	18		30
Benzoic Acid	47		56		10-164	17		30
Benzyl Alcohol	62		66		26-116	6		30
Carbazole	68		77		55-144	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1891588-2 WG1891588-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		61		21-120
Phenol-d6	50		52		10-120
Nitrobenzene-d5	61		63		23-120
2-Fluorobiphenyl	67		75		15-120
2,4,6-Tribromophenol	71		76		10-120
4-Terphenyl-d14	66		75		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 03 Batch: WG1891589-2 WG1891589-3								
Acenaphthene	70		75		40-140	7		40
2-Chloronaphthalene	68		73		40-140	7		40
Fluoranthene	76		82		40-140	8		40
Hexachlorobutadiene	60		64		40-140	6		40
Naphthalene	63		67		40-140	6		40
Benzo(a)anthracene	71		78		40-140	9		40
Benzo(a)pyrene	75		82		40-140	9		40
Benzo(b)fluoranthene	76		80		40-140	5		40
Benzo(k)fluoranthene	78		88		40-140	12		40
Chrysene	71		75		40-140	5		40
Acenaphthylene	72		78		40-140	8		40
Anthracene	73		78		40-140	7		40
Benzo(ghi)perylene	74		82		40-140	10		40
Fluorene	76		82		40-140	8		40
Phenanthrene	70		74		40-140	6		40
Dibenzo(a,h)anthracene	80		88		40-140	10		40
Indeno(1,2,3-cd)pyrene	76		84		40-140	10		40
Pyrene	77		83		40-140	8		40
2-Methylnaphthalene	68		72		40-140	6		40
Pentachlorophenol	74		83		40-140	11		40
Hexachlorobenzene	72		75		40-140	4		40
Hexachloroethane	61		66		40-140	8		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 03 Batch: WG1891589-2 WG1891589-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	62		65		21-120
Phenol-d6	56		58		10-120
Nitrobenzene-d5	79		85		23-120
2-Fluorobiphenyl	68		73		15-120
2,4,6-Tribromophenol	93		102		10-120
4-Terphenyl-d14	74		80		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1890913-4 WG1890913-5 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)												
Acenaphthene	64J	1500	810	54		940	64		31-137	15		50
1,2,4-Trichlorobenzene	ND	1500	840	56		960	65		38-107	13		50
Hexachlorobenzene	ND	1500	710	47		850	57		40-140	18		50
Bis(2-chloroethyl)ether	ND	1500	830	55		920	62		40-140	10		50
2-Chloronaphthalene	ND	1500	820	55		970	66		40-140	17		50
1,2-Dichlorobenzene	ND	1500	830	55		930	63		40-140	11		50
1,3-Dichlorobenzene	ND	1500	790	53		890	60		40-140	12		50
1,4-Dichlorobenzene	ND	1500	830	55		910	62		28-104	9		50
3,3'-Dichlorobenzidine	ND	1500	210	**14**	Q	190	**13**	Q	40-140	10		50
2,4-Dinitrotoluene	ND	1500	490	**33**	Q	630	43		40-132	25		50
2,6-Dinitrotoluene	ND	1500	730	49		840	57		40-140	14		50
Fluoranthene	1100	1500	2000	60		2500	95		40-140	22		50
4-Chlorophenyl phenyl ether	ND	1500	700	47		840	57		40-140	18		50
4-Bromophenyl phenyl ether	ND	1500	690	46		830	56		40-140	18		50
Bis(2-chloroisopropyl)ether	ND	1500	800	53		880	59		40-140	10		50
Bis(2-chloroethoxy)methane	ND	1500	830	55		920	62		40-117	10		50
Hexachlorobutadiene	ND	1500	810	54		900	61		40-140	11		50
Hexachlorocyclopentadiene	ND	1500	ND	**0**	Q	ND	**0**	Q	40-140	NC		50
Hexachloroethane	ND	1500	630	42		680	46		40-140	8		50
Isophorone	ND	1500	850	57		950	64		40-140	11		50
Naphthalene	77J	1500	930	62		1000	68		40-140	7		50
Nitrobenzene	ND	1500	850	57		960	65		40-140	12		50
NDPA/DPA	ND	1500	730	49		880	59		36-157	19		50

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1890913-4 WG1890913-5 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)												
n-Nitrosodi-n-propylamine	ND	1500	830	55		940	64		32-121	12		50
Bis(2-ethylhexyl)phthalate	130J	1500	890	59		1100	74		40-140	21		50
Butyl benzyl phthalate	93J	1500	860	57		1000	68		40-140	15		50
Di-n-butylphthalate	270	1500	810	**36**	Q	890	42		40-140	9		50
Di-n-octylphthalate	ND	1500	830	55		990	67		40-140	18		50
Diethyl phthalate	ND	1500	720	48		850	57		40-140	17		50
Dimethyl phthalate	ND	1500	800	53		900	61		40-140	12		50
Benzo(a)anthracene	520	1500	1300	52		1600	73		40-140	21		50
Benzo(a)pyrene	590	1500	1500	61		1800	82		40-140	18		50
Benzo(b)fluoranthene	880	1500	1600	48		1900	69		40-140	17		50
Benzo(k)fluoranthene	220	1500	1000	52		1300	73		40-140	26		50
Chrysene	600	1500	1400	53		1700	74		40-140	19		50
Acenaphthylene	40J	1500	830	55		960	65		40-140	15		50
Anthracene	200	1500	1000	53		1200	68		40-140	18		50
Benzo(ghi)perylene	340	1500	970	42		1100	51		40-140	13		50
Fluorene	67J	1500	790	53		950	64		40-140	18		50
Phenanthrene	720	1500	1600	59		2000	87		40-140	22		50
Dibenzo(a,h)anthracene	90J	1500	670	45		820	55		40-140	20		50
Indeno(1,2,3-cd)pyrene	320	1500	1000	45		1200	59		40-140	18		50
Pyrene	950	1500	1900	63		2300	91		35-142	19		50
Biphenyl	ND	1500	880	59		1000	68		37-127	13		50
4-Chloroaniline	ND	1500	580	**39**	Q	480	**32**	Q	40-140	19		50
2-Nitroaniline	ND	1500	1000	67		1200	81		47-134	18		50

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1890913-4 WG1890913-5 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)												
3-Nitroaniline	ND	1500	740	49		770	52		26-129	4		50
4-Nitroaniline	ND	1500	620	41		690	47		41-125	11		50
Dibenzofuran	42J	1500	770	51		920	62		40-140	18		50
2-Methylnaphthalene	49J	1500	910	61		1000	68		40-140	9		50
1,2,4,5-Tetrachlorobenzene	ND	1500	850	57		980	66		40-117	14		50
Acetophenone	ND	1500	970	65		1100	74		14-144	13		50
2,4,6-Trichlorophenol	ND	1500	950	63		1200	81		30-130	23		50
p-Chloro-m-cresol	ND	1500	890	59		1000	68		26-103	12		50
2-Chlorophenol	ND	1500	890	59		1000	68		25-102	12		50
2,4-Dichlorophenol	ND	1500	920	61		1100	74		30-130	18		50
2,4-Dimethylphenol	ND	1500	670	45		790	53		30-130	16		50
2-Nitrophenol	ND	1500	580	39		710	48		30-130	20		50
4-Nitrophenol	ND	1500	450	30		580	39		11-114	25		50
2,4-Dinitrophenol	ND	1500	ND	**0**	Q	ND	**0**	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1500	ND	**0**	Q	ND	**0**	Q	10-130	NC		50
Pentachlorophenol	ND	1500	740	49		1000	68		17-109	30		50
Phenol	ND	1500	920	61		1000	68		26-90	8		50
2-Methylphenol	ND	1500	840	56		970	66		30-130.	14		50
3-Methylphenol/4-Methylphenol	ND	1500	860	57		980	66		30-130	13		50
2,4,5-Trichlorophenol	ND	1500	920	61		1200	81		30-130	26		50
Benzoic Acid	ND	1500	ND	**0**	Q	ND	**0**	Q	10-110	NC		50
Benzyl Alcohol	ND	1500	850	57		980	66		40-140	14		50
Carbazole	98J	1500	920	61		1100	74		54-128	18		50

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1890913-4 WG1890913-5 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)												
1,4-Dioxane	ND	1500	710	47		670	45		40-140	6		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	54		67		10-136
2-Fluorobiphenyl	53		59		30-120
2-Fluorophenol	57		66		25-120
4-Terphenyl-d14	44		52		18-120
Nitrobenzene-d5	60		67		23-120
Phenol-d6	62		69		10-120

PCBS

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-01
Client ID: BDS-1(0-2.5)
Sample Location: LONG ISLAND CITY, NY

Date Collected: 02/27/24 10:00
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/03/24 13:10
Analyst: EMR
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 02/29/24 21:04
Cleanup Method: EPA 3665A
Cleanup Date: 03/02/24
Cleanup Method: EPA 3660B
Cleanup Date: 03/02/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	54.6	4.85	1	A
Aroclor 1221	ND		ug/kg	54.6	5.48	1	A
Aroclor 1232	ND		ug/kg	54.6	11.6	1	A
Aroclor 1242	ND		ug/kg	54.6	7.37	1	A
Aroclor 1248	ND		ug/kg	54.6	8.20	1	A
Aroclor 1254	68.4		ug/kg	54.6	5.98	1	A
Aroclor 1260	22.6	J	ug/kg	54.6	10.1	1	A
Aroclor 1262	ND		ug/kg	54.6	6.94	1	A
Aroclor 1268	6.97	J	ug/kg	54.6	5.66	1	A
PCBs, Total	98.0	J	ug/kg	54.6	4.85	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-02
Client ID: DUP-022724
Sample Location: LONG ISLAND CITY, NY

Date Collected: 02/27/24 11:00
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/03/24 12:54
Analyst: EMR
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 02/29/24 21:04
Cleanup Method: EPA 3665A
Cleanup Date: 03/02/24
Cleanup Method: EPA 3660B
Cleanup Date: 03/02/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	54.6	4.85	1	A
Aroclor 1221	ND		ug/kg	54.6	5.47	1	A
Aroclor 1232	ND		ug/kg	54.6	11.6	1	A
Aroclor 1242	ND		ug/kg	54.6	7.36	1	A
Aroclor 1248	ND		ug/kg	54.6	8.19	1	A
Aroclor 1254	39.0	J	ug/kg	54.6	5.97	1	B
Aroclor 1260	11.4	J	ug/kg	54.6	10.1	1	B
Aroclor 1262	ND		ug/kg	54.6	6.93	1	A
Aroclor 1268	ND		ug/kg	54.6	5.66	1	A
PCBs, Total	50.4	J	ug/kg	54.6	4.85	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: FORMER PARAGON PAINT & VARNISH
Lab Number: L2410383
Project Number: 2051.0001Y002
Report Date: 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-03
Client ID: FIELD BLANK-022724
Sample Location: LONG ISLAND CITY, NY

Date Collected: 02/27/24 10:30
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:
Matrix: Field Blank
Analytical Method: 1,8082A
Analytical Date: 03/04/24 11:40
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 03/03/24 13:11
Cleanup Method: EPA 3665A
Cleanup Date: 03/03/24
Cleanup Method: EPA 3660B
Cleanup Date: 03/04/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	110		30-150	B

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/03/24 10:22
Analyst: EMR

Extraction Method: EPA 3546
Extraction Date: 02/29/24 21:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/02/24
Cleanup Method: EPA 3660B
Cleanup Date: 03/02/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1890882-1						
Aroclor 1016	ND		ug/kg	47.7	4.24	A
Aroclor 1221	ND		ug/kg	47.7	4.78	A
Aroclor 1232	ND		ug/kg	47.7	10.1	A
Aroclor 1242	ND		ug/kg	47.7	6.43	A
Aroclor 1248	ND		ug/kg	47.7	7.16	A
Aroclor 1254	ND		ug/kg	47.7	5.22	A
Aroclor 1260	ND		ug/kg	47.7	8.82	A
Aroclor 1262	ND		ug/kg	47.7	6.06	A
Aroclor 1268	ND		ug/kg	47.7	4.94	A
PCBs, Total	ND		ug/kg	47.7	4.24	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/04/24 11:11
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 03/03/24 13:11
Cleanup Method: EPA 3665A
Cleanup Date: 03/03/24
Cleanup Method: EPA 3660B
Cleanup Date: 03/04/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03 Batch: WG1891647-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	97		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1890882-2 WG1890882-3									
Aroclor 1016	80		83		40-140	4		50	A
Aroclor 1260	69		67		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		80		30-150	A
Decachlorobiphenyl	66		67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		83		30-150	B
Decachlorobiphenyl	69		71		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03 Batch: WG1891647-2 WG1891647-3									
Aroclor 1016	80		82		40-140	3		50	A
Aroclor 1260	78		82		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		76		30-150	A
Decachlorobiphenyl	100		103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		87		30-150	B
Decachlorobiphenyl	98		106		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1890882-4 WG1890882-5 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)													
Aroclor 1016	ND	344	195	57		225	68		40-140	14		50	A
Aroclor 1260	22.6J	344	204	59		220	67		40-140	8		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		61		30-150	A
Decachlorobiphenyl	50		58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		61		30-150	B
Decachlorobiphenyl	52		58		30-150	B

PESTICIDES

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-01
Client ID: BDS-1(0-2.5)
Sample Location: LONG ISLAND CITY, NY

Date Collected: 02/27/24 10:00
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/02/24 18:07
Analyst: EJL
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 02/29/24 19:47
Cleanup Method: EPA 3620B
Cleanup Date: 03/02/24
Cleanup Method: EPA 3660B
Cleanup Date: 03/02/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.338	1	A
Lindane	ND		ug/kg	0.718	0.321	1	A
Alpha-BHC	ND		ug/kg	0.718	0.204	1	A
Beta-BHC	ND		ug/kg	1.72	0.654	1	A
Heptachlor	ND		ug/kg	0.862	0.386	1	A
Aldrin	ND		ug/kg	1.72	0.607	1	A
Heptachlor epoxide	ND		ug/kg	3.23	0.970	1	A
Endrin	ND		ug/kg	0.718	0.294	1	A
Endrin aldehyde	ND		ug/kg	2.15	0.754	1	A
Endrin ketone	ND		ug/kg	1.72	0.444	1	A
Dieldrin	ND		ug/kg	1.08	0.539	1	A
4,4'-DDE	7.78		ug/kg	1.72	0.399	1	A
4,4'-DDD	8.11		ug/kg	1.72	0.615	1	B
4,4'-DDT	10.3	IP	ug/kg	1.72	1.39	1	A
Endosulfan I	ND		ug/kg	1.72	0.407	1	A
Endosulfan II	ND		ug/kg	1.72	0.576	1	A
Endosulfan sulfate	ND		ug/kg	0.718	0.342	1	A
Methoxychlor	ND		ug/kg	3.23	1.00	1	A
Toxaphene	ND		ug/kg	32.3	9.05	1	A
cis-Chlordane	3.85		ug/kg	2.15	0.600	1	A
trans-Chlordane	4.26	IP	ug/kg	2.15	0.569	1	B
Chlordane	40.6		ug/kg	14.4	5.71	1	B

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-01
Client ID: BDS-1(0-2.5)
Sample Location: LONG ISLAND CITY, NY

Date Collected: 02/27/24 10:00
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-02
Client ID: DUP-022724
Sample Location: LONG ISLAND CITY, NY

Date Collected: 02/27/24 11:00
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/02/24 18:19
Analyst: EJL
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 02/29/24 19:47
Cleanup Method: EPA 3620B
Cleanup Date: 03/02/24
Cleanup Method: EPA 3660B
Cleanup Date: 03/02/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.352	1	A
Lindane	ND		ug/kg	0.748	0.334	1	A
Alpha-BHC	ND		ug/kg	0.748	0.212	1	A
Beta-BHC	ND		ug/kg	1.80	0.681	1	A
Heptachlor	ND		ug/kg	0.898	0.403	1	A
Aldrin	ND		ug/kg	1.80	0.632	1	A
Heptachlor epoxide	ND		ug/kg	3.37	1.01	1	A
Endrin	ND		ug/kg	0.748	0.307	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.786	1	A
Endrin ketone	ND		ug/kg	1.80	0.462	1	A
Dieldrin	ND		ug/kg	1.12	0.561	1	A
4,4'-DDE	3.65		ug/kg	1.80	0.415	1	A
4,4'-DDD	3.32		ug/kg	1.80	0.641	1	A
4,4'-DDT	5.55	IP	ug/kg	1.80	1.44	1	A
Endosulfan I	ND		ug/kg	1.80	0.424	1	A
Endosulfan II	ND		ug/kg	1.80	0.600	1	A
Endosulfan sulfate	ND		ug/kg	0.748	0.356	1	A
Methoxychlor	ND		ug/kg	3.37	1.05	1	A
Toxaphene	ND		ug/kg	33.7	9.43	1	A
cis-Chlordane	2.53		ug/kg	2.24	0.626	1	A
trans-Chlordane	ND		ug/kg	2.24	0.593	1	A
Chlordane	35.2		ug/kg	15.0	5.95	1	A

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-02 Date Collected: 02/27/24 11:00

Client ID: DUP-022724 Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-03
Client ID: FIELD BLANK-022724
Sample Location: LONG ISLAND CITY, NY

Date Collected: 02/27/24 10:30
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:
Matrix: Field Blank
Analytical Method: 1,8081B
Analytical Date: 03/04/24 11:43
Analyst: MMG

Extraction Method: EPA 3510C
Extraction Date: 03/04/24 00:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-03 Date Collected: 02/27/24 10:30

Client ID: FIELD BLANK-022724 Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	39		30-150	B
Decachlorobiphenyl	46		30-150	B

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/29/24 15:56
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 02/29/24 04:44
Cleanup Method: EPA 3620B
Cleanup Date: 02/29/24
Cleanup Method: EPA 3660B
Cleanup Date: 02/29/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1890520-1						
Delta-BHC	ND		ug/kg	1.55	0.304	A
Lindane	ND		ug/kg	0.646	0.289	A
Alpha-BHC	ND		ug/kg	0.646	0.183	A
Beta-BHC	ND		ug/kg	1.55	0.588	A
Heptachlor	ND		ug/kg	0.775	0.348	A
Aldrin	ND		ug/kg	1.55	0.546	A
Heptachlor epoxide	ND		ug/kg	2.91	0.872	A
Endrin	ND		ug/kg	0.646	0.265	A
Endrin aldehyde	ND		ug/kg	1.94	0.678	A
Endrin ketone	ND		ug/kg	1.55	0.399	A
Dieldrin	ND		ug/kg	0.969	0.484	A
4,4'-DDE	ND		ug/kg	1.55	0.358	A
4,4'-DDD	ND		ug/kg	1.55	0.553	A
4,4'-DDT	ND		ug/kg	1.55	1.25	A
Endosulfan I	ND		ug/kg	1.55	0.366	A
Endosulfan II	ND		ug/kg	1.55	0.518	A
Endosulfan sulfate	ND		ug/kg	0.646	0.307	A
Methoxychlor	ND		ug/kg	2.91	0.904	A
Toxaphene	ND		ug/kg	29.1	8.14	A
cis-Chlordane	ND		ug/kg	1.94	0.540	A
trans-Chlordane	ND		ug/kg	1.94	0.512	A
Chlordane	ND		ug/kg	12.9	5.14	A

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/29/24 15:56
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 02/29/24 04:44
Cleanup Method: EPA 3620B
Cleanup Date: 02/29/24
Cleanup Method: EPA 3660B
Cleanup Date: 02/29/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1890520-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	96		30-150	B

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/04/24 09:27
Analyst: MMG

Extraction Method: EPA 3510C
Extraction Date: 03/03/24 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1891571-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/04/24 09:27
Analyst: MMG

Extraction Method: EPA 3510C
Extraction Date: 03/03/24 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1891571-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	64		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1890520-2 WG1890520-3									
Delta-BHC	98		92		30-150	6		30	A
Lindane	98		89		30-150	10		30	A
Alpha-BHC	95		85		30-150	11		30	A
Beta-BHC	105		98		30-150	7		30	A
Heptachlor	98		89		30-150	10		30	A
Aldrin	100		91		30-150	9		30	A
Heptachlor epoxide	93		87		30-150	7		30	A
Endrin	101		94		30-150	7		30	A
Endrin aldehyde	86		83		30-150	4		30	A
Endrin ketone	123		117		30-150	5		30	A
Dieldrin	107		100		30-150	7		30	A
4,4'-DDE	103		96		30-150	7		30	A
4,4'-DDD	101		94		30-150	7		30	A
4,4'-DDT	95		90		30-150	5		30	A
Endosulfan I	97		90		30-150	7		30	A
Endosulfan II	100		95		30-150	5		30	A
Endosulfan sulfate	111		105		30-150	6		30	A
Methoxychlor	110		107		30-150	3		30	A
cis-Chlordane	95		88		30-150	8		30	A
trans-Chlordane	116		109		30-150	6		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1890520-2 WG1890520-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		74		30-150	A
Decachlorobiphenyl	103		100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		79		30-150	B
Decachlorobiphenyl	98		94		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1891571-2 WG1891571-3									
Delta-BHC	57		58		30-150	2		20	A
Lindane	62		62		30-150	0		20	A
Alpha-BHC	63		61		30-150	3		20	A
Beta-BHC	71		71		30-150	0		20	A
Heptachlor	77		78		30-150	0		20	A
Aldrin	61		62		30-150	2		20	A
Heptachlor epoxide	71		72		30-150	1		20	A
Endrin	67		68		30-150	2		20	A
Endrin aldehyde	61		66		30-150	8		20	A
Endrin ketone	73		72		30-150	2		20	A
Dieldrin	69		71		30-150	2		20	A
4,4'-DDE	61		63		30-150	3		20	A
4,4'-DDD	69		72		30-150	4		20	A
4,4'-DDT	76		77		30-150	1		20	A
Endosulfan I	68		70		30-150	3		20	A
Endosulfan II	68		69		30-150	1		20	A
Endosulfan sulfate	63		66		30-150	4		20	A
Methoxychlor	96		99		30-150	3		20	A
cis-Chlordane	64		68		30-150	7		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1891571-2 WG1891571-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		51		30-150	A
Decachlorobiphenyl	53		72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	44		48		30-150	B
Decachlorobiphenyl	53		61		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002

Lab Number: L2410383
Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1891571-2 WG1891571-3									
trans-Chlordane	63		64		30-150	1		20	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		51		30-150	A
Decachlorobiphenyl	53		72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	44		48		30-150	B
Decachlorobiphenyl	53		61		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1890520-4 WG1890520-5 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)													
Delta-BHC	ND	36.6	29.7	81		28.0	76		30-150	6		50	A
Lindane	ND	36.6	30.9	85		31.0	84		30-150	0		50	A
Alpha-BHC	ND	36.6	32.7	89		33.6	92		30-150	3		50	A
Beta-BHC	ND	36.6	29.2	80		27.2	74		30-150	7		50	A
Heptachlor	ND	36.6	31.5	86		32.1	87		30-150	2		50	A
Aldrin	ND	36.6	30.9	85		31.2	85		30-150	1		50	A
Heptachlor epoxide	ND	36.6	31.0	85		31.1	85		30-150	0		50	A
Endrin	ND	36.6	31.8	87		33.0	90		30-150	4		50	A
Endrin aldehyde	ND	36.6	32.0	88		26.2	71		30-150	20		50	A
Endrin ketone	ND	36.6	34.9	95		32.5	89		30-150	7		50	A
Dieldrin	ND	36.6	35.5	97		36.0	98		30-150	1		50	A
4,4'-DDE	7.78	36.6	38.2	83		39.3	86		30-150	3		50	A
4,4'-DDD	8.11	36.6	61.8	147		37.3	80		30-150	49		50	B
4,4'-DDT	10.3IP	36.6	37.8	75		36.5	71		30-150	3		50	A
Endosulfan I	ND	36.6	30.1	82		30.7	84		30-150	2		50	A
Endosulfan II	ND	36.6	29.8	82		29.4	80		30-150	1		50	A
Endosulfan sulfate	ND	36.6	31.6	86		28.9	79		30-150	9		50	A
Methoxychlor	ND	36.6	37.1	101		36.7	100		30-150	1		50	A
cis-Chlordane	3.85	36.6	32.0	77		32.4	78		30-150	1		50	A
trans-Chlordane	4.26IP	36.6	39.8	97		39.1	95		30-150	2		50	B

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1890520-4 WG1890520-5 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		79		30-150	A
Decachlorobiphenyl	90		91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		84		30-150	B
Decachlorobiphenyl	85		86		30-150	B

METALS

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-01 Date Collected: 02/27/24 10:00

Client ID: BDS-1(0-2.5) Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5700		mg/kg	110	16.	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Antimony, Total	5.3		mg/kg	1.8	0.15	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Arsenic, Total	4.6		mg/kg	0.55	0.07	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Barium, Total	140		mg/kg	3.3	0.23	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Beryllium, Total	0.27	J	mg/kg	0.33	0.10	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Cadmium, Total	1.7		mg/kg	0.22	0.03	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Calcium, Total	27000		mg/kg	5500	670	100	03/01/24 07:15	03/05/24 15:04	EPA 3050B	1,6020B	EJF
Chromium, Total	22		mg/kg	2.2	0.51	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Cobalt, Total	4.8		mg/kg	0.55	0.06	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Copper, Total	3600		mg/kg	2.2	0.21	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Iron, Total	15000		mg/kg	220	22.	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Lead, Total	1100		mg/kg	0.66	0.16	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Magnesium, Total	4400		mg/kg	110	14.	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Manganese, Total	220		mg/kg	2.2	0.49	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Mercury, Total	0.548		mg/kg	0.072	0.047	1	03/01/24 08:45	03/01/24 10:21	EPA 7471B	1,7471B	GMG
Nickel, Total	35		mg/kg	1.1	0.29	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Potassium, Total	980		mg/kg	110	17.	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Selenium, Total	1.3	J	mg/kg	2.2	0.83	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Silver, Total	1.2		mg/kg	0.55	0.05	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Sodium, Total	280		mg/kg	160	13.	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Thallium, Total	0.13	J	mg/kg	0.44	0.06	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Vanadium, Total	18		mg/kg	1.1	0.42	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
Zinc, Total	1300		mg/kg	11	2.8	10	03/01/24 07:15	03/05/24 14:40	EPA 3050B	1,6020B	EJF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	22.0		mg/kg	2.20	0.510	1		03/05/24 14:40	NA	107,-	

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-02 Date Collected: 02/27/24 11:00

Client ID: DUP-022724 Date Received: 02/27/24

Sample Location: LONG ISLAND CITY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6400		mg/kg	110	16.	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Antimony, Total	1.8		mg/kg	1.7	0.15	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Arsenic, Total	6.8		mg/kg	0.54	0.07	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Barium, Total	160		mg/kg	3.2	0.23	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Beryllium, Total	0.36		mg/kg	0.32	0.09	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Cadmium, Total	2.8		mg/kg	0.22	0.03	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Calcium, Total	23000		mg/kg	540	66.	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Chromium, Total	33		mg/kg	2.2	0.51	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Cobalt, Total	7.6		mg/kg	0.54	0.06	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Copper, Total	2800		mg/kg	2.2	0.21	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Iron, Total	39000		mg/kg	2200	220	100	03/01/24 07:15	03/05/24 17:42	EPA 3050B	1,6020B	EJF
Lead, Total	520		mg/kg	0.65	0.16	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Magnesium, Total	4400		mg/kg	110	13.	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Manganese, Total	340		mg/kg	2.2	0.48	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Mercury, Total	0.473		mg/kg	0.071	0.046	1	03/01/24 08:45	03/05/24 11:32	EPA 7471B	1,7471B	GMG
Nickel, Total	34		mg/kg	1.1	0.29	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Potassium, Total	1100		mg/kg	110	17.	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Selenium, Total	1.4	J	mg/kg	2.2	0.82	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Silver, Total	0.52	J	mg/kg	0.54	0.05	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Sodium, Total	370		mg/kg	160	13.	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Thallium, Total	0.10	J	mg/kg	0.43	0.06	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Vanadium, Total	26		mg/kg	1.1	0.41	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
Zinc, Total	2200		mg/kg	11	2.8	10	03/01/24 07:15	03/05/24 14:49	EPA 3050B	1,6020B	EJF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	33.0		mg/kg	2.20	0.510	1		03/05/24 14:49	NA	107,-	

Project Name: FORMER PARAGON PAINT & VARNISH
Lab Number: L2410383
Project Number: 2051.0001Y002
Report Date: 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-03
Client ID: FIELD BLANK-022724
Sample Location: LONG ISLAND CITY, NY
Date Collected: 02/27/24 10:30
Date Received: 02/27/24
Field Prep: Not Specified

Sample Depth:
Matrix: Field Blank

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Barium, Total	0.00030	J	mg/l	0.00050	0.00017	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Calcium, Total	ND		mg/l	0.100	0.0394	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00036	J	mg/l	0.00100	0.00017	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Copper, Total	ND		mg/l	0.00100	0.00038	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Iron, Total	ND		mg/l	0.0500	0.0191	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Manganese, Total	0.00849		mg/l	0.00100	0.00044	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/02/24 19:00	03/04/24 09:48	EPA 7470A	1,7470A	MJR
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Potassium, Total	ND		mg/l	0.100	0.0309	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Sodium, Total	ND		mg/l	0.100	0.0293	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
Zinc, Total	ND		mg/l	0.01000	0.00341	1	03/02/24 18:30	03/03/24 16:15	EPA 3005A	1,6020B	WKP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.003	1		03/03/24 16:15	NA	107,-	

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1890975-1										
Aluminum, Total	ND		mg/kg	100	15.	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Antimony, Total	ND		mg/kg	1.6	0.14	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Arsenic, Total	ND		mg/kg	0.50	0.07	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Barium, Total	ND		mg/kg	3.0	0.21	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Beryllium, Total	ND		mg/kg	0.30	0.09	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Cadmium, Total	ND		mg/kg	0.20	0.03	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Calcium, Total	ND		mg/kg	500	61.	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Chromium, Total	ND		mg/kg	2.0	0.47	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Cobalt, Total	ND		mg/kg	0.50	0.05	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Copper, Total	ND		mg/kg	2.0	0.19	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Iron, Total	ND		mg/kg	200	21.	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Lead, Total	ND		mg/kg	0.60	0.15	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Magnesium, Total	ND		mg/kg	100	12.	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Manganese, Total	ND		mg/kg	2.0	0.44	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Nickel, Total	ND		mg/kg	1.0	0.27	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Potassium, Total	ND		mg/kg	100	16.	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Selenium, Total	ND		mg/kg	2.0	0.76	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Silver, Total	ND		mg/kg	0.50	0.05	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Sodium, Total	ND		mg/kg	150	12.	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Thallium, Total	ND		mg/kg	0.40	0.05	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Vanadium, Total	ND		mg/kg	1.0	0.38	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF
Zinc, Total	ND		mg/kg	10	2.6	10	03/01/24 07:15	03/05/24 13:55	1,6020B	EJF

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1890976-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	03/01/24 08:45	03/01/24 10:06	1,7471B	GMG

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03 Batch: WG1891030-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Barium, Total	ND		mg/l	0.00050	0.00017	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Calcium, Total	ND		mg/l	0.100	0.0394	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Chromium, Total	ND		mg/l	0.00100	0.00017	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Copper, Total	ND		mg/l	0.00100	0.00038	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Iron, Total	ND		mg/l	0.0500	0.0191	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Manganese, Total	ND		mg/l	0.00100	0.00044	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Potassium, Total	ND		mg/l	0.100	0.0309	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Sodium, Total	ND		mg/l	0.100	0.0293	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP
Zinc, Total	ND		mg/l	0.01000	0.00341	1	03/02/24 18:30	03/03/24 16:10	1,6020B	WKP

Prep Information

Digestion Method: EPA 3005A

Project Name: FORMER PARAGON PAINT & VARNISH **Lab Number:** L2410383

Project Number: 2051.0001Y002 **Report Date:** 03/05/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03 Batch: WG1891032-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/02/24 19:00	03/04/24 09:42	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1890975-2 SRM Lot Number: D123-540								
Aluminum, Total	74		-		53-147	-		20
Antimony, Total	142		-		2-201	-		20
Arsenic, Total	103		-		82-118	-		20
Barium, Total	99		-		82-118	-		20
Beryllium, Total	95		-		83-117	-		20
Cadmium, Total	99		-		83-118	-		20
Calcium, Total	100		-		82-118	-		20
Chromium, Total	100		-		81-118	-		20
Cobalt, Total	102		-		83-117	-		20
Copper, Total	117		-		83-117	-		20
Iron, Total	97		-		58-142	-		20
Lead, Total	108		-		82-119	-		20
Magnesium, Total	94		-		75-124	-		20
Manganese, Total	102		-		81-119	-		20
Nickel, Total	99		-		82-118	-		20
Potassium, Total	80		-		72-128	-		20
Selenium, Total	109		-		81-119	-		20
Silver, Total	97		-		79-120	-		20
Sodium, Total	96		-		74-126	-		20
Thallium, Total	98		-		81-120	-		20
Vanadium, Total	97		-		78-122	-		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1890975-2 SRM Lot Number: D123-540					
Zinc, Total	114	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1890976-2 SRM Lot Number: D123-540					
Mercury, Total	93	-	67-132	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1891030-2					
Aluminum, Total	95	-	80-120	-	
Antimony, Total	88	-	80-120	-	
Arsenic, Total	102	-	80-120	-	
Barium, Total	104	-	80-120	-	
Beryllium, Total	110	-	80-120	-	
Cadmium, Total	107	-	80-120	-	
Calcium, Total	96	-	80-120	-	
Chromium, Total	103	-	80-120	-	
Cobalt, Total	102	-	80-120	-	
Copper, Total	98	-	80-120	-	
Iron, Total	103	-	80-120	-	
Lead, Total	107	-	80-120	-	
Magnesium, Total	97	-	80-120	-	
Manganese, Total	104	-	80-120	-	
Nickel, Total	99	-	80-120	-	
Potassium, Total	100	-	80-120	-	
Selenium, Total	105	-	80-120	-	
Silver, Total	103	-	80-120	-	
Sodium, Total	100	-	80-120	-	
Thallium, Total	104	-	80-120	-	
Vanadium, Total	96	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1891030-2					
Zinc, Total	102	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1891032-2					
Mercury, Total	93	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002

Lab Number: L2410383
Report Date: 03/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1890975-3 WG1890975-4 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)												
Aluminum, Total	5700	178	6800	**617**	Q	7200	**844**	Q	75-125	6		20
Antimony, Total	5.3	44.5	42	82		42	82		75-125	0		20
Arsenic, Total	4.6	10.7	16	107		17	116		75-125	6		20
Barium, Total	140	178	370	**129**	Q	360	124		75-125	3		20
Beryllium, Total	0.27J	4.45	5.1	114		5.0	112		75-125	2		20
Cadmium, Total	1.7	4.72	6.0	91		6.6	104		75-125	10		20
Calcium, Total	27000	891	27000	112		26000	**0**	Q	75-125	4		20
Chromium, Total	22	17.8	51	**163**	Q	42	112		75-125	19		20
Cobalt, Total	4.8	44.5	50	101		53	108		75-125	6		20
Copper, Total	3600	22.3	480	**0**	Q	540	**0**	Q	75-125	12		20
Iron, Total	15000	89.1	40000	**28100**	Q	31000	**18000**	Q	75-125	**25**	Q	20
Lead, Total	1100	47.2	310	**0**	Q	330	**0**	Q	75-125	6		20
Magnesium, Total	4400	891	5500	123		5200	90		75-125	6		20
Manganese, Total	220	44.5	380	**359**	Q	370	**338**	Q	75-125	3		20
Nickel, Total	35	44.5	67	**72**	Q	68	**74**	Q	75-125	1		20
Potassium, Total	980	891	2000	114		2100	**126**	Q	75-125	5		20
Selenium, Total	1.3J	10.7	11	103		12	112		75-125	9		20
Silver, Total	1.2	4.45	4.7	78		4.8	81		75-125	2		20
Sodium, Total	280	891	1200	103		1200	104		75-125	0		20
Thallium, Total	0.13J	10.7	9.8	92		9.8	92		75-125	0		20
Vanadium, Total	18	44.5	68	112		83	**146**	Q	75-125	20		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002

Lab Number: L2410383
Report Date: 03/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1890975-3 WG1890975-4 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)											
Zinc, Total	1300	44.5	950	**0**	Q	960	**0**	Q	75-125	1	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1890976-3 WG1890976-4 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)											
Mercury, Total	0.548	1.42	2.70	**152**	Q	2.26	120		80-120	18	20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002

Lab Number: L2410383
Report Date: 03/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1891030-3 QC Sample: L2411045-01 Client ID: MS Sample										
Aluminum, Total	4.51	2	6.31	90		-	-	75-125	-	20
Antimony, Total	0.0084J	0.5	0.2532	**51**	Q	-	-	75-125	-	20
Arsenic, Total	0.03682	0.12	0.1454	90		-	-	75-125	-	20
Barium, Total	0.2165	2	2.210	100		-	-	75-125	-	20
Beryllium, Total	0.0007J	0.05	0.05428	108		-	-	75-125	-	20
Cadmium, Total	0.00444	0.053	0.05879	102		-	-	75-125	-	20
Calcium, Total	999	10	932	**0**	Q	-	-	75-125	-	20
Chromium, Total	0.02497	0.2	0.2230	99		-	-	75-125	-	20
Cobalt, Total	0.08175	0.5	0.5619	96		-	-	75-125	-	20
Copper, Total	0.05541	0.25	0.2628	83		-	-	75-125	-	20
Iron, Total	4.93	1	6.18	125		-	-	75-125	-	20
Lead, Total	0.9280	0.53	1.448	98		-	-	75-125	-	20
Magnesium, Total	2.97	10	12.1	91		-	-	75-125	-	20
Manganese, Total	0.1597	0.5	0.6561	99		-	-	75-125	-	20
Nickel, Total	0.2330	0.5	0.6892	91		-	-	75-125	-	20
Potassium, Total	233	10	228	**0**	Q	-	-	75-125	-	20
Selenium, Total	0.0492	0.12	0.0954	**38**	Q	-	-	75-125	-	20
Silver, Total	ND	0.05	0.03352	**67**	Q	-	-	75-125	-	20
Sodium, Total	604	10	558	**0**	Q	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1070	89		-	-	75-125	-	20
Vanadium, Total	0.0502	0.5	0.5183	94		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002

Lab Number: L2410383
Report Date: 03/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1891030-3 QC Sample: L2411045-01 Client ID: MS Sample									
Zinc, Total	0.08938	0.5	0.5620	94	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1891032-3 QC Sample: L2410383-03 Client ID: FIELD BLANK-022724									
Mercury, Total	ND	0.005	0.00421	84	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1891030-4 QC Sample: L2411045-01 Client ID: DUP Sample						
Aluminum, Total	4.51	4.98	mg/l	10		20
Arsenic, Total	0.03682	0.03834	mg/l	4		20
Barium, Total	0.2165	0.2043	mg/l	6		20
Cadmium, Total	0.00444	0.00583	mg/l	**27**	Q	20
Chromium, Total	0.02497	0.02717	mg/l	8		20
Cobalt, Total	0.08175	0.08226	mg/l	1		20
Copper, Total	0.05541	0.09218	mg/l	**50**	Q	20
Iron, Total	4.93	5.60	mg/l	13		20
Lead, Total	0.9280	0.9056	mg/l	2		20
Nickel, Total	0.2330	0.2480	mg/l	6		20
Selenium, Total	0.0492	0.0446	mg/l	10		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.08938	0.1078	mg/l	19		20
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1891032-4 QC Sample: L2410383-03 Client ID: FIELD BLANK-022724						
Mercury, Total	ND	ND	mg/l	NC		20

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2410383
Report Date: 03/05/24

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1890975-6 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)						
Aluminum, Total	5700	6200	mg/kg	9		20
Barium, Total	140	140	mg/kg	0		20
Copper, Total	3600	3700	mg/kg	3		20
Iron, Total	15000	15000	mg/kg	0		20
Lead, Total	1100	1100	mg/kg	0		20
Magnesium, Total	4400	4700	mg/kg	7		20
Manganese, Total	220	230	mg/kg	5		20
Nickel, Total	35	36	mg/kg	3		20
Zinc, Total	1300	1400	mg/kg	8		20
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1891030-6 QC Sample: L2411045-01 Client ID: DUP Sample						
Aluminum, Total	4.51	4.47	mg/l	1		20
Barium, Total	0.2165	0.2028	mg/l	6		20
Cobalt, Total	0.08175	0.08686	mg/l	6		20
Lead, Total	0.9280	0.9057	mg/l	2		20

INORGANICS
&
MISCELLANEOUS

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-01
Client ID: BDS-1(0-2.5)
Sample Location: LONG ISLAND CITY, NY
Sample Depth:
Matrix: Soil
Date Collected: 02/27/24 10:00
Date Received: 02/27/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.4		%	0.100	NA	1	-	02/28/24 08:21	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	02/29/24 08:50	02/29/24 12:27	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	0.905	0.181	1	03/03/24 06:50	03/04/24 09:18	1,7196A	DTH

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-02
Client ID: DUP-022724
Sample Location: LONG ISLAND CITY, NY
Sample Depth:
Matrix: Soil

Date Collected: 02/27/24 11:00
Date Received: 02/27/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.9		%	0.100	NA	1	-	02/28/24 08:21	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	02/29/24 08:50	02/29/24 12:33	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	0.900	0.180	1	03/03/24 06:50	03/04/24 09:18	1,7196A	DTH

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

SAMPLE RESULTS

Lab ID: L2410383-03
Client ID: FIELD BLANK-022724
Sample Location: LONG ISLAND CITY, NY
Sample Depth:
Matrix: Field Blank

Date Collected: 02/27/24 10:30
Date Received: 02/27/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/03/24 12:45	03/04/24 11:43	1,9010C/9012B	JER
Chromium, Hexavalent	0.006	J	mg/l	0.010	0.003	1	02/28/24 04:00	02/28/24 04:52	1,7196A	CAR

Project Name: FORMER PARAGON PAINT & VARNIS
Project Number: 2051.0001Y002
Lab Number: L2410383
Report Date: 03/05/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1890017-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	02/28/24 04:00	02/28/24 04:51	1,7196A	CAR
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1890558-1										
Cyanide, Total	ND		mg/kg	0.89	0.19	1	02/29/24 08:50	02/29/24 12:47	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1891575-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/03/24 12:45	03/04/24 11:36	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1891578-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/03/24 06:50	03/04/24 09:18	1,7196A	DTH

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1890017-2								
Chromium, Hexavalent	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1890558-2 WG1890558-3								
Cyanide, Total	**79**	Q	**78**	Q	80-120	2		35
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1891575-2 WG1891575-3								
Cyanide, Total	94		97		85-115	3		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1891578-2								
Chromium, Hexavalent	102		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002

Lab Number: L2410383
Report Date: 03/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1890017-4 QC Sample: L2410383-03 Client ID: FIELD BLANK-022724												
Chromium, Hexavalent	0.006J	0.1	0.102	102		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1890558-4 WG1890558-5 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)												
Cyanide, Total	ND	11	11	100		10	92		75-125	10		35
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1891575-4 WG1891575-5 QC Sample: L2410492-02 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.222	111		0.196	98		80-120	12		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1891578-5 WG1891578-6 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)												
Chromium, Hexavalent	ND	1300	1120	86		1500	89		75-125	3		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: FORMER PARAGON PAINT & VARNISH

Project Number: 2051.0001Y002

Lab Number: L2410383

Report Date: 03/05/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1890017-3 QC Sample: L2410383-03 Client ID: FIELD BLANK-022724						
Chromium, Hexavalent	0.006J	0.005J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1890113-1 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)						
Solids, Total	88.4	89.5	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1891578-4 QC Sample: L2410383-01 Client ID: BDS-1(0-2.5)						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002

Lab Number: L2410383
Report Date: 03/05/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2410383-01A	5 gram Encore Sampler	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2410383-01A1	5 gram Encore Sampler	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2410383-01A2	5 gram Encore Sampler	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2410383-01B	5 gram Encore Sampler	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2410383-01B1	5 gram Encore Sampler	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2410383-01B2	5 gram Encore Sampler	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2410383-01C	5 gram Encore Sampler	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2410383-01C1	5 gram Encore Sampler	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2410383-01C2	5 gram Encore Sampler	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2410383-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		FE-6020T(180),BA-6020T(180),SE-6020T(180),TL-6020T(180),NI-6020T(180),K-6020T(180),CA-6020T(180),CR-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),CO-6020T(180)
L2410383-01D1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		FE-6020T(180),BA-6020T(180),SE-6020T(180),TL-6020T(180),NI-6020T(180),K-6020T(180),CA-6020T(180),CR-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002

Lab Number: L2410383
Report Date: 03/05/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2410383-01D2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		FE-6020T(180),BA-6020T(180),SE-6020T(180),TL-6020T(180),NI-6020T(180),K-6020T(180),CA-6020T(180),CR-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),CO-6020T(180)
L2410383-01E	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2410383-01E1	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2410383-01E2	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2410383-01F	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2410383-01F1	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2410383-01F2	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2410383-01G	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2410383-01G1	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2410383-01G2	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2410383-01H	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2410383-01H1	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2410383-01H2	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2410383-01X	Vial MeOH preserved split	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2410383-01X1	Vial MeOH preserved split	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2410383-01X2	Vial MeOH preserved split	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2410383-01Y	Vial Water preserved split	A	NA		4.1	Y	Absent	28-FEB-24 06:36	NYTCL-8260HLW(14)
L2410383-01Y1	Vial Water preserved split	A	NA		4.1	Y	Absent	28-FEB-24 06:36	NYTCL-8260HLW(14)
L2410383-01Y2	Vial Water preserved split	A	NA		4.1	Y	Absent	28-FEB-24 06:36	NYTCL-8260HLW(14)
L2410383-01Z	Vial Water preserved split	A	NA		4.1	Y	Absent	28-FEB-24 06:36	NYTCL-8260HLW(14)
L2410383-01Z1	Vial Water preserved split	A	NA		4.1	Y	Absent	28-FEB-24 06:36	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002

Lab Number: L2410383
Report Date: 03/05/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2410383-01Z2	Vial Water preserved split	A	NA		4.1	Y	Absent	28-FEB-24 06:36	NYTCL-8260HLW(14)
L2410383-02A	5 gram Encore Sampler	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2410383-02B	5 gram Encore Sampler	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2410383-02C	5 gram Encore Sampler	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2410383-02D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		FE-6020T(180),SE-6020T(180),BA-6020T(180),TL-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),MG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),CO-6020T(180)
L2410383-02E	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2410383-02F	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2410383-02G	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2410383-02H	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2410383-02X	Vial MeOH preserved split	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2410383-02Y	Vial Water preserved split	A	NA		4.1	Y	Absent	28-FEB-24 06:36	NYTCL-8260HLW(14)
L2410383-02Z	Vial Water preserved split	A	NA		4.1	Y	Absent	28-FEB-24 06:36	NYTCL-8260HLW(14)
L2410383-03A	Vial HCl preserved	B	NA		3.5	Y	Absent		NYTCL-8260(14)
L2410383-03B	Vial HCl preserved	B	NA		3.5	Y	Absent		NYTCL-8260(14)
L2410383-03C	Vial HCl preserved	B	NA		3.5	Y	Absent		NYTCL-8260(14)
L2410383-03D	Amber 120ml unpreserved	B	7	7	3.5	Y	Absent		NYTCL-8081(7)
L2410383-03E	Amber 120ml unpreserved	B	7	7	3.5	Y	Absent		NYTCL-8081(7)
L2410383-03F	Amber 120ml unpreserved	B	7	7	3.5	Y	Absent		NYTCL-8082-LVI(365)
L2410383-03G	Amber 120ml unpreserved	B	7	7	3.5	Y	Absent		NYTCL-8082-LVI(365)
L2410383-03H	Plastic 250ml NaOH preserved	B	>12	>12	3.5	Y	Absent		TCN-9010(14)
L2410383-03J	Amber 250ml unpreserved	B	7	7	3.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2410383-03K	Amber 250ml unpreserved	B	7	7	3.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days

Project Name: FORMER PARAGON PAINT & VARNISH
Project Number: 2051.0001Y002

Lab Number: L2410383
Report Date: 03/05/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2410383-03L	Plastic 250ml HNO3 preserved	B	<2	<2	3.5	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),MG-6020T(180),HG-T(28),CD-6020T(180),CO-6020T(180)
L2410383-03M	Amber 500ml unpreserved	B	7	7	3.5	Y	Absent		HOLD-WETCHEM()
L2410383-03N	Plastic 950ml unpreserved	B	7	7	3.5	Y	Absent		HEXCR-7196(1)
L2410383-03O	Amber 1000ml unpreserved	B	7	7	3.5	Y	Absent		HOLD-8151(7)
L2410383-03P	Amber 1000ml unpreserved	B	7	7	3.5	Y	Absent		HOLD-8151(7)
L2410383-03Q	Amber 1000ml HCl preserved	B	<2	<2	3.5	Y	Absent		HOLD-EPH(14)
L2410383-03R	Amber 1000ml HCl preserved	B	<2	<2	3.5	Y	Absent		HOLD-EPH(14)
L2410383-04A	Vial HCl preserved	B	NA		3.5	Y	Absent		NYTCL-8260(14)
L2410383-04B	Vial HCl preserved	B	NA		3.5	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	FORMER PARAGON PAINT & VARNISH	**Lab Number:**	L2410383
Project Number:	2051.0001Y002	**Report Date:**	03/05/24

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:	FORMER PARAGON PAINT & VARNISH	**Lab Number:**	L2410383
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Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER PARAGON PAINT & VARNISH	**Lab Number:**	L2410383
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Data Qualifiers

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

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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.)

Project Name:	FORMER PARAGON PAINT & VARNISH	**Lab Number:**	L2410383
Project Number:	2051.0001Y002	**Report Date:**	03/05/24

REFERENCES

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

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 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 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 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).
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

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Page 1 of 1

Date Rec'd in Lab: 2/27/24

ALPHA Job #: L2410383

Client Information

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Project Information

Project Name: FORMER PARAGON PAINT AND VARNISH
Project Location: LONG ISLAND CITY, NY
Project # 2051.0001Y002
(Use Project name as Project #) ☐
Project Manager: CHRISTIAN HOELZLI
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

Billing Information

☒ Same as Client Info
PO #

Regulatory Requirement

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

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.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs + TICs (8260)	SVOCs + TICs (8270)	TAL METALS (6010B)	PESTICIDES (8081)	PCBs	MERCURY	HEX CHROMIUM	TOTAL CYANIDE	REACTIVITY	IGNITABILITY	CORROSIVITY (pH)	TRIVALENT CHROMIUM	Sample Specific Comments	Total Bottles
10383-01	BDS-1 (0-2.5)	2-27-24	1000	S	AF	X	X	X	X	X	X	X					X	MS / MSD	24
02	DUP-022724	2-27-24	1100	S	AF	X	X	X	X	X	X	X					X	DUP	8
03	FIELD BLANK-022724	2-27-24	1030	FB	AF	X	X	X	X	X	X	X					X	FIELD BLANK	17
04	TRIP BLANK	2-26-24	—	LAB	KC	X													2

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

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
ROUX	2/27/24 1723	PACE	2/27/24 1723
PACE	2/27/24 1723	Paul Mazzella	2/27/24 1723
Paul Mazzella	2/27/24 2324		2/27/24 2116
	2/27/24 2324		2/27/24 2320

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)

Photograph 1: Condition of driveway looking north

Photograph 2: Conditions of warehouse looking south

Photograph 3: Condition of paint factory and garage looking east

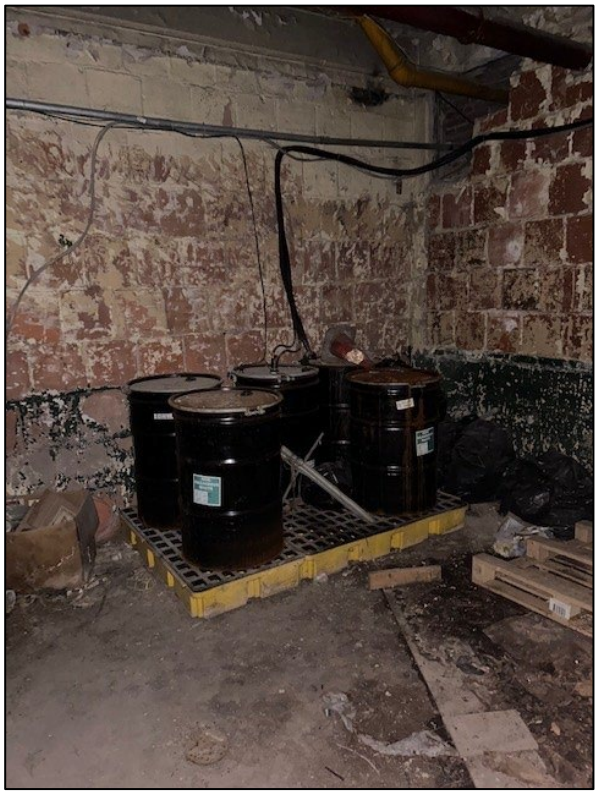
Photograph 4: Condition of warehouse and garage looking south

Photograph 5: Condition of courtyard looking northwest

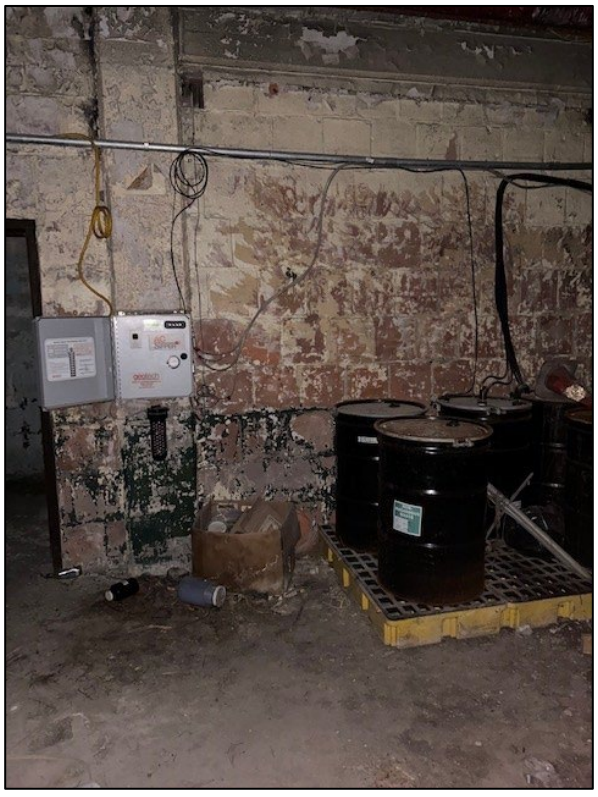
Photograph 6: Condition of courtyard looking north

Photograph 7: View of Anable Basin and condition of bulkhead looking west

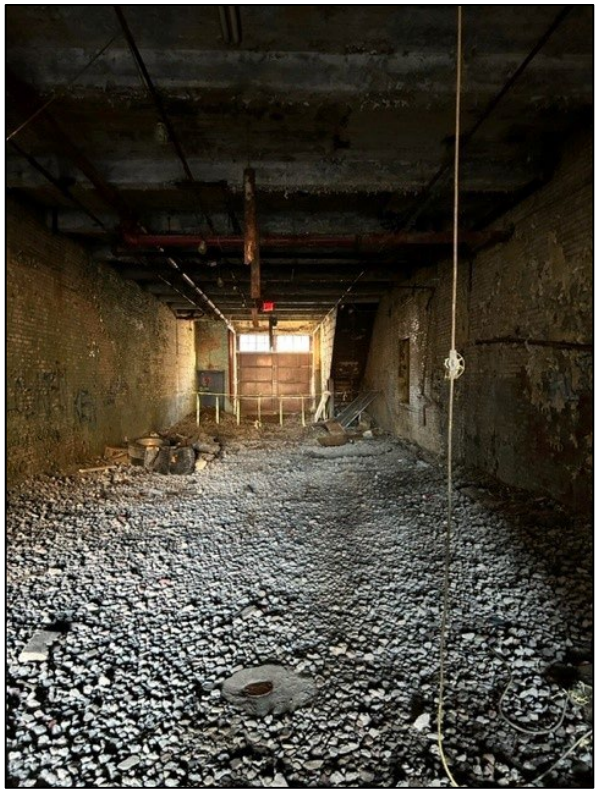
Photograph 8: View of Anable Basin and condition of bulkhead looking north



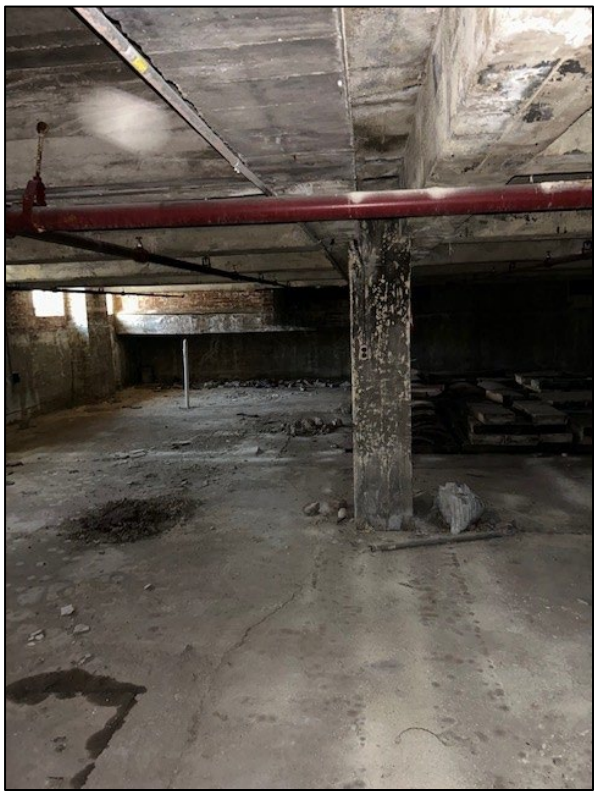
Photograph 9: Designated drum storage area with secondary containment pad



Photograph 10: Geotech AC Sipper control panel



Photograph 11: Condition of warehouse garage



Photograph 12: Condition of warehouse basement

Photograph 13: RCA cap disturbance observed in garage

Photograph 14: RCA cap disturbance in garage covered with 2' of clean stone on April 18, 2024.

APPENDIX C

Groundwater Monitoring Results

Notes Utilized Throughout Tables	
Groundwater Tables	
J -	Estimated Value
J+ -	Estimated value, high bias
J- -	Estimated value, low bias
U -	Compound was analyzed for but not detected
UJ -	Analyte was not detected. The associated reported quantitation limit is an estimate
R -	Sample results rejected by validator
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
FD -	Duplicate
ND -	No detections
µg/L -	Micrograms per liter
ng/L -	Nanogram per liter
NYSDEC -	New York State Department of Environmental Conservation
AWQSGVs -	Ambient Water-Quality Standards and Guidance Values
--	No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs	

Appendix C.1. Summary of Volatile Organic Compounds in Groundwater, 46th Avenue Vernon Boulevard, Long Island City, New York

			Sample Designation:	MW-3	MW-4	MW-7	MW-10	MW-11	MW-21	MW-40	MW-41
			Sample Date:	08/17/2023	08/17/2023	08/17/2023	08/17/2023	08/17/2023	08/17/2023	08/17/2023	08/17/2023
			Normal or Field Duplicate:	N	N	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units									
1,1,1-Trichloroethane (TCA)	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	UG/L		0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2-Trichloroethane	1	UG/L		1.5 U	1.5 U	7.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	UG/L		0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	UG/L		2 U	2 U	10 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	UG/L		0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	UG/L		1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dioxane (P-Dioxane)	0.35	UG/L		250 R	250 R	1200 R	250 R	250 R	250 R	250 R	250 R
2-Hexanone	50	UG/L		5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U
Acetone	**50**	UG/L		5 U	5 U	**99 J+**	5 U	5 U	5 U	5 U	5 U
Benzene	**1**	UG/L		**1.3**	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.25 J	0.5 U
Bromochloromethane	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	UG/L		0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	UG/L		2 U	2 U	10 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	UG/L		2.5 UJ	2.5 UJ	12 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Carbon Disulfide	60	UG/L		5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	UG/L		0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	--	UG/L		0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	50	UG/L		0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	UG/L		5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U

Appendix C.1. Summary of Volatile Organic Compounds in Groundwater, 46th Avenue Vernon Boulevard, Long Island City, New York

			Sample Designation:	MW-3	MW-4	MW-7	MW-10	MW-11	MW-21	MW-40	MW-41
			Sample Date:	08/17/2023	08/17/2023	08/17/2023	08/17/2023	08/17/2023	08/17/2023	08/17/2023	08/17/2023
			Normal or Field Duplicate:	N	N	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units									
Dichloroethylenes	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	**5**	UG/L		**23**	2.5 U	**7.1 J**	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	UG/L		5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	UG/L		5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	**5**	UG/L		**27**	2.5 U	**9.3 J**	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	UG/L		0.78 J	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	**5**	UG/L		**8.5 J-**	2.5 J-	12 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Styrene	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
T-Butylbenzene	**5**	UG/L		2.8	**8.7**	12 U	2.5 U	2.5 U	2.5 U	0.97 J	2.5 U
Tert-Butyl Methyl Ether	10	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	UG/L		0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	UG/L		2.5 U	2.5 U	12 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	UG/L		0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	UG/L		0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethylene (TCE)	5	UG/L		0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	UG/L		2.5 U	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Chloride	2	UG/L		1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U
Xylenes	5	UG/L		0.78 J	2.5 U	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total TIC, Volatile		UG/L		135 J	79.3 J	59.3 J	0	0	0	18.9 J	0

Appendix C.1. Summary of Volatile Organic Compounds in Groundwater, 46th Avenue Vernon Boulevard, Long Island City, New York

			Sample Designation:	MW-42	MW-44	MW-44	MW-46	MW-47	MW-48
			Sample Date:	08/17/2023	08/17/2023	08/17/2023	08/17/2023	08/17/2023	08/17/2023
			Normal or Field Duplicate:	N	N	FD	N	N	N
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units							
1,1,1-Trichloroethane (TCA)	5	UG/L		5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	UG/L		1 U	0.5 U	0.5 U	1 U	1 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	UG/L		5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
1,1,2-Trichloroethane	1	UG/L		3 U	1.5 U	1.5 U	3 U	3 U	1.5 U
1,1-Dichloroethane	5	UG/L		5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
1,1-Dichloroethene	5	UG/L		1 U	0.5 U	0.5 U	1 U	1 U	0.5 U
1,2,3-Trichlorobenzene	5	UG/L		5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
1,2,4-Trichlorobenzene	5	UG/L		5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	UG/L		5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	UG/L		4 U	2 U	2 U	4 U	4 U	2 U
1,2-Dichlorobenzene	3	UG/L		5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
1,2-Dichloroethane	0.6	UG/L		1 U	0.5 U	0.5 U	1 U	1 U	0.5 U
1,2-Dichloropropane	1	UG/L		2 U	1 U	1 U	2 U	2 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L		5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
1,3-Dichlorobenzene	3	UG/L		5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
1,4-Dichlorobenzene	3	UG/L		5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
1,4-Dioxane (P-Dioxane)	0.35	UG/L		500 R	250 R	250 R	500 R	500 R	250 R
2-Hexanone	50	UG/L		10 U	5 U	5 U	10 U	10 U	5 U
Acetone	**50**	UG/L		10 U	5 U	5 U	10 U	10 U	5 U
Benzene	**1**	UG/L		1 U	0.5 U	0.5 U	1 U	1 U	0.5 U
Bromochloromethane	5	UG/L		5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
Bromodichloromethane	50	UG/L		1 U	0.5 U	0.5 U	1 U	1 U	0.5 U
Bromoform	50	UG/L		4 U	2 U	2 U	4 U	4 U	2 U
Bromomethane	5	UG/L		5 UJ	2.5 UJ	2.5 UJ	5 UJ	5 UJ	2.5 UJ
Carbon Disulfide	60	UG/L		10 U	5 U	5 U	10 U	10 U	5 U
Carbon Tetrachloride	5	UG/L		1 U	0.5 U	0.5 U	1 U	1 U	0.5 U
Chlorobenzene	5	UG/L		5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
Chloroethane	5	UG/L		5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
Chloroform	7	UG/L		5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
Chloromethane	5	UG/L		5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
Cis-1,2-Dichloroethylene	5	UG/L		5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
Cis-1,3-Dichloropropene	--	UG/L		1 U	0.5 U	0.5 U	1 U	1 U	0.5 U
Dibromochloromethane	50	UG/L		1 U	0.5 U	0.5 U	1 U	1 U	0.5 U
Dichlorodifluoromethane	5	UG/L		10 U	5 U	5 U	10 U	10 U	5 U

Appendix C.1. Summary of Volatile Organic Compounds in Groundwater, 46th Avenue Vernon Boulevard, Long Island City, New York

	Sample Designation:		MW-42	MW-44	MW-44	MW-46	MW-47	MW-48
	Sample Date:		08/17/2023	08/17/2023	08/17/2023	08/17/2023	08/17/2023	08/17/2023
	Normal or Field Duplicate:		N	N	FD	N	N	N
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units						
Dichloroethylenes	5	UG/L	5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
Ethylbenzene	5	UG/L	5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
Isopropylbenzene (Cumene)	**5**	UG/L	5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
m,p-Xylene	5	UG/L	5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	6 J	5 U	5 U	10 U	10 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	UG/L	10 U	5 U	5 U	10 U	10 U	5 U
Methylene Chloride	5	UG/L	5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
N-Propylbenzene	**5**	UG/L	5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
Sec-Butylbenzene	**5**	UG/L	5 UJ	2.5 UJ	2.5 UJ	5 UJ	5 UJ	3.3 J-
Styrene	5	UG/L	5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
T-Butylbenzene	**5**	UG/L	5 U	2.5 U	2.5 U	5 U	5 U	5
Tert-Butyl Methyl Ether	10	UG/L	5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
Tetrachloroethylene (PCE)	5	UG/L	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U
Toluene	5	UG/L	5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	UG/L	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U
Trans-1,2-Dichloroethene	5	UG/L	5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
Trans-1,3-Dichloropropene	--	UG/L	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U
Trichloroethylene (TCE)	5	UG/L	1 U	0.5 U	0.5 U	1 U	1 U	0.5 U
Trichlorofluoromethane	5	UG/L	5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
Vinyl Chloride	2	UG/L	2 U	1 U	1 U	2 U	2 U	1 U
Xylenes	5	UG/L	5 U	2.5 U	2.5 U	5 U	5 U	2.5 U
Total TIC, Volatile		UG/L	0	0	0	0	0	52.4 J

Appendix C.2 Summary of Perfluorinated Alkyl Acids and Dioxane in Groundwater, 46th Avenue Vernon Boulevard, Long Island City, New York

	Sample Designation:		MW-46	MW-46	MW-48
	Sample Date:		08/17/2023	08/17/2023	08/17/2023
	Normal or Field Duplicate:		N	FD	N
Parameter	NYSDEC Ambient Water Quality Guidance Values	Units			
1,4-Dioxane (P-Dioxane)	350	NG/L	33.9 U	33.2 U	38.5 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	--	NG/L	0.648 UJ	0.629 UJ	0.618 UJ
N-ethyl perfluorooctanesulfonamidoacetic acid	--	NG/L	0.804 U	0.78 U	0.766 U
Perfluorobutanesulfonic acid (PFBS)	--	NG/L	4.62	5.12	2.96
Perfluorobutanoic Acid	--	NG/L	7.81	8.29	7.1
Perfluorodecane Sulfonic Acid	--	NG/L	0.98 U	0.951 U	0.934 U
Perfluorodecanoic acid (PFDA)	--	NG/L	1.77 EMPC	1.94 EMPC	0.987 EMPC
Perfluorododecanoic acid (PFDoA)	--	NG/L	0.372 U	0.361 U	0.354 U
Perfluoroheptane Sulfonate (PFHPS)	--	NG/L	0.688 U	0.668 U	0.656 U
Perfluoroheptanoic acid (PFHpA)	--	NG/L	4.46	4.66	3.76
Perfluorohexanesulfonic acid (PFHxS)	--	NG/L	2.36	2.48	1.17 J
Perfluorohexanoic acid (PFHxA)	--	NG/L	11.7	11.8	6.36
Perfluorononanoic acid (PFNA)	--	NG/L	2.31 EMPC	1.93 EMPC	1.13 EMPC
Perfluorooctane Sulfonamide (FOSA)	--	NG/L	0.58 U	0.563 U	0.553 U
Perfluorooctanesulfonic acid (PFOS)	**2.7**	NG/L	**14.4**	**14.6**	**3.53**
Perfluorooctanoic acid (PFOA)	**6.7**	NG/L	**10.4 EMPC**	**12.7 EMPC**	**7.11 EMPC**
Perfluoropentanoic Acid (PFPeA)	--	NG/L	10.9	11.8	4.91
Perfluorotetradecanoic acid (PFTA)	--	NG/L	0.248 U	0.241 U	0.236 U
Perfluorotridecanoic Acid (PFTriA)	--	NG/L	0.327 U	0.318 U	0.312 U
Perfluoroundecanoic Acid (PFUnA)	--	NG/L	0.26 U	0.252 U	0.248 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	--	NG/L	1.21 U	1.18 U	1.15 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	--	NG/L	1.33 U	1.29 U	6.9 J
TOTAL PFOA AND PFOS	--	NG/L	24.8	27.3	10.6

APPENDIX D

LNAPL Recovery System Monitoring Logs

Appendix D. LNAPL Recovery System Monitoring Log Former Paragon Paint Varnish Corp - February 16, 2024
5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd.
Long Island City, New York, NYSDEC Site No. C241108

Source of Reading	Value	Unit			Comments
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP	
Recovery Well RW-1	N	--	8.44	--	
Recovery Well RW-2	N	--	7.79	--	
Recovery Well RW-3	N	--	8.98	--	
Recovery Well RW-4	N	--	8.93	--	
Recovery Well RW-5	N	--	8.82	--	
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum			3.3 Gallons		

Is the system operating within the acceptable conditions? N/A

If no, was the condition corrected and how?

LNAPL Recovery system has been shut off since March 30, 2017. The system was shut off effective January 12, 2018, however the system will remain in-place in the event that future monitoring events detect LNAPL.

Form Completed By:

Michael Sarni

APPENDIX E

NYSDEC Site Management Plan Approvals

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4995
www.dec.ny.gov

December 7, 2016

Mr. Brent Carrier
4540 Vernon Realty LLC
45 Carleon Ave
Larchmont NY 10538

RE Paragon Paint and Varnish Corp.
5-49 46th Avenue, Long Island City, NY
Brownfield Cleanup Program, Site ID C241108, Queens County
Site Management Plan

Dear Ms. Carrier:

The New York State Department of Environmental Conservation has reviewed the Site Management Plan (SMP) dated November 2016, for the referenced site, NYSDEC BCP Site No. C241108, NYSDEC BCA Index No. W2-1119-08-03, prepared by Remedial Engineering P.C. on behalf of 4540 Vernon Realty LLC.

This SMP was prepared as a requirement of the New York State Brownfield Cleanup Program. The SMP contains a comprehensive plan that provides detailed maintenance and monitoring discussions of the Institutional and Engineering Controls developed for the site, as well as provisions for the annual certification of these controls. The SMP is hereby approved.

The approved SMP must be placed in all publicly accessible repositories for the Site within five business days. A certification that this document has been placed, and that the repositories are complete with all project documents, must be submitted to the NYSDEC project manager.

If you have any questions or comments, please feel free to contact me at (718) 482-4891.

Sincerely,

Sondra Martinkat
2016.12.07 13:10:54 -05'00'

Sondra Martinkat
Environmental Engineer

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

ec: Jane O'Connell, Karen Mintzer – NYSDEC
Justin Deming, Anthony Perretta – NYSDOH
Michael Bogin – Sive Paget Riesel
Omar Ramotar – Remedial Engineering, P.C.

cc: Angela Krevey – Anable Beach Inc
Donald Rattner – 549 46th Ave LLC

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4995
www.dec.ny.gov

August 31, 2023

Amir Setayesh
CSC 4540 Property Co, LLC
c/o Quadrum Global
261 Fifth Avenue, Suite 1801
New York, NY 10016

Re: Paragon Paint and Varnish Corp
5-49 46th Avenue, Long Island City, Queens County
Brownfield Cleanup Program # C241108
Revised Site Management Plan

Dear Mr. Setayesh:

The New York State Department of Environmental Conservation (NYSDEC), in consultation with the New York State Department of Health, has completed its review of the revised Site Management Plan (SMP) dated December 2022 which was prepared by Roux Environmental Engineering and Geology, D.P.C. on behalf of CSC 4540 Property Co, LLC (the Volunteer). The revised SMP was submitted to NYSDEC under the Brownfield Cleanup Program.

The revised SMP contains a provisional plan that provides detailed maintenance and monitoring discussions of the Institutional and Engineering Controls developed for the site, as well as provisions for the annual certification of these controls. The revised SMP is hereby approved.

In accordance with the requirements of the Brownfield Cleanup Agreement and the Citizen Participation Plan, the approved revised SMP must be placed in the project document repositories within 5 business days. Any draft copies of this report should be removed. A certification that this document has been placed in the project repositories, and that the repositories are complete with all project documents, must be submitted to the NYSDEC project manager.

Should you have any questions regarding this letter or any other aspect of the project, please contact me at 718-482-7541 or wendi.zheng@dec.ny.gov.

Sincerely,
Wendi Zheng
Wendi Zheng

Project Manager

ec: Jane O'Connell, Andre Obligado, Antonia Pereira – NYSDEC
Scarlett McLaughlin, Anthony Perretta – NYSDOH
Donald Rattner – 549 46th Avenue LLC
Omar Ramotar, Christian Hoelzli – Roux
Larry Schnapf – Schnapf LLP

APPENDIX F

NYSDEC Response Letter to SMP Modifications

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4995
www.dec.ny.gov

January 12, 2018

Robert Hendrickson
Quadrum Global
757 3rd Avenue
New York NY 10017

Re: Paragon Paint and Varnish Company
Queens County, BCP # C241108
Modifications to the Site Management Plan (SMP)

Dear Mr. Hendrickson:

On December 1, 2017, the New York State Department of Environmental Conservation (the Department) met with Quadrum Global and Roux Associates to review the project. As a follow-up to that discussion, Roux Associates provided an email on January 9, 2018 which included a summary of proposed changes regarding monitoring, sampling, operation, maintenance and reporting activities. These proposed changes constitute modifications to the Site Management Plan (SMP).

The following SMP modifications are approved:

1. All Site monitoring wells will be gauged for the presence of light non-aqueous phase liquid (LNAPL) on a quarterly basis in lieu of gauging select wells on a monthly basis. The first quarterly gauging event will occur in March 2018.

2. Monthly progress reports are no longer required. A quarterly report will be submitted that details the performance of gauging or sampling events performed at the Site.

3. The groundwater sampling frequency may be reduced to annual, with the next sampling event in June 2018.

4. A formal groundwater monitoring report will be replaced with a tabular summary of groundwater data and a short evaluation of conditions when data is generated. This may be applied to the recent groundwater sampling event performed at the Site in December 2017. The results should be discussed in greater detail in the subsequent Periodic Review Report (PRR). The first PRR for the Site is due April 15, 2018.

5. Since no LNAPL has been recovered by the on-site system in the past year, the LNAPL recovery system may be shut down. The system should remain in-place in the event that future monitoring events identify recoverable LNAPL. The system may be decommissioned when the Site is redeveloped. LNAPL recovery will continue manually with bailers and/or oil absorbing socks/pads on a quarterly basis, as needed.

Within 30 days of the date of this letter, please submit revised sections of the SMP for the approvals listed above. Upon approval of these sections, a revised SMP must be submitted to the Department.

If you have any questions or would like to schedule a meeting to discuss this letter, please contact me at (718) 482-4891 or sondra.martinkat@dec.ny.gov.

Sincerely,

Sondra Martinkat
Project Manager

ec: Jane O'Connell, Gerard Burke, Karen Mintzer – NYSDEC
Anthony Perretta – NYSDOH
Matthew Baron – CSC Realty LLC
Omar Ramotar – Roux Associates/Remedial Engineering PC
Larry Schnapf – Schnapf Law
Brent Carrier – Vernon 4540 Realty LLC

cc: Angela Krevey – Anabel Beach, Inc.
Donald Rattner – 549 46th Ave LLC

APPENDIX G

Formal Groundwater Monitoring Report and NYSDEC Correspondence

C241108 Paragon Paint 2Q23 Quarterly Update

Christian Hoelzli <choelzli@rouxinc.com>

Fri 6/30/2023 4:01 PM

To:Martinkat, Sondra (DEC) <sondra.martinkat@dec.ny.gov>
Cc:Maycock, Cris-Sandra (DEC) <cris-sandra.maycock@dec.ny.gov>;Omar Ramotar <oramotar@rouxinc.com>;O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>;Robert Hendrickson <rhendrickson@quadrumglobal.com>;Amir Setayesh <asetayesh@quadrumglobal.com>;'Jared White' <jwhite@quadrumglobal.com>;Larry Schnapf <Larry@schnapflaw.com>; Jennifer Coghlan <jcoghlan@sprlaw.com>

2 attachments (523 KB)
Table 1.xlsx; Figure 1.pdf;

Sondra,

In accordance with the Brownfield Cleanup Agreement, Roux Environmental Engineering and Geology, D.P.C. (Roux) has prepared this email to serve as a quarterly update for the former Paragon Paint and Varnish Corp. facility located at 5-43 to 5-49 46th Avenue and 45-38 to 45-40 Vernon Boulevard in Long Island City, New York (Site) (NYSDEC Site No C241108).

Routine Operation, Maintenance, and Reporting Activities:
Roux completed the quarterly gauging of the 29 monitoring wells and 5 recovery wells to determine the presence of LNAPL in accordance with the revised SMP on May 9, 2023. A summary of the gauging data collected during the reporting period is provided in Table 1 attached.

During the gauging event, free-product was present in on-site monitoring wells MW-2R, MW-3, and MW-33. Absorbent socks were removed and replaced in all three wells with approximately 1 gallon of free product absorbed in total based on the saturation of the socks. The well locations and LNAPL thicknesses are provided in Figure 1. The recovered product and saturated absorbent socks are temporarily stored on-Site in a 55-gallon drum until it is required to be disposed. These monitoring wells will continue to be gauged and monitored, with manual bailing and absorbent sock replacement implemented as necessary.

Due to the lack of free-product in the recovery wells (RW-1 to RW-5), Roux has continued to pause the operation of the LNAPL recovery system until recoverable levels of product become present in the recovery system wells.

Planned Actions:
The following activities are scheduled for the next reporting period.

- Continued quarterly gauging of monitoring wells within the SMP monitoring network;
- Continued annual sampling of monitoring wells within the SMP monitoring network; and
- Continued monthly O&M of LNAPL recovery system (as necessary).

Work Plan Modifications
No modifications made to the Work Plan during this reporting period.

Please contact me or Omar Ramotar with any questions or concerns.

Thank you,

Christian Hoelzli | Project Engineer
209 Shafter Street, Islandia, New York 11749
Main: 631.232.2600 | Direct: 631.630.2477 | Mobile: 516.589.4604
Email: choelzli@rouxinc.com | Website: www.rouxinc.com

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C241108 Paragon Paint 3Q23 Quarterly Update

Christian Hoelzli <choelzli@rouxinc.com>

Mon 10/9/2023 2:25 PM

To:Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>
Cc:Maycock, Cris-Sandra (DEC) <cris-sandra.maycock@dec.ny.gov>;Omar Ramotar <oramotar@rouxinc.com>;O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>;Robert Hendrickson <rhendrickson@quadrumglobal.com>;Amir Setayesh <asetayesh@quadrumglobal.com>;'Jared White' <jwhite@quadrumglobal.com>;Larry Schnapf <Larry@schnapflaw.com>; Jennifer Coghlan <jcoghlan@sprlaw.com>

4 attachments (638 KB)

Table 1.xlsx; Table 2-3.xlsx; Figure 1.pdf; Attachment 1. DUSR Paragon Paint and Varnish 2023.pdf;

Wendi,

We would like to schedule a call to introduce ourselves and discuss the status of the project. Please let us know if you have any availability in the next few weeks to meet. Below is our quarterly update email that summarizes the monitoring activities conducted during the Second Quarter of 2023:

In accordance with the Brownfield Cleanup Agreement, Roux Environmental Engineering and Geology, D.P.C. (Roux) has prepared this email to serve as a quarterly update for the former Paragon Paint and Varnish Corp. facility located at 5-43 to 5-49 46th Avenue and 45-38 to 45-40 Vernon Boulevard in Long Island City, New York (Site) (NYSDEC Site No C241108).

Routine Operation, Maintenance, and Reporting Activities:
Roux completed the quarterly gauging of the 29 monitoring wells and 5 recovery wells to determine the presence of LNAPL in accordance with the revised SMP on August 17, 2023. A summary of the gauging data collected during the reporting period is provided in Table 1 attached.

During the gauging event, free-product was present in monitoring wells MW-2R, MW-33, and MW-34. The well locations are provided in Figure 1. Absorbent socks were removed and replaced in MW-2R, MW-33, and MW-34 with approximately 1 gallon of free-product absorbed in total based on the saturation of the sock absorbency. The recovered product and saturated absorbent socks are temporarily stored on-Site in a 55-gallon drum until it is required to be disposed. These monitoring wells will continue to be gauged and monitored, with manual bailing and absorbent sock replacement implemented as necessary.

Due to the lack of free-product in the recovery wells (RW-1 to RW-5), Roux has continued to pause the operation of the LNAPL recovery system until recoverable levels of product become present in the recovery system wells.

Sampling/Sample Results

During this reporting period, 13 groundwater samples were collected from the following monitoring wells:

- MW-3
- MW-4
- MW-7
- MW-10
- MW-11
- MW-21
- MW-40
- MW-41
- MW-42
- MW-44
- MW-46
- MW-47
- MW-48

The above samples were analyzed for VOCs using USEPA Method 8260.

Additionally, 2 groundwater samples were collected to analyze for 1,4-dioxane and per- and poly- fluoroalkyl substances (PFAS) using USEPA Method 8270D and USEPA Method 537, respectively, in support of a mandatory State-wide evaluation. The samples were taken from MW-46 and MW-48.

Groundwater Monitoring Results

The VOC analytical results of the August 2023 annual groundwater monitoring event are summarized in Table 2 and the well locations are presented in Figure 1. A review of the groundwater data generated during this reporting period indicated the following:

- The specific COC exceedances of AWQSGVs are noted below:
  - Benzene results exceeded their respective AWQSGV of 1 µg/L at one (1) monitoring well location (1.3 µg/L at MW-3).
  - There were no exceedances of Ethylbenzene reported.
  - Isopropylbenzene results exceeded their respective AWQSGV of 5 µg/L at two (2) monitoring well locations (23 µg/L at MW-3 and 7.1 µg/L at MW-7).
  - There were no exceedances of Xylene reported.

Groundwater data for the recent August 2023 sampling event is relatively consistent to previous sampling rounds. Per the SMP, groundwater sampling will continue to be performed on an annual basis until site redevelopment plans are finalized.

MW-2R, MW-33, and MW-34 were not sampled due to the presence of LNAPL. MW-19, MW-37, MW-38 and MW-45 were not sampled due to the wells being dry. MW-43 was not sampled because it was inaccessible.

In a letter dated March 4, 2021, the NYSDEC requested the annual sampling be modified to include Tentatively Identified Compounds (TICs) in the VOC analysis. The concentration of Total TICs is included in Table 2.

The letter also requested emerging contaminants (ECs) 1,4-dioxane and PFAS be sampled from MW-33, MW-37 or MW-38, MW-46, and MW-48. Since MW-2R had LNAPL; MW-33, MW-37 and MW-38 were dry; and MW-7 went dry after collecting the VOC sample, there were no remaining monitoring wells in the driveway or the warehouse to sample during this event. The analytical results of the 1,4-dioxane and PFAS sampling are summarized in Table 3.

The full data set was uploaded as EDD 20231005 1255.C241108.NYSDEC and is currently available for use within the NYSDEC system. The Data Usability Summary Report (DUSR) for these samples is provided in Attachment 1.

Planned Actions:

The following activities are scheduled for the next reporting period.

- Continued quarterly gauging of monitoring wells within the SMP monitoring network;
- Continued monthly O&M of LNAPL recovery system (as necessary).

Work Plan Modifications

No modifications made to the Work Plan during this reporting period.

Please contact me or Omar Ramotar with any questions or concerns.

Thank you,

Christian Hoelzli | Project Engineer
209 Shafter Street, Islandia, New York 11749
Main: 631.232.2600 | Direct: 631.630.2477 | Mobile: 516.589.4604
Email: choelzli@rouxinc.com | Website: www.rouxinc.com

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C241108 Paragon Paint 4Q23 Quarterly Update

Christian Hoelzli <choelzli@rouxinc.com>

Wed 1/3/2024 12:55 PM

To:Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>
Cc:Maycock, Cris-Sandra (DEC) <cris-sandra.maycock@dec.ny.gov>;Omar Ramotar <oramotar@rouxinc.com>;O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>;Robert Hendrickson <rhendrickson@quadrumglobal.com>;Amir Setayesh <asetayesh@quadrumglobal.com>;'Jared White' <jwhite@quadrumglobal.com>;Larry Schnapf <Larry@schnapflaw.com>; Jennifer Coghlan <jcoghlan@sprlaw.com>

2 attachments (483 KB)
Table 1.xlsx; Figure 1.pdf;

Hi Wendi,

In accordance with the Brownfield Cleanup Agreement, Roux Environmental Engineering and Geology, D.P.C. (Roux) has prepared this email to serve as a quarterly update for the former Paragon Paint and Varnish Corp. facility located at 5-43 to 5-49 46th Avenue and 45-38 to 45-40 Vernon Boulevard in Long Island City, New York (Site) (NYSDEC Site No C241108).

Routine Operation, Maintenance, and Reporting Activities:
Roux completed the quarterly gauging of the 29 monitoring wells and 5 recovery wells to determine the presence of LNAPL in accordance with the revised SMP on November 7, 2023. A summary of the gauging data collected during the reporting period is provided in Table 1 attached.

During the gauging event, free-product was present in monitoring wells MW-2R, MW-33, and MW-34. The well locations are provided in Figure 1. Absorbent socks were removed and replaced in MW-2R, MW-33, and MW-34 with approximately 1 gallon of free-product absorbed in total based on the saturation of the sock absorbency. The recovered product and saturated absorbent socks are temporarily stored on-Site in a 55-gallon drum until it is required to be disposed. These monitoring wells will continue to be gauged and monitored, with manual bailing and absorbent sock replacement implemented as necessary.

Due to the lack of free-product in the recovery wells (RW-1 to RW-5), Roux has continued to pause the operation of the LNAPL recovery system until recoverable levels of product become present in the recovery system wells.

Planned Actions:
The following activities are scheduled for the next reporting period.

- Continued quarterly gauging of monitoring wells within the SMP monitoring network;
- Continued monthly O&M of LNAPL recovery system (as necessary).

Work Plan Modifications
No modifications made to the Work Plan during this reporting period.

Please contact me or Omar Ramotar with any questions or concerns.

Thank you,
Christian

Christian Hoelzli | Project Engineer
209 Shafter Street, Islandia, New York 11749
Main: 631.232.2600 | Direct: 631.630.2477 | Mobile: 516.589.4604
Email: choelzli@rouxinc.com | Website: www.rouxinc.com

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C241108 Paragon Paint 1Q24 Quarterly Update

Christian Hoelzli <choelzli@rouxinc.com>

Tue 4/16/2024 10:56 AM

To:Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>
Cc:Omar Ramotar <oramotar@rouxinc.com>;Jessica Taylor <jtaylor@rouxinc.com>;O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>;Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>;Agosta, Jonathan (DEC) <Jonathan.Agosta@dec.ny.gov>;Robert Hendrickson <rhendrickson@quadrumglobal.com>;Amir Setayesh <asetayesh@quadrumglobal.com>;'Jared White' <jwhite@quadrumglobal.com>;Jasper Wu <jasper@zdjasper.com>

2 attachments (478 KB)

Table 1.xlsx; FIGURE 1.pdf;

Wendi,

In accordance with the Brownfield Cleanup Agreement, Roux Environmental Engineering and Geology, D.P.C. (Roux) has prepared this email to serve as a quarterly update for the former Paragon Paint and Varnish Corp. facility located at 5-43 to 5-49 46th Avenue and 45-38 to 45-40 Vernon Boulevard in Long Island City, New York (Site) (NYSDEC Site No C241108).

ROUTINE OPERATION, MAINTENANCE, AND REPORTING ACTIVITIES (1st Quarter 2024)

Roux completed the quarterly gauging of the 29 monitoring wells and 5 recovery wells to determine the presence of LNAPL in accordance with the revised SMP on February 16, 2024. A summary of the gauging data collected during the reporting period is provided in Table 1 attached.

During the gauging event, free-product was not present in any monitoring wells. The well locations are provided in Figure 1.

Recovered product and saturated absorbent socks are temporarily stored on-Site in a 55-gallon drum until it is required to be disposed.

Due to the lack of free-product in the recovery wells (RW-1 to RW-5), Roux has continued to pause the operation of the LNAPL recovery system until recoverable levels of product become present in the recovery system wells.

PLANNED ACTIONS (2nd Quarter 2024)

Several activities are scheduled to occur during the next quarter as noted below.

Activities Associated with Planned Ownership Change

A 60-Day Advance Notification of Site Change in Ownership was submitted to the NYSDEC on December 20, 2023. As discussed in a meeting with the NYSDEC, Roux, and the new owner ZDJ Vernon LLC on February 15, 2024; demolition and redevelopment of the Site is planned promptly following the transfer in ownership on or about April 17, 2024.

Restoration of a Portion of the Site Cover System

In preparation for planned redevelopment work, ZDJ Vernon LLC's proposed demolition contractor mobilized to the Site to perform some limited utility work. At the time, ZDJ Vernon LLC did not expect that this work would disturb the Site cover system. However, as part of this effort, the demolition contractor had to excavate through the Site cover system to facilitate inspection of a subsurface utility onsite which was not directly communicated to ZDJ Vernon LLC ahead of time. Once the disturbance was identified by Roux during a routine Site visit on February 20, 2024, ZDJ Vernon LLC and the NYSDEC were immediately notified. In response to this notification, the NYSDEC requested that Roux (1) reinforce the Site SMP requirements with the new owner and the demolition contractor; (2) perform a subsequent investigation to confirm the actual extents of the disturbance; and (3) collect soil samples of displaced cover system material to confirm if soils below the cover system were disturbed. Once Roux confirmed that the Site cover system was disturbed and underlying soils were displaced, Roux submitted

a restoration plan to the NYSDEC on March 8, 2024 that was subsequently approved on March 13, 2024. The restoration work is tentatively scheduled to occur on April 18, 2024.

Performance of a Geotechnical Investigation
A 15-Day Notification for intrusive activity was submitted to NYSDEC on March 28, 2024. The scope of this work comprises of drilling for geotechnical testing. As stated in the notification, borings are expected to be advanced below the site cover system and Roux will be onsite to oversee, screen soil as needed, and conduct CAMP/daily DEC reporting. The start date for this work has been pushed from April 16, 2024 to tentatively April 22, 2024. The scope was approved by the NYSDEC via email on April 11, 2024.

Abandonment of On-Site Monitoring Wells
A notification for abandonment of on-Site monitoring wells was submitted to the NYSDEC on April 4, 2024. As stated in the notification, the work is expected to begin on April 18, 2024 and the wells will be abandoned via the grouting-in-place method. The scope was approved by the NYSDEC via email on April 11, 2024.

Demolition of Above-grade Buildings
Above-grade demolition of the warehouse, garage, and part of the former paint factory is tentatively scheduled to begin upon completion of the geotechnical drilling, most likely during the week of April 29, 2024. The above-grade demolition will not disturb the Site cover system and therefore there are no plans to perform remedial oversight or CAMP during this work.

Demolition debris will not be reused onsite, however the demolition contractor will retain some masonry debris temporarily to support walls in the basement of the warehouse until below-grade demolition begins. Approximately 320 truckloads of masonry and concrete and 15 truckloads of mixed waste is estimated to be generated during the work. Concrete waste will be transported to Crushcrete of Bethlehem, PA for disposal. Mixed waste and masonry will be transported to Cooper Recycling of Brooklyn, NY for disposal.

Submission of 15-Day Notice for Site Cover System Disturbance (Demolition and Redevelopment Activities)
A 15-Day Notification will be issued to NYSDEC in May 2024 pertaining to the below-grade demolition and subsequent redevelopment of the Site, tentatively scheduled for the 3rd Quarter of 2024 and the 4th Quarter of 2024, respectively.

WORK PLAN MODIFICATIONS
As a result of the abandonment of all on-site wells as noted herein, Roux proposes to temporarily modify the groundwater monitoring and sampling program to include only the off-Site wells (MW-3, MW-5, MW-17, MW-18, MW-21, and MW-34) until redevelopment activities are completed and new locations for on-Site wells are proposed.

Please contact me or Omar Ramotar with any questions or concerns.

Thank you,
Christian

Christian Hoelzli | Project Engineer
252 W 37th Street 18th Floor, New York, NY 10018
Main: 631.232.2600 | Mobile: 516.589.4604
Email: choelzli@rouxinc.com | Website: www.rouxinc.com

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APPENDIX H

Revised Quality Assurance Project Plan

Quality Assurance Project Plan

Former Paragon Paint Manufacturing Facility
5-43 to 5-49 46th Avenue and
45-38 to 45-40 Vernon Boulevard
Long Island City, New York
Site No. C241108

April 3, 2021

Prepared for:

CSC 4540 Property Co, LLC
757 Third Avenue, 17th Floor,
New York, New York 10017

Prepared by:

Roux Environmental Engineering and Geology, D.P.C.
209 Shafter Street
Islandia, New York 11749

2051.0001Y002.254/CV

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3. Project Organization 3
4. Sampling Procedures 4
5. Quality Assurance/Quality Control 5

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Figure

1. SMP Sampling Network

Appendices

A. Professional Profiles
B. Laboratory Certifications

1. Introduction

This Quality Assurance Project Plan (QAPP) has been prepared to describe the measures that will be taken to ensure that the data generated during performance of the Site Management Phase (SMP) at the property identified as the former Paragon Paint manufacturing facility located at 5-43 to 5-49 46th Avenue and 45-38 to 45-40 Vernon Boulevard, in Long Island City (Site) are of sufficient quality to meet project-specific data quality objectives (DQOs). The QAPP was prepared in accordance with the guidance provided in New York State Department of Environmental Conservation (NYSDEC) Technical Guidance DER-10 (Technical Guidance for Site Investigation and Remediation), the Brownfield Cleanup Program Guide and the United States Environmental Protection Agency's (USEPA's) Guidance for the Data Quality Objectives Process (EPA QA/G-4).

2. Project Objectives and Scope

As described in the SMP, the objectives are to manage the residual contamination and monitor the extent of light non-aqueous phase liquid (LNAPL) and volatile organic compound (VOC) impacts in groundwater. In order to achieve project objectives, Roux Environmental Engineering and Geology (Roux) has developed a scope of work for the sampling of groundwater. A brief overview of the work is provided below. SMP sampling locations are shown in Figure 1.

2.1 Groundwater

There are currently 30 monitoring wells at the Site. All monitoring wells will be gauged using an electronic interface probe capable of detecting light non-aqueous phase liquid (LNAPL) with an accuracy of +/- 0.01 feet.

Of the 30 monitoring wells, 21 are part of the SMP monitoring network. Figure 1 includes a map showing the locations and designations of all monitoring wells at the Site. Groundwater samples will be collected from those wells that do not exhibit any LNAPL at the time of gauging.

Samples will be analyzed for TCL VOCs plus Tentatively Identified Compounds (TICs) (USEPA Method 8260). Field parameters, including temperature, pH, conductivity, redox potential, dissolved oxygen, and turbidity will also be measured.

In addition, a request was made by the NYSDEC on March 4, 2021 to analyze groundwater at the Site for emerging contaminants (ECs) 1,4-dioxane and per- and poly-fluoroalkyl substances (PFAS) in support of a mandatory State-wide evaluation. Four (4) monitoring wells within the existing SMP monitoring network will be analyzed for ECs, with one well selected for analysis at the following representative locations across the Site:

- Driveway (MW-33 or MW-2)
- Warehouse (MW-37 or MW-38)
- Courtyard (MW-46 or MW-44) and
- Paint factory (MW-48 or MW-4).

Samples will be analyzed for 1,4-dioxane using USEPA Method 8270 SIM and PFAS (NYSDEC 21-compound list) using USEPA Method 537 Modified in accordance with the NYSDEC PFAS sampling guidance dated January 2021.

3. Project Organization

The overall management structure and a general summary of the responsibilities of project team members are presented below. Professional profiles are included in Appendix A.

Project Manager

Omar Ramotar, P.E. of Roux Associates. will serve as Project Manager. The Project Manager is responsible for defining project objectives and bears ultimate responsibility for the successful completion of the investigation. This individual will provide overall management for the implementation of the scope of work and will coordinate all field activities. The Project Manager is also responsible for data review/interpretation and report preparation. Activities of the Project Manager are supported by the Project Quality Assurance Officer.

Field Team Leader

Christian Hoelzli of Roux Environmental Engineering and Geology, D.P.C. will serve as the Field Team Leader. The Field Team Leader bears the responsibility for the successful execution of the field program, as scoped in the SMP and the Field Sampling Plan (FSP). The Field Team Leader will direct the activities of all technical staff in the field as well all subcontractors. The Field Team Leader will also assist in the interpretation of data and in report preparation. The Field Team Leader reports to the Project Manager.

Laboratory Project Manager

The laboratory Project Manager is responsible for sample container preparation, sample custody in the laboratory, and completion of the required analysis through oversight of the laboratory staff. The Laboratory Project Manager will ensure that quality assurance procedures are followed and that an acceptable laboratory report is prepared and submitted. The Laboratory Project Manager reports to the Project Manager or the Field Team Leader.

Quality Assurance Officer

Wai Kwan, Ph.D., P.E. of Roux Associates will serve as the Quality Assurance Officer (QAO) for this project. The QAO is responsible for conducting reviews, inspections, and audits to ensure that the data collection is conducted in accordance with the FSP and QAPP. The QAO's responsibilities range from ensuring effective field equipment decontamination procedures and proper sample collection to the review of all laboratory analytical data for completeness and usefulness. The QAO reports to the Project Manager and makes independent recommendations to the Field Team Leader.

Field Technical Staff

Field technical staff consists of scientists, engineers, Geoprobe operators and technicians who will perform sampling activities. The field technical staff will also be responsible for the preparation of any required field documentation. The field technical staff reports to the Field Team Leader.

4. Sampling Procedures

To ensure groundwater samples collected are representative of the conditions in the surrounding aquifer, monitoring wells will be purged prior to sample collection using low flow sampling procedures as outlined in USEPA document titled “Low Stress (Low Flow) Purging and Sampling Procedures for the Collection of Groundwater Samples from Monitoring Wells” (USEPA, 1996).

Detailed discussions of sample handling, decontamination, and waste disposal procedures are provided in Sections 5.0, 6.1, and 6.2; respectively, of the site-specific Field Sampling Plan (FSP) in Appendix B of the Remedial Investigation Work Plan.

Samples collected for Perfluorooctanoic Acid (PFOA) and Perfluorinated Compounds (PFCs) from monitoring wells must follow the procedures noted above in addition to the following limitations:

- All acceptable materials for sampling include: stainless steel, high density polyethylene (HDPE), PVC, silicone, acetate, and polypropylene.
- Equipment blanks must be generated daily.
- Grundfos and bladder pumps may NOT be used; as Grundfos pumps contain Teflon washers and bladder pumps contain LDPE bladders.
- All sampling equipment components and sample containers should not come into contact with aluminum foil, low density polyethylene (LDPE), glass, or polytetrafluoroethylene (PTFE, Teflon) materials; including sample bottle cap liners.
- Samplers must avoid wearing clothing that contains PTFE material (including GORE-TEX) or waterproofed with PFC materials. All clothing worn by sampling personnel must be laundered multiple times before sampling.
- Many food and drink packaging materials contain PFCs. Food and drink should not be in the vicinity of samples.
- Waterproof adhesives like, “plumbers thread seal tape” contain PFCs and may not be used during sampling activities.
- The sampler must wear nitrile gloves while filling and sealing the sample bottles.
- Procedure for collecting a groundwater sample for PFOA and PFCs:
    1. Fill two pre-cleaned 500 mL HDPE or polypropylene bottles with the sample.
    2. Cap the bottles with an acceptable cap and liner closure system.
    3. Label the sample bottles.
    4. Fill out the Chain of Custody.
    5. Place in a cooler maintained at 4±2° Celsius.

5. Quality Assurance/Quality Control

The primary intended use for the SMP data is to manage the residual contamination and monitor the extent of LNAPL and impacts in groundwater. The primary DQO of the groundwater sampling program, therefore, is that data be accurate and precise, and hence representative of the actual Site conditions. Accuracy refers to the ability of the laboratory to obtain a true value (i.e., compared to a standard) and is assessed through the use of laboratory quality control (QC) samples, including laboratory control samples and matrix spike samples, as well as through the use of surrogates, which are compounds not typically found in the environment that are injected into the samples prior to analysis. Precision refers to the ability to replicate a value, and is assessed through both field and laboratory duplicate samples.

Sensitivity is also a critical issue in generating representative data. Laboratory equipment must be of sufficient sensitivity to detect target compounds and analytes at levels below NYSDEC standards and guidelines whenever possible. Equipment sensitivity can be decreased by field or laboratory contamination of samples, and by sample matrix effects. Assessment of instrument sensitivity is performed through the analysis of reagent blanks, near-detection-limit standards, and response factors. Potential field and/or laboratory contamination is assessed through use of trip blanks, method blanks, and equipment rinse blanks (also called “field blanks”).

Table 1 lists the field and laboratory QC samples that will be analyzed to assess data accuracy and precision, as well as to determine if equipment sensitivity has been compromised.

All analyses will be performed in accordance with the NYSDEC Analytical Services Protocol (ASP), using USEPA SW-846 methods. The laboratory selected to analyze the field samples (groundwater) collected shall maintain a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) Contract Laboratory Protocol (CLP) certification for each of the “assessment” analyses listed in Section 2.0. Alpha Analytical, Inc. based in Mahwah, New Jersey is selected for this sampling and its New York certifications are listed in Appendix B.

All laboratory data generated for groundwater samples are to be reported in NYSDEC ASP Category B deliverables and will be delivered to NYSDEC in electronic data deliverable (EDD) format as described on NYSDEC’s website (http://www.dec.ny.gov/chemical/62440.html).

Per the NYSDEC request, a Data Usability Summary Report (DUSR) will be prepared by an independent party meeting the requirements in Section 2.2(a)1.ii and Appendix 2B of DER-10 for all data packages. The resume of the person preparing the DUSR is provided in Appendix A.

TABLE

1. Analytical Methods/Quality Assurance Summary

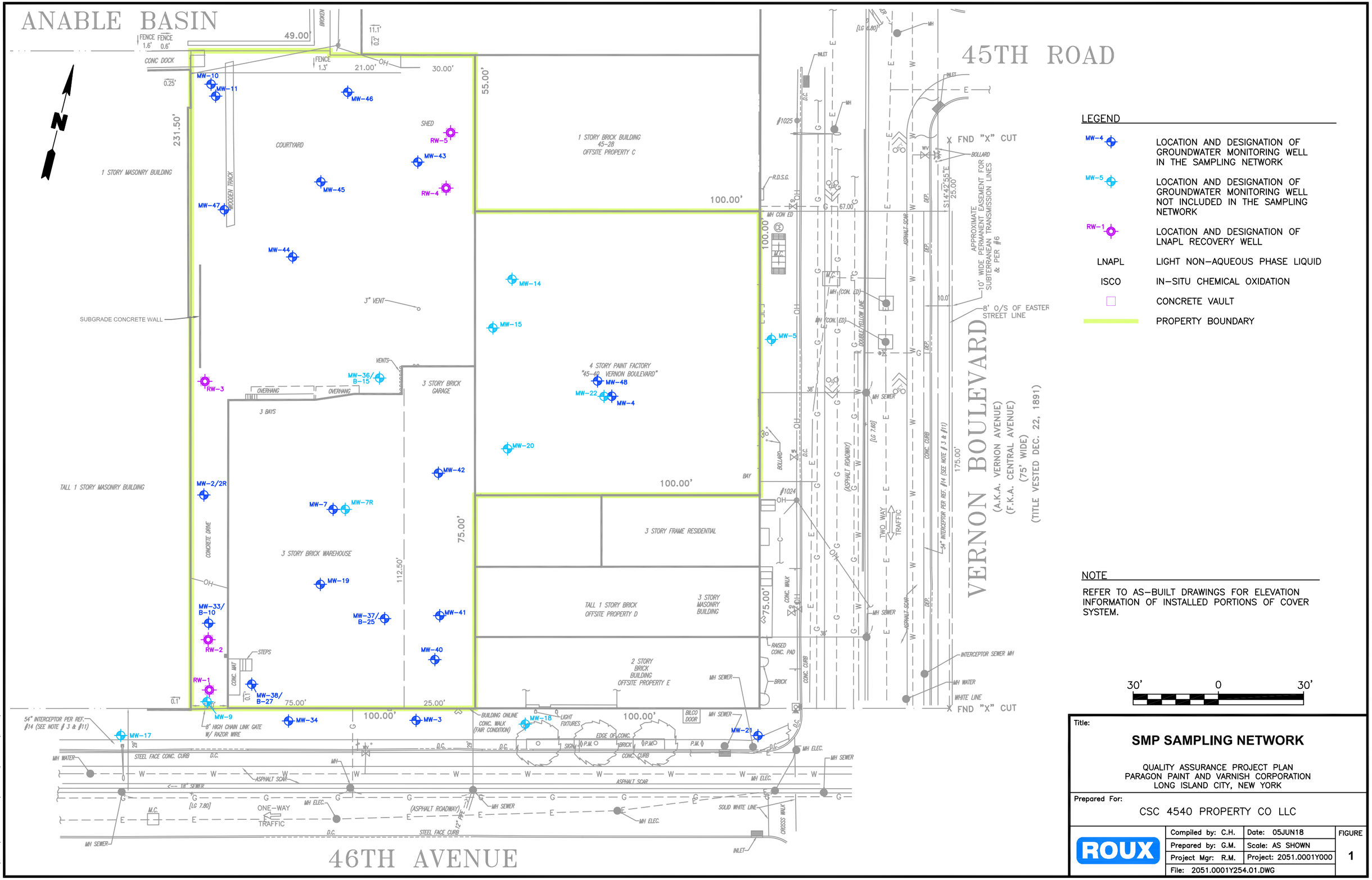
Table 1. Analytical Methods/Quality Assurance Summary
Quality Assurance Project Plan
Former Paragon Paint and Varnish Facility, Long Island City, NY

	Number of Samples / Frequency	Sample Container Volume / Type / Preservative	Sample Holding Time	Method Detection Limit	Minimum Reporting Requirements	Use
Groundwater						
SMP Phase Sampling						
TCL Volatile Organic Compounds Plus Tentatively Identified Compounds - EPA 8260C	Varies / Annually	40 mL (x3) / VOA / HCl	14 days	Various	NYSDEC ASP - Category B	--
NYSDEC Emerging Contaminants Sampling						
PFAS (NYSDEC 21-Compound List) - EPA 537 Modified	Four / Annually	250 mL (x3) / Plastic / Trizma	14 days	2 ng/L	NYSDEC ASP - Category B	--
1,4-dioxane - EPA 8270 SIM	Four / Annually	500 mL (x2) / Amber / None	14 days	0.075 ug/L	NYSDEC ASP - Category B	--
Low-Flow Parameters*	Varies / Annually	--	--		--	--
Field QC						
Duplicate	1 per matrix per SDG**	--	--		NYSDEC ASP - Category B	Precision
Trip Blank	1 per VOC cooler	--	--		NYSDEC ASP - Category B	Sensitivity
Equipment Rinse Blank	1 per day	--	--		NYSDEC ASP - Category B	Sensitivity
Laboratory QC						
Laboratory Control Sample	1 per matrix per SDG	--	--		NYSDEC ASP - Category B	Accuracy
Matrix Spike/Matrix Spike Duplicate/Matrix Duplicate***	1 per matrix per SDG	--	--		NYSDEC ASP - Category B	Accuracy/Precision
Surrogate Spike	All organics samples	--	--		NYSDEC ASP - Category B	Accuracy
Laboratory Duplicate	1 per matrix per SDG	--	--		NYSDEC ASP - Category B	Precision
Method Blank	1 per matrix per SDG	--	--		NYSDEC ASP - Category B	Sensitivity

Notes:
* Parameters include Temperature (°C), Hydraulic Conductivity (mS/cm), Dissolved Oxygen Concentration (mg/L), pH, Oxidation Reduction Potential (mV), and Turbidity (NTU)
** SDG - Sample Delivery Group - Assumes a single extraction or preparation
*** Provided to lab by field sampling personnel

FIGURE

1. SMP Sampling Network



LEGEND

MW-4	LOCATION AND DESIGNATION OF GROUNDWATER MONITORING WELL IN THE SAMPLING NETWORK
MW-5	LOCATION AND DESIGNATION OF GROUNDWATER MONITORING WELL NOT INCLUDED IN THE SAMPLING NETWORK
RW-1	LOCATION AND DESIGNATION OF LNAPL RECOVERY WELL
LNAPL	LIGHT NON-AQUEOUS PHASE LIQUID
ISCO	IN-SITU CHEMICAL OXIDATION
	CONCRETE VAULT
	PROPERTY BOUNDARY

NOTE

REFER TO AS-BUILT DRAWINGS FOR ELEVATION INFORMATION OF INSTALLED PORTIONS OF COVER SYSTEM.

30' 0 30'

Title:

SMP SAMPLING NETWORK

QUALITY ASSURANCE PROJECT PLAN
PARAGON PAINT AND VARNISH CORPORATION
LONG ISLAND CITY, NEW YORK

Prepared For:

CSC 4540 PROPERTY CO LLC

ROUX

Compiled by: C.H.	Date: 05JUN18	FIGURE
Prepared by: G.M.	Scale: AS SHOWN	1
Project Mgr: R.M.	Project: 2051.0001Y000	
File: 2051.0001Y254.01.DWG		

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APPENDICES

A. Professional Profiles

B. Laboratory Certifications

APPENDIX A

Professional Profiles

ROUX

PROFESSIONAL PROFILE

Christian Hoelzli

Project Engineer

TECHNICAL EXPERIENCE

Design, implementation, and management of Environmental Site Assessment and Subsurface Remedial Investigations. Remedial designs include product recovery systems, air sparging and soil vapor extraction, sub-slab depressurization systems, in-situ treatments, and remedial assessment and strategy associated with petroleum-related contamination and chlorinated solvents.

EXPERIENCE SUMMARY:

Five years of experience: Project Engineer at Roux Environmental Engineering and Geology, D.P.C., Islandia, New York

CREDENTIALS:

Engineer in Training (EIT), 2015
B.S. Civil and Environmental Engineering, Villanova University, 2015
OSHA 40-Hour HAZWOPER Training, 2015
OSHA 8-Hour Annual Refresher Training, Certificate Current
OSHA 30-Hour Construction Outreach Training, 2019
NYC DOB Site Safety Training, 2020
Amtrak Railroad Safety Training
Loss Prevention System® Awareness 8-Hour Certified
Transportation Worker Identification Credential (TWIC)

KEY PROJECTS

- Project Manager for three active petroleum bulk storage and distribution terminals in Newburgh, Inwood, and Glenwood Landing; New York with petroleum-impacted soil and groundwater. Terminals require system optimizations to improve protection of public health and the environment and maintain peak performance of five soil vapor extraction/air sparging systems and three groundwater remediation systems, while concurrently fulfilling NYSDEC regulatory reporting requirements per New York Code of Rules and Regulations (6 NYCRR) Part 750. Each soil vapor extraction system consists of multiple vapor extraction wells, a moisture separator, air dilution valve, in line filter screen, regenerative blower, and emissions stack. The groundwater remediation systems consist of air stripping units (packed tower), recovery and transfer pumps, associated piping, and multiple safety, control and isolation valves. Associated responsibilities include coordinating with the client and regulators, scheduling and management of staff and technical personnel, preparation of NYSDEC quarterly monitoring reports, monthly SPDES discharge monitoring reports, and other regulatory deliverables; coordinating facility upgrades and routine equipment maintenance, and collecting performance monitoring samples and data to track efficiency of remedies. Lead design of a large-scale air sparge / soil vapor extraction system at the Newburgh terminal to treat residual petroleum related impacts.

- Project Engineer and Field Manager for the design, construction, and O&M of an air sparge / soil vapor extraction system at a gas station with thermal off-gas treatment in Staten Island, New York. Responsibilities include equipment sizing and specification, communications with equipment vendors, retrofit design of system wells and equipment layout; construction oversight, system startup, system performance monitoring and optimization, and management of bimonthly O&M visits.

- Project Engineer responsible for the design and specification of an air sparge/ soil vapor extraction system with thermal off gas treatment at an offsite downgradient property in Brooklyn, New York. Responsibilities include preparation of a RAWP and 100% Design Letter to the NYSDEC, coordination with third party property owner, equipment sizing and specification, design of system wells and equipment layout within strict footprint constraints, preparation of subcontractor bid package, and construction management.

- Project Manager for a site in the New York State Brownfields Cleanup Program (BCP) that also required a RCRA compliant facility closure. The site is a former paint factory in Long Island City, New York. Due diligence environmental investigations determined historical site operations adversely impacted the subsurface including a LNAPL plume in addition to petroleum hydrocarbon impacts to the soil and groundwater. Responsibilities include management of implementation of the SMP, which includes coordinating quarterly groundwater monitoring events, operation and maintenance of LNAPL recovery system, inspection of RCA cap, and coordination of an ISCO injection program.

- Project Engineer responsible for design and implementation of a remote operated groundwater quality meter at an active railyard in Queens, New York.

- Engineering support to design injection program to remediate chlorinated volatile organic compounds observed in groundwater originating from a dry cleaner in Staten Island, New York. Responsibilities included selection of remedial product, designation of injection point locations, injection method, cost estimating, and alternative analyses.

- Field Engineer responsible for the operation and maintenance of a Dual Phase Vapor Extraction System (DPVE) consisting of 20 vapor recovery wells. The vacuum enhanced recovery system consisted of liquid ring pumps, pneumatic submersible pumps, low profile air stripper, bag filters, granular activated carbon units, and oil/water separator. Operated system in conjunction with a Surfactant injection program to treat groundwater for residual separate-phase petroleum hydrocarbons.

- Field Manager for excavation and site restoration of a former drainage pond and subsequent renovation into a public park in Glen Cove, New York. Responsibilities included subcontractor management, excavation oversight, installation of a floatables collection system, preparing daily reports, and interactions with local townspeople.

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JUDY V. HARRY
P. O. Box 208
120 Cobble Creek Rd.
North Creek, NY 12853

Occupation: Data Validator/Environmental Technical Consultant

Years Experience: 41

Education: B.S., Chemistry, Magna cum laude, 1976, Phi Beta Kappa

Certifications: New York State Woman-Owned Business Enterprise (WBE)

Relevant Work History:

Data Validation Services: September 1989 - present

Sole proprietor of Data Validation Services, a woman-owned small business registered with SAM, providing consultation/validation services to regulatory and commercial clients.

These services include the review of analytical laboratory data for compliance with respect to specific protocols, accuracy and defensibility of data, verification of reported values, and evaluation of quality parameters for analytical usability of results. Approved by USEPA, NYSDEC, NJDEP, NYSERDA, and NYCDEP as a data validator for projects, including USEPA Superfund, Brownfield, and lead sites, and those contracted through the NYSDEC Division of Hazardous Waste Remediation, Division of Solid Waste, and Division of Water Quality.

Performed validation for compliance with laboratory analytical protocols including USEPA OLM, USEPA OLC, USEPA ILM, USEPA DFLM, USEPA SOW3/90, USEPA SOW 7/87 CLP, USEPA SOW 2/88 CLP, USEPA SW846, RCRA, AFCEE, NYS 6 NYCRR Part 360, 40 CFR, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, including TO-15, 1989/1991/1995/2000/2005 NYSDEC ASPs, and 1987 NYSDEC CLP.

Performed validation according to the USEPA National and Regional SOPs and Functional Guidelines, AFCEE requirements, NYSDEC Validation Scope of Work, NYS DUSR, and NJDEP Division of Hazardous Site Mitigation/Publicly Funded Site Remediation SOPs.

Performed validation for USEPA Superfund Sites including Salem Acres, York Oil, Port Washington L-4 Landfill, Bridgeport Rental and Oil Services, GE-MRFA, MMR/ OTIS AFB, LCP, and Peter Cooper site; and for USEPA lead sites including SJ&J Piconne, Maska, Bowe System, Jones Sanitation, and Syossett Landfill, involving CLP, RAS, and SAS protocols.

Contracted for NYSDEC Superfund Standby Contracts with LMS Engineers, HDR, CDM Smith, Malcolm-Pirnie/ARCADIS, Ecology & Environment, Shaw Environmental, CG&I, O'Brien & Gere Engineers, and EC Jordan, involving samples collected at NYS Superfund Sites and analyzed under the NYSDEC ASP.

Performed validation services for NYSDEC Phase II remedial investigations, RI/FS projects, Brownfield sites, and PRP over-site projects for hazardous waste sites.

Performed validation services for clients conducting RI/FS activities involving samples of many matrices, including waste, air, sludges, leachates, solids/sediments, aqueous, and biota.

Clients have included AECOM, ARCADIS, Barton & Loguidice, Benchmark Engineering, Bergmann Associates, Blasland, Bouck & Lee, Brown and Caldwell, CDM Smith, CB&I Shaw Environmental, C&S Consulting Engineers, Chazen Companies, Clough Harbour & Associates, Columbia Analytical Services, C.T. Male, Dames & Moore, Day Engineering, EA Engineering, EcolSciences, Ecology & Environment, Ecosystems, EC Jordan, Environmental Chemical Corporation, EHRT, ENSR Consulting, ELM, ERM-Northeast, Fagan Engineers, Fanning Phillips & Molnar, FluorDaniel GTI, Frontier, Foster Wheeler Environmental Corp, Frontier Technical, Galson Consultants, GE&R, Geomatrix Consultants, GZA Environmental, Handex of N, H2M Group, HDR, HRP, IT Corp, Jacques Whitford, JTM Associates, Labella Associates, Langan Engineers, Leader Environmental, Lockwood, Kessler & Bartlett, LMS Engineers, Malcolm-Pirnie, Metcalf & Eddy, NWEC&C, O'Brien & Gere Engineers, Pace, Parsons Engineering-Science, Plumley Engineering, Prescott Environmental, P. W. Grosser, Rizzo Associates, Roux Associates, Sear Brown Group, SECOR, Shaw Environmental, Stantec, ThermoRemediation Inc., TRC Environmental, Turnkey Environmental Restoration, TVGA Engineering, URS Consultants, Wehran Emcon, Weston, YEC, and private firms.

Provided consultation services to laboratories regarding analytical procedures and protocol interpretation, and to law firms for litigation support.

Provided services to firms involving audits of environmental analytical laboratories to determine analytical capability, particularly for compliance with NYSDEC ASP and AFCEE requirements.

Guest speaker on a panel discussing Data Review/Compliance and Usability, for an analysis workshop for the New York Association of Approved Environmental Laboratories, 1993.

Adirondack Environmental Services: June 1987 - August 1989

Senior mass spectroscopist for AES. Responsible for GC/MS analyses of environmental samples by USEPA and NYSDEC protocols, development of the GC/MS laboratory, initiating the instrumental and computer operations from the point of installation, and for implementing the procedures and methodologies for Contract Laboratory Protocol.

CompuChem Laboratories: May 1982 - January 1987

Managed a GC/MS production laboratory; developed, implemented, and supervised QA/QC criteria at three different levels of review; and was responsible for the development and production of the analysis of environmental and clinical samples. Directed a staff of 23 technical and clerical personnel, and managed the extraction and GC/MS labs and data review operations.

Research Triangle Institute: December 1979 - May 1982

Worked as an analytical research chemist responsible for development of analytical methods for the EPA Federal Register at RTI. This involved analysis of biological and environmental samples for priority pollutants, primarily relating to wastewaters and to human sampling studies. Method development included modification and interfacing of the initially developed Tekmar volatile purge apparatus to GC/MS, development and refinement of methods for entrapment and concentration of the air medium for subsequent volatile analysis, and the analysis and resolution/ identification of individual PCB congeners within Aroclor mixtures by capillary column and mass spectra.

Guardsman Chemical Company: February 1977 - November 1979

Performed all quality control functions for the manufacturing plant. Performed research and development on coatings and dyes.

Almay Cosmetics: May 1976 - December 1976

Product evaluation chemist. Responsible for analytical QC of manufactured products.

Publication

Pellizzzari, E.D., Moseley, M.A., Cooper, S.D., Harry, J.V., Demian, B., & Mullin, M. D. (1985). Recent Advances in the Analysis of Polychlorinated Biphenyls in Environmental and Biological Media. *Journal of Chromatography*, 334(3) 277-314.

ROUX

PROFESSIONAL PROFILE

Omar Ramotar, P.E.

Principal Engineer/Office Manager

TECHNICAL SPECIALTIES

Engineering services for the investigation, design, construction, operation, maintenance and monitoring of remedial systems for the remediation of contaminated soil, sediment, and groundwater.

EXPERIENCE SUMMARY

Over 25 years of experience: Staff, Project, Senior, and Principal Engineer with Roux.

CREDENTIALS

B.E., Environmental Engineering, Hofstra University 1994

M.E., Environmental Engineering, Manhattan College 1995

Professional Engineer: New York, 2000

OSHA 40-hour Health & Safety Course, 1995

OSHA 8-hour Health & Safety Refresher Course, 1996-2019

KEY PROJECTS

- Project Manager and Principal-in-Charge for a multi-element (large scale removal action [45,000 cubic yards of impacted materials excavated and consolidated on-site/disposed off-site], large scale subsurface feature and UST removal action, and remediation and restoration of a 3.2-acre seasonal pond located in the Massapequa Preserve) remedial design of a USEPA Superfund Site in Nassau County, New York. Responsible for the Preparation of USEPA response letters, technical drawings, and 95% and 100% remedial design documents in accordance with the Record of Decision and Consent Judgment.

- Project Manager and Principal-in-Charge for design of a natural wastewater treatment solution for a 3,000-acre new industrial complex in Saudi Arabia. Roux Associates was tasked to design an Engineered Natural System (to treat all wastewaters: sanitary, process and stormwater) from construction through operation, incorporate transitioning through phases, and plan for future expansion of the facility and increased wastewater flow rates. The 23-acre ENS was designed to treat a total flow of 1.4 million gallons per day. The major system components include: dump station with five truck hookup ports to collect and convey sanitary wastewater during construction of the facility; three primary sedimentation and anaerobic treatment tanks; one oil/water separator; six patented enhanced subsurface flow constructed treatment wetlands; two down flow disinfection filters; UV disinfection system; One treated water holding tank which conveys the treated water back to the facility for reuse within the refinery and as irrigations for landscaped areas; two infiltration basins; and six activated alumina treatment cells to remove fluoride from facility stormwater runoff.

- Project Manager and Principal-in-Charge for the bidding, contractor selection, and remediation of the wetland and canal portions of a 440-acre tract in western Staten Island that was used as a Major Oil Storage Facility (MOSF) for petroleum products until the end of 1995. Responsible for the preparation of a Remedial Action Work Plans, technical drawings, and 95% and 100% remedial design documents and for the remedial construction phase in accordance with the Site-specific Consent Order issued by the NYSDEC. Key elements of the Work include dredging/excavation of approximately 20,000 cubic yards of petroleum and lead impacted sediments/soils, off-site disposal, on-site capping and restoration of approximately 6.5 acres of disturbed wetlands. Routine activities included coordinating weekly construction meetings; preparing detailed NYSDEC monthly construction progress reports; ensuring Contractor compliance with remedial design, CAMP and project-specific erosion and sedimentation controls; and managing the overall project budget and schedule.

- Project Manager and Principal-in-Charge for the bidding, contractor selection, and remediation of a New York State Superfund Project. Responsible for the preparation of a Remedial Action Work Plans, technical drawings, remedial design documents and for the remedial construction phase in accordance with the Amended Record of Decision issued by the NYSDEC. Key elements of the Work include excavation and off-site disposal of approximately 20,000 tons of VOC impacted soils, on-site capping and in situ chemical oxidation. Routine activities included coordinating weekly construction meetings and preparing associated meeting minutes; preparing detailed NYSDEC monthly construction progress reports; ensuring Contractor compliance with remedial design, CAMP and project-specific soil erosion and sedimentation controls; and managing the overall project budget and schedule.

- Project Manager for the bidding, contractor selection, and remedial construction phase at a 40-acre former metals manufacturing facility in Staten Island under the NYSDEC Voluntary Cleanup Program. Responsible for overall construction management for dredging/stabilization and off-site disposal of approximately 7,000 cubic yards of metal-impacted sediments from a tidally influenced embayment area and creek system, off-site disposal of approximately 3,000 cubic yards of sediment, on-site consolidation of approximately 4,000 cubic yards of sediment; capping of fill material/bank stabilization; in-place abandonment of former water and sanitary sewer system; construction of an 8 acre asphalt cap, installation of new stormwater sewer system and restoration and mitigation of approximately 2 acres of wetland areas disturbed by ongoing remedial activities. Routine activities included coordinating weekly construction meetings; preparing detailed NYSDEC monthly construction progress reports; ensuring Contractor compliance with remedial design; and managing the overall project budget and schedule.

- Project Construction Manager for a NYCDEP storm and sanitary sewer construction project in Brooklyn, New York. Work included design and construction of approximately 690 linear feet of RCP storm sewer,

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Omar Ramotar, P.E.
Principal Engineer/Office Manager

approximately 725 feet of ductile iron sanitary sewer, 6 new house connection spurs, new sewer and sanitary manholes and 12,000 square feet of asphalt removal and replacement. Routine activities included coordinating weekly construction meetings; ensuring Contractor compliance with remedial design, CAMP and SWPPP implementation; and managing the overall project budget and schedule.

- Project Manager for the preparation of a Feasibility Study Report and ongoing remediation of a 40-acre former manufacturing facility in Rensselaer, New York as part of the NY State Superfund Program. Responsible for the preparation and implementation of multiple large-scale IRM soil removal remedial actions resulting in approximately 12,000 tons of non-hazardous waste and 10,720 tons of hazardous waste shipped off-site. Also, responsible for the preparation and implementation of the remediation of two 80,000-square foot former wastewater treatment lagoons. Approximately 7,000 cubic yards of hazardous waste sediments shipped off-site. Approximately 4,000 cubic yards of riprap lining the perimeter of both lagoons mechanical screened to remove interstitial sludge within the riprap matrix. NYSDEC approval gained for on-site reuse of 3,200 tons of riprap saving the client approximately $400,000 in disposal costs. Provided ongoing support for various tasks associated with constructing, operating and maintaining the on-site groundwater treatment system.
- Principal Engineer and Project Manager for On-Site Environmental Monitor (OEM) Program implemented at the largest redevelopment project in New York City (over $5 billion). Required to ensure environmental compliance with regards to air, storm-water, noise, traffic and other relevant environmental concerns during the performance of any construction related activity across the 22-acre redevelopment project Site. The Project consists of the construction of 30 buildings (commercial and residential); eight (8) acres of public open space and approximately 1,200 below grade parking spaces and some retail and community facility uses. The Project also includes the development and construction a new storage and maintenance rail yard facility for the Long Island Rail Road (LIRR) below grade across two city blocks over which a platform will be constructed along with six of the Project buildings and some of the open space.

Additional Soil and Groundwater Remediation Experience

- Principal in Charge and Project Manager for the preparation and implementation of a Remedial Action Work Plan (RAWP) at a former ink ribbon and carbon manufacturer in Glen Cove, New York. Scope of work included the removal of approximately 20,000 tons of listed-hazardous toluene-contaminated soil at various final excavation depths within 1.4-acre area, followed by ISCO injections across the excavated area. All on-site sources of contamination were removed and on-site groundwater was remediated to Site cleanup levels within 18 months from initiation of Site construction activities. Prepared Final Engineering Report (FER) and Site Management Plan (SMP) as required by the NYSDEC.
- Principal in Charge and Project Manager for the source-area excavation and treatment of groundwater and soil grossly impacted by light non-aqueous phase liquid (LNAPL), volatile organic compounds (VOCs), and hazardous materials at a 33,150 square foot lot entered into a NYSDEC Brownfield Cleanup Agreement site in Long Island City, New York. Prepared and certified the NYSDEC-required Remedial Action Work Plan, Site Management Plan and Final Engineering Report. Remediation efforts included removal of approximately 5,000 tons of grossly contaminated material removal using steel sheet piling and disposal/abandonment eleven (11) underground storage tanks (USTs) ranging in size from 2,000 to 25,000+ gallons that contain diesel fuel/fuel oil, mineral spirits, and linseed oil. In Situ Chemical Oxidation (ISCO) injections completed to address residual VOC contamination in soil and groundwater during the performance of the remedial action.
- Project Manager for the remedial design and remediation of a 23-acre former municipal landfill located in Glen Cove, New York as part of the NY State Superfund Program. The work was performed in accordance with Title 3 of the NYS Environmental Quality Bond Act under contract to the City of Glen Cove. Design elements included excavation of hazardous and radiological waste (8,500 cubic yards in total), 44,000 cubic yards of bulky waste, VOC and radiological waste monitoring, demo debris and waste separation and screening, dewatering, waste disposal, capping and site restoration. Additional work included the de-listing of a six acre "clean" portion of the site to allow the development of a ferry terminal and esplanade and development of alternative cleanup standards consistent with future site uses. Site remediation will accommodate site redevelopment as a commercial waterfront and operating ferry service and seaport area.
- Project Manager for the investigation and remediation of several sites spanning multiple blocks for a major pharmaceutical company in Brooklyn, New York. Environmental investigation is being conducted in preparation of possible property transfer. Responsibilities include development and preparation of investigation and remedial action work plans and coordination and management of resulting field investigation and remediation efforts. Project Engineer for a SVE/AS system to treat groundwater contaminated with VOCs and chlorinated VOCs at one 0.8-acre block. Designed and performed two SVE/AS pilot studies. Designed the full-scale SVE/AS system. Managed bidding, contractor selection, remedial construction, system start-up, operation, maintenance and monitoring phases for the full-scale SVE/AS system.

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Principal Engineer/Office Manager

- Project Manager for the design of a soil and groundwater remediation system for a nationwide overnight delivery distribution center in Brooklyn, New York as part of the NYSDEC Voluntary Cleanup Program. A risk based remedial approach that called for the remediation of "hot spot" source area soils and mass-reduction of VOCs was successfully utilized for the Site. As a result, the focus of remediation was on reducing the mass of VOCs in on-site groundwater to a level where natural attenuation would be effective in remediation of VOCs. To address the contamination in the source area, a SVE/AS system consisting of 8 SVE wells and 17 AS wells was designed, constructed, operated, and maintained for a period of approximately 3 years. The SVE/AS system has been permanently shut down and the Site is currently in the post-remediation monitoring phase.
- Project Manager for the remediation of a former major pharmaceutical plant located in Hicksville, New York as part of the NY State Superfund Program. The project consisted of the excavation of non-hazardous soil from 5 on-site drywells and a former waste disposal area, implementation of a community air monitoring plan, coordination with the Long Island Rail Road (LIRR) for work performed within the LIRR's right of way, steel sheeting installation and removal, backfilling, monitoring well abandonment and replacement, transportation and disposal of 3,300 tons of VOC, SVOC and metal contaminated soil, and restoration of approximately 9,800 square feet of asphalt. A 7-foot diameter steel caisson was used to support the deeper excavation required at the invert of two drywells. This innovative approach saved the client approximately $50,000 in costs that would have been incurred by using a traditional steel sheeting support system to protect the on-site commercial building.
- Project Engineer for the complete design, implementation and startup of five distinct air sparge (AS) and soil vapor extraction (SVE) systems for the remediation of gasoline contaminated groundwater and soils. Pilot studies were performed at several locations at an 850-acre petroleum terminal site in Rhode Island and lead to the design of full-scale AS and SVE remediation systems that are being used in a phased approach, to remediate selected areas of the site. The designs included specialized modeling techniques to determine the optimum system requirements and components.
- Project Engineer for the design and construction management of a soil remediation project at a 28-acre former pesticide warehouse facility in Dayton, New Jersey. The project consisted of the excavation and on-site consolidation and capping of 7,500 cubic yards of pesticide contaminated soil. The capped areas were designed to be incorporated into a Site re development plan for use as a storage and trailer parking lot. A Soil Erosion and Sedimentation Control Plan and a NJPDES General Permit were prepared for the project.
- Project Engineer for the design and remediation of a former sanitary wastewater leaching system at a 16.6-acre NYS RCRA site in Bethpage, New York. The project consisted of the excavation, staging, transportation, and disposal of VOC, SVOC, metal and pesticide contaminated soil. Approximately, 5,100 tons of non-hazardous soil, 1,300 tons of hazardous metals contaminated soil and 350 tons of hazardous VOCs contaminated soil. Structures remediated consisted of an imhoff tank, 33 leach pools, 2 distribution boxes, 2 stormwater drains, 2 sludge drying beds, and a blast fence area.
- Staff Engineer for the preparation and implementation of a Soil IRM plan for a major pharmaceutical plant in Brooklyn, New York as part of the NYSDEC Voluntary Cleanup Program. Work elements included contractor plan preparation, steel sheeting and removal, excavation of hazardous and non-hazardous waste, VOC and particulate monitoring, dewatering water management, waste transportation, disposal and tracking, backfill placement and compaction. IRM Soil remediation included excavation of over 1,620 tons of non-hazardous soil and 524 tons of hazardous soil.
- Senior Engineer for design and construction of several elements of a 40 gpm treatment system for a 40-acre former manufacturing facility in Rensselaer, New York. BASF Site. Design support for 4,000 linear feet of collection trenches, 7 extraction well vaults, 2 air release chambers, and 2 groundwater re-injection galleries and a 50 foot by 60-foot treatment system containment pad. Coordination of construction efforts between mechanical and electrical contractors.
- Project Engineer for preparation and certification of Final Engineering Report and Site Management Plans for remediation of a 40-acre former metals manufacturing facility in Staten Island under the NYSDEC Voluntary Cleanup Program. Remediation included dredging/stabilization and off-site disposal of approximately 7,000 cubic yards of metal-impacted sediments from a tidally influenced embayment area and creek system, off-site disposal of approximately 3,000 cubic yards of sediment, on-site consolidation of approximately 4,000 cubic yards of sediment; capping of fill material/bank stabilization; in-place abandonment of former water and sanitary sewer system; construction of an 8 acre asphalt cap, installation of new stormwater sewer system and restoration and mitigation of approximately 2 acres of wetland areas disturbed by ongoing remedial activities. Routine activities included coordinating weekly construction meetings and preparing associated meeting minutes; preparing detailed NYSDEC monthly construction progress reports; ensuring Contractor compliance with remedial design; and managing the overall project budget and schedule.

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- Project Engineer for preparation of Final Engineering Report and Site Management Plan for the remediation of a 40-acre former manufacturing facility in Rensselaer, New York as part of the NY State Superfund Program. Remediation included: multiple large-scale IRM soil removal remedial actions resulting in approximately 12,000 tons of non-hazardous waste and 10,720 tons of hazardous waste shipped off-site; remediation of two 80,000-square foot former wastewater treatment lagoons; groundwater containment and treatment system construction and Site-wide capping.

Additional Feasibility Study Experience

- Principal Engineer for the preparation of a Feasibility Study Report for a NYS Superfund Site in Glen Cove, New York. The Site is approximately 15 acres in size with a 1.4-acre portion of the site impacted by historical disposal of industrial wastes. Approximately 10,000 cubic yards of non-hazardous and hazardous waste has been identified to be potentially shipped off-site.
- Principal Engineer for preparation of a Focused Feasibility Study to optimize ongoing free-product recovery efforts for an 18-million-gallon release of petroleum hydrocarbon product from a former refinery and petroleum storage terminal in Brooklyn, New York. The remedial action objectives of the feasibility study were: removal of free product to the extent practicable, prevention and/or elimination of any product seeps from the Site that result in visual petroleum product sheens on surface water and eliminate through removal, treatment, and/or containment the source of surface water contamination to the extent practicable. Technologies evaluated and retained included: Excavation, skimming, dual pump liquid extraction, water flooding, surfactant enhanced subsurface remediation, cosolvent flushing, vapor enhanced fluid recovery, enhanced fluid recovery, and natural source zone depletion.
- Project Manager and Senior Engineer for the preparation of a Remedial Action Selection (RAS) Report for a 9-acre landfill in Rensselaer, New York as part of the NYSDEC Voluntary Cleanup Program. The primary goal of the RASR was to select a remedial alternative that was most protective of human health and the environment under the contemplated future use of the Site as a landfill with an integrated wildlife habitat vegetative cap. The final remedy for the landfill will include 1,000 linear feet of perimeter groundwater collection trenches, a 40-gpm treatment system for metals and VOCs and excavation and in situ chemical oxidation of VOC source areas.
- Project Engineer for the preparation of a Focused Feasibility Study (FFS) Report for the remediation of two dry wells at a formerly government owned, contractor operated, 105-acre New York State RCRA site in Bethpage, New York. The soils below and in the vicinity of each drywell were contaminated at various locations from 2 to 55 feet below land surface (bls) with PCBs exceeding NYSDEC standards. The FFS evaluated the following options: no action, in situ thermal desorption and excavation and off-site disposal. The no action alternative was recommended because the Site characterization and exposure assessment results indicated that there was no potential risk to persons using the Site for commercial or industrial activities, PCB impacted soils had been previously excavated to a depth of 28 feet bls and because PCBs are generally immobile in the environment, so migration is unlikely.

Additional Miscellaneous Design Experience

- Project Engineer for the design and construction management of a private vehicle fueling area at a New York City railyard. System components included: UST and process piping, level/monitoring systems, pump dispenser and keycard system, pump island, canopy and fire suppression system. Design met all substantive requirements of the New York City Fire Department (NYCFD) and New York City Department of Buildings (NYCDOB). Tasks included equipment selection, equipment sizing, piping layout, preparation of plans and specifications and shop drawing review and approval.

Additional Stormwater Design Experience

- Project Engineer for the design and construction management of a stormwater drainage project for a 28-acre former chemical pesticide manufacturing facility located in Dayton, New Jersey. The stormwater drainage system consisted of multiple catch basins, over 2,000 linear feet of reinforced concrete pipe ranging in size from 15 to 30 inches, and a recharge basin. The TR 55 computation method was used to size the drainage system for a 25-year storm event. The drainage system was designed in strict accordance with the New Jersey Department of Environmental Protection (NJDEP), the New Jersey Soil Conservation District (NJSCD) and the local planning departments.

Additional Engineered Natural System Design Experience

- Senior Engineer for the design of a compost treatment (CT) cell retrofitted into an existing sludge drying bed located at an integrated aluminum smelting and fabricating facility in Massena, New York. The principal objective of the CT will be to remove and sequester low level PCBs in the Site wastewater stream prior to discharge to the Site's permitted outfall. The proposed CT cell will be incorporated into the wastewater treatment process to evaluate PCB treatability in a CT environment as an alternative to other technologies currently being considered for the Site. The CT cell will be designed to accommodate variable hydraulic loading rates (10 to 70 gpm) and retention times in order to evaluate and define optimal system performance.
- Senior Engineer for the design of two pilot scale compost treatment (CT) systems for stormwater management at an active aluminum manufacturing facility in Lafayette, Indiana. The design included the

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retrofit of a 1,000 gallon above-grade septic tank (to handle a variable flow of 0.1 to 1 gpm) and a 100,000 gallon above-grade storage tank (to handle a variable flow of 10 to 50 gpm). The remedial goal of the pilot CT systems is for the removal of PCBs and aluminum from stormwater currently collected in the on-Site 100,000-gallon storage tank. The pilot systems were designed for incorporation into the existing stormwater system, thus precluding the need for additional permitting. The systems have been designed for year-round operation.

- Senior Engineer for the development of design improvements for a 45-acre former Landfill in Holtsville, New York to minimize the source of contamination to a downgradient pond and its' associated creek. A detailed budget water analysis was performed comparing current and proposed conditions to determine the best methods to minimize infiltration into the landfill and divert the stormwater runoff to the onsite recharge basin and away from the landfill. The proposed strategy currently entails modifying the existing stormwater conveyance controls (i.e., lining drainage swales), reducing the permeability of the landfill surface through the addition of recreational areas and lined stormwater storage ponds, and planting hybrid poplar trees to increase evapotranspiration at the Landfill. Overall, these modifications would be expected to reduce annual infiltration in the landfill surface from 24 inches to 18 inches, equivalent to approximately 8.2 million gallons of water annually.
- Project Engineer for the design of structural SMPs to manage runoff generated from a LEED certified 70,000 ft2 athletic facility, which is being constructed as part of a redevelopment of a 110-acre park facility in Staten Island, New York. Innovative structural stormwater management practices incorporated into the Site design include the following: micropool extended detention pond and infiltration basin. The pond will be comprised of a sedimentation forebay, shallow marsh, and pond. Suspended solids will drop out as runoff passes through the forebay, thereby enhancing treatment performance, reducing maintenance, and increasing the longevity of the system. The permanent pool provides additional dry storage capacity to mitigate peak flow rates prior to discharge into the overflow meadow. The forebay and pond are designed with shallow ledges along its fringe to support aquatic marsh plants. These wetland plants will aid in the stormwater treatment by impeding flow and trapping contaminants as they enter the forebay and pond. The fringe vegetation will stabilize and protect deposited sediments from resuspension during large storm events. The fringe wetland plants will include species such as rushes, reeds, and sedges, designed to improve water quality through the trapping and filtering of fine particles and soluble pollutants (metals, organics, and nutrients). Effluent from the micropool extended detention pond will then be discharged to an infiltration basin (i.e., Overflow Meadow) planted with a variety of native wildflower and wetland species for groundwater recharge.
- Project Engineer for the design of a pilot constructed treatment wetland system to treat stormwater discharge from an aluminum manufacturing facility located in Massena, New York. The 0.3-acre treatment system uses activated alumina and compost filter cells, and a sub-surface flow wetland to treat 1,400-4,300 gallons of stormwater daily.

Additional Operation and Maintenance (O&M) Experience

- Senior Engineer responsible for supporting the OM&M of a 40 gpm treatment system for a 40-acre former manufacturing facility in Rensselaer, New York. Processes and system maintained include aeration, bag filtration, air stripping, metals adsorption, liquid and vapor phase carbon adsorption.
- Senior Engineer responsible for the O&M and monitoring of a soil vapor extraction (SVE) and air sparge (AS) system for nationwide distribution center in Brooklyn, New York as part of the NYSDEC Voluntary Cleanup Program. O&M activities included system operation and maintenance, performance monitoring, soil gas monitoring, quarterly monitoring, and preparation of quarterly and annual status reports for submission to the NYSDEC. The SVE and AS system consists of 8 SVE wells and 17 AS wells and was designed, constructed, operated and maintained for a period of approximately 3 years. The SVE and AS system has permanently shut down and the Site is currently in the post-remediation monitoring phase.
- Project Engineer responsible for the O&M of a 430 gpm, dual-phase, product recovery system in Greenpoint, Brooklyn, New York. Processes and system maintained include dual-phase groundwater and product recovery, low profile air strippers and a catalytic oxidation unit. The Site encompasses one of the nation's largest petroleum releases (18 million gallons).
- Project Engineer for the metals removal system upgrade of a 430 gpm, dual-phase, product-recovery system in Greenpoint, Brooklyn, New York. Upgrades included design, procurement and construction oversight to install a metals removal system, allowing the remedial system to run at full capacity with minimal O&M. The metals removal system included two 10-foot diameter continuously backwashing sand filters, process liquid aeration system and ancillary equipment. The pre-design phase also included the performance of an extensive bench study to optimize the system design.
- Project Engineer for the control system upgrade of a 430 gpm, dual-phase, product-recovery system in Greenpoint, Brooklyn, New York. Upgrade included design procurement and construction oversight to install a new control system to eliminate intermittent power surges and sags which, in combination with the communication problems, had caused the previous control system to operate unpredictably. These

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upgrades included installation of new remote input/output systems, new uninterruptible power supplies and new remote communication cables at all six remote well sites.

- Staff Engineer for the O&M of a product recovery system in Howard Beach, New York. O&M activities include system maintenance and performance monitoring through on-site and off-site monitoring wells.
- Staff Engineer for the O&M of a 40 gpm groundwater remediation system at an industrial facility in Queens, New York as part of the State Superfund Program. O&M activities included system maintenance, effluent sampling, quarterly monitoring, and preparation of quarterly and annual status reports for submission to the NYSDEC.
- Staff Engineer for the design, implementation and O&M for two remedial treatment facilities to remediate groundwater impacted by leaking USTs at two service garages owned by a New York state telecommunications company. System was designed to treat groundwater at a flow-rate between 5 and 10 gpm using granular activated carbon adsorption treatment units.

Additional Health and Safety Management or Facility Decontamination or Demolition Experience

- Principal Engineer for the decontamination and decomissioning (D&D) of a 700,000+ square foot facility, in Brooklyn, New York for a major pharmaceutical company. The D&D activities were performed to allow for future use of the former facility for commercial, retail, and/or industrial purposes after renovation and redevelopment by others, by removing, cleaning, encapsulating or otherwise abating: (1) contaminants in indoor concrete identified during previous environmental investigations, (2) pharmaceutical manufacturing residues in ductwork identified during previous environmental investigations, (3) pharmaceutical manufacturing residues in select existing manufacturing infrastructure [including but not limited to relic air handling units (AHUs), dust collection systems, and air exhaust units], and performing partial interior building demolition and cleaning in connection with such infrastructure, (4) the horizontal drain piping associated with the eighth floor laboratories, and (5) paint containing polychlorinated biphenyls (PCBs) at a concentration of 50 milligrams per kilogram (mg/kg) or greater.
- Senior Engineer responsible for providing both worker and community Health and Safety through the monitoring of air particulates and VOCs during the electrical upgrade of pharmaceutical manufacturing facility in Brooklyn, New York. All work was performed in accordance with OSHA, NYSDEC and USEPA protocols for worker and community health and safety monitoring.
- Senior Engineer responsible for providing both worker and community Health and Safety through the monitoring of air particulates and VOCs during the construction of a parking lot redevelopment project for a pharmaceutical manufacturing facility in Brooklyn, New York. All work was performed in accordance with OSHA, NYSDEC and USEPA protocols for worker and community health and safety monitoring.
- Staff Engineer and Site Health and Safety Officer for the decommissioning of a pharmaceutical manufacturing facility in Brooklyn, New York. Responsibilities included construction oversight of all contractors for the following: dewatering, removal of 26 USTs ranging in capacity up to 30,000 gallons, excavation and stabilization of soil contaminated with VOCs, lead and mercury, and disposal of all waste generated. Additional responsibilities included providing both worker and community Health and Safety through the monitoring of air particulates, VOCs and mercury vapors. All work was performed in accordance with OSHA, NYSDEC and USEPA protocols for worker and community health and safety monitoring.
- Staff Engineer and Site Health and Safety Officer providing construction oversight and management for the completion of a building demolition and UST Removal Program at a metals manufacturing facility in Staten Island, New York. The project included asbestos and lead abatement oversight prior to building demolition activities and the removal of six 550-gallon gasoline USTs, one 1,000-gallon No. 2 fuel oil UST and one 600-gallon No 2 fuel oil UST. A total of four buildings, two smelting kettles, a 200-foot emissions stack and a 50-foot water tower were removed as part of the demolition program. Responsibilities included providing both worker and community Health and Safety through the monitoring of air particulates and VOCs, performing all required sampling, waste disposal tracking to document all activities performed, providing construction oversight of all contractors and preparing weekly progress reports.

Additional UST Experience

- Staff Engineer for the excavation oversight of 11 gasoline USTs, one waste oil UST, three pump islands and all associated underground and aboveground piping at a national railroad company in Queens, New York. Field oversight included post-excavation and waste characterization soil sampling, health and safety monitoring, supervision during the removal of the USTs and preparation of a Closure Report.
- Staff Engineer for the excavation oversight of three 8,000-gallon USTs, two pump islands and all associated piping at a service station in Greenwich, New York. Field oversight included post-excavation and waste characterization soil sampling, health and safety monitoring, supervision during the removal, cleaning, and disposal of the USTs and preparation of a Closure Report.

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ROUX

PROFESSIONAL PROFILE

Wai Kwan, Ph.D., P.E.

Principal Engineer

TECHNICAL SPECIALTIES

Environmental chemistry, engineered natural systems, PCBs, chlorinated solvents, design of remediation systems utilizing traditional and innovative techniques.

EXPERIENCE SUMMARY

Over 14 years of experience as a Principal, Senior, and Project Engineer with Roux Associates, Inc.

CREDENTIALS

Ph.D., Environmental Engineering, Massachusetts Institute of Technology, 2003
M.S., Environmental Engineering, Massachusetts Institute of Technology, 1999
B.S., Chemistry, California Institute of Technology, 1997
B.S., Engineering & Applied Science, California Institute of Technology, 1997
Professional Engineer – New York, California

PUBLICATIONS/PRESENTATIONS/ABSTRACTS

Proactive Evaluation of PRP Status at Hazardous Waste Disposal Sites. Sullivan, D., Kwan, W. P., Gerbig, C. A., and Moore, C., Environmental Claims Journal, 27(2), 2015.

Extricating Membership as a PRP at Hazardous Waste Disposal Sites. Ram, N. M., Kwan, W. P., Gerbig, C. A., and Moore, C., Remediation Journal. Spring 2014.

Long-Term Performance of a Phytoremediation Cap. Kwan, W. P., USEPA Engineering Forum, August 2012.

Long-Term Performance of an Integrated CTW/Phyto Cap System. Kwan, W. P., and W. Eifert, 8th International Phytotechnology Society Conference, 2011.

Large-Scale Enhanced Reductive Dechlorination for the Remediation of Chlorinated Volatile Organic Compounds. Kwan, W. P., Senh, S., and Netuschil, G., Proceedings of The Seventh International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Paper F-036, 2010.

Predicting Oxidation Rates of Dissolved Contaminants During In Situ Remediation Using Fenton's Reaction. Kwan, W. P., and B. M. Voelker, Abstracts of Papers of the American Chemical Society, 228(352 ENVR), 2004.

Influence of Electrostatics on the Oxidation Rates of Organic Compounds in Heterogeneous Fenton Systems. Kwan, W. P. and B. M. Voelker, Environmental Science & Technology, 38(12), 2004.

Rates of Hydroxyl Radical Generation and Organic Compound Oxidation in Mineral-Catalyzed Fenton Like Systems. Kwan, W. P. and B. M. Voelker, Environmental Science & Technology, 37(6), 2003.

Decomposition of Hydrogen Peroxide and Organic Compounds in the Presence of Dissolved Iron and Ferrihydrite. Kwan, W. P. and B. M. Voelker, Environmental Science & Technology, 36(7), 2002.

Heterogeneous Fenton-Like Chain Reactions Initiated by Iron Oxides. Kwan, W. P. and B. M. Voelker, Abstracts of Papers of the American Chemical Society, 200(283 ENVR), 2000.

PROFESSIONAL AFFILIATIONS

American Chemical Society
American Society of Civil Engineers

KEY PROJECTS

In Situ Remediation

- Designed and oversaw construction of a full-scale in situ enhanced bioremediation treatment system for groundwater impacted with chlorinated volatile organic compounds (CVOCs) at an 18-acre former electronics manufacturing facility in Taiwan. Evaluated the effectiveness of different substrates for in situ treatment from the results of two concurrent 6-month pilot studies, resulting in selection of enhanced bioremediation. The full-scale treatment system consists of over 9,000 feet of piping and 189 molasses injection wells. The technology decreased tetrachloroethene (PCE) concentrations by 99 percent, trichloroethene (TCE) concentrations by 98 percent, and total CVOC concentrations by 96 percent.
- Project Manager for the injection of 10,280 gallons of Fenton's reagent to address groundwater contaminated with PCE and its breakdown products associated with a former PCE reclamation facility in Brooklyn, New York. The design focused on the source area and two downgradient hot spots that exhibited concentrations of dissolved CVOCs in parts per million and used a proprietary method to activate the Fenton's reagent.
- Project Manager for the remediation and closure of a former dry cleaner site in Brooklyn, New York, under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program. Managed field staff and provided engineering support during excavation and removal of 55 cubic yards of soil and concrete impacted by PCE and its breakdown products from a basement. Provided design and management of injection of 1,700 pounds of potassium permanganate solution to treat CVOCs in groundwater. Prepared Remedial Action Work Plan, permit application, daily construction reports, Final Engineering Report (FER) and Site Management Plan (SMP). Interacted with client, contractor, and regulatory agency project manager.
- Field Engineer for the remediation of a NYSDEC Brownfield Site in Staten Island, New York. Supervised the removal of soil and groundwater contaminated with

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Principal Engineer

hazardous levels of PCE and TCE released from a defunct dry cleaner. Evaluated the performance of molasses injections to enhance in situ bioremediation of impacted groundwater. Prepared the Final Engineering Report to document the remedial action.

- Prepared reports that evaluated bench scale and field scale results of using surfactant-enhanced subsurface remediation technology to enhance free-product recovery at an active railroad yard in Sunnyside, Queens, New York. Coordinated lab and field activities with a surfactant vendor, performed literature review, designed a multi-month field scale treatability study, and evaluated the findings for potential application during full scale remediation.
- Prepared a treatability study work plan to evaluate the feasibility of using surfactant-enhanced subsurface remediation technology to enhance free-product recovery at a former petroleum refinery and distribution terminal in Greenpoint, Brooklyn, New York. Corresponded with surfactant vendors, performing literature review, designed a bench scale treatability study, and assessed the feasibility of implementing enhanced recovery of residual free-product in the regional aquifer that is exhibiting decreases in recovery rates via dual-pump liquid extraction.

Landfills

- Project Manager for the remediation of a former petroleum refinery terminal in Buffalo, New York, under the NYSDEC Brownfield Cleanup Program. Prepared conceptual and final designs for stabilization of 1,400 linear feet of river embankment using tiered slopes, rip rap, and reinforced bioengineering as part of a landfill closure remedial action. The stabilized shoreline uses a variety of flora and land features to create multiple habitats for aquatic and terrestrial lifeforms, while also serving as a component of the vegetated landfill cover. Prepared Alternatives Analysis Report to document analysis of engineering options and remedy recommendation. Prepared permit application, Remedial Design and Bid Document for implementation of remedy. Reviewed contractor submittals. Provided oversight and engineering support during remedy construction. Prepared FER and SMP.
- Project Manager for the performance of a Corrective Measures Study (CMS) at a 30-acre land parcel undergoing RCRA Corrective Action in Williamsburg, Virginia. The site is a former fibers manufacturing facility, and a RCRA regulated landfill is located within the parcel. The CMS was conducted to identify, evaluate, and recommend a final remedy to address zinc-impacted groundwater discharging to a tributary. Managed multi-person field crew who installed multiple monitoring wells, gauged and sampled groundwater, and conducted slug tests. Analyzed the CMS data to show more than 96 percent of the zinc loading is attributed to groundwater discharge along approximately 20 percent of the shoreline. Proposed a final remedy consisting of a 6.5-acre phytotechnology cover and 960 linear feet of compost reactive barrier, at a significantly lower cost compared to conventional treatment approaches.

Regulated Sites

- Engineer for the remediation of soil and soil vapor impacted by the release of approximately 1,500 gallons of fuel at an operating gas station in San Bernardino County, California. Designed and involved in the operation of a soil vapor extraction (SVE) system consisting of five extraction wells focused on addressing the source area spanning 55 vertical feet.
- Engineer for the remediation of soil and soil vapor impacted by the release of PCE from a former dry cleaner in Compton, California. Prepared a pilot study to evaluate the feasibility of expanding the current SVE system to treat impacted soil and soil vapor at shallow and deep intervals underneath an existing supermarket.
- Operations Deputy for rapid mobilization and coordination of over 75 people to screen and sample for lead and other heavy metals in soil across 500 residences within 1.7 miles of the source in 10 days in the County of Los Angeles, California. Soil screening involved use of handheld x-ray fluorescence analyzer. Provided laboratory coordination, logistics and technical support, and QA/QC check of data.
- Engineer for the conceptual design of a two-acre engineered phyto cap for a site in Los Angeles County, California. The site is approximately seven acres and contains a waste dump and two abandoned oil production wells. The engineered phyto cap is designed to mitigate the potential for exposure of future residents to trash materials and is incorporated into the private, community-use park.
- Project Manager for a SVE and air sparge (AS) system to treat groundwater contaminated with VOCs and CVOCs at a 0.8-acre NYSDEC Voluntary Cleanup Site in Brooklyn, New York. Designed and performed two SVE/AS pilot studies. Designed the full-scale SVE/AS system. Provided oversight during installation of the full-scale SVE/AS system. Prepared the FER and SMP. Managed daily operations of the SVE/AS system and groundwater gauging and sampling personnel. Responsible for communications with the NYSDEC and reviewing progress reports.
- Project Manager for the performance of multiple soil, groundwater, and soil vapor investigations at a NYSDEC Voluntary Cleanup Site in Brooklyn, New York. Prepared reports, work plans and directed field

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staff in the collection of discrete soil, groundwater, and soil vapor samples to delineate the extent of CVOC contamination in groundwater, soil, and soil vapor. Used membrane interface probe (MIP) technology as a screening tool to focus subsequent sample collection efforts and to reduce overall investigation costs.

- Senior and Project Engineer for the evaluation of methods to treat petroleum impacted soils at a former petroleum refinery terminal in Buffalo, New York. Evaluated bench scale studies using organoclay, nitrate, RegenOx, cement/slag, and lime kiln dust. Designed, supervised, and evaluated the performance of favorable treatment agents based on results generated from pilot scale field tests. Also critiqued scanning electron microscopy photographs and energy dispersive x-ray spectroscopy absorption spectra that were used to identify and support the conclusion that multiple, unrelated lead species are present within one operable unit.

- Project Manager for the remedial investigation of a shopping center in Enfield, Connecticut. Designed a focused investigation using MIP technology to focus subsequent collection of groundwater and soil samples using a standard size and portable Geoprobe for interior locations, and installation of soil vapor pins for the collection of sub-slab samples. Managed field staff during the implementation of the remedial investigation and interacted with store proprietors to coordinate the work with minimal business interruptions.

- Field Engineer for the remediation of two 6.25-million-gallon process lagoons adjacent to the Hudson River at a former dye manufacturing facility in Rensselaer, New York. Supervised the excavation, staging, screening, and transport of riprap and soil contaminated with hazardous concentrations of arsenic. Interacted daily with the client and regulatory agency representatives during implementation of the remedial action.

- Project Engineer for a multi-element remedial design of a USEPA Superfund Site in Nassau, New York. Prepared response letters, technical drawings, and 95 percent and 100 percent remedial design documents in accordance with the Record of Decision and Consent Judgment.

- Evaluated laboratory data packages of post-excavation soil samples generated during the interim remediation of a former storage and loading area of a pharmaceutical company in Brooklyn, New York. Initial site investigations concluded site contamination was limited to petroleum-related compounds. Supplemental site investigations conducted a few years after the conclusion of the interim remediation showed a dissolved CVOC plume was present site-wide. Reviewed chromatograms and concluded that CVOCs were detected – but not reported since the reporting scope was limited to petroleum-related compounds – in many of the post-excavation soil samples, which would have provided earlier indications of the presence of the CVOC plume.

Stormwater Management

- Project Manager and Engineer for the design of a full-scale natural media filtration (NMF) system consisting of two stormwater storage basins (0.4 MM and 1.8 MM gallons) and four NMF cells (two 114,000-gallon aboveground cells and 0.15- and 0.25-acre in-ground cells) at a 172-acre active aluminum manufacturing facility in Lafayette, Indiana. The NMF cells treat up to 1,500 GPM of stormwater runoff and process water impacted by polychlorinated biphenyls (PCBs), dissolved and particulate aluminum, and suspended solids. Researched the fate and transport of PCBs, and assessed the treatability of PCBs in wetlands. Evaluated a compost treatability bench-scale experiment. Designed and coordinated groundwater percolation tests. Used HydroCAD to model treatment capacity for multiple storm events.

- Project Engineer for the design of a passive stormwater management system for a 3,500-acre aluminum manufacturing facility in Point Comfort, Texas. The passive stormwater management system uses sedimentation trenches and swales to manage and convey bauxite-laden runoff. Stormwater runoff is managed by a constructed treatment wetland (CTW) and is consumptively used by a phytotechnology tree plot. Completed a hydrologic analysis using USACE HEC-HMS modeling software. Prepared bid specifications and provided bid support.

- Project Manager for the design of a NMF system to reduce PCBs to non-detect levels in stormwater at an aluminum extrusion facility in Cressona, Pennsylvania. The NMF system treats the first flush volume of 240,000 gallons containing residual PCBs. Conducted a detailed analysis of the site's constituents and runoff volumes during dry weather and wet weather to properly size the pump station and the NMF cell. Prepared bid document and provided bid support.

- Project Engineer for the design of a CTW to manage stormwater runoff generated from a scrap metal recycling facility in Sayreville, New Jersey. The CTW was designed to handle and treat runoff with elevated levels of suspended solids prior to discharge to adjacent coastal and freshwater jurisdictional wetlands.

- Evaluated the feasibility of using CTW to treat 110 GPM of groundwater containing elevated levels of cyanide at an aluminum manufacturing facility in Hannibal, Ohio. The CTW was designed to address the

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site's constituents and winter environment, and was modularized to facilitate the expansion and incorporation of the pilot-scale CTW into the full-scale CTW.

- Project Manager for a feasibility study to mitigate land subsidence at a golf course adjacent to Long Island Sound in Northport, New York. Completed a data review of existing reports from USGS and local municipality, previous soil investigation, and current stormwater drainage design. Directed a field investigation to obtain data in support of the conceptual model for land movement. Concluded that existing stormwater management measures accelerated the rate of land movement. Evaluated potential engineering remedies.

Compliance

- Project Engineer for the evaluation of air emissions data from a steel mill melt shop in Sayreville, New Jersey. Prepared annual emissions statement in accordance with permit requirements using RADIUS software and emissions factors from AP-42 and CEMS data. Evaluated and summarized trends and anomalies observed in over one year's worth of air monitoring data on particulates and metals from monitors set up in the surrounding community.
- Project Engineer for the preparation of Title V emissions statement for two major hospitals in Nassau County, New York. Responsibilities included reviewing annual fuel usage data, calculating air emissions using emissions factors from AP-42, and preparing the emissions statement.
- Project Manager for the coordination, preparation, and submission of PCB TMDL reporting requirements for multiple sites in Virginia. Responsibilities included managing subcontractors, preparing submission forms in accordance with state guidelines, and preparing the first Pollutant Minimization Plan (PMP) in the state for PCBs.

Litigation Support

- Principal Engineer for the preparation of an expert report on the operation, closure, and pollution caused by a sanitary landfill adjacent to a creek in Indiana. The effort included reviewing historical site photographs; past regulations and practices for siting, operating, and closing of a sanitary landfill; and cost estimate to properly close the landfill.
- Senior Engineer for the analysis of expert reports and preparation of rebuttal for three superfund sites in New York and Massachusetts. The case involved assigning the percentage of PCBs released over time during the operation of the facilities at the three sites for the purpose of remedial costs allocation to various insurance carriers. Reviewed information submitted by opposing experts, conducted independent research to verify methodologies, and provided technical calculations indicating flaws in positions advocated by the opposing experts.
- Senior Engineer and Project Manager for the analysis of the sources and fate and transport of dioxins and PCBs into Newark Bay in New Jersey. Reviewed sediment and water column data from existing investigations, performed independent review of third party publications, and worked with geochemical expert on principal component analysis to identify dioxin contributions from several nearby sources.
- Senior Engineer for the preparation of an expert report for a fuel oil release in Rochelle Park, New Jersey. The release was from a residential underground storage tank (UST). The expert report opined on the age of the release, the reliability of the estimation method used by the opposing expert, and the accuracy of the age dating of the perforations in the UST.
- Project Engineer for the preparation of an affidavit regarding a cesspool explosion on Long Island, New York. The affidavit was prepared for the defendant's counsel providing technical calculations and opining on the improbability that the defendant's use of a drain cleaner contributed to a flash fire that injured the plaintiff. Also prepared an expert rebuttal affidavit to demonstrate the fallacies in the plaintiff's expert's arguments. The judge dismissed the case after reviewing all admitted information.
- Senior Engineer for the evaluation of expected remedial costs for waste disposal sites as part of a large bankruptcy litigation. Reviewed over 70 site records to identify potential liabilities and appropriate statute of limitations. Developed present value of remedial investigation and action costs and apportionment ranging from $160,000 to $1,200,000.
- Senior Engineer for the evaluation of gas chromatograms from multiple retail gasoline stations in Puerto Rico as part of a class action lawsuit. Responsibilities included reviewing for indicators of methyl tert-butyl ether (MTBE) and determining MTBE concentrations from historic laboratory data packages.

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APPENDIX B

Laboratory Certifications

Alpha Analytical

Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	Lead on Air Filter	EPA 40 CFR Part 50 App. G	AE	x	Y	
NY	PCBs and Aroclors	EPA TO-10A	AE	x	Y	
NY	Acenaphthene	EPA TO-13A Full Scan	AE	x	Y	
NY	Acenaphthylene	EPA TO-13A Full Scan	AE	x	Y	
NY	Anthracene	EPA TO-13A Full Scan	AE	x	Y	
NY	Benzo(a)anthracene	EPA TO-13A Full Scan	AE	x	Y	
NY	Benzo(a)pyrene	EPA TO-13A Full Scan	AE	x	Y	
NY	Benzo(b)fluoranthene	EPA TO-13A Full Scan	AE	x	Y	
NY	Benzo(ghi)perylene	EPA TO-13A Full Scan	AE	x	Y	
NY	Benzo(k)fluoranthene	EPA TO-13A Full Scan	AE	x	Y	
NY	Chrysene	EPA TO-13A Full Scan	AE	x	Y	
NY	Dibenzo(a,h)anthracene	EPA TO-13A Full Scan	AE	x	Y	
NY	Fluoranthene	EPA TO-13A Full Scan	AE	x	Y	
NY	Fluorene	EPA TO-13A Full Scan	AE	x	Y	
NY	Indeno(1,2,3-cd)pyrene	EPA TO-13A Full Scan	AE	x	Y	
NY	Naphthalene	EPA TO-13A Full Scan	AE	x	Y	
NY	Phenanthrene	EPA TO-13A Full Scan	AE	x	Y	
NY	Pyrene	EPA TO-13A Full Scan	AE	x	Y	
NY	1,1,1-Trichloroethane	EPA TO-15	AE	x	Y	
NY	1,1,2,2-Tetrachloroethane	EPA TO-15	AE	x	Y	
NY	1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA TO-15	AE	x	Y	
NY	1,1,2-Trichloroethane	EPA TO-15	AE	x	Y	
NY	1,1-Dichloroethane	EPA TO-15	AE	x	Y	
NY	1,1-Dichloroethene	EPA TO-15	AE	x	Y	
NY	1,2,4-Trichlorobenzene	EPA TO-15	AE	x	Y	
NY	1,2,4-Trimethylbenzene	EPA TO-15	AE	x	Y	
NY	1,2-Dibromo-3-Chloropropane (DBCP)	EPA TO-15	AE	x	Y	
NY	1,2-Dibromoethane (EDB)	EPA TO-15	AE	x	Y	
NY	1,2-Dichlorobenzene	EPA TO-15	AE	x	Y	
NY	1,2-Dichloroethane	EPA TO-15	AE	x	Y	
NY	1,2-Dichloropropane	EPA TO-15	AE	x	Y	
NY	1,2-Dichlorotetrafluoroethane	EPA TO-15	AE	x	Y	
NY	1,3,5-Trimethylbenzene	EPA TO-15	AE	x	Y	
NY	1,3-Butadiene	EPA TO-15	AE	x	Y	
NY	1,3-Dichlorobenzene	EPA TO-15	AE	x	Y	
NY	1,4-Dichlorobenzene	EPA TO-15	AE	x	Y	
NY	1,4-Dioxane	EPA TO-15	AE	x	Y	
NY	2,2,4-Trimethylpentane	EPA TO-15	AE	x	Y	
NY	2-Butanone	EPA TO-15	AE	x	Y	
NY	2-Chlorotoluene	EPA TO-15	AE	x	Y	
NY	3-Chloropropene	EPA TO-15	AE	x	Y	
NY	4-Methyl-2-Pentanone	EPA TO-15	AE	x	Y	
NY	Acetaldehyde	EPA TO-15	AE	x	Y	
NY	Acetone	EPA TO-15	AE	x	Y	
NY	Acetonitrile	EPA TO-15	AE	x	Y	
NY	Acrolein	EPA TO-15	AE	x	Y	
NY	Acrylonitrile	EPA TO-15	AE	x	Y	
NY	Benzene	EPA TO-15	AE	x	Y	
NY	Benzyl Chloride	EPA TO-15	AE	x	Y	

Alpha Analytical

Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	Bromodichloromethane	EPA TO-15	AE	x	Y	
NY	Bromoform	EPA TO-15	AE	x	Y	
NY	Bromomethane	EPA TO-15	AE	x	Y	
NY	Carbon Disulfide	EPA TO-15	AE	x	Y	
NY	Carbon Tetrachloride	EPA TO-15	AE	x	Y	
NY	Chlorobenzene	EPA TO-15	AE	x	Y	
NY	Chloroethane	EPA TO-15	AE	x	Y	
NY	Chloroform	EPA TO-15	AE	x	Y	
NY	Chloromethane	EPA TO-15	AE	x	Y	
NY	cis-1,2-Dichloroethene	EPA TO-15	AE	x	Y	
NY	cis-1,3-Dichloropropene	EPA TO-15	AE	x	Y	
NY	Cyclohexane	EPA TO-15	AE	x	Y	
NY	Dibromochloromethane	EPA TO-15	AE	x	Y	
NY	Dichlorodifluoromethane	EPA TO-15	AE	x	Y	
NY	Ethylbenzene	EPA TO-15	AE	x	Y	
NY	Hexachlorobutadiene	EPA TO-15	AE	x	Y	
NY	Isopropyl Alcohol	EPA TO-15	AE	x	Y	
NY	Isopropylbenzene	EPA TO-15	AE	x	Y	
NY	m+p-Xylene	EPA TO-15	AE	x	Y	
NY	Methyl Alcohol (methanol)	EPA TO-15	AE	x	Y	
NY	Methyl Methacrylate	EPA TO-15	AE	x	Y	
NY	Methyl tert-butyl ether	EPA TO-15	AE	x	Y	
NY	Methylene Chloride	EPA TO-15	AE	x	Y	
NY	Naphthalene	EPA TO-15	AE	x	Y	
NY	n-Heptane	EPA TO-15	AE	x	Y	
NY	n-Hexane	EPA TO-15	AE	x	Y	
NY	o-Xylene	EPA TO-15	AE	x	Y	
NY	Styrene	EPA TO-15	AE	x	Y	
NY	Tert-Butyl Alcohol	EPA TO-15	AE	x	Y	
NY	Tetrachloroethene	EPA TO-15	AE	x	Y	
NY	Toluene	EPA TO-15	AE	x	Y	
NY	Total Xylenes	EPA TO-15	AE	x	Y	
NY	Trans-1,2-Dichloroethene	EPA TO-15	AE	x	Y	
NY	Trans-1,3-Dichloropropene	EPA TO-15	AE	x	Y	
NY	Trichloroethene	EPA TO-15	AE	x	Y	
NY	Trichlorofluoromethane	EPA TO-15	AE	x	Y	
NY	Vinyl acetate	EPA TO-15	AE	x	Y	
NY	Vinyl Bromide	EPA TO-15	AE	x	Y	
NY	Vinyl Chloride	EPA TO-15	AE	x	Y	
NY	Turbidity	EPA 180.1	DW	Y	x	
NY	Aluminum	EPA 200.7	DW	x	Y	
NY	Barium	EPA 200.7	DW	x	Y	
NY	Beryllium	EPA 200.7	DW	x	Y	
Ny	Boron	EPA 200.7	DW	x	Y	
NY	Cadmium	EPA 200.7	DW	x	Y	
NY	Calcium	EPA 200.7	DW	x	Y	
NY	Calcium Hardness	EPA 200.7	DW	x	Y	
NY	Chromium	EPA 200.7	DW	x	Y	
NY	Copper	EPA 200.7	DW	x	Y	

Alpha Analytical

Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	Iron	EPA 200.7	DW	x	Y	
NY	Magnesium	EPA 200.7	DW	x	Y	
NY	Manganese	EPA 200.7	DW	x	Y	
NY	Nickel	EPA 200.7	DW	x	Y	
NY	Potassium	EPA 200.7	DW	x	Y	
NY	Silver	EPA 200.7	DW	x	Y	
NY	Sodium	EPA 200.7	DW	x	Y	
Ny	Vanadium	EPA 200.7	DW	x	Y	
NY	Zinc	EPA 200.7	DW	x	Y	
NY	Aluminum	EPA 200.8	DW	x	Y	
NY	Antimony	EPA 200.8	DW	x	Y	
NY	Arsenic	EPA 200.8	DW	x	Y	
NY	Barium	EPA 200.8	DW	x	Y	
NY	Beryllium	EPA 200.8	DW	x	Y	
NY	Cadmium	EPA 200.8	DW	x	Y	
NY	Copper	EPA 200.8	DW	x	Y	
NY	Lead	EPA 200.8	DW	x	Y	
Ny	Manganese	EPA 200.8	DW	x	Y	
NY	Nickel	EPA 200.8	DW	x	Y	
NY	Selenium	EPA 200.8	DW	x	Y	
NY	Silver	EPA 200.8	DW	x	Y	
NY	Thallium	EPA 200.8	DW	x	Y	
NY	Vanadium	EPA 200.8	DW	x	Y	
NY	Zinc	EPA 200.8	DW	x	Y	
NY	Mercury	EPA 245.1	DW	x	Y	
NY	Chloride	EPA 300.0	DW	Y	x	
NY	Fluoride	EPA 300.0	DW	Y	x	
NY	Sulfate	EPA 300.0	DW	Y	x	
NY	Perchlorate	EPA 332.0	DW	Y	x	
NY	1,2-Dibromo-3-Chloropropane (DBCP)	EPA 504.1	DW	Y	x	
NY	1,2-Dibromoethane (EDB)	EPA 504.1	DW	Y	x	
NY	1,1,1,2-Tetrachloroethane	EPA 524.2	DW	Y	x	
NY	1,1,1-Trichloroethane	EPA 524.2	DW	Y	x	
NY	1,1,2,2-Tetrachloroethane	EPA 524.2	DW	Y	x	
NY	1,1,2-Trichloroethane	EPA 524.2	DW	Y	x	
NY	1,1-Dichloroethane	EPA 524.2	DW	Y	x	
NY	1,1-Dichloroethene	EPA 524.2	DW	Y	x	
NY	1,1-Dichloropropene	EPA 524.2	DW	Y	x	
NY	1,2,3-Trichlorobenzene	EPA 524.2	DW	Y	x	
NY	1,2,3-Trichloropropane	EPA 524.2	DW	Y	x	
NY	1,2,4-Trichlorobenzene	EPA 524.2	DW	Y	x	
NY	1,2,4-Trimethylbenzene	EPA 524.2	DW	Y	x	
NY	1,2-Dichlorobenzene	EPA 524.2	DW	Y	x	
NY	1,2-Dichloroethane	EPA 524.2	DW	Y	x	
NY	1,2-Dichloropropane	EPA 524.2	DW	Y	x	
NY	1,3,5-Trimethylbenzene	EPA 524.2	DW	Y	x	
NY	1,3-Dichlorobenzene	EPA 524.2	DW	Y	x	
NY	1,3-Dichloropropane	EPA 524.2	DW	Y	x	
NY	1,4-Dichlorobenzene	EPA 524.2	DW	Y	x	

Alpha Analytical

Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	2,2-Dichloropropane	EPA 524.2	DW	Y	x	
NY	2-Chlorotoluene	EPA 524.2	DW	Y	x	
NY	4-Chlorotoluene	EPA 524.2	DW	Y	x	
NY	Benzene	EPA 524.2	DW	Y	x	
NY	Bromobenzene	EPA 524.2	DW	Y	x	
NY	Bromochloromethane	EPA 524.2	DW	Y	x	
NY	Bromodichloromethane	EPA 524.2	DW	Y	x	
NY	Bromoform	EPA 524.2	DW	Y	x	
NY	Bromomethane	EPA 524.2	DW	Y	x	
NY	Carbon Tetrachloride	EPA 524.2	DW	Y	x	
NY	Chlorobenzene	EPA 524.2	DW	Y	x	
NY	Chloroethane	EPA 524.2	DW	Y	x	
NY	Chloroform	EPA 524.2	DW	Y	x	
NY	Chloromethane	EPA 524.2	DW	Y	x	
NY	cis-1,2-Dichloroethene	EPA 524.2	DW	Y	x	
NY	cis-1,3-Dichloropropene	EPA 524.2	DW	Y	x	
NY	Dibromochloromethane	EPA 524.2	DW	Y	x	
NY	Dibromomethane	EPA 524.2	DW	Y	x	
NY	Dichlorodifluoromethane	EPA 524.2	DW	Y	x	
NY	Ethylbenzene	EPA 524.2	DW	Y	x	
NY	Hexachlorobutadiene	EPA 524.2	DW	Y	x	
NY	Isopropylbenzene	EPA 524.2	DW	Y	x	
NY	Methyl tert-butyl ether	EPA 524.2	DW	Y	x	
NY	Methylene chloride	EPA 524.2	DW	Y	x	
NY	Naphthalene	EPA 524.2	DW	Y	x	
NY	n-Butylbenzene	EPA 524.2	DW	Y	x	
NY	n-Propylbenzene	EPA 524.2	DW	Y	x	
NY	p-Isopropyltoluene	EPA 524.2	DW	Y	x	
NY	sec-Butylbenzene	EPA 524.2	DW	Y	x	
NY	Styrene	EPA 524.2	DW	Y	x	
NY	Tert-Butylbenzene	EPA 524.2	DW	Y	x	
NY	Tetrachloroethene	EPA 524.2	DW	Y	x	
NY	Toluene	EPA 524.2	DW	Y	x	
NY	Total Trihalomethanes	EPA 524.2	DW	Y	x	
NY	Total Xylenes	EPA 524.2	DW	Y	x	
NY	Trans-1,2-Dichloroethene	EPA 524.2	DW	Y	x	
NY	Trans-1,3-Dichloropropene	EPA 524.2	DW	Y	x	
NY	Trichloroethene	EPA 524.2	DW	Y	x	
NY	Trichlorofluoromethane	EPA 524.2	DW	Y	x	
NY	Vinyl chloride	EPA 524.2	DW	Y	x	
NY	Perfluoro-n-octanoic acid (PFOA)	EPA 537	DW	x	Y	
NY	Perfluorooctanesulfonic acid (PFOS)	EPA 537	DW	x	Y	
NY	Color	SM 2120B	DW	Y	x	
NY	Turbidity	SM 2130B	DW	Y	x	
NY	Odor	SM 2150B	DW	Y	x	
NY	Alkalinity	SM 2320B	DW	Y	x	
NY	Specific Conductance	SM 2510B	DW	Y	x	
NY	Total Dissolved Solids	SM 2540C	DW	Y	x	
NY	Cyanide, Distillation	SM 4500 CN C	DW	Y	x	

Alpha Analytical

Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	Cyanide, Total	SM 4500 CN E	DW	Y	x	
NY	Fluoride	SM 4500 F-C	DW	Y	x	
NY	Nitrate-N	SM 4500 NO3-F	DW	Y	x	
NY	Nitrite-N	SM 4500 NO3-F	DW	Y	x	
NY	Total Organic Carbon	SM 5310C	DW	Y	x	
NY	Heterotrophic Plate Count	SM 9215B	DW	Y	x	
NY	Coliform, Total	SM 9223B	DW	Y	x	
NY	E. Coli	SM 9223B	DW	Y	x	P/A
NY	E. Coli	SM 9223B	DW	Y	x	Enumeration
NY	Specific Conductance	EPA 120.1	NPW	Y	x	
NY	Mercury	EPA 1631E	NPW	x	Y	
NY	Oil & Grease	EPA 1664A	NPW	Y	x	
NY	Oil & Grease (TPH)	EPA 1664A	NPW	Y	x	
NY	Turbidity	EPA 180.1	NPW	Y	x	
NY	Aluminum	EPA 200.7	NPW	x	Y	
NY	Antimony	EPA 200.7	NPW	x	Y	
NY	Arsenic	EPA 200.7	NPW	x	Y	
NY	Barium	EPA 200.7	NPW	x	Y	
NY	Beryllium	EPA 200.7	NPW	x	Y	
NY	Boron	EPA 200.7	NPW	x	Y	
NY	Cadmium	EPA 200.7	NPW	x	Y	
NY	Calcium	EPA 200.7	NPW	x	Y	
NY	Chromium	EPA 200.7	NPW	x	Y	
NY	Cobalt	EPA 200.7	NPW	x	Y	
NY	Copper	EPA 200.7	NPW	x	Y	
NY	Iron	EPA 200.7	NPW	x	Y	
NY	Lead	EPA 200.7	NPW	x	Y	
NY	Magnesium	EPA 200.7	NPW	x	Y	
NY	Manganese	EPA 200.7	NPW	x	Y	
NY	Molybdenum	EPA 200.7	NPW	x	Y	
NY	Nickel	EPA 200.7	NPW	x	Y	
NY	Potassium	EPA 200.7	NPW	x	Y	
NY	Selenium	EPA 200.7	NPW	x	Y	
NY	Silica, Dissolved	EPA 200.7	NPW	x	Y	
NY	Silver	EPA 200.7	NPW	x	Y	
NY	Sodium	EPA 200.7	NPW	x	Y	
NY	Strontium	EPA 200.7	NPW	x	Y	
NY	Thallium	EPA 200.7	NPW	x	Y	
NY	Tin	EPA 200.7	NPW	x	Y	
NY	Titanium	EPA 200.7	NPW	x	Y	
NY	Total Hardness (CaCO3)	EPA 200.7	NPW	x	Y	
NY	Vanadium	EPA 200.7	NPW	x	Y	
NY	Zinc	EPA 200.7	NPW	x	Y	
NY	Aluminum	EPA 200.8	NPW	x	Y	
NY	Antimony	EPA 200.8	NPW	x	Y	
NY	Arsenic	EPA 200.8	NPW	x	Y	
NY	Barium	EPA 200.8	NPW	x	Y	
NY	Beryllium	EPA 200.8	NPW	x	Y	
NY	Cadmium	EPA 200.8	NPW	x	Y	

Alpha Analytical

Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	Chromium	EPA 200.8	NPW	x	Y	
NY	Cobalt	EPA 200.8	NPW	x	Y	
NY	Copper	EPA 200.8	NPW	x	Y	
NY	Lead	EPA 200.8	NPW	x	Y	
NY	Manganese	EPA 200.8	NPW	x	Y	
NY	Molybdenum	EPA 200.8	NPW	x	Y	
NY	Nickel	EPA 200.8	NPW	x	Y	
NY	Selenium	EPA 200.8	NPW	x	Y	
NY	Silver	EPA 200.8	NPW	x	Y	
NY	Thallium	EPA 200.8	NPW	x	Y	
NY	Vanadium	EPA 200.8	NPW	x	Y	
NY	Zinc	EPA 200.8	NPW	x	Y	
NY	Mercury	EPA 245.1	NPW	x	Y	
NY	Bromide	EPA 300.0	NPW	Y	x	
NY	Chloride	EPA 300.0	NPW	Y	x	
NY	Fluoride	EPA 300.0	NPW	Y	x	
NY	Nitrate-N	EPA 300.0	NPW	Y	x	
NY	Sulfate	EPA 300.0	NPW	Y	x	
NY	Acid Digestion of Waters	EPA 3005A	NPW	x	Y	
NY	Microwave Acid Digestion	EPA 3015A	NPW	x	Y	
NY	Acid Digestion of Waters	EPA 3020A	NPW	x	Y	
NY	Ammonia	EPA 350.1	NPW	Y	x	
NY	Nitrogen, Total Kjeldahl	EPA 351.1	NPW	Y	x	
NY	Separatory Funnel Extraction	EPA 3510C	NPW	Y	Y	
NY	Nitrate-N	EPA 353.2	NPW	Y	x	
NY	Nitrate-Nitrite	EPA 353.2	NPW	Y	x	
NY	Chemical Oxygen Demand	EPA 410.4	NPW	Y	x	
NY	Total Phenolics	EPA 420.1	NPW	Y	x	
NY	Purge & Trap Aqueous	EPA 5030C	NPW	Y	x	
NY	Aluminum	EPA 6010C	NPW	x	Y	
NY	Antimony	EPA 6010C	NPW	x	Y	
NY	Arsenic	EPA 6010C	NPW	x	Y	
NY	Barium	EPA 6010C	NPW	x	Y	
NY	Beryllium	EPA 6010C	NPW	x	Y	
NY	Boron	EPA 6010C	NPW	x	Y	
NY	Cadmium	EPA 6010C	NPW	x	Y	
NY	Calcium	EPA 6010C	NPW	x	Y	
NY	Chromium	EPA 6010C	NPW	x	Y	
NY	Cobalt	EPA 6010C	NPW	x	Y	
NY	Copper	EPA 6010C	NPW	x	Y	
NY	Iron	EPA 6010C	NPW	x	Y	
NY	Lead	EPA 6010C	NPW	x	Y	
NY	Magnesium	EPA 6010C	NPW	x	Y	
NY	Manganese	EPA 6010C	NPW	x	Y	
NY	Molybdenum	EPA 6010C	NPW	x	Y	
NY	Nickel	EPA 6010C	NPW	x	Y	
NY	Potassium	EPA 6010C	NPW	x	Y	
NY	Selenium	EPA 6010C	NPW	x	Y	
NY	Silver	EPA 6010C	NPW	x	Y	

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Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	Sodium	EPA 6010C	NPW	x	Y	
NY	Strontium	EPA 6010C	NPW	x	Y	
NY	Thallium	EPA 6010C	NPW	x	Y	
NY	Tin	EPA 6010C	NPW	x	Y	
NY	Vanadium	EPA 6010C	NPW	x	Y	
NY	Zinc	EPA 6010C	NPW	x	Y	
NY	Aluminum	EPA 6020A	NPW	x	Y	
NY	Antimony	EPA 6020A	NPW	x	Y	
NY	Arsenic	EPA 6020A	NPW	x	Y	
NY	Barium	EPA 6020A	NPW	x	Y	
NY	Beryllium	EPA 6020A	NPW	x	Y	
NY	Boron	EPA 6020A	NPW	x	Y	
NY	Cadmium	EPA 6020A	NPW	x	Y	
NY	Calcium	EPA 6020A	NPW	x	Y	
NY	Chromium	EPA 6020A	NPW	x	Y	
NY	Cobalt	EPA 6020A	NPW	x	Y	
NY	Copper	EPA 6020A	NPW	x	Y	
NY	Iron	EPA 6020A	NPW	x	Y	
NY	Lead	EPA 6020A	NPW	x	Y	
NY	Magnesium	EPA 6020A	NPW	x	Y	
NY	Manganese	EPA 6020A	NPW	x	Y	
NY	Molybdenum	EPA 6020A	NPW	x	Y	
NY	Nickel	EPA 6020A	NPW	x	Y	
NY	Potassium	EPA 6020A	NPW	x	Y	
NY	Selenium	EPA 6020A	NPW	x	Y	
NY	Silver	EPA 6020A	NPW	x	Y	
NY	Strontium	EPA 6020A	NPW	x	Y	
NY	Thallium	EPA 6020A	NPW	x	Y	
NY	Tin	EPA 6020A	NPW	x	Y	
NY	Titanium	EPA 6020A	NPW	x	Y	
NY	Vanadium	EPA 6020A	NPW	x	Y	
NY	Zinc	EPA 6020A	NPW	x	Y	
NY	4,4'-DDD	EPA 608	NPW	Y	x	
NY	4,4'-DDE	EPA 608	NPW	Y	x	
NY	4,4'-DDT	EPA 608	NPW	Y	x	
NY	Aldrin	EPA 608	NPW	Y	x	
NY	Alpha-BHC	EPA 608	NPW	Y	x	
NY	Beta-BHC	EPA 608	NPW	Y	x	
NY	Chlordane	EPA 608	NPW	Y	x	
NY	Delta-BHC	EPA 608	NPW	Y	x	
NY	Dieldrin	EPA 608	NPW	Y	x	
NY	Endosulfan I	EPA 608	NPW	Y	x	
NY	Endosulfan II	EPA 608	NPW	Y	x	
NY	Endosulfan Sulfate	EPA 608	NPW	Y	x	
NY	Endrin	EPA 608	NPW	Y	x	
NY	Endrin Aldehyde	EPA 608	NPW	Y	x	
NY	Heptachlor	EPA 608	NPW	Y	x	
NY	Heptachlor Epoxide	EPA 608	NPW	Y	x	
NY	Lindane (gamma-BHC)	EPA 608	NPW	Y	x	

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Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	Methoxychlor	EPA 608	NPW	Y	x	
NY	PCB-1016	EPA 608	NPW	Y	x	
NY	PCB-1221	EPA 608	NPW	Y	x	
NY	PCB-1232	EPA 608	NPW	Y	x	
NY	PCB-1242	EPA 608	NPW	Y	x	
NY	PCB-1248	EPA 608	NPW	Y	x	
NY	PCB-1254	EPA 608	NPW	Y	x	
NY	PCB-1260	EPA 608	NPW	Y	x	
NY	Toxaphene	EPA 608	NPW	Y	x	
NY	1,1,1-Trichloroethane	EPA 624	NPW	Y	x	
NY	1,1,2,2-Tetrachloroethane	EPA 624	NPW	Y	x	
NY	1,1,2-Trichloroethane	EPA 624	NPW	Y	x	
NY	1,1-Dichloroethane	EPA 624	NPW	Y	x	
NY	1,1-Dichloroethene	EPA 624	NPW	Y	x	
NY	1,2-Dichlorobenzene	EPA 624	NPW	Y	x	
NY	1,2-Dichloroethane	EPA 624	NPW	Y	x	
NY	1,2-Dichloropropane	EPA 624	NPW	Y	x	
NY	1,3-Dichlorobenzene	EPA 624	NPW	Y	x	
NY	1,4-Dichlorobenzene	EPA 624	NPW	Y	x	
NY	2-Chloroethyl Vinyl ether	EPA 624	NPW	Y	x	
NY	Acetone	EPA 624	NPW	Y	x	
NY	Acrolein	EPA 624	NPW	Y	x	
NY	Acrylonitrile	EPA 624	NPW	Y	x	
NY	Benzene	EPA 624	NPW	Y	x	
NY	Bromodichloromethane	EPA 624	NPW	Y	x	
NY	Bromoform	EPA 624	NPW	Y	x	
NY	Bromomethane	EPA 624	NPW	Y	x	
NY	Carbon Tetrachloride	EPA 624	NPW	Y	x	
NY	Chlorobenzene	EPA 624	NPW	Y	x	
NY	Chloroethane	EPA 624	NPW	Y	x	
NY	Chloroform	EPA 624	NPW	Y	x	
NY	Chloromethane	EPA 624	NPW	Y	x	
NY	cis-1,2-Dichloroethene	EPA 624	NPW	Y	x	
NY	cis-1,3-Dichloropropene	EPA 624	NPW	Y	x	
NY	Dibromochloromethane	EPA 624	NPW	Y	x	
NY	Dichlorodifluoromethane	EPA 624	NPW	Y	x	
NY	Ethylbenzene	EPA 624	NPW	Y	x	
NY	Methylene Chloride	EPA 624	NPW	Y	x	
NY	Methyl tert-butyl ether	EPA 624	NPW	Y	x	
NY	Styrene	EPA 624	NPW	Y	x	
NY	Tert-Butyl Alcohol	EPA 624	NPW	Y	x	
NY	Tetrachloroethene	EPA 624	NPW	Y	x	
NY	Toluene	EPA 624	NPW	Y	x	
NY	Total Xylenes	EPA 624	NPW	Y	x	
NY	Trans-1,2-Dichloroethene	EPA 624	NPW	Y	x	
NY	Trans-1,3-Dichloropropene	EPA 624	NPW	Y	x	
NY	Trichloroethene	EPA 624	NPW	Y	x	
NY	Trichlorofluoromethane	EPA 624	NPW	Y	x	
NY	Vinyl Acetate	EPA 624	NPW	Y	x	

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State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	Vinyl Chloride	EPA 624	NPW	Y	x	
NY	1,2,4-Trichlorobenzene	EPA 625	NPW	Y	x	
NY	2,4,5-Trichlorophenol	EPA 625	NPW	Y	x	
NY	2,4,6-Trichlorophenol	EPA 625	NPW	Y	x	
NY	2,4-Dichlorophenol	EPA 625	NPW	Y	x	
NY	2,4-Dimethylphenol	EPA 625	NPW	Y	x	
NY	2,4-Dinitrophenol	EPA 625	NPW	Y	x	
NY	2,4-Dinitrotoluene (2,4-DNT)	EPA 625	NPW	Y	x	
NY	2,6-Dinitrotoluene (2,6-DNT)	EPA 625	NPW	Y	x	
NY	2-Chloronaphthalene	EPA 625	NPW	Y	x	
NY	2-Chlorophenol	EPA 625	NPW	Y	x	
NY	2-Methyl-4,6-dinitrophenol	EPA 625	NPW	Y	x	
NY	2-Methylphenol	EPA 625	NPW	Y	x	
NY	2-Nitrophenol	EPA 625	NPW	Y	x	
NY	3,3-Dichlorobenzidine	EPA 625	NPW	Y	x	
NY	3-Methylphenol	EPA 625	NPW	Y	x	
NY	4-Bromophenyl phenyl ether	EPA 625	NPW	Y	x	
NY	4-Chloro-3-methylphenol	EPA 625	NPW	Y	x	
NY	4-Chlorophenyl phenyl ether	EPA 625	NPW	Y	x	
NY	4-Methylphenol	EPA 625	NPW	Y	x	
NY	4-Nitrophenol	EPA 625	NPW	Y	x	
NY	Acenaphthene	EPA 625	NPW	Y	x	
NY	Acenaphthylene	EPA 625	NPW	Y	x	
NY	Acetophenone	EPA 625	NPW	Y	x	
NY	Aniline	EPA 625	NPW	Y	x	
NY	Anthracene	EPA 625	NPW	Y	x	
NY	Benzidine	EPA 625	NPW	Y	x	
NY	Benzo(a)anthracene	EPA 625	NPW	Y	x	
NY	Benzo(a)pyrene	EPA 625	NPW	Y	x	
NY	Benzo(b)fluoranthene	EPA 625	NPW	Y	x	
NY	Benzo(ghi)perylene	EPA 625	NPW	Y	x	
NY	Benzo(k)fluoranthene	EPA 625	NPW	Y	x	
NY	Bis(2-chloroethoxy) methane	EPA 625	NPW	Y	x	
NY	Bis(2-chloroethyl) ether	EPA 625	NPW	Y	x	
NY	Bis(2-chloroisopropyl) ether	EPA 625	NPW	Y	x	
NY	Bis(2-ethylhexyl) phthalate	EPA 625	NPW	Y	x	
NY	Butyl Benzyl phthalate	EPA 625	NPW	Y	x	
NY	Carbazole	EPA 625	NPW	Y	x	
NY	Chrysene	EPA 625	NPW	Y	x	
NY	Dibenzo(a,h)anthracene	EPA 625	NPW	Y	x	
NY	Diethyl phthalate	EPA 625	NPW	Y	x	
NY	Dimethyl phthalate	EPA 625	NPW	Y	x	
NY	Di-n-butyl phthalate	EPA 625	NPW	Y	x	
NY	Di-n-octyl phthalate	EPA 625	NPW	Y	x	
NY	Fluoranthene	EPA 625	NPW	Y	x	
NY	Fluorene	EPA 625	NPW	Y	x	
NY	Hexachlorobenzene	EPA 625	NPW	Y	x	
NY	Hexachlorobutadiene	EPA 625	NPW	Y	x	
NY	Hexachlorocyclopentadiene	EPA 625	NPW	Y	x	

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State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	Hexachloroethane	EPA 625	NPW	Y	x	
NY	Indeno(1,2,3-cd)pyrene	EPA 625	NPW	Y	x	
NY	Isophorone	EPA 625	NPW	Y	x	
NY	Naphthalene	EPA 625	NPW	Y	x	
NY	N-Decane	EPA 625	NPW	Y	x	
NY	Nitrobenzene	EPA 625	NPW	Y	x	
NY	N-Nitrosodimethylamine	EPA 625	NPW	Y	x	
NY	N-Nitrosodi-n-propylamine	EPA 625	NPW	Y	x	
NY	N-Nitrosodiphenylamine	EPA 625	NPW	Y	x	
NY	N-Octadecane	EPA 625	NPW	Y	x	
NY	Pentachlorophenol	EPA 625	NPW	Y	x	
NY	Phenanthrene	EPA 625	NPW	Y	x	
NY	Phenol	EPA 625	NPW	Y	x	
NY	Pyrene	EPA 625	NPW	Y	x	
NY	Pyridine	EPA 625	NPW	Y	x	
NY	Chromium VI	EPA 7196A	NPW	Y	x	
NY	Mercury	EPA 7470A	NPW	x	Y	
NY	1,2-Dibromoethane (EDB)	EPA 8011	NPW	Y	x	
NY	1,2-Dibromo-3-Chloropropane (DBCP)	EPA 8011	NPW	Y	x	
NY	Diesel Range Organics	EPA 8015C	NPW	Y	x	
NY	Gasoline Range Organics	EPA 8015C	NPW	Y	x	
NY	Amyl alcohol	EPA 8015D	NPW	x	Y	
NY	Diesel Range Organics	EPA 8015D	NPW	x	Y	
NY	Ethyl alcohol	EPA 8015D	NPW	x	Y	
NY	Ethylene glycol	EPA 8015D	NPW	x	Y	
NY	Gasoline Range Organics	EPA 8015D	NPW	x	Y	
NY	Iso-butyl Alcohol	EPA 8015D	NPW	x	Y	
NY	Methyl Alcohol (methanol)	EPA 8015D	NPW	x	Y	
NY	Tert-Butyl Alcohol	EPA 8015D	NPW	x	Y	
NY	4,4'-DDD	EPA 8081B	NPW	Y	Y	
NY	4,4'-DDE	EPA 8081B	NPW	Y	Y	
NY	4,4'-DDT	EPA 8081B	NPW	Y	Y	
NY	Aldrin	EPA 8081B	NPW	Y	Y	
NY	alpha-BHC	EPA 8081B	NPW	Y	Y	
NY	alpha-Chlordane	EPA 8081B	NPW	Y	Y	
NY	beta-BHC	EPA 8081B	NPW	Y	Y	
NY	Chlordane	EPA 8081B	NPW	Y	Y	
NY	delta-BHC	EPA 8081B	NPW	Y	Y	
NY	Dieldrin	EPA 8081B	NPW	Y	Y	
NY	Endosulfan I	EPA 8081B	NPW	Y	Y	
NY	Endosulfan II	EPA 8081B	NPW	Y	Y	
NY	Endosulfan Sulfate	EPA 8081B	NPW	Y	Y	
NY	Endrin	EPA 8081B	NPW	Y	Y	
NY	Endrin Aldehyde	EPA 8081B	NPW	Y	Y	
NY	Endrin Ketone	EPA 8081B	NPW	Y	Y	
NY	gamma-Chlordane	EPA 8081B	NPW	Y	Y	
NY	Heptachlor	EPA 8081B	NPW	Y	Y	
NY	Heptachlor Epoxide	EPA 8081B	NPW	Y	Y	
NY	Hexachlorobenzene	EPA 8081B	NPW	x	Y	

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State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	Lindane (gamma-BHC)	EPA 8081B	NPW	Y	Y	
NY	Methoxychlor	EPA 8081B	NPW	Y	Y	
NY	Mirex	EPA 8081B	NPW	x	Y	
NY	Toxaphene	EPA 8081B	NPW	Y	Y	
NY	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB	EPA 8082A	NPW	x	Y	
NY	2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)	EPA 8082A	NPW	x	Y	
NY	2,2',3,3',4,4'-Hexachlorobiphenyl (PCB 128)	EPA 8082A	NPW	x	Y	
NY	2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)	EPA 8082A	NPW	x	Y	
NY	2,2',3,5'-Tetrachlorobiphenyl (PCB 44)	EPA 8082A	NPW	x	Y	
NY	2,2',5,5'-Tetrachlorobiphenyl (PCB 52)	EPA 8082A	NPW	x	Y	
NY	2,2',5-Trichlorobiphenyl (PCB 18)	EPA 8082A	NPW	x	Y	
NY	2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	EPA 8082A	NPW	x	Y	
NY	2,3',4,4'-Tetrachlorobiphenyl (PCB 66)	EPA 8082A	NPW	x	Y	
NY	PCB-1016	EPA 8082A	NPW	Y	Y	
NY	PCB-1221	EPA 8082A	NPW	Y	Y	
NY	PCB-1232	EPA 8082A	NPW	Y	Y	
NY	PCB-1242	EPA 8082A	NPW	Y	Y	
NY	PCB-1248	EPA 8082A	NPW	Y	Y	
NY	PCB-1254	EPA 8082A	NPW	Y	Y	
NY	PCB-1260	EPA 8082A	NPW	Y	Y	
NY	PCB-1262	EPA 8082A	NPW	Y	Y	
NY	PCB-1268	EPA 8082A	NPW	Y	Y	
NY	2,4,5-T	EPA 8151A	NPW	Y	x	
NY	2,4,5-TP (Silvex)	EPA 8151A	NPW	Y	x	
NY	2,4-D	EPA 8151A	NPW	Y	x	
NY	2,4-DB	EPA 8151A	NPW	Y	x	
NY	Dalapon	EPA 8151A	NPW	Y	x	
NY	Dicamba	EPA 8151A	NPW	Y	x	
NY	Dichloroprop	EPA 8151A	NPW	Y	x	
NY	Dinoseb	EPA 8151A	NPW	Y	x	
NY	1,1,1,2-Tetrachloroethane	EPA 8260C	NPW	Y	x	
NY	1,1,1-Trichloroethane	EPA 8260C	NPW	Y	x	
NY	1,1,2,2-Tetrachloroethane	EPA 8260C	NPW	Y	x	
NY	1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C	NPW	Y	x	
NY	1,1,2-Trichloroethane	EPA 8260C	NPW	Y	x	
NY	1,1-Dichloroethane	EPA 8260C	NPW	Y	x	
NY	1,1-Dichloroethene	EPA 8260C	NPW	Y	x	
NY	1,1-Dichloropropene	EPA 8260C	NPW	Y	x	
NY	1,2,3-Trichlorobenzene	EPA 8260C	NPW	Y	x	
NY	1,2,3-Trichloropropane	EPA 8260C	NPW	Y	x	
NY	1,2,4-Trichlorobenzene	EPA 8260C	NPW	Y	x	
NY	1,2,4-Trimethylbenzene	EPA 8260C	NPW	Y	x	
NY	1,2-Dibromo-3-Chloropropane (DBCP)	EPA 8260C	NPW	Y	x	
NY	1,2-Dibromoethane (EDB)	EPA 8260C	NPW	Y	x	
NY	1,2-Dichlorobenzene	EPA 8260C	NPW	Y	x	
NY	1,2-Dichloroethane	EPA 8260C	NPW	Y	x	
NY	1,2-Dichloropropane	EPA 8260C	NPW	Y	x	
NY	1,3,5-Trimethylbenzene	EPA 8260C	NPW	Y	x	
NY	1,3-Dichlorobenzene	EPA 8260C	NPW	Y	x	

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Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	1,3-Dichloropropane	EPA 8260C	NPW	Y	x	
NY	1,4-Dichlorobenzene	EPA 8260C	NPW	Y	x	
NY	1,4-Dioxane	EPA 8260C	NPW	Y	x	
NY	1-Butanol	EPA 8260C	NPW	Y	x	
NY	2,2-Dichloropropane	EPA 8260C	NPW	Y	x	
NY	2-Butanone	EPA 8260C	NPW	Y	x	
NY	2-Chloroethyl Vinyl ether	EPA 8260C	NPW	Y	x	
NY	2-Chlorotoluene	EPA 8260C	NPW	Y	x	
NY	2-Hexanone	EPA 8260C	NPW	Y	x	
NY	4-Chlorotoluene	EPA 8260C	NPW	Y	x	
NY	4-Methyl-2-Pentanone	EPA 8260C	NPW	Y	x	
NY	Acetone	EPA 8260C	NPW	Y	x	
NY	Acrolein	EPA 8260C	NPW	Y	x	
NY	Acrylonitrile	EPA 8260C	NPW	Y	x	
NY	Benzene	EPA 8260C	NPW	Y	x	
NY	Bromobenzene	EPA 8260C	NPW	Y	x	
NY	Bromochloromethane	EPA 8260C	NPW	Y	x	
NY	Bromodichloromethane	EPA 8260C	NPW	Y	x	
NY	Bromoform	EPA 8260C	NPW	Y	x	
NY	Bromomethane	EPA 8260C	NPW	Y	x	
NY	Carbon Disulfide	EPA 8260C	NPW	Y	x	
NY	Carbon Tetrachloride	EPA 8260C	NPW	Y	x	
NY	Chlorobenzene	EPA 8260C	NPW	Y	x	
NY	Chloroethane	EPA 8260C	NPW	Y	x	
NY	Chloroform	EPA 8260C	NPW	Y	x	
NY	Chloromethane	EPA 8260C	NPW	Y	x	
NY	cis-1,2-Dichloroethene	EPA 8260C	NPW	Y	x	
NY	cis-1,3-Dichloropropene	EPA 8260C	NPW	Y	x	
NY	Cyclohexane	EPA 8260C	NPW	Y	x	
NY	Dibromochloromethane	EPA 8260C	NPW	Y	x	
NY	Dibromomethane	EPA 8260C	NPW	Y	x	
NY	Dichlorodifluoromethane	EPA 8260C	NPW	Y	x	
NY	Diethyl ether	EPA 8260C	NPW	Y	x	
NY	Diisopropyl ether	EPA 8260C	NPW	Y	x	
NY	Ethanol	EPA 8260C	NPW	Y	x	
NY	Ethyl acetate	EPA 8260C	NPW	Y	x	
NY	Ethyl Methacrylate	EPA 8260C	NPW	Y	x	
NY	Ethylbenzene	EPA 8260C	NPW	Y	x	
NY	Hexachlorobutadiene	EPA 8260C	NPW	Y	x	
NY	Isopropyl Alcohol	EPA 8260C	NPW	Y	x	
NY	Isopropylbenzene	EPA 8260C	NPW	Y	x	
NY	m+p-Xylene	EPA 8260C	NPW	Y	x	
NY	Methyl Acetate	EPA 8260C	NPW	Y	x	
NY	Methyl Cyclohexane	EPA 8260C	NPW	Y	x	
NY	Iodomethane (Methyl Iodide)	EPA 8260C	NPW	Y	x	
NY	Methyl Methacrylate	EPA 8260C	NPW	Y	x	
NY	Methyl tert-butyl ether	EPA 8260C	NPW	Y	x	
NY	Methylene Chloride	EPA 8260C	NPW	Y	x	
NY	Naphthalene	EPA 8260C	NPW	Y	x	

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State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	n-Butylbenzene	EPA 8260C	NPW	Y	x	
NY	n-Propylbenzene	EPA 8260C	NPW	Y	x	
NY	o-Xylene	EPA 8260C	NPW	Y	x	
NY	p-Isopropyltoluene	EPA 8260C	NPW	Y	x	
NY	sec-Butylbenzene	EPA 8260C	NPW	Y	x	
NY	Styrene	EPA 8260C	NPW	Y	x	
NY	Tert-Amyl Methyl Ether (TAME)	EPA 8260C	NPW	Y	x	
NY	Tert-Butyl Alcohol	EPA 8260C	NPW	Y	x	
NY	tert-butyl Ethyl Ether	EPA 8260C	NPW	Y	x	
NY	Tert-Butylbenzene	EPA 8260C	NPW	Y	x	
NY	Tetrachloroethene	EPA 8260C	NPW	Y	x	
NY	Tetrahydrofuran	EPA 8260C	NPW	Y	x	
NY	Toluene	EPA 8260C	NPW	Y	x	
NY	Total Xylenes	EPA 8260C	NPW	Y	x	
NY	Trans-1,2-Dichloroethene	EPA 8260C	NPW	Y	x	
NY	Trans-1,3-Dichloropropene	EPA 8260C	NPW	Y	x	
NY	Trans-1,4-Dichloro-2-butene	EPA 8260C	NPW	Y	x	
NY	Trichloroethene	EPA 8260C	NPW	Y	x	
NY	Trichlorofluoromethane	EPA 8260C	NPW	Y	x	
NY	Vinyl acetate	EPA 8260C	NPW	Y	x	
NY	Vinyl Chloride	EPA 8260C	NPW	Y	x	
NY	1,1'-Biphenyl	EPA 8270D	NPW	x	Y	
NY	1,2,4,5-Tetrachlorobenzene	EPA 8270D	NPW	Y	Y	
NY	1,2,4-Trichlorobenzene	EPA 8270D	NPW	Y	Y	
NY	1,2-Dichlorobenzene	EPA 8270D	NPW	Y	Y	
NY	1,2-Diphenylhydrazine	EPA 8270D	NPW	Y	Y	
NY	1,3-Dichlorobenzene	EPA 8270D	NPW	Y	Y	
NY	1,4-Dichlorobenzene	EPA 8270D	NPW	Y	Y	
NY	1,4-Dioxane	EPA 8270D	NPW	x	Y	
NY	2,3,4,6-Tetrachlorophenol	EPA 8270D	NPW	Y	Y	
NY	2,4,5-Trichlorophenol	EPA 8270D	NPW	Y	Y	
NY	2,4,6-Trichlorophenol	EPA 8270D	NPW	Y	Y	
NY	2,4-Dichlorophenol	EPA 8270D	NPW	Y	Y	
NY	2,4-Dimethylphenol	EPA 8270D	NPW	Y	Y	
NY	2,4-Dinitrophenol	EPA 8270D	NPW	Y	Y	
NY	2,4-Dinitrotoluene (2,4-DNT)	EPA 8270D	NPW	Y	Y	
NY	2,6-Dinitrotoluene (2,6-DNT)	EPA 8270D	NPW	Y	Y	
NY	2-Chloronaphthalene	EPA 8270D	NPW	Y	Y	
NY	2-Chlorophenol	EPA 8270D	NPW	Y	Y	
NY	2-Methyl-4,6-dinitrophenol	EPA 8270D	NPW	Y	Y	
NY	2-Methylnaphthalene	EPA 8270D	NPW	Y	Y	
NY	2-Methylphenol	EPA 8270D	NPW	Y	Y	
NY	2-Nitroaniline	EPA 8270D	NPW	Y	Y	
NY	2-Nitrophenol	EPA 8270D	NPW	Y	Y	
NY	3,3-Dichlorobenzidine	EPA 8270D	NPW	Y	Y	
NY	3-Methylphenol	EPA 8270D	NPW	Y	Y	
NY	3-Nitroaniline	EPA 8270D	NPW	Y	Y	
NY	4-Bromophenyl phenyl ether	EPA 8270D	NPW	Y	Y	
NY	4-Chloro-3-methylphenol	EPA 8270D	NPW	Y	Y	

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Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	4-Chloroaniline	EPA 8270D	NPW	Y	Y	
NY	4-Chlorophenyl phenyl ether	EPA 8270D	NPW	Y	Y	
NY	4-Methylphenol	EPA 8270D	NPW	Y	Y	
NY	4-Nitroaniline	EPA 8270D	NPW	Y	Y	
NY	4-Nitrophenol	EPA 8270D	NPW	Y	Y	
NY	Acenaphthene	EPA 8270D	NPW	Y	Y	
NY	Acenaphthylene	EPA 8270D	NPW	Y	Y	
NY	Acetophenone	EPA 8270D	NPW	Y	x	
NY	Aniline	EPA 8270D	NPW	Y	Y	
NY	Anthracene	EPA 8270D	NPW	Y	Y	
NY	Atrazine	EPA 8270D	NPW	Y	x	
NY	Benzaldehyde	EPA 8270D	NPW	Y	Y	
NY	Benzidine	EPA 8270D	NPW	Y	Y	
NY	Benzo(a)anthracene	EPA 8270D	NPW	Y	Y	
NY	Benzo(a)pyrene	EPA 8270D	NPW	Y	Y	
NY	Benzo(b)fluoranthene	EPA 8270D	NPW	Y	Y	
NY	Benzo(ghi)perylene	EPA 8270D	NPW	Y	Y	
NY	Benzo(k)fluoranthene	EPA 8270D	NPW	Y	Y	
NY	Benzoic Acid	EPA 8270D	NPW	Y	Y	
NY	Benzyl alcohol	EPA 8270D	NPW	Y	Y	
NY	Biphenyl	EPA 8270D	NPW	Y	x	
NY	Bis(2-chloroethoxy) methane	EPA 8270D	NPW	Y	Y	
NY	Bis(2-chloroethyl) ether	EPA 8270D	NPW	Y	Y	
NY	Bis(2-chloroisopropyl) ether	EPA 8270D	NPW	Y	Y	
NY	Bis(2-ethylhexyl) phthalate	EPA 8270D	NPW	Y	Y	
NY	Butyl Benzyl phthalate	EPA 8270D	NPW	Y	Y	
NY	Caprolactam	EPA 8270D	NPW	Y	Y	
NY	Carbazole	EPA 8270D	NPW	Y	Y	
NY	Chrysene	EPA 8270D	NPW	Y	Y	
NY	Cresols, Total	EPA 8270D	NPW	Y	x	
NY	Dibenzo(a,h)anthracene	EPA 8270D	NPW	Y	Y	
NY	Dibenzofuran	EPA 8270D	NPW	Y	Y	
NY	Diethyl phthalate	EPA 8270D	NPW	Y	Y	
NY	Dimethyl phthalate	EPA 8270D	NPW	Y	Y	
NY	Di-n-butyl phthalate	EPA 8270D	NPW	Y	Y	
NY	Di-n-octyl phthalate	EPA 8270D	NPW	Y	Y	
NY	Diphenylamine	EPA 8270D	NPW	Y	x	
NY	Fluoranthene	EPA 8270D	NPW	Y	Y	
NY	Fluorene	EPA 8270D	NPW	Y	Y	
NY	Hexachlorobenzene	EPA 8270D	NPW	Y	Y	
NY	Hexachlorobutadiene	EPA 8270D	NPW	Y	Y	
NY	Hexachlorocyclopentadiene	EPA 8270D	NPW	Y	Y	
NY	Hexachloroethane	EPA 8270D	NPW	Y	Y	
NY	Indeno(1,2,3-cd)pyrene	EPA 8270D	NPW	Y	Y	
NY	Isophorone	EPA 8270D	NPW	Y	x	
NY	Naphthalene	EPA 8270D	NPW	Y	Y	
NY	Nitrobenzene	EPA 8270D	NPW	Y	Y	
NY	N-Nitrosodimethylamine	EPA 8270D	NPW	Y	Y	
NY	N-Nitrosodi-n-propylamine	EPA 8270D	NPW	Y	Y	

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Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	N-Nitrosodiphenylamine	EPA 8270D	NPW	Y	Y	
NY	Parathion	EPA 8270D	NPW	Y	x	
NY	Pentachlorophenol	EPA 8270D	NPW	Y	Y	
NY	Phenanthrene	EPA 8270D	NPW	Y	Y	
NY	Phenol	EPA 8270D	NPW	Y	Y	
NY	Pyrene	EPA 8270D	NPW	Y	Y	
NY	Pyridine	EPA 8270D	NPW	Y	Y	
NY	Thionazin	EPA 8270D	NPW	Y	x	
NY	Acenaphthene	EPA 8270D-SIM	NPW	Y	Y	
NY	Acenaphthylene	EPA 8270D-SIM	NPW	Y	Y	
NY	Anthracene	EPA 8270D-SIM	NPW	Y	Y	
NY	Benzo(a)anthracene	EPA 8270D-SIM	NPW	Y	Y	
NY	Benzo(a)anthracene	EPA 8270D-SIM	NPW	Y	x	
NY	Benzo(a)pyrene	EPA 8270D-SIM	NPW	Y	Y	
NY	Benzo(a)pyrene	EPA 8270D-SIM	NPW	Y	x	
NY	Benzo(b)fluoranthene	EPA 8270D-SIM	NPW	Y	Y	
NY	Benzo(b)fluoranthene	EPA 8270D-SIM	NPW	Y	x	
NY	Benzo(ghi)perylene	EPA 8270D-SIM	NPW	Y	Y	
NY	Benzo(k)fluoranthene	EPA 8270D-SIM	NPW	Y	x	
NY	Benzo(k)fluoranthene	EPA 8270D-SIM	NPW	Y	Y	
NY	Chrysene	EPA 8270D-SIM	NPW	Y	Y	
NY	Dibenzo(a,h)anthracene	EPA 8270D-SIM	NPW	Y	Y	
NY	Dibenzo(a,h)anthracene	EPA 8270D-SIM	NPW	Y	x	
NY	Fluoranthene	EPA 8270D-SIM	NPW	Y	Y	
NY	Fluorene	EPA 8270D-SIM	NPW	Y	Y	
NY	Indeno(1,2,3-cd)pyrene	EPA 8270D-SIM	NPW	Y	Y	
NY	Indeno(1,2,3-cd)pyrene	EPA 8270D-SIM	NPW	Y	x	
NY	Naphthalene	EPA 8270D-SIM	NPW	Y	Y	
NY	Phenanthrene	EPA 8270D-SIM	NPW	Y	Y	
NY	Pyrene	EPA 8270D-SIM	NPW	Y	Y	
NY	Formaldehyde	EPA 8315A	NPW	Y	x	
NY	Cyanide - Amenable, Distillation	EPA 9010C	NPW	Y	x	
NY	Cyanide, Distillation	EPA 9010C	NPW	Y	x	
NY	Total Cyanide	EPA 9012B	NPW	Y	x	
NY	Total Cyanide	EPA 9014	NPW	Y	x	
NY	Sulfide	EPA 9030B	NPW	Y	x	
NY	Phenolics	EPA 9065	NPW	Y	x	
NY	Ethane	EPA RSK-175	NPW	x	Y	
NY	Ethene	EPA RSK-175	NPW	x	Y	
NY	Methane	EPA RSK-175	NPW	x	Y	
NY	Propane	EPA RSK-175	NPW	x	Y	
NY	Nitrogen, Total Kjeldahl	Lachat 10-107-06-2	NPW	Y	x	
NY	Cyanide, Total	Lachat 10-204-00-1-X	NPW	Y	x	
NY	Color	SM 2120B	NPW	Y	x	
NY	Turbidity	SM 2130B	NPW	Y	x	
NY	Acidity	SM 2310B	NPW	Y	x	
NY	Alkalinity	SM 2320B	NPW	Y	x	
NY	Total Hardness (CaCO3)	SM 2340B	NPW	x	Y	
NY	Specific Conductance	SM 2510B	NPW	Y	x	

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Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	Total Residue	SM 2540B	NPW	Y	x	
NY	Total Dissolved Solids	SM 2540C	NPW	Y	x	
NY	Total Suspended Solids	SM 2540D	NPW	Y	x	
NY	Volatile Solids	SM 2540E	NPW	Y	x	
NY	Total Settleable Solids	SM 2540F	NPW	Y	x	
NY	Chromium VI	SM 3500 Cr B	NPW	Y	x	
NY	Sulfate	SM 4500 SO4-E	NPW	Y	x	
NY	Chloride	SM 4500 CL-E	NPW	Y	x	
NY	Cyanide, Total	SM 4500 CN E	NPW	Y	x	
NY	Fluoride Preliminary Distillation	SM 4500 F-B	NPW	Y	x	
NY	Fluoride	SM 4500 F-C	NPW	Y	x	
NY	Ammonia	SM 4500 NH3 B	NPW	Y	x	
NY	Ammonia	SM 4500 NH3-H	NPW	Y	x	
NY	Nitrogen, Total Kjeldahl	SM 4500 NH3-H	NPW	Y	x	
NY	Nitrogen, Total Kjeldahl (Distillation)	SM 4500Norg-C	NPW	Y	x	
NY	Nitrite-N	SM 4500 NO2-B	NPW	Y	x	
NY	Nitrate-N	SM 4500 NO3-F	NPW	Y	x	
NY	Nitrate-N	SM 4500 NO3-F	NPW	Y	x	
NY	Nitrate-Nitrite	SM 4500 NO3-F	NPW	Y	x	
NY	Orthophosphate	SM 4500 P-E	NPW	Y	x	
NY	Total Phosphorus (Digestion)	SM 4500 P-B	NPW	Y	x	
NY	Total Phosphorus	SM 4500 P-E	NPW	Y	x	
NY	Sulfide	SM 4500 S2-D	NPW	Y	x	
NY	Sulfate	SM 4500 SO4-E	NPW	Y	x	
NY	Biochemical Oxygen Demand	SM 5210B	NPW	Y	x	
NY	Biochemical Oxygen Demand - Carbonaceous	SM 5210B	NPW	Y	x	
NY	Chemical Oxygen Demand	SM 5220D	NPW	Y	x	
NY	Total Organic Carbon	SM 5310C	NPW	Y	x	
NY	Surfactants (MBAS)	SM 5540C	NPW	Y	x	
NY	Heterotrophic Plate Count	SM 9215B	NPW	Y	x	
NY	Coliform, Total MPN	SM 9221B	NPW	Y	x	
NY	Coliform, Fecal MPN	SM 9221C	NPW	Y	x	
NY	Coliform, Fecal MPN	SM 9221E	NPW	Y	x	
NY	Coliform, Total MF	SM 9222B	NPW	Y	x	
Ny	Titanium	EPA 6010C	NPW	x	Y	
NY	Flashpoint	EPA 1010A	SCM	Y	x	
NY	Ignitability	EPA 1030	SCM	Y	x	
NY	TCLP	EPA 1311	SCM	Y	Y	
NY	SPLP	EPA 1312	SCM	Y	x	
NY	Microwave Acid Digestion	EPA 3050B	SCM	Y	Y	
NY	Microwave Acid Digestion	EPA 3051A	SCM	Y	Y	
NY	Chromium VI Digestion	EPA 3060A	SCM	x	Y	
NY	Soxhlet Extraction	EPA 3540C	SCM	Y	Y	
NY	Microwave Acid Digestion	EPA 3546	SCM	Y	x	
NY	Microscale Solvent Extraction (MSE)	EPA 3570	SCM	x	Y	
NY	Waste Dilution	EPA 3580A	SCM	Y	Y	
NY	Purge & Trap Soil Low/High	EPA 5035A	SCM	Y	x	
NY	Aluminum	EPA 6010C	SCM	x	Y	
NY	Antimony	EPA 6010C	SCM	x	Y	

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Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	Arsenic	EPA 6010C	SCM	x	Y	
NY	Barium	EPA 6010C	SCM	x	Y	
NY	Beryllium	EPA 6010C	SCM	x	Y	
NY	Boron	EPA 6010C	SCM	x	Y	
NY	Cadmium	EPA 6010C	SCM	x	Y	
NY	Calcium	EPA 6010C	SCM	x	Y	
NY	Chromium	EPA 6010C	SCM	x	Y	
NY	Cobalt	EPA 6010C	SCM	x	Y	
NY	Copper	EPA 6010C	SCM	x	Y	
NY	Iron	EPA 6010C	SCM	x	Y	
NY	Lead	EPA 6010C	SCM	x	Y	
NY	Magnesium	EPA 6010C	SCM	x	Y	
NY	Manganese	EPA 6010C	SCM	x	Y	
NY	Molybdenum	EPA 6010C	SCM	x	Y	
NY	Nickel	EPA 6010C	SCM	x	Y	
NY	Potassium	EPA 6010C	SCM	x	Y	
NY	Selenium	EPA 6010C	SCM	x	Y	
NY	Silver	EPA 6010C	SCM	x	Y	
NY	Sodium	EPA 6010C	SCM	x	Y	
NY	Strontium	EPA 6010C	SCM	x	Y	
NY	Thallium	EPA 6010C	SCM	x	Y	
NY	Tin	EPA 6010C	SCM	x	Y	
NY	Titanium	EPA 6010C	SCM	x	Y	
NY	Vanadium	EPA 6010C	SCM	x	Y	
NY	Zinc	EPA 6010C	SCM	x	Y	
NY	Aluminum	EPA 6020A	SCM	x	Y	
NY	Antimony	EPA 6020A	SCM	x	Y	
NY	Arsenic	EPA 6020A	SCM	x	Y	
NY	Barium	EPA 6020A	SCM	x	Y	
NY	Beryllium	EPA 6020A	SCM	x	Y	
NY	Boron	EPA 6020A	SCM	x	Y	
NY	Cadmium	EPA 6020A	SCM	x	Y	
NY	Calcium	EPA 6020A	SCM	x	Y	
NY	Chromium	EPA 6020A	SCM	x	Y	
NY	Cobalt	EPA 6020A	SCM	x	Y	
NY	Copper	EPA 6020A	SCM	x	Y	
NY	Iron	EPA 6020A	SCM	x	Y	
NY	Lead	EPA 6020A	SCM	x	Y	
NY	Magnesium	EPA 6020A	SCM	x	Y	
NY	Manganese	EPA 6020A	SCM	x	Y	
NY	Molybdenum	EPA 6020A	SCM	x	Y	
NY	Nickel	EPA 6020A	SCM	x	Y	
NY	Potassium	EPA 6020A	SCM	x	Y	
NY	Selenium	EPA 6020A	SCM	x	Y	
NY	Silver	EPA 6020A	SCM	x	Y	
NY	Sodium	EPA 6020A	SCM	x	Y	
NY	Strontium	EPA 6020A	SCM	x	Y	
NY	Thallium	EPA 6020A	SCM	x	Y	
NY	Tin	EPA 6020A	SCM	x	Y	

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Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	Vanadium	EPA 6020A	SCM	x	Y	
NY	Zinc	EPA 6020A	SCM	x	Y	
NY	Chromium VI	EPA 7196A	SCM	Y	x	
NY	Mercury	EPA 7471B	SCM	x	Y	
NY	Mercury	EPA 7474	SCM	x	Y	
NY	Diesel Range Organics	EPA 8015C	SCM	Y	x	
NY	Gasoline Range Organics	EPA 8015C	SCM	Y	x	
NY	Diesel Range Organics	EPA 8015D	SCM	x	Y	
NY	Ethylene glycol	EPA 8015D	SCM	x	Y	
NY	Gasoline Range Organics	EPA 8015D	SCM	x	Y	
NY	Iso-butyl Alcohol	EPA 8015D	SCM	x	Y	
NY	Tert-Butyl Alcohol	EPA 8015D	SCM	x	Y	
NY	4,4'-DDD	EPA 8081B	SCM	Y	Y	
NY	4,4'-DDE	EPA 8081B	SCM	Y	Y	
NY	4,4'-DDT	EPA 8081B	SCM	Y	Y	
NY	Aldrin	EPA 8081B	SCM	Y	Y	
NY	alpha-BHC	EPA 8081B	SCM	Y	Y	
NY	alpha-Chlordane	EPA 8081B	SCM	Y	x	
NY	beta-BHC	EPA 8081B	SCM	Y	Y	
NY	Chlordane	EPA 8081B	SCM	Y	Y	
NY	delta-BHC	EPA 8081B	SCM	Y	Y	
NY	Dieldrin	EPA 8081B	SCM	Y	Y	
NY	Endosulfan I	EPA 8081B	SCM	Y	Y	
NY	Endosulfan II	EPA 8081B	SCM	Y	Y	
NY	Endosulfan Sulfate	EPA 8081B	SCM	Y	Y	
NY	Endrin	EPA 8081B	SCM	Y	Y	
NY	Endrin Aldehyde	EPA 8081B	SCM	Y	Y	
NY	Endrin Ketone	EPA 8081B	SCM	Y	Y	
NY	gamma-Chlordane	EPA 8081B	SCM	Y	Y	
NY	Heptachlor	EPA 8081B	SCM	Y	Y	
NY	Heptachlor Epoxide	EPA 8081B	SCM	Y	Y	
NY	Lindane (gamma-BHC)	EPA 8081B	SCM	Y	Y	
NY	Methoxychlor	EPA 8081B	SCM	Y	Y	
NY	Mirex	EPA 8081B	SCM	x	Y	
NY	Toxaphene	EPA 8081B	SCM	Y	Y	
NY	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB	EPA 8082A	SCM	x	Y	
NY	2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)	EPA 8082A	SCM	x	Y	
NY	2,2',3,3',4,4'-Hexachlorobiphenyl (PCB 128)	EPA 8082A	SCM	x	Y	
NY	2,2',3,4,4',5,5'-Heptacholorbiphenyl (PCB 180)	EPA 8082A	SCM	x	Y	
NY	2,2',3,4,4',5',6-Heptachlorobiphenyl (PCB 183)	EPA 8082A	SCM	x	Y	
NY	2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)	EPA 8082A	SCM	x	Y	
NY	2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB 187)	EPA 8082A	SCM	x	Y	
NY	2,2',3,4,5,5'-Hexachlorobiphenyl (PCB 141)	EPA 8082A	SCM	x	Y	
NY	2,2',3,4,5'-Pentachlorobiphenyl (PCB 87)	EPA 8082A	SCM	x	Y	
NY	2,2',3,5,5',6-Hexachlorobiphenyl (PCB 151)	EPA 8082A	SCM	x	Y	
NY	2,2',3,5'-Tetrachlorobiphenyl (PCB 44)	EPA 8082A	SCM	x	Y	
NY	2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153)	EPA 8082A	SCM	x	Y	
NY	2,2',4,5,5'-Pentachlorobiphenyl (PCB 101)	EPA 8082A	SCM	x	Y	
NY	2,2',5,5'-Tetrachlorobiphenyl (PCB 52)	EPA 8082A	SCM	x	Y	

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Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	2,2',5-Trichlorobiphenyl (PCB 18)	EPA 8082A	SCM	x	Y	
NY	2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	EPA 8082A	SCM	x	Y	
NY	2,3',4,4'-Tetrachlorobiphenyl (PCB 66)	EPA 8082A	SCM	x	Y	
NY	2,3-Dichlorobiphenyl (PCB 5)	EPA 8082A	SCM	x	Y	
NY	2,4'-Trichlorobiphenyl (PCB 31)	EPA 8082A	SCM	x	Y	
NY	2-Chlorobiphenyl (PCB 1)	EPA 8082A	SCM	x	Y	
NY	PCB-1016	EPA 8082A	SCM	Y	Y	
NY	PCB-1221	EPA 8082A	SCM	Y	Y	
NY	PCB-1232	EPA 8082A	SCM	Y	Y	
NY	PCB-1242	EPA 8082A	SCM	Y	Y	
NY	PCB-1248	EPA 8082A	SCM	Y	Y	
NY	PCB-1254	EPA 8082A	SCM	Y	Y	
NY	PCB-1260	EPA 8082A	SCM	Y	Y	
NY	PCB-1262	EPA 8082A	SCM	Y	Y	
NY	PCB-1268	EPA 8082A	SCM	Y	Y	
NY	PCBs in Oil	EPA 8082A	SCM	Y	x	
NY	2,4,5-T	EPA 8151A	SCM	Y	x	
NY	2,4,5-TP (Silvex)	EPA 8151A	SCM	Y	x	
NY	2,4-D	EPA 8151A	SCM	Y	x	
NY	2,4-DB	EPA 8151A	SCM	Y	x	
NY	Dalapon	EPA 8151A	SCM	Y	x	
NY	Dicamba	EPA 8151A	SCM	Y	x	
NY	Dichloroprop	EPA 8151A	SCM	Y	x	
NY	Dinoseb	EPA 8151A	SCM	Y	x	
NY	MCPA	EPA 8151A	SCM	Y	x	
NY	MCPP	EPA 8151A	SCM	Y	x	
NY	1,1,1,2-Tetrachloroethane	EPA 8260C	SCM	Y	x	
NY	1,1,1-Trichloroethane	EPA 8260C	SCM	Y	x	
NY	1,1,2,2-Tetrachloroethane	EPA 8260C	SCM	Y	x	
NY	1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C	SCM	Y	x	
NY	1,1,2-Trichloroethane	EPA 8260C	SCM	Y	x	
NY	1,1-Dichloroethane	EPA 8260C	SCM	Y	x	
NY	1,1-Dichloroethene	EPA 8260C	SCM	Y	x	
NY	1,1-Dichloropropene	EPA 8260C	SCM	Y	x	
NY	1,2,3-Trichloropropane	EPA 8260C	SCM	Y	x	
NY	1,2,4-Trichlorobenzene	EPA 8260C	SCM	Y	x	
NY	1,2,4-Trimethylbenzene	EPA 8260C	SCM	Y	x	
NY	1,2-Dibromo-3-Chloropropane (DBCP)	EPA 8260C	SCM	Y	x	
NY	1,2-Dibromoethane (EDB)	EPA 8260C	SCM	Y	x	
NY	1,2-Dichlorobenzene	EPA 8260C	SCM	Y	x	
NY	1,2-Dichloroethane	EPA 8260C	SCM	Y	x	
NY	1,2-Dichloropropane	EPA 8260C	SCM	Y	x	
NY	1,3,5-Trimethylbenzene	EPA 8260C	SCM	Y	x	
NY	1,3-Dichlorobenzene	EPA 8260C	SCM	Y	x	
NY	1,3-Dichloropropane	EPA 8260C	SCM	Y	x	
NY	1,4-Dichlorobenzene	EPA 8260C	SCM	Y	x	
NY	1,4-Dioxane	EPA 8260C	SCM	Y	x	
NY	2,2-Dichloropropane	EPA 8260C	SCM	Y	x	
NY	2-Butanone	EPA 8260C	SCM	Y	x	

Alpha Analytical

Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	2-Chloroethyl Vinyl ether	EPA 8260C	SCM	Y	x	
NY	2-Chlorotoluene	EPA 8260C	SCM	Y	x	
NY	2-Hexanone	EPA 8260C	SCM	Y	x	
NY	4-Chlorotoluene	EPA 8260C	SCM	Y	x	
NY	4-Methyl-2-Pentanone	EPA 8260C	SCM	Y	x	
NY	Acetone	EPA 8260C	SCM	Y	x	
NY	Acrolein	EPA 8260C	SCM	Y	x	
NY	Acrylonitrile	EPA 8260C	SCM	Y	x	
NY	Benzene	EPA 8260C	SCM	Y	x	
NY	Bromobenzene	EPA 8260C	SCM	Y	x	
NY	Bromochloromethane	EPA 8260C	SCM	Y	x	
NY	Bromodichloromethane	EPA 8260C	SCM	Y	x	
NY	Bromoform	EPA 8260C	SCM	Y	x	
NY	Bromomethane	EPA 8260C	SCM	Y	x	
NY	Carbon Disulfide	EPA 8260C	SCM	Y	x	
NY	Carbon Tetrachloride	EPA 8260C	SCM	Y	x	
NY	Chlorobenzene	EPA 8260C	SCM	Y	x	
NY	Chloroethane	EPA 8260C	SCM	Y	x	
NY	Chloroform	EPA 8260C	SCM	Y	x	
NY	Chloromethane	EPA 8260C	SCM	Y	x	
NY	cis-1,2-Dichloroethene	EPA 8260C	SCM	Y	x	
NY	cis-1,3-Dichloropropene	EPA 8260C	SCM	Y	x	
NY	Cyclohexane	EPA 8260C	SCM	Y	x	
NY	Dibromochloromethane	EPA 8260C	SCM	Y	x	
NY	Dibromomethane	EPA 8260C	SCM	Y	x	
NY	Dichlorodifluoromethane	EPA 8260C	SCM	Y	x	
NY	Diethyl ether	EPA 8260C	SCM	Y	x	
NY	Ethyl acetate	EPA 8260C	SCM	Y	x	
NY	Ethyl Methacrylate	EPA 8260C	SCM	Y	x	
NY	Ethylbenzene	EPA 8260C	SCM	Y	x	
NY	Hexachlorobutadiene	EPA 8260C	SCM	Y	x	
NY	Isopropylbenzene	EPA 8260C	SCM	Y	x	
NY	m+p-Xylene	EPA 8260C	SCM	Y	x	
NY	Methyl Acetate	EPA 8260C	SCM	Y	x	
NY	Methyl Cyclohexane	EPA 8260C	SCM	Y	x	
NY	Methyl tert-butyl ether	EPA 8260C	SCM	Y	x	
NY	Methylene Chloride	EPA 8260C	SCM	Y	x	
NY	Naphthalene	EPA 8260C	SCM	Y	x	
NY	n-Butanol	EPA 8260C	SCM	Y	x	
NY	n-Butylbenzene	EPA 8260C	SCM	Y	x	
NY	n-Propylbenzene	EPA 8260C	SCM	Y	x	
NY	o-Xylene	EPA 8260C	SCM	Y	x	
NY	p-Isopropyltoluene	EPA 8260C	SCM	Y	x	
NY	sec-Butylbenzene	EPA 8260C	SCM	Y	x	
NY	Styrene	EPA 8260C	SCM	Y	x	
NY	Tert-Butyl Alcohol	EPA 8260C	SCM	Y	x	
NY	Tert-Butylbenzene	EPA 8260C	SCM	Y	x	
NY	Tetrachloroethene	EPA 8260C	SCM	Y	x	
NY	Toluene	EPA 8260C	SCM	Y	x	

Alpha Analytical

Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	Total Xylenes	EPA 8260C	SCM	Y	x	
NY	Trans-1,2-Dichloroethene	EPA 8260C	SCM	Y	x	
NY	Trans-1,3-Dichloropropene	EPA 8260C	SCM	Y	x	
NY	Trans-1,4-Dichloro-2-butene	EPA 8260C	SCM	Y	x	
NY	Trichloroethene	EPA 8260C	SCM	Y	x	
NY	Trichlorofluoromethane	EPA 8260C	SCM	Y	x	
NY	Vinyl Acetate	EPA 8260C	SCM	Y	x	
NY	Vinyl Chloride	EPA 8260C	SCM	Y	x	
NY	1,1'-Biphenyl	EPA 8270D	SCM	x	Y	
NY	1,2,4,5-Tetrachlorobenzene	EPA 8270D	SCM	Y	Y	
NY	1,2,4-Trichlorobenzene	EPA 8270D	SCM	Y	Y	
NY	1,2-Dichlorobenzene	EPA 8270D	SCM	Y	Y	
NY	1,2-Diphenylhydrazine	EPA 8270D	SCM	Y	Y	
NY	1,3-Dichlorobenzene	EPA 8270D	SCM	Y	Y	
NY	1,4-Dichlorobenzene	EPA 8270D	SCM	Y	Y	
NY	2,3,4,6-Tetrachlorophenol	EPA 8270D	SCM	Y	Y	
NY	2,4,5-Trichlorophenol	EPA 8270D	SCM	Y	Y	
NY	2,4,6-Trichlorophenol	EPA 8270D	SCM	Y	Y	
NY	2,4-Dichlorophenol	EPA 8270D	SCM	Y	Y	
NY	2,4-Dimethylphenol	EPA 8270D	SCM	Y	Y	
NY	2,4-Dinitrophenol	EPA 8270D	SCM	Y	Y	
NY	2,4-Dinitrotoluene (2,4-DNT)	EPA 8270D	SCM	Y	x	
NY	2,6-Dinitrotoluene (2,6-DNT)	EPA 8270D	SCM	Y	x	
NY	2-Chloronaphthalene	EPA 8270D	SCM	Y	Y	
NY	2-Chlorophenol	EPA 8270D	SCM	Y	Y	
NY	2-Methyl-4,6-dinitrophenol	EPA 8270D	SCM	Y	Y	
NY	2-Methylnaphthalene	EPA 8270D	SCM	Y	Y	
NY	2-Methylphenol	EPA 8270D	SCM	Y	Y	
NY	2-Nitroaniline	EPA 8270D	SCM	Y	Y	
NY	2-Nitrophenol	EPA 8270D	SCM	Y	Y	
NY	3,3-Dichlorobenzidine	EPA 8270D	SCM	Y	Y	
NY	3-Methylphenol	EPA 8270D	SCM	Y	Y	
NY	3-Nitroaniline	EPA 8270D	SCM	Y	Y	
NY	4-Bromophenyl phenyl ether	EPA 8270D	SCM	Y	Y	
NY	4-Chloro-3-methylphenol	EPA 8270D	SCM	Y	Y	
NY	4-Chlorophenyl phenyl ether	EPA 8270D	SCM	Y	Y	
NY	4-Methylphenol	EPA 8270D	SCM	Y	Y	
NY	4-Nitroaniline	EPA 8270D	SCM	Y	Y	
NY	4-Nitrophenol	EPA 8270D	SCM	Y	Y	
NY	Acenaphthene	EPA 8270D	SCM	Y	Y	
NY	Acenaphthylene	EPA 8270D	SCM	Y	Y	
NY	Acetophenone	EPA 8270D	SCM	Y	Y	
NY	Aniline	EPA 8270D	SCM	Y	Y	
NY	Anthracene	EPA 8270D	SCM	Y	Y	
NY	Atrazine	EPA 8270D	SCM	Y	x	
NY	Benzaldehyde	EPA 8270D	SCM	Y	Y	
NY	Benzidine	EPA 8270D	SCM	Y	Y	
NY	Benzo(a)anthracene	EPA 8270D	SCM	Y	Y	
NY	Benzo(a)pyrene	EPA 8270D	SCM	Y	Y	

Alpha Analytical

Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	Benzo(b)fluoranthene	EPA 8270D	SCM	Y	Y	
NY	Benzo(ghi)perylene	EPA 8270D	SCM	Y	Y	
NY	Benzo(k)fluoranthene	EPA 8270D	SCM	Y	Y	
NY	Benzoic Acid	EPA 8270D	SCM	Y	Y	
NY	Benzyl alcohol	EPA 8270D	SCM	Y	Y	
NY	Biphenyl	EPA 8270D	SCM	Y	x	
NY	Bis(2-chloroethoxy) methane	EPA 8270D	SCM	Y	Y	
NY	Bis(2-chloroethyl) ether	EPA 8270D	SCM	Y	Y	
NY	Bis(2-chloroisopropyl) ether	EPA 8270D	SCM	Y	Y	
NY	Bis(2-ethylhexyl) phthalate	EPA 8270D	SCM	Y	Y	
NY	Butyl Benzyl phthalate	EPA 8270D	SCM	Y	Y	
NY	Caprolactam	EPA 8270D	SCM	Y	Y	
NY	Carbazole	EPA 8270D	SCM	Y	Y	
NY	Chrysene	EPA 8270D	SCM	Y	Y	
NY	Dibenzo(a,h)anthracene	EPA 8270D	SCM	Y	Y	
NY	Dibenzofuran	EPA 8270D	SCM	Y	Y	
NY	Diethyl phthalate	EPA 8270D	SCM	Y	Y	
NY	Dimethyl phthalate	EPA 8270D	SCM	Y	Y	
NY	Di-n-butyl phthalate	EPA 8270D	SCM	Y	Y	
NY	Di-n-octyl phthalate	EPA 8270D	SCM	Y	Y	
NY	Diphenylamine	EPA 8270D	SCM	Y	x	
NY	Fluoranthene	EPA 8270D	SCM	Y	Y	
NY	Fluorene	EPA 8270D	SCM	Y	Y	
NY	Hexachlorobenzene	EPA 8270D	SCM	Y	Y	
NY	Hexachlorobutadiene	EPA 8270D	SCM	Y	x	
NY	Hexachlorocyclopentadiene	EPA 8270D	SCM	Y	Y	
NY	Hexachloroethane	EPA 8270D	SCM	Y	Y	
NY	Indeno(1,2,3-cd)pyrene	EPA 8270D	SCM	Y	Y	
NY	Isophorone	EPA 8270D	SCM	Y	Y	
NY	Naphthalene	EPA 8270D	SCM	Y	Y	
NY	Nitrobenzene	EPA 8270D	SCM	Y	Y	
NY	N-Nitrosodimethylamine	EPA 8270D	SCM	Y	Y	
NY	N-Nitrosodi-n-propylamine	EPA 8270D	SCM	Y	Y	
NY	N-Nitrosodiphenylamine	EPA 8270D	SCM	Y	Y	
NY	Parathion	EPA 8270D	SCM	Y	x	
NY	Pentachloronitrobenzene	EPA 8270D	SCM	Y	Y	
NY	Pentachlorophenol	EPA 8270D	SCM	Y	Y	
NY	Phenanthrene	EPA 8270D	SCM	Y	Y	
NY	Phenol	EPA 8270D	SCM	Y	Y	
NY	Pyrene	EPA 8270D	SCM	Y	Y	
NY	Pyridine	EPA 8270D	SCM	Y	Y	
NY	Acenaphthene	EPA 8270D-SIM	SCM	Y	x	
NY	Acenaphthylene	EPA 8270D-SIM	SCM	Y	x	
NY	Anthracene	EPA 8270D-SIM	SCM	Y	x	
NY	Benzo(a)anthracene	EPA 8270D-SIM	SCM	Y	x	
NY	Benzo(a)pyrene	EPA 8270D-SIM	SCM	Y	x	
NY	Benzo(b)fluoranthene	EPA 8270D-SIM	SCM	Y	x	
NY	Benzo(ghi)perylene	EPA 8270D-SIM	SCM	Y	x	
NY	Benzo(k)fluoranthene	EPA 8270D-SIM	SCM	Y	x	

Alpha Analytical

Summary of Certification

State	Parameter	Method	Matrix	Alpha Westboro	Alpha Mansfield	Notes
NY	Chrysene	EPA 8270D-SIM	SCM	Y	x	
NY	Dibenzo(a,h)anthracene	EPA 8270D-SIM	SCM	Y	x	
NY	Fluoranthene	EPA 8270D-SIM	SCM	Y	x	
NY	Fluorene	EPA 8270D-SIM	SCM	Y	x	
NY	Indeno(1,2,3-cd)pyrene	EPA 8270D-SIM	SCM	Y	x	
NY	Naphthalene	EPA 8270D-SIM	SCM	Y	x	
NY	Phenanthrene	EPA 8270D-SIM	SCM	Y	x	
NY	Pyrene	EPA 8270D-SIM	SCM	Y	x	
NY	Cyanide - Amenable, Distillation	EPA 9010C	SCM	Y	x	
NY	Cyanide, Distillation	EPA 9010C	SCM	Y	x	
NY	Cyanide, Total	EPA 9012B	SCM	Y	x	
NY	Cyanide, Total	EPA 9014	SCM	Y	x	
NY	Extractable Organic Halides (EOX)	EPA 9023	SCM	Y	x	
NY	Sulfate	EPA 9038	SCM	Y	x	
NY	pH	EPA 9040C	SCM	Y	x	
NY	pH	EPA 9045D	SCM	Y	x	
NY	Specific Conductance	EPA 9050A	SCM	Y	x	
NY	Total Organic Carbon	EPA 9060	SCM	x	Y	
NY	Total Phenolics	EPA 9065	SCM	Y	x	
NY	Oil & Grease	EPA 9071B	SCM	Y	x	
NY	Chloride	EPA 9251	SCM	Y	x	
NY	Total Organic Carbon	Lloyd Kahn	SCM	x	Y	

APPENDIX I

Cover System Restoration NYSDEC Approval

Christian Hoelzli

From: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>
Sent: Wednesday, March 13, 2024 11:23 AM
To: Christian Hoelzli; Omar Ramotar; Obligado, Andre A (DEC); O'Connell, Jane H (DEC)
Cc: Robert Hendrickson; Jwhite@quadrumglobal.com; Amir Setayesh; Jessica Taylor; Jasper Wu
Subject: RE: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Hi Christian,
The approached plan submitted on 3/8/24 is acceptable. Please also document this work in the PRR.

Thanks,

Wendi Zheng
New York State Department of Environmental Conservation
P: (718) 482-7541 | wendi.zheng@dec.ny.gov

From: Christian Hoelzli <choelzli@rouxinc.com>
Sent: Friday, March 8, 2024 4:16 PM
To: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>; Omar Ramotar <oramotar@rouxinc.com>; Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Robert Hendrickson <rhendrickson@quadrumglobal.com>; Jwhite@quadrumglobal.com; Amir Setayesh <asetayesh@quadrumglobal.com>; Jessica Taylor <jtaylor@rouxinc.com>; Jasper Wu <jasper@zdjasper.com>
Subject: RE: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Wendi,

As requested, please see attached photo of the trench excavation with tape measure and tabulated lab results. As shown in the photo, the depth of the trench was measured to be 33 inches, confirming the excavation is below the RCA cap. The soil was screened with a PID and read 0.0 ppm, a photo of this reading is also attached. As shown in the tables, the soil results yielded exceedances of RRSCOs in metals.

Because the RCA cover material appears to be mixed with the native soil, Roux proposes the following actions for DEC approval:

- Backfill trench with RCA/soil pile mixture
- Roux to prepare a Request to Import/Reuse Fill or Soil for imported clean fill material
- Import DEC-approved fill material
- Add a new cover on top of the backfilled trench comprised of this clean fill material. This new cover will be 2' thick and extend a minimum of 2' beyond the extents of the disturbance
    - Roux to perform oversight and air monitoring in accordance with the Site's CAMP during cover restoration work
    - CAMP and Daily progress reports with photos to be generated for the duration of the work

Please let us know if you have any objections or would like to discuss. Thanks,
Christian

Christian Hoelzli | Project Engineer
252 W 37th Street 18th Floor, New York, NY 10018
Main: 631.232.2600 | Mobile: 516.589.4604
Email: choelzli@rouxinc.com | Website: www.rouxinc.com

From: Christian Hoelzli
Sent: Monday, February 26, 2024 1:20 PM
To: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>; Omar Ramotar <oramotar@rouxinc.com>; Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Robert Hendrickson <rhendrickson@quadrumglobal.com>; Jwhite@quadrumglobal.com; Amir Setayesh <asetayesh@quadrumglobal.com>; Jessica Taylor <jtaylor@rouxinc.com>; Jasper Wu <jasper@zdjasper.com>
Subject: RE: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Ok understood, thanks. We did not have the bottleware for QC today so we will collect the sample tomorrow instead, standard TAT.

Christian Hoelzli | Project Engineer
252 W 37th Street 18th Floor, New York, NY 10018
Main: 631.232.2600 | Mobile: 516.589.4604
Email: choelzli@rouxinc.com | Website: www.rouxinc.com

From: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>
Sent: Monday, February 26, 2024 11:45 AM
To: Christian Hoelzli <choelzli@rouxinc.com>; Omar Ramotar <oramotar@rouxinc.com>; Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Robert Hendrickson <rhendrickson@quadrumglobal.com>; Jwhite@quadrumglobal.com; Amir Setayesh <asetayesh@quadrumglobal.com>; Jessica Taylor <jtaylor@rouxinc.com>
Subject: RE: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Hi Christian,
The soil sampling analysis is acceptable however, QC samples are required.

Thanks,

Wendi Zheng
New York State Department of Environmental Conservation
P: (718) 482-7541 | wendi.zheng@dec.ny.gov

From: Christian Hoelzli <choelzli@rouxinc.com>
Sent: Friday, February 23, 2024 2:04 PM
To: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>; Omar Ramotar <oramotar@rouxinc.com>; Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Robert Hendrickson <rhendrickson@quadrumglobal.com>; Jwhite@quadrumglobal.com; Amir Setayesh

<asetayesh@quadrumglobal.com>; Jessica Taylor <jtaylor@rouxinc.com>
Subject: RE: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Wendi,

Understood, Roux plans to be onsite Monday at 10AM to measure exact depth, including photo of tape measure, and collection of a soil sample.

Confirming the below analyses are appropriate to run the sample, assuming the soil qualifies for re-use at this time:

- One Discrete Sample:
  - VOCs + TICs (8260)
- One Composite Sample:
  - SVOCs + TICs (8270)
  - Pesticides (8081)
  - PCBs (8081)
  - TAL Metals (3050B)
  - Mercury (7470)
  - Total Cyanide
  - Hexavalent Chromium (7196A)
  - Trivalent Chromium

We would also like to confirm that no QC samples are necessary given the nature of this event.

Thanks,
Christian

Christian Hoelzli | Project Engineer
252 W 37th Street 18th Floor, New York, NY 10018
Main: 631.232.2600 | Mobile: 516.589.4604
Email: choelzli@rouxinc.com | Website: www.rouxinc.com

From: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>
Sent: Thursday, February 22, 2024 10:33 AM
To: Omar Ramotar <oramotar@rouxinc.com>; Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Robert Hendrickson <rhendrickson@quadrumglobal.com>; Jwhite@quadrumglobal.com; Amir Setayesh <asetayesh@quadrumglobal.com>; Christian Hoelzli <choelzli@rouxinc.com>; Jessica Taylor <jtaylor@rouxinc.com>
Subject: RE: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Omar,
Thank you for the update. Please be advised that any intrusive activities outlined in the SMP must be conducted under the oversight of the PE of record and/or his field representatives for any future work. Please also notify the Department with a 15-day notification before commencing any intrusive work.

With regard to the documentation provided, the photos appears to show a) an excavation that is deeper than 2 feet and b) evidence of soil disturbance - the soil pile on the left appears to be a mixture of RCA cover material with native soil on top. The NYSDEC requires the following immediately - sampling of the soil in the in the RCA/soil pile mixture to confirm that the demo contractor did not spread soil contamination or mix soil contamination from below the site cover onto the site cover. Please also provide photo documentation showing the exact depth of the excavation that was performed with a tape measure.

Thank you,

Wendi Zheng
New York State Department of Environmental Conservation
P: (718) 482-7541 | wendi.zheng@dec.ny.gov

From: Omar Ramotar <oramotar@rouxinc.com>
Sent: Wednesday, February 21, 2024 12:31 PM
To: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>; Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Robert Hendrickson <rhendrickson@quadrumglobal.com>; Jwhite@quadrumglobal.com; Amir Setayesh <asetayesh@quadrumglobal.com>; Christian Hoelzli <choelzli@rouxinc.com>; Jessica Taylor <jtaylor@rouxinc.com>
Subject: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Wendi, Andre and Jane,

As requested and in accordance with the Site-specific Site Management Plan, we are sending you this e-mail with regards to onsite work that was recently performed that disturbed the existing cover system. As you noted, this work was performed without a 15-day notice being issued and without Roux being present onsite.

As we briefly discussed, the open excavation was observed by Roux while conducting our scheduled quarterly groundwater monitoring event on February 20, 2024. Please see photos attached.

Once Roux confirmed that the existing cover system was disturbed, Roux immediately reached out to the current owner (Quadrum) and future owner (ZDJ Vernon LLC [ZDJ]) on February 20, 2024 to discuss and review what had occurred onsite. Based on the information that was conveyed during these preliminary calls, we wanted to let you know what we know to date. The cover system was disturbed by ZDJ's Demolition Contractor; however, the underlying impacted soil was not disturbed. That said, the location of this excavation is inside the garage adjacent to the warehouse and marked off with caution tape. The building is unoccupied and the cover system in this location is comprised of 2' of clean fill. To reiterate, that was the only material that was excavated and stockpiled. In addition to the cover system being disturbed, the concrete pad and flushmount manholes for monitoring wells MW-40 and MW-41 were also removed incidentally as part of the work, but the wells themselves remain intact. As shown in the photos, the wells are now covered with buckets and the clean fill material is stockpiled in the vicinity.

ZDJ informed us that this work was conducted by their Demolition Contractor to locate a utility line. Unfortunately, the Demolition Contractor had not conveyed to ZDJ that any intrusive work would be performed as part of this utility location work. In any case, no further action is planned until a follow-up discussion occurs with the NYSDEC and next steps are confirmed. On a parallel track, we have to confirm

what work remains, if any, beyond filling in the trench with clean cover material. That said and for your initial reference, Roux would be present for any future work that occurs. It is also important to note that Roux will be setting up a conference call with ZDJ's Demolition Contractor to review SMP requirements before any future work is performed onsite.

As always, if you have any follow-up questions or concerns on what has been conveyed herein, please don't hesitate to call or email.

Kind Regards,
Omar

Omar Ramotar, P.E. – NJ, NY, AZ, NV | Principal Engineer
300 Atrium Drive, Suite 403, Somerset, New Jersey 08873
Main: 732-584-6500 | Direct: 732-584-6529| Cell: 631-553-9274
Email: oramotar@rouxinc.com | Website: www.rouxinc.com

ROUX

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Please consider the environment before printing this email.

APPENDIX J

Imported Backfill Documentation and NYSDEC Approval

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 0-50

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that passes a size 100 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

See attached submittal prepared by Tilcon New York, Inc.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Metropolitan Trucking Group, LLC will be providing stone import from Tilcon New York, Inc.

Location where fill was obtained:

Tilcon Riverdale Quarry and Asphalt - 125 Hamburg Turnpike, Riverdale, NJ 07457

Identification of any state or local approvals as a fill source:

Approved Source: NYS 8-5R. NYSDOT Test No. 21AR027

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Tilcon Submittal Riverdale ASTM#57

The information provided on this form is accurate and complete.

Signature

4/18/24

Date

Christian Hoelzli

Print Name

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

Firm

Tilcon New York Inc.
9 Entin Road
Parsippany, NJ 07054

T 973-366-7741
www.tilconny.com

A CRH COMPANY

People • Character • Innovation • Performance

April 4, 2024

Metropolitan Trucking Group, LLC
301 E. Hanover Avenue Suite 6
Morristown, NJ 07960

Attn: Gennaro Fusella
Re: Riverdale- ASTM#57

Dear Mr. Fusella;

As it is produced by our Goshen quarry, and Supply at Riverdale Quarry, ASTM#57 is manufactured to meet New Jersey Department of Transportation (NJDOT) and New York State Department of Transportation (NYSDOT) and ASTM Standard Specifications.

Our Goshen (8-5R) supplies 100% virgin trap rock (diabase) that is quarried and processed to finished sizes. Material shipped from our Goshen facility is clean and free of contaminants prior to loading. Our Goshen quarry was approved by the NYSDOT under Test No.21AR027 and the letter to this effect is attached.

Also attached, please find a typical gradation and third-party test results confirming source quality characteristics.

If you have any questions or require additional information, please contact me at leslie.dalessandro@tilconny.com

Very truly yours,
TILCON NEW YORK, INC.

Leslie Dalessandro

Leslie Dalessandro
Quality Control Department

NEW YORK STATE DEPARTMENT OF TRANSPORTATION MATERIALS BUREAU
COARSE AGGREGATE ANALYSIS FOR 703-02 PHYSICAL REQUIREMENTS

Source
8-5R
Tilcon New York, Inc
Goshen, NY

Sample/Test
Sample Date: 05/21/2021
Test No.: 21AR027
LRN: SM21018971
Smpl ID: bpahucki215P152739

**** Privileged and Confidential ****

Test results represent this sample only. They may not be appropriate for designing mixes. When designing mixes, follow procedures in appropriate Materials Method.

Material meets specifications for §703-02, Coarse Aggregate. Consult pavement friction requirements for intended use.

Run	Specific Gravity	
1	Bulk SSD	2.803
1	Bulk	2.791
1	Apparent	2.823
1	Absorption (%)	0.4

Uncompacted Voids	
Avg. Uncompacted Voids (%)	52.44

Acid Insoluble Residue Results

>20% indicates high residue.

Run	10 Cycle MgSO4	
1	Stone Size	1
1	Loss (%)	1.8

Max Loss ≤ 18% on #2 stone.
*Max Loss ≤ 32% on #1 Stone.**

25 Cycle 3% Brine Freeze Thaw	
Loss #2 (%)	
Loss #1 (%)	

Max Loss ≤ 20% on #2 stone.
*Max Loss ≤ 25% on #1 Stone.**

Crush Count

*Min 75% crushed for #2 stone, 85% for #1 stone.**

In accordance with Materials Method 29, only aggregate sources with a current and accepted biennial test and Geologic Source Report will appear on the NYSDOT Approved List
*For detailed specifications, see https://www.dot.ny.gov/main/business-center/engineering/specifications

NEW YORK STATE DEPARTMENT OF TRANSPORTATION MATERIALS BUREAU
COARSE AGGREGATE ANALYSIS FOR 703-02 PHYSICAL REQUIREMENTS

Source
8-5R
Tilcon New York, Inc
Goshen, NY

Sample/Test
Sample Date: 05/21/2021
Test No.: 21AR027
LRN: SM21018971
Smpl ID: bpahucki215P152739

**** Privileged and Confidential ****

Petrographic Results*	
Stone Size No.	1
Noncarbonate (%)	0
Deleterious Material	Within Limit

Rock Type Description	%
Dolomite (dolostone)	96.7
Asphalt-coated pieces	3.3

Source Confirmation	
Stone Size No.	1
Source Confirmation	Matches Reference

In accordance with Materials Method 29, only aggregate sources with a current and accepted biennial test and Geologic Source Report will appear on the NYSDOT Approved List
*For detailed specifications, see https://www.dot.ny.gov/main/business-center/engineering/specifications

Client: Tilcon New York Inc.
Project: 2024 Quality Control – Goshen, NY
Project Code: 231668
Subject: Laboratory Tests of Coarse Aggregate (Goshen Quarry)

On November 27, 2023, your representative delivered one sample of crushed stone, (Advance Testing Sample Number 23-1741A), from the Goshen Quarry, to our Campbell Hall, New York facility for testing. A Resistance of Coarse Aggregates to Freezing and Thawing in accordance with NYSDOT Method 703-08P, G, a 10 Cycle Magnesium Sulfate Soundness in accordance with NYSDOT 703-07P, G, a Lightweight Particles in Aggregate in accordance with ASTM C123, a Los Angeles Abrasion in accordance with ASTM C131, a Clay Lumps and Friable Particles in accordance with ASTM C142, and a Density, Relative Density and Absorption in accordance with ASTM C127 was performed on this sample per your request. The laboratory test results follow.

25-Cycle Freeze Thaw
NYSDOT 703-08P, G
Tilcon New York- Haverstraw Quarry- ¾" Stone

Advance Sample No.	Sieve Fraction	Initial Weight (g)	Final Weight (g)	Mass Loss (g)	Loss (%)
23-1739A	1/2" – 1/4"	1025.2	1023.2	2.0	0.2
	3/4" – 1/2"	1025.0	1023.1	1.9	0.2
	1" – 3/4"	1519.2	1515.1	4.1	
NYSDOT Specification: < 20%		**Total Sample Loss: Complies with Specification**			

10 Cycle Magnesium Sulfate Soundness
NYSDOT 703-07 P, G
Tilcon New York- Goshen Quarry- ¾" Stone

Advance Sample No.	Sieve Fraction	Initial Weight (g)	Final Weight (g)	Percent Weight Loss (%)
23-1741A	1" – 1/2"	2502.4	2484.5	0.7
	1/2' – 1/4'	1002.9	993.1	1.0
NYSDOT Specification: < 18%		**Loss: Complies with Specification**		

Los Angeles Abrasion
ASTM C131
Tilcon New York- Goshen Quarry- ¾" Stone

Advance Sample No.	Nominal Maximum Size (inch)	Grading	Percent Loss (%)	Project Specification (%)
23-1741A	3/4	B	16.6	**≤ 35**

Density, Relative Density, and Absorption of Coarse Aggregates
ASTM C127
Tilcon New York- Goshen Quarry- ¾" Stone

Advance Sample No.	Relative Density (OD)	Relative Density (SSD)	Apparent Relative Density	Absorption (%)
23-1741A	2.793	2.802	2.817	0.30

Clay Lumps and Friable Particles in Coarse Aggregate
ASTM C142
Tilcon New York- Goshen Quarry- ¾" Stone

Advance Sample No.	Particle Size Range Tested	Average Clay Lumps and Friable Particles (%)	Project Specification (%)
23-1741A	3/4 - #4	0.00	**≤ 0.5**

Lightweight Particles In Aggregate
ASTM C123
Tilcon New York- Goshen Quarry- ¾" Stone

Advance Sample No.	Nominal Maximum Size (inch)	Mass of Sample (g)	Heavy Liquid Used	Specific Gravity of Liquid	Lightweight Particles (%)
23-1741A	3/4	3140.6	Zinc Bromide	2.40	0.00

Sincerely,

Emily J. Rodriguez

Emily J. Rodriguez
Laboratory Manager
Advance Testing Company, Inc.

Gradation Test Report

Plant 060_00403-Riverdale Quarry
Product 3/4"-ASTM 57
Specification ASTM 57

1392807084

Sample Information

Sample No 1392807084
Date Sampled 03/11/2024 13:38
Sampled By Jarryd Megargel
Type Stockpile
Method Load-out Face

Split Sample ☐
Resample ☐

Test Note
Goshen Blended Pile

Gradation Results

Date Completed 03/11/2024 13:38
Tested By Jarryd Megargel

Unit	Moist Mass	Dry Mass	Wash Mass	Moisture %	Wash Loss %	Procedure
lb		22.45				

Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification	Comment
1" (25mm)	0.00	0.00	0.0	0.0	100.0	100-100	100-100	
3/4" (19mm)	2.20	2.20	9.8	9.8	90.2	59-100\82		
1/2" (12.5mm)	13.65	15.85	60.8	70.6	29.4	25-55\35	25-60	
3/8" (9.5mm)	4.85	20.70	21.6	92.2	7.8			
#4 (4.75mm)	1.45	22.15	6.5	98.7	1.3	0-5\2.5	0-10	
#8 (2.36mm)	0.10	22.25	0.4	99.1	0.9	0-2\1	0-5	
Pan	0.20	22.45	0.9	100.0	0.0			

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Permits, Region 3
21 South Putt Corners Road, New Paltz, NY 12561-1620
P: (845) 256-3054 | F: (845) 255-4659
www.dec.ny.gov

NEW YORK STATE | Department of Environmental Conservation

IMPORTANT NOTICE TO ALL PERMITTEES

The permit renewal you requested is enclosed. Please read it carefully and note the conditions that are included in it. The permit is valid for only that activity expressly authorized therein; work beyond the scope of the permit may be considered a violation of law and be subject to appropriate enforcement action. Granting of this permit does not relieve the permittee of the responsibility of obtaining any other permission, consent or approval from any other federal, state, or local government which may be required.

A draft permit was sent on 06/21/2022 with a cover letter identifying changes. Please note the following further changes made to the draft:

- Fixing typographical and punctuation errors
- Adding a cited letter to Mined Land Reclamation Permit Condition # 1, “Conformance With Plans”
- Changing the submission month to March for the well monitoring data report in Mined Land Reclamation Permit Condition # 13, “Monitoring Wells,” and the pumping data in Mined Land Reclamation Permit Condition # 14, “Weekly Monitoring of Pumped Water”
- Adding (235 ft. amsl) for clarity in Mined Land Reclamation Permit Condition # 15, “Monitoring Groundwater as Deepening Occurs.”

Please note the expiration date of the permit. Applications for renewal must be submitted to the Regional Permit Administrator **30 days or more prior to the expiration date**.

Applications for renewal submitted to the Regional Permit Administrator must be sent via electronic copy to dep.r3@dec.ny.gov, with one hard copy mailed to the above address.

The DEC permit number & program ID number noted on page 1 of the permit are important and should be retained for your records. These numbers should be referenced on all correspondence related to the permit, and on any future applications for permits associated with this facility/project area.

Be advised, the Uniform Procedures Regulations (6NYCRR Part 621) provide that an applicant may request a public hearing if a permit is denied or contains conditions which are unacceptable to them. Any such request must be made in writing within 30 calendar days of the date of permit issuance and must be addressed to the Regional Permit Administrator at the letterhead address. A copy should also be sent to the Chief Administrative Law Judge at NYSDEC, 625 Broadway, 1st Floor, Albany, NY 12233-1550.

If you have any technical questions regarding the permit, please contact the applicable DEC program staff included on this permit’s distribution. For general questions, you may contact me.

Carrie Mackey
Division of Environmental Permits, Region 3
carrie.mackey@dec.ny.gov

NEW YORK STATE | Department of Environmental Conservation

PERMIT

Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
TILCON NEW YORK INC
9 Entin Rd
Parsippany, NJ 07054
(845) 358-4500

Facility:
GOSHEN QUARRY
320 RTE 17A
GOSHEN, NY 10924

Facility Location: in GOSHEN in ORANGE COUNTY
Facility Principal Reference Point: NYTM-E: 553.5 NYTM-N: 4578.9
Latitude: 41°21'35.4" Longitude: 74°21'37.4"

Authorized Activity: Continue to mine and process dolomite within a total permitted area of 55.8 acres of a 55.8-acre total affected area boundary, situated on 65 acres controlled by the permittee. This permit authorizes the permittee to excavate to a maximum elevation of 16 feet below sea level in accordance with the plans and reports referenced in Mined Land Reclamation Permit Condition No. 1 and as conditioned herein.

Permit Authorizations

Mined Land Reclamation - Under Article 23, Title 27
Permit ID 3-3330-00007/00002 (Mined Land ID 30034)
Renewal Effective Date: 7/11/2022 Expiration Date: 7/10/2027

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: JOHN W PETRONELLA, Regional Permit Administrator
Address: NYSDEC Region 3 Headquarters
21 S Putt Corners Rd
New Paltz, NY 12561

Authorized Signature: John W. Petronella Digitally signed by John W. Petronella Date: 2022.07.11 11:38:44 -04'00' Date / /

Distribution List

K. McLoone, Tilcon New York Inc.
H. Duda, Division of Mineral Resources
Orange County Executive
Supervisor, Town of Goshen
R. Hisert, H2H Geoscience Engineering, PLLC

Permit Components

MINED LAND RECLAMATION PERMIT CONDITIONS

GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Permit Attachments

Blasting Chart - Ground Vibration Limits

MINED LAND RECLAMATION PERMIT CONDITIONS

1. Conformance With Plans All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or applicant's agent as part of the permit application. Such plans were approved by the Department on the effective date of this permit and consist of the following items:
The following plans and reports were prepared by H2H Associates, LLC or as indicated:

a) "Vicinity Map", dated August 22, 2005;
b) "Site Plan", dated January 30, 2007 and last revised January 25, 2011;
c) "Geologic Cross Sections A-A' and B-B'", dated December 21, 2010 and last revised January 25, 2011;
d) "Geologic Cross Sections C-C' and D-D'", dated March 3, 2009 and last revised January 25, 2011;
e) Report entitled "Renewal and Modification Application for permit to Mine", dated May 1994 and last revised January 1996 (specifically, Section 2.0, Cultural Resources; Attachment 3, OPRHP Eligibility Determination; Attachment 5, OPRHP Determination of No Adverse Impact; Attachment 6, Resolution of the Orange County Legislature; Attachment 7, National Register Nomination Form) and prepared by RUST Environment & Infrastructure;
f) Report entitled "Mitigation/Avoidance Plan Dutchess Quarry Caves 1 & 8 (A07106.000002 and A07106.000090) and Goshen Quarry Loci 2-5 (A07106.000089) Town of Goshen, Orange County, New York", dated February 1993 and prepared by Dunn Corporation;

g) Report entitled "Modification to Mined Land Reclamation Permit MLF #3043-10-0034", dated May 2005;
h) Report entitled "Hydrogeologic Assessment Proposed Deepening of the Goshen Quarry", Volumes 1 & 2, dated July 2009;
i) Report entitled "Response to NYSDEC-Issued Notice of Incomplete Application Dated July 8, 2010", dated February 2011;
j) "Mining Permit Application Form", signed by Charles C. Morris, President, dated July 17, 2018;
k) "Application for Renewal of Mining Permit (narrative), Tilcon New York Inc. Goshen Quarry", dated April 2022, prepared by Tilcon New York Inc.;
l) "Mine Plan Map, Tilcon New York Inc. Goshen Quarry", dated August 8, 2007 and last revised May 31, 2022, prepared by H2H Geoscience Engineering, PLLC;
m) "Groundwater Monitoring, Complaint Response and well Mitigation Plan", dated March 2021 and last revised March 2022, prepared by H2H Geoscience Engineering, PLLC;
n) "2020 – 2021 Hydrologic Data Assessment for the Next 100 Feet of Proposed Quarry Deepening", dated March 2021, prepared by H2H Geoscience Engineering, PLLC;
o) "Mined Land Reclamation Deepening Approval" letter from J. Petronella, NYSDEC, to K. McLoone, Tilcon New York, Inc., dated April 20, 2021.

2. No Deviation From Approved Plan The permittee shall not deviate or depart from the approved mined land use plan without approval by the Department of an alteration or modification thereto.

3. Blasting Hours: No blasting shall be done without giving prior notice to the Commissioner of Social Services of the County of Orange, or his appointed delegate of authority. No blasting shall be conducted between the hours of 7:30 A.M. and 5:30 P.M, Mondays through Fridays, except recognized Orange County Holidays. No exceptions shall be made to this provision except upon the written permission of the Commissioner of the Department of Social Services of the County of Orange. Exceptions from these hours will require Departmental approval. No blasting will occur on Sundays or legal holidays.

4. Licensed Blaster Required All blasting shall be undertaken, monitored and recorded by a blaster licensed by the New York State Department of Labor. The permittee shall maintain copies of all blasting records. Such records shall be made available to the Department (NYSDEC) upon request.

5. Air Blast Limits Air blast shall not exceed 133 dB at the location of any dwelling, public building, school, church, or community or institutional building outside the permit area.

6. Ground Vibration Limits Ground vibration shall not exceed the limits as per the attached ground vibration limits graph from the U. S. Bureau of Mines Report of Investigation 8507 (Figure B-1, Safe levels of blasting vibration for houses using a combination of velocity and displacement). Maximum peak particle velocity shall not exceed these limits at the location of any dwelling, public building, school, church, or community or institutional building outside the permit area.

7. Seismograph Monitoring All blasts shall be monitored with a properly calibrated seismograph. Seismographs shall be installed at the nearest residential receptor and any locations identified within the approved Mined Land Use Plan or locations determined by the Department. Seismograph records shall be provided to the Department upon request.

8. No Flyrock Beyond the Property Line There shall be no flyrock beyond the property line including flyrock that travels in the air or along the ground. In the event of flyrock beyond the property line, all blasting shall cease immediately and the flyrock incident shall be reported within 24 hours to the Regional Mined Land Reclamation Specialist. Blasting shall not resume until written approval to resume blasting is obtained from the Department.

9. Storage of Explosives Storage of explosives on site shall conform to State of New York, Department of Labor Industrial Code Rule 39, found at 12 NYCRR 39:

Part 39.6 General Provisions for the Storage and Handling of Explosives
Part 39.8 Construction and Maintenance of Magazines
Part 39.9 Location of Magazines

10. Prevent Injury Blasting shall be conducted in a manner to prevent injury to persons and damage to public or private property outside the permit area.

11. Protection of Caves The permittee shall monitor all blasts with seismographs placed at the property line and at the immediate area of the caves in the preserve area. Additionally, the conditions of the caves shall be documented by photographers and in accordance with the Monitoring Requirements of the "Mitigation/Avoidance Plan" by Dunn Corp. dated February 1993. Any damage or physical changes noted in any of the surveys of any of the caves shall be reported within 3 days to the Region 3 Mined Land Reclamation Specialist and the NYS Office of Parks, Recreation & Historic Preservation.

12. Water Quality and Quantity The permittee shall ensure that any mining activities do not adversely affect the quality or quantity of available ground and surface water except as may be authorized by State Pollutant Discharge Elimination System (SPDES) permits for the mine site. The permittee shall restore or replace water supplies determined by the Department to no longer be useable due to effects caused by mining operations. Tilcon New York, Inc. or its successors shall undertake such tests or investigations as deemed necessary by the Department to aid in making its determination.

13. Monitoring Wells The permittee shall monitor groundwater elevations at monitoring wells BP-1, BP-2, BP-4, BP-5, BP-6, BP-7, BP-8, BP-9, and BP-10; and surface elevations at staff gauges SG-1, SG-4, SG-6 and as depicted in Mined Land Reclamation Permit Condition #1 (l) at monthly intervals. A well monitoring data report must be submitted to the Region 3 Mined Land Reclamation Specialist and the Town of Goshen during the month of March for each year of the permit term. Any proposed changes to the monitoring program must be submitted in writing to the Department for approval.

14. Weekly Monitoring of Pumped Water The volume of pumped water from the quarry shall be monitored on a weekly basis. The pumping data shall be reported to the Region 3 Mined Land Reclamation Specialist during the month of March each year of the permit term.

15. Monitoring Groundwater as Deepening Occurs As the quarry advances to the 100-foot elevation bench level (235 ft. amsl), the well level and pumping data will be evaluated to project potential future impacts as excavation progresses to lower elevations, ultimately to the proposed final floor elevation of -16 feet. Additional phases of quarry deepening beyond the 100-foot elevation level (235 ft. amsl) will be dependent on the monitoring results of the initial phases of quarry deepening and the ability of Tilcon New York, Inc. or its successors to mitigate any potential impacts to surface or groundwater and shall not commence until written approval has been issued by the Department's Regional Permit Administrator. A decision by the Department regarding further excavation below the 100-foot elevation (235 ft. amsl) shall be made within a reasonable time frame. Prior to commencing mining to lower mine levels, Tilcon New York, Inc. or its successors must have mined to a sufficient extent at each previously approved level to collect sufficient monitoring data to determine the hydrologic effects at the approved level before developing the subsequent level, unless otherwise approved by the Department in writing. The results of the monitoring data will be made available to the Department and the Town of Goshen. The Department will review the hydrologic results and comment prior to authorization of further deepening. Enhancements to the well monitoring network (e.g., deepening of existing monitoring wells, installation of new or replacement monitoring wells) must be addressed as mining progresses. If related hydrologic conditions become significantly adverse with the vertical expansion, the Department reserves the right to re-assess the hydrologic data and modify the final mine bench floor elevation.

16. Other DEC Permits The permittee is responsible for maintaining all necessary Air Pollution Control permits, SPDES permits (including Multi-Sector General Permit coverage), Water Withdrawal permits, and Petroleum Bulk Storage registrations and for complying with all requirements, conditions and restrictions contained in such permits or registrations.

17. No Mining within Historic Area No mining activity is permitted within the historic boundary and associated buffer area as per the determinations made by the NYS Office of Parks, Recreation and Historic Preservation and as depicted on the approved plans referenced in Mined Land Reclamation Permit Condition No 1.

18. Restricting Access to the Site The permittee is responsible for implementing appropriate measures to restrict access to the mine site. Such measures may include fencing, locked gates, signage, and other appropriate measures in order to maintain the site in a safe and secure manner.

19. Setbacks of Quarry Floor Setbacks of the quarry floor to property boundaries shall conform to the provisions contained in 6NYCRR Part 422.2(c)(3)(iii). These provisions require that the outer perimeter of the mine floor be maintained at the distance of at least 25 feet plus one and one-quarter times the height of the mine face from exterior property boundaries.

20. Closed Loop Settling Pond System The settling pond system shall be operated and maintained as a closed loop recycling system. This system shall be maintained in a manner which prevents any continuous discharge from entering any stream, surface water, or drainage course which exists on or near the site unless coverage under a SPDES permit has first been obtained pursuant to Article 17 of the Environmental Conservation Law.

21. Settling Pond Fine Storage Area The permittee must maintain the "settling pond fines storage area", erosion/sedimentation controls, and berm to prevent the release of silt or sediment into the storm drain exiting the site at the northeast corner of the property. Additional controls shall be installed as needed to prevent any movement or transport of sediment offsite.

22. Settling Pond Maintenance Sediment ponds shall be cleaned out when approximately 50% of storage volume (below the primary outlet structure) has been reached.

23. Overburden and Stockpiles Overburden and topsoil stockpiles shall be maintained at least 25 feet from any exterior property boundary as specified in 6 NYCRR Part 422.2(c)(3)(iv).

24. Strip and Stockpile Soils for Reclamation Prior to the excavation of previously undisturbed areas, topsoil and overburden shall be stripped, stockpiled separately, and used for reclamation of mined areas. These stockpiles shall be seeded to establish a vegetative cover within 30 days, or as soon as practicable following their construction. The permittee shall locate all overburden stockpiles within the permitted area of the approved Life of Mine. Sufficient quantities of topsoil must be retained on the site for use in reclamation, unless prior approval is granted by the Department.

25. No Unpermitted Discharge Outside Limits of Mine There shall be no natural swales or channels or constructed features such as ditches, pipes, etc., that are capable of discharging waters to any offsite areas or to any areas outside the limits of the Life of Mine except those explicitly described and shown in the narrative and graphic portions of the approved Mined Land Use Plan. All silt laden water and storm water generated on, or running across, the site shall be retained within the approved project area. The permittee must comply with all applicable State Pollutant Discharge Elimination System (SPDES) permit requirements and provide necessary notifications for off-site point source discharges.

26. Maintain Area Markers for Permit Term The permittee shall provide permanent markers such as stakes, posts or other devices acceptable to the Department to identify and delineate the permit area, as outlined on the approved Mining Plan Map. These markers are to be installed prior to the start of mining and shall be maintained for the duration of the permit term.

27. Dust Control Water or other approved dust palliatives must be applied to haulageways and other parts of the mine, as often as necessary, to prevent visible dust from leaving the mine property.

28. Fueling of Equipment and Reporting of Spills Fueling of equipment shall be controlled to prevent spillage. Any spillage of fuels, waste oils, other petroleum products or hazardous materials shall be reported to the Department's Spill Hotline number (1-800-457-7362) within 2 hours. The permittee shall retain the Department's Spill Response number for immediate access in the permittee's office and at the mine site.

29. Chain Link Fencing The chain link fence installed along the northwesterly boundary of the mine which abuts the limits of the Historic Preserve buffer area must be maintained throughout this permit term.

30. Bond, Surety to Remain in Force Any required reclamation bond or other surety, in an amount determined by the Department, shall be maintained in full force and effect. Such a bond or other surety shall not be terminated until the reclamation of the mined area is approved by the department in writing.

31. File Termination Notice If the permittee discontinues operation, a termination notice must be filed within 30 days of termination of mining activities to the address below:

Regional Mined Land Reclamation Specialist
NYSDEC Region 3 Headquarters
21 S Putt Corners Rd
New Paltz, NY12561

GENERAL CONDITIONS - Apply to ALL Authorized Permits:

1. Facility Inspection by The Department The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71- 0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

2. Relationship of this Permit to Other Department Orders and Determinations Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

3. Applications For Permit Renewals, Modifications or Transfers The permittee must submit a separate written application to the Department for permit renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing. Submission of applications for permit renewal, modification or transfer are to be submitted to:

Regional Permit Administrator
NYSDEC Region 3 Headquarters
21 S Putt Corners Rd
New Paltz, NY12561

4. Submission of Renewal Application The permittee must submit a renewal application at least 30 days before permit expiration for the following permit authorizations: Mined Land Reclamation.

5. Permit Modifications, Suspensions and Revocations by the Department The Department reserves the right to exercise all available authority to modify, suspend or revoke this permit. The grounds for modification, suspension or revocation include:

a. materially false or inaccurate statements in the permit application or supporting papers;

b. failure by the permittee to comply with any terms or conditions of the permit;

c. exceeding the scope of the project as described in the permit application;

d. newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;

e. noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

6. Permit Transfer Permits are transferrable unless specifically prohibited by statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification
The permittee, excepting state or federal agencies, expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under Article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

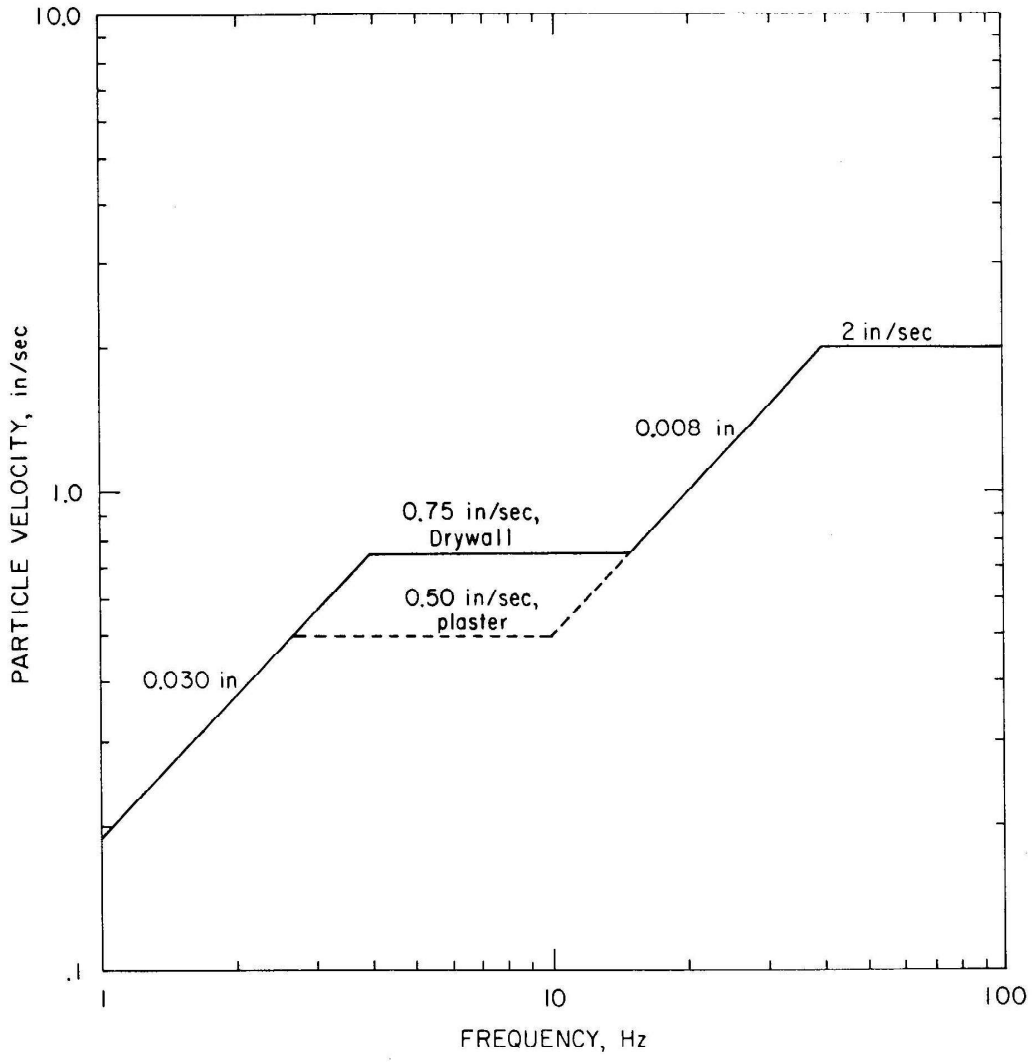
Item B: Permittee's Contractors to Comply with Permit
The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits
The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights
This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

Item E: SEQR Type II Action, Renewal Under the State Environmental Quality Review Act (SEQR), the Department of Environmental Conservation has determined that this permit is a renewal where there will be no material change in permit conditions or the scope of permitted activities and is therefore a Type II Action and not subject to further procedures under this law.

BLASTING CHART - GROUND VIBRATION LIMITS



RI-8501 Figure B-1. Safe levels of blasting vibration for houses using a combination of velocity and displacement.

From: Siskind, D. E., Stagg, M. S., Kopp, J. W., and Dowding, C. H., 1980, Structure Response and Damage Produced by Ground Vibration From Surface Mine Blasting, Bureau of Mines Report of Investigation RI-8507, United States Department of the Interior, 74 p.

Christian Hoelzli

From: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>
Sent: Friday, April 19, 2024 12:20 PM
To: Christian Hoelzli; Omar Ramotar; Obligado, Andre A (DEC); O'Connell, Jane H (DEC)
Cc: Jessica Taylor; Jasper Wu
Subject: RE: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Christian,
The Department has reviewed the request dated April 18, 2024 to import approximately 50 cubic yards of virgin stone from Tilcon New York Inc – Goshen Quarry (Permit No. 3-3330-00007/00002) located at 320 RTE 17A in New York. The material will be used for backfill the cover system. Based on the information provided, the request is hereby approved.

The proposed fill material meets the requirements for material other than soil (i.e., gravel, rock, stone, recycled concrete or recycled brick) as specified in section 5.4(e)5 of DER-10. Therefore, the material may be used above or below the demarcation layer.

Testing in accordance with DER-10, the Site Management Plan and approval by the Department is required for any additional material imported from this source. Should you have any questions please contact me.

Thank you,

Wendi Zheng
New York State Department of Environmental Conservation
P: (718) 482-7541 | wendi.zheng@dec.ny.gov

From: Christian Hoelzli <choelzli@rouxinc.com>
Sent: Friday, April 19, 2024 9:56 AM
To: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>; Omar Ramotar <oramotar@rouxinc.com>; Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Jessica Taylor <jtaylor@rouxinc.com>; Jasper Wu <jasper@zdjasper.com>
Subject: RE: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Yes, please see attached.

Christian Hoelzli | Project Engineer
252 W 37th Street 18th Floor, New York, NY 10018
Main: 631.232.2600 | Mobile: 516.589.4604
Email: choelzli@rouxinc.com | Website: www.rouxinc.com

From: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>
Sent: Friday, April 19, 2024 8:22 AM

To: Christian Hoelzli <choelzli@rouxinc.com>; Omar Ramotar <oramotar@rouxinc.com>; Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Jessica Taylor <jtaylor@rouxinc.com>; Jasper Wu <jasper@zdjasper.com>
Subject: Re: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Hi Christian,
Can you send us the mining permit for this facility?

Thanks,

Wendi Zheng
New York State Department of Environmental Conservation
P: (718) 482-7541 | wendi.zheng@dec.ny.gov

From: Christian Hoelzli <choelzli@rouxinc.com>
Sent: Thursday, April 18, 2024 4:54:15 PM
To: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>; Omar Ramotar <oramotar@rouxinc.com>; Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Jessica Taylor <jtaylor@rouxinc.com>; Jasper Wu <jasper@zdjasper.com>
Subject: RE: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Wendi,

To follow up, please the attached Request to Import/Reuse Fill or Soil for ¾" stone scheduled to be imported to the Former Paragon Paint Site (C241108). This material will be utilized to restore the cap in accordance with the plan approved on March 13, 2024.

In summary, less than 10% passes a No. 100 sieve (less than 1% passes a #8 sieve). The stone is virgin from a permitted quarry and is free of contaminants.

Approximately 8 cubic yards of this stone will be imported for this work.

Let us know if you have any questions, thank you.

Christian Hoelzli | Project Engineer
252 W 37th Street 18th Floor, New York, NY 10018
Main: 631.232.2600 | Mobile: 516.589.4604
Email: choelzli@rouxinc.com | Website: www.rouxinc.com

From: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>
Sent: Wednesday, March 13, 2024 11:23 AM
To: Christian Hoelzli <choelzli@rouxinc.com>; Omar Ramotar <oramotar@rouxinc.com>; Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Robert Hendrickson <rhendrickson@quadrumglobal.com>; Jwhite@quadrumglobal.com; Amir Setayesh

<asetayesh@quadrumglobal.com>; Jessica Taylor <jtaylor@rouxinc.com>; Jasper Wu <jasper@zdjasper.com>
Subject: RE: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Hi Christian,
The approached plan submitted on 3/8/24 is acceptable. Please also document this work in the PRR.

Thanks,

Wendi Zheng
New York State Department of Environmental Conservation
P: (718) 482-7541 | wendi.zheng@dec.ny.gov

From: Christian Hoelzli <choelzli@rouxinc.com>
Sent: Friday, March 8, 2024 4:16 PM
To: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>; Omar Ramotar <oramotar@rouxinc.com>; Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Robert Hendrickson <rhendrickson@quadrumglobal.com>; Jwhite@quadrumglobal.com; Amir Setayesh <asetayesh@quadrumglobal.com>; Jessica Taylor <jtaylor@rouxinc.com>; Jasper Wu <jasper@zdjasper.com>
Subject: RE: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Wendi,

As requested, please see attached photo of the trench excavation with tape measure and tabulated lab results. As shown in the photo, the depth of the trench was measured to be 33 inches, confirming the excavation is below the RCA cap. The soil was screened with a PID and read 0.0 ppm, a photo of this reading is also attached. As shown in the tables, the soil results yielded exceedances of RRSCOs in metals.

Because the RCA cover material appears to be mixed with the native soil, Roux proposes the following actions for DEC approval:

- Backfill trench with RCA/soil pile mixture
- Roux to prepare a Request to Import/Reuse Fill or Soil for imported clean fill material
- Import DEC-approved fill material
- Add a new cover on top of the backfilled trench comprised of this clean fill material. This new cover will be 2' thick and extend a minimum of 2' beyond the extents of the disturbance
    - Roux to perform oversight and air monitoring in accordance with the Site's CAMP during cover restoration work
    - CAMP and Daily progress reports with photos to be generated for the duration of the work

Please let us know if you have any objections or would like to discuss. Thanks,
Christian

Christian Hoelzli | Project Engineer
252 W 37th Street 18th Floor, New York, NY 10018

Main: 631.232.2600 | Mobile: 516.589.4604
Email: choelzli@rouxinc.com | Website: www.rouxinc.com

From: Christian Hoelzli
Sent: Monday, February 26, 2024 1:20 PM
To: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>; Omar Ramotar <oramotar@rouxinc.com>; Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Robert Hendrickson <rhendrickson@quadrumglobal.com>; Jwhite@quadrumglobal.com; Amir Setayesh <asetayesh@quadrumglobal.com>; Jessica Taylor <jtaylor@rouxinc.com>; Jasper Wu <jasper@zdjasper.com>
Subject: RE: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Ok understood, thanks. We did not have the bottleware for QC today so we will collect the sample tomorrow instead, standard TAT.

Christian Hoelzli | Project Engineer
252 W 37th Street 18th Floor, New York, NY 10018
Main: 631.232.2600 | Mobile: 516.589.4604
Email: choelzli@rouxinc.com | Website: www.rouxinc.com

From: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>
Sent: Monday, February 26, 2024 11:45 AM
To: Christian Hoelzli <choelzli@rouxinc.com>; Omar Ramotar <oramotar@rouxinc.com>; Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Robert Hendrickson <rhendrickson@quadrumglobal.com>; Jwhite@quadrumglobal.com; Amir Setayesh <asetayesh@quadrumglobal.com>; Jessica Taylor <jtaylor@rouxinc.com>
Subject: RE: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Hi Christian,
The soil sampling analysis is acceptable however, QC samples are required.

Thanks,

Wendi Zheng
New York State Department of Environmental Conservation
P: (718) 482-7541 | wendi.zheng@dec.ny.gov

From: Christian Hoelzli <choelzli@rouxinc.com>
Sent: Friday, February 23, 2024 2:04 PM
To: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>; Omar Ramotar <oramotar@rouxinc.com>; Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Robert Hendrickson <rhendrickson@quadrumglobal.com>; Jwhite@quadrumglobal.com; Amir Setayesh <asetayesh@quadrumglobal.com>; Jessica Taylor <jtaylor@rouxinc.com>
Subject: RE: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Wendi,

Understood, Roux plans to be onsite Monday at 10AM to measure exact depth, including photo of tape measure, and collection of a soil sample.

Confirming the below analyses are appropriate to run the sample, assuming the soil qualifies for re-use at this time:

- One Discrete Sample:
  - VOCs + TICs (8260)
- One Composite Sample:
  - SVOCs + TICs (8270)
  - Pesticides (8081)
  - PCBs (8081)
  - TAL Metals (3050B)
  - Mercury (7470)
  - Total Cyanide
  - Hexavalent Chromium (7196A)
  - Trivalent Chromium

We would also like to confirm that no QC samples are necessary given the nature of this event.

Thanks,
Christian

Christian Hoelzli | Project Engineer
252 W 37th Street 18th Floor, New York, NY 10018
Main: 631.232.2600 | Mobile: 516.589.4604
Email: choelzli@rouxinc.com | Website: www.rouxinc.com

From: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>
Sent: Thursday, February 22, 2024 10:33 AM
To: Omar Ramotar <oramotar@rouxinc.com>; Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Robert Hendrickson <rhendrickson@quadrumglobal.com>; Jwhite@quadrumglobal.com; Amir Setayesh <asetayesh@quadrumglobal.com>; Christian Hoelzli <choelzli@rouxinc.com>; Jessica Taylor <jtaylor@rouxinc.com>
Subject: RE: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Omar,
Thank you for the update. Please be advised that any intrusive activities outlined in the SMP must be conducted under the oversight of the PE of record and/or his field representatives for any future work. Please also notify the Department with a 15-day notification before commencing any intrusive work.

With regard to the documentation provided, the photos appears to show a) an excavation that is deeper than 2 feet and b) evidence of soil disturbance - the soil pile on the left appears to be a mixture of RCA cover material with native soil on top. The NYSDEC requires the following immediately - sampling of the soil in the in the RCA/soil pile mixture to confirm that the demo contractor did not spread soil contamination or mix soil

contamination from below the site cover onto the site cover. Please also provide photo documentation showing the exact depth of the excavation that was performed with a tape measure.

Thank you,

Wendi Zheng
New York State Department of Environmental Conservation
P: (718) 482-7541 | wendi.zheng@dec.ny.gov

From: Omar Ramotar <oramotar@rouxinc.com>
Sent: Wednesday, February 21, 2024 12:31 PM
To: Zheng, Wendi Y (DEC) <Wendi.Zheng@dec.ny.gov>; Obligado, Andre A (DEC) <andre.obligado@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: Robert Hendrickson <rhendrickson@quadrumglobal.com>; Jwhite@quadrumglobal.com; Amir Setayesh <asetayesh@quadrumglobal.com>; Christian Hoelzli <choelzli@rouxinc.com>; Jessica Taylor <jtaylor@rouxinc.com>
Subject: Former Paragon Paint Site (C241108): Notification of Cover System Disturbance in Accordance with Site-Specific SMP

Wendi, Andre and Jane,

As requested and in accordance with the Site-specific Site Management Plan, we are sending you this e-mail with regards to onsite work that was recently performed that disturbed the existing cover system. As you noted, this work was performed without a 15-day notice being issued and without Roux being present onsite.

As we briefly discussed, the open excavation was observed by Roux while conducting our scheduled quarterly groundwater monitoring event on February 20, 2024. Please see photos attached.

Once Roux confirmed that the existing cover system was disturbed, Roux immediately reached out to the current owner (Quadrum) and future owner (ZDJ Vernon LLC [ZDJ]) on February 20, 2024 to discuss and review what had occurred onsite. Based on the information that was conveyed during these preliminary calls, we wanted to let you know what we know to date. The cover system was disturbed by ZDJ's Demolition Contractor; however, the underlying impacted soil was not disturbed. That said, the location of this excavation is inside the garage adjacent to the warehouse and marked off with caution tape. The building is unoccupied and the cover system in this location is comprised of 2' of clean fill. To reiterate, that was the only material that was excavated and stockpiled. In addition to the cover system being disturbed, the concrete pad and flushmount manholes for monitoring wells MW-40 and MW-41 were also removed incidentally as part of the work, but the wells themselves remain intact. As shown in the photos, the wells are now covered with buckets and the clean fill material is stockpiled in the vicinity.

ZDJ informed us that this work was conducted by their Demolition Contractor to locate a utility line. Unfortunately, the Demolition Contractor had not conveyed to ZDJ that any intrusive work would be performed as part of this utility location work. In any case, no further action is planned until a follow-up discussion occurs with the NYSDEC and next steps are confirmed. On a parallel track, we have to confirm what work remains, if any, beyond filling in the trench with clean cover material. That said and for your initial reference, Roux would be present for any future work that occurs. It is also important to note that Roux will be setting up a conference call with ZDJ's Demolition Contractor to review SMP requirements before any future work is performed onsite.

As always, if you have any follow-up questions or concerns on what has been conveyed herein, please don't hesitate to call or email.

Kind Regards,
Omar

Omar Ramotar, P.E. – NJ, NY, AZ, NV | Principal Engineer
300 Atrium Drive, Suite 403, Somerset, New Jersey 08873
Main: 732-584-6500 | Direct: 732-584-6529| Cell: 631-553-9274
Email: oramotar@rouxinc.com | Website: www.rouxinc.com

ROUX

California | Illinois | Massachusetts | New Jersey | New York | Texas | Virginia

Please consider the environment before printing this email.

Hunters Point Recycling
29-55 Hunters Point Avenue
Long Island City NY, 11101
Phone: (718) 784-2181
Fax: (718) 784-2610

Billing Address:
213-19 99th Ave.
Queens Village, NY 11429
Phone: 718-776-2027
Fax: 718-465-5100

Ticket #: 262321
Date: 04/19/2024 8:22 AM

Customer: BROOKSIDE
BROOKSIDE ENVIROMENTAL
22 OCEAN AVE
COPIAGUE NY, 11726

Order Number: 556
JACKSON AVE
Tons: 0.000
Loads: 17

BROOKSIDE1 - 61428mg
USER - KARINA
Remarks: Thanks 5-99 46TH AVE

Signature:

Material	Quantity	Price	Material $	Delivery $	Misc $	Tax $	Line Total $
#57 VIRGIN STONE	9.000 YD						

APPENDIX K

Cap Restoration CAMP and Daily Reports

Roux Environmental Engineering and Geology, D.P.C.
Community Air Monitoring Program - Dust

Project: Former Paragon Paint and Varnish Site
PM: Christian Hoelzli
Location: 5-49 46th Avenue, Long Island City, NY
Date: 4/19/2024

Upwind Serial Number: 8530162311
Downwind Serial Number: 8530163508

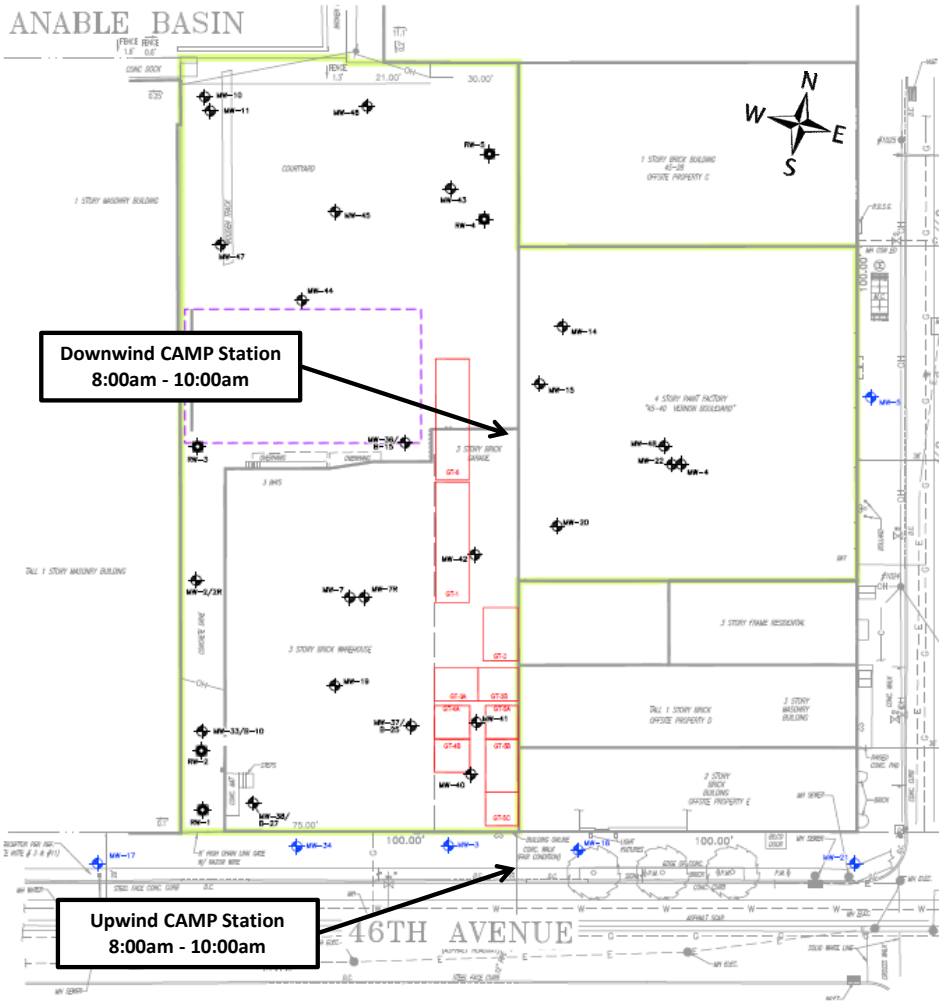
Upwind		Downwind		Corrected Downwind	Comments
Time	Concentration [mg/m3]	Time	Concentration [mg/m3]	Concentration [mg/m3]	
7:52:37 AM	0.014	7:52:37 AM	0.010	-0.004	
8:07:37 AM	0.009	8:07:37 AM	0.010	0.001	
8:22:37 AM	0.011	8:22:37 AM	0.011	0.000	
8:37:37 AM	0.014	8:37:37 AM	0.011	-0.003	
8:52:37 AM	0.010	8:52:37 AM	0.011	0.001	
9:07:37 AM	0.010	9:07:37 AM	0.010	0.000	
9:22:37 AM	0.010	9:22:37 AM	0.009	-0.001	
9:37:37 AM	0.010	9:37:37 AM	0.009	-0.001	
9:52:37 AM	0.011	9:52:37 AM	0.010	-0.001	
8:26:37 AM	0.012	8:26:37 AM	0.000	-0.012	

Roux Environmental Engineering and Geology, D.P.C
Community Air Monitoring Program - VOC

Project: Former Paragon Paint and Varnish Site
PM: Christian Hoelzli
Location: 5-49 46th Avenue, Long Island City, NY
Date: 4/19/2024

Upwind Serial Number: 592-603362
Downwind Serial Number: 592-920576

Upwind		Downwind		Corrected Downwind	Comments
Time	Concentration [ppm]	Time	Concentration [mg/m3]	Concentration [mg/m3]	
8:14:13 AM	0.0	8:12:14 AM	0.0	0.0	
8:29:13 AM	0.2	8:27:14 AM	0.0	-0.2	
8:44:13 AM	0.2	8:42:14 AM	0.0	-0.2	
8:59:13 AM	0.2	8:57:14 AM	0.0	-0.2	
9:14:13 AM	0.4	9:12:14 AM	0.0	-0.4	
9:29:13 AM	0.5	9:27:14 AM	0.0	-0.5	
9:44:13 AM	0.2	9:42:14 AM	0.0	-0.2	
9:59:13 AM	0.2	9:57:14 AM	0.0	-0.2	



4/19/2024

Former Paragon Paint and Varnish - CAMP

MEAN WIND DIRECTION
East at 7.6 mph

ROUX

DAILY PROGRESS REPORT

PROJECT NO.:	4536.0001Y000	**CLIENT:**	**DATE:**	April 19, 2024
PROJECT:	Former Paragon Paint and Varnish Site NYSDEC BCP Site No. C241108	ZDJ Vernon LLC	**WEATHER:**	47-50°F, Cloudy, RH: 66%, P: 30.10 inHg, Wind: East @ 7.6 mph
LOCATION:	5-49 46th Avenue, Long Island City, New York		**TIME:**	07:00 – 13:30

Project Team

Environmental Consultant/Engineer of Record: • Omar Ramotar, Roux Principal Engineer • Jessica Taylor, Roux Principal Hydrogeologist • Christian Hoelzli, Roux Project Manager • Josue Criollo, Roux Field Manager	Safety Officer: • Christian Hoelzli, Roux

Personnel Present On-Site and Affiliation:
• Christian Hoelzli & Josue Criollo, Roux
• Mike & Brian Graham, Brookside Environmental
• Andrew Capuano, Hernesto Santiago & Tayler H., Eastern Environmental Solutions, Inc.
	Contractors On-Site and Equipment:
	• Brookside Environmental (Brookside):
	  ○ Mini excavator CAT 304CR
	  ○ Triaxle dump truck
	• Eastern Environmental Solutions (Eastern):
	  ○ Two 225-gal water tanks
	  ○ Generator
	  ○ Hand-held mixer

OBSERVATIONS, DISCUSSIONS, ETC

Roux Environmental Engineering and Geology, D.P.C. (Roux) was on-site to conduct CAMP and to oversee well abandonment activities in accordance with NYSDEC policy CP-43, and to oversee Cover System Disturbance in accordance with the Site-specific Site Management Plan (SMP).

GENERAL COMMENTS:

Contractor Work Performed On-Site:

- Brookside backfilled a trench within the southern portion of the building using the previously excavated material and newly imported stone.
- Eastern performed well abandonment activities by grouting the following:
  - All 16 ISCO injection points within the basement of the warehouse;
  - Recovery wells RW-1 through 5;
  - Monitoring wells MW-2/2R, MW-7, MW-7R, MW-10, MW-11, MW-19, MW-33, MW-37, MW-38, MW-43, MW-45, MW-46, and MW-47.

Roux Conducted Work Performed On-Site (if applicable):

- Conducted CAMP and monitored soil/material movement activities.
- Conducted oversight of well abandonment throughout the site.

Material Imported/Exported:

- Imported 9 cubic yards of NYSDEC-approved ASTM#57 virgin stone to be used as backfill material.

Approved By:	**Christian Hoelzli**	Prepared By:	**Josue Criollo**

DAILY PROGRESS REPORT

PROJECT NO.:	4536.0001Y000	**CLIENT:**	**DATE:**	April 19, 2024
PROJECT:	Former Paragon Paint and Varnish Site NYSDEC BCP Site No. C241108	ZDJ Vernon LLC	**WEATHER:**	47-50°F, Cloudy, RH: 66%, P: 30.10 inHg, Wind: East @ 7.6 mph
LOCATION:	5-49 46th Avenue, Long Island City, New York		**TIME:**	07:00 – 13:30

Air Monitoring:

- CAMP was implemented from 8:00am to 10:00am during soil intrusive activities. Because the activity was performed indoors, the downwind CAMP station was positioned towards the end of the corridor and the upwind CAMP station was positioned on the sidewalk outside the Site entrance.
- There were no exceedances for dust and/or volatile organic compounds (VOCs). The maximum corrected downwind concentration for dust was 0.001 milligrams per cubic meter (mg/m^3). The maximum corrected downwind concentration for VOCs was 0.0 parts per million (ppm).

Samples Collected:

- None.

Other Relevant Comments or Problems Encountered:

- None.

Health and Safety:

- Level D PPE was worn on-Site.

Anticipated Work Activities for the Next Day/ Week:

- Eastern will continue well abandonment activities throughout the site.
- Geotechnical drilling throughout the Site is scheduled to begin Monday, April 22nd.

Approved By:	**Christian Hoelzli**	Prepared By:	**Josue Criollo**

ROUX

DAILY PROGRESS REPORT

PROJECT NO.:	4536.0001Y000	**CLIENT:**	**DATE:**	April 19, 2024
PROJECT:	Former Paragon Paint and Varnish Site NYSDEC BCP Site No. C241108	ZDJ Vernon LLC	**WEATHER:**	47-50°F, Cloudy, RH: 66%, P: 30.10 inHg, Wind: East @ 7.6 mph
LOCATION:	5-49 46th Avenue, Long Island City, New York		**TIME:**	07:00 – 13:30

PHOTOGRAPHS TAKEN TODAY:

Photo 1:
Facing south-southeast, view of Brookside backfilling the previously excavated trench within the southern portion of the building.

Photo 2:
Facing north, view of brookside covering the top of the previously excavated trench with the newly imported stone.

Approved By:	**Christian Hoelzli**	Prepared By:	**Josue Criollo**

ROUX

DAILY PROGRESS REPORT

PROJECT NO.:	4536.0001Y000	**CLIENT:**	**DATE:**	April 19, 2024
PROJECT:	Former Paragon Paint and Varnish Site NYSDEC BCP Site No. C241108	ZDJ Vernon LLC	**WEATHER:**	47-50°F, Cloudy, RH: 66%, P: 30.10 inHg, Wind: East @ 7.6 mph
LOCATION:	5-49 46th Avenue, Long Island City, New York		**TIME:**	07:00 – 13:30

	**Photo 3:** Facing east, measurement of minimum 2 feet of NYSDEC-approved backfill material covering area of disturbance.
	**Photo 4:** Facing northwest, view of the upwind CAMP station located southeast of the backfilling area.

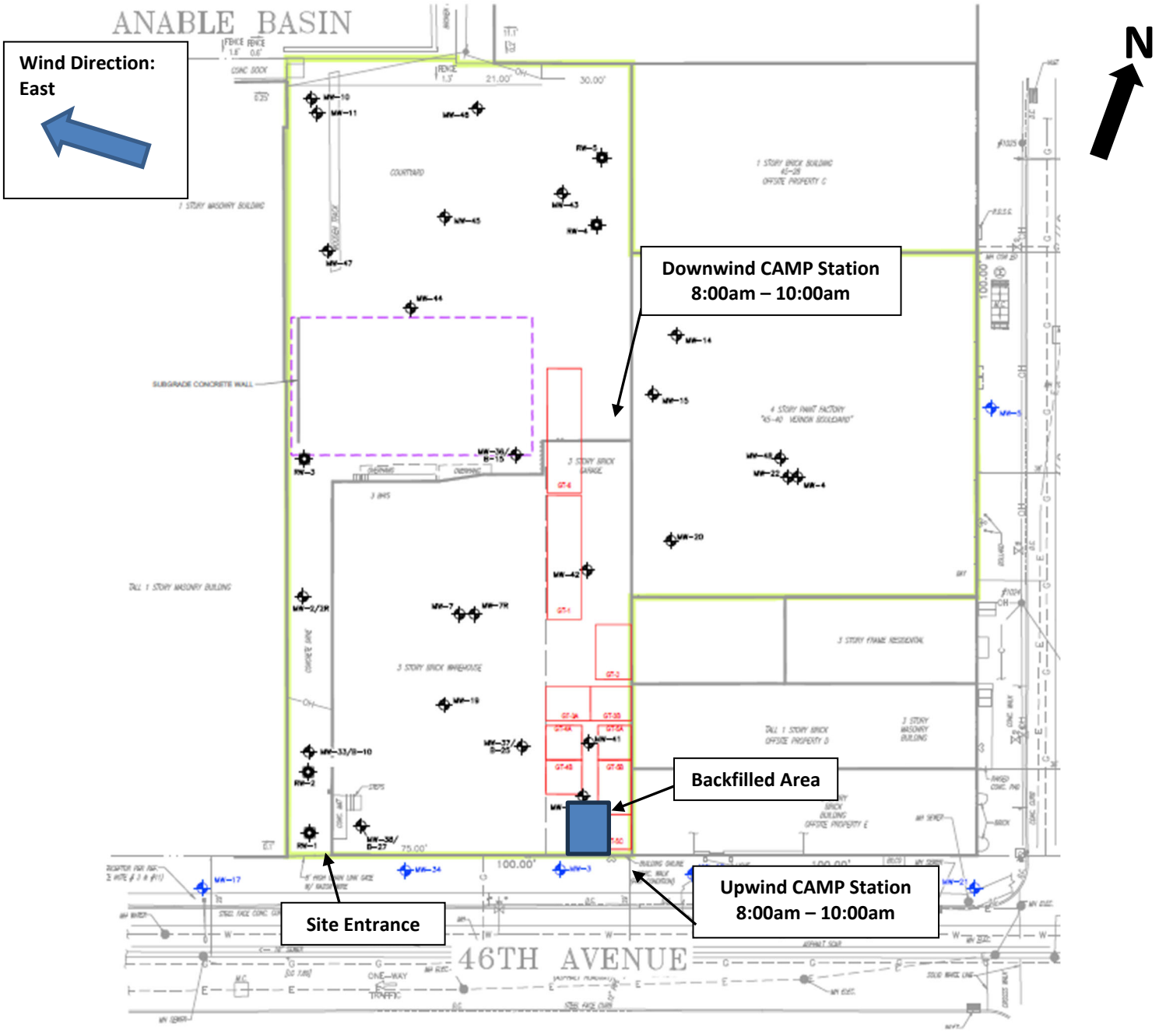
Approved By:	**Christian Hoelzli**	Prepared By:	**Josue Criollo**

ROUX

DAILY PROGRESS REPORT

PROJECT NO.:	4536.0001Y000	**CLIENT:**	**DATE:**	April 19, 2024
PROJECT:	Former Paragon Paint and Varnish Site NYSDEC BCP Site No. C241108	ZDJ Vernon LLC	**WEATHER:**	47-50°F, Cloudy, RH: 66%, P: 30.10 inHg, Wind: East @ 7.6 mph
LOCATION:	5-49 46th Avenue, Long Island City, New York		**TIME:**	07:00 – 13:30

Site Layout



Approved By:	**Christian Hoelzli**	Prepared By:	**Josue Criollo**