



Periodic Review Report

Coral Island Shopping Center
1650 Richmond Avenue
Staten Island, New York
NYSDEC BCP Number: C243033

April 29, 2025

Prepared for:

WWP Associates LLP
6616 Six Forks Road
Raleigh, North Carolina 27615

Prepared by:

**Roux Environmental Engineering
and Geology, D.P.C.**
209 Shafter Street
Islandia, New York 11749

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Certification

For each institutional or engineering control identified for the site, I, David Kaiser, P.E., certify that all of the following statements are true:

- a) the institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by DER;
- b) nothing has occurred that would impair the ability of such control to protect public health and the environment;
- c) nothing has occurred that would constitute a violation or failure to comply with any Site Management Plan for this control; and
- d) access to the site will continue to be provided to DER to evaluate the remedy, including access to evaluate the continued maintenance of this control.

David E. Kaiser, P.E.
NYS Professional Engineer # 097317

April 29, 2025
Date


David E. Kaiser
Signature

1. Introduction

This Periodic Review Report (“PRR”) documents post-remediation activities performed at the Coral Island Shopping Center located at 1650 Richmond Avenue, Staten Island, Richmond County, New York (hereafter referred to as the “Site” or “Controlled Property,” Figure 1). The Site is managed under the New York State (“NYS”) Brownfield Cleanup Program (“BCP”) administered by New York State Department of Environmental Conservation (“NYSDEC”) and was remediated in accordance with the Brownfield Cleanup Agreement (“BCA”) Index #W2-1040-05-01, Site #C243033, which was issued March 2005.

The Site contains residual contamination left after completion of the Remedial Action performed under the BCP. Engineering Controls (“ECs”) have been incorporated into the Site remedy to provide proper management of residual contamination in the future to ensure protection of public health and the environment. A Site-specific Environmental Easement has been recorded with the Richmond County Clerk that provides an enforceable means to ensure the continued and proper management of residual contamination and protection of public health and the environment.

Site Management activities, reporting, and EC/IC certification are scheduled on a certification period basis. The certification period for this PRR is April 1, 2024 to April 1, 2025.

2. Site Overview

This section includes a brief description of the Site and its history. A complete description of the Site's history, Remedial Investigation findings, and Remedial Action is presented in the following documents:

- *Remedial Investigation Work Plan*, April 18, 2005; Roux Associates, Inc.
- *Remedial Investigation Report*, February 23, 2007; Roux Associates, Inc.
- *Alternatives Analysis Report/ Remedial Action Work Plan*, August 16, 2007; Remedial Engineering, P.C.
- *Final Engineering Report*, February 2008; Remedial Engineering, P.C.

2.1 Site Description

The Coral Island Shopping Center (the "Site") is defined, for the purposes of the BCP, as the area within the limits of the property boundary as shown on Figure 2. The Site is located at 1650 Richmond Avenue, Staten Island, Richmond County, New York (Figure 1). The Site is defined as Block 2236, Lot 125, at latitude 40° 36' 27" north and longitude 74° 9' 47" west. The Coral Island Shopping Center consists of two single-story buildings, each with multiple tenants and a parking lot (Figure 2). The building at the north end of the Site includes the Charming Cleaners ("Dry Cleaner"), the focus of the remediation. The areas of contamination exceeding unrestricted use soil cleanup objectives ("SCO") are located under the parking lot, behind the southern building, and behind the Dry Cleaner. The area behind the Dry Cleaner is gravel-covered (over landscaping fabric) and is approximately 15 feet wide, with the building to the south and a chain link fence on the property line to the north.

2.2 Site History

The Site was a residential property as early as 1917; however, the property was vacant between 1937 and 1949, when it was reportedly used as a parking lot. A bowling alley was constructed on the northern portion of the Site sometime between 1955 and 1958. In 1974, the bowling alley was converted into a strip mall-type shopping center. The building was expanded to its current configuration and a separate building was constructed in the southern portion of the Site in 1995 (Figure 2).

Dry cleaning operations reportedly commenced at the Site in 1975. All dry-cleaning operations were performed in the same tenant space since 1975, and no other occupants of any building at the Site that would potentially use PCEs were identified.

2.3 Site Remediation Goals

As stated in the Final Engineering Report, the overall goals of the remedial action were to:

1. Obtain mass reductions of VOCs in on-Site groundwater;
2. Mitigate off-Site impacts to NYSDEC Water Quality Standards for Class GA groundwater, to the extent practicable;
3. Prevent ingestion/direct contact with contaminated soil;
4. Prevent migration of contaminants that would result in groundwater or surface water contamination;
5. Prevent impacts to biota due to ingestion/direct contact with contaminated soil that would cause toxicity or bioaccumulation through the terrestrial food chain; and

6. Prevent inhalation of or exposure to contaminants volatilizing from contaminated soil or groundwater.

2.4 Site Remedial History

Below is a description of the Remedial Action as described in the NYSDEC-approved Remedial Action Work Plan, Final Engineering Report, and October 15, 2020 Summary of Molasses Injection.

1. On-Site soils impacted with tetrachloroethene (“PCE”) and degradation products were excavated from four areas and disposed of off-Site. At each area, the upper two to five feet of fill was excavated. Post-excavation samples were collected and additional excavation was conducted until Restricted Commercial Use Soil Cleanup Objectives (“SCOs”) were met or to the extent feasible based on the water table and lateral limitations of underground utilities, building foundations, and a nearby transformer. Excavations were backfilled with clean soil that meets 6 NYCRR Subpart 375-6 Track 1 Unrestricted Use SCOs.
2. Off-Site soils impacted with PCE and degradation products were excavated from one area and disposed of off-Site. Initially, the upper five feet of soil was excavated. Post-excavation samples were collected and additional excavation was conducted until Unrestricted Use SCOs were met. Excavations were backfilled with clean soil that meets 6 NYCRR Subpart 375-6 Track 1 Unrestricted Use SCOs.
3. Prior to backfilling, Enhanced Reductive Dechlorination (“ERD”) substrates were applied to the bottom of the open on-Site and off-Site excavations created during the removal of impacted soils.
4. One round of off-Site ERD injections was conducted in the area of the leading edge of groundwater contamination with 10,000 micrograms per liter of total VOCs. The ERD substrate was injected every five feet as a row of injections. The depth of ERD injection was extended from approximately 4 feet to 8 feet below land surface into the groundwater (depth to groundwater is approximately 4 feet below land surface).
5. One round of ERD injections was conducted in an area surrounding monitoring well MW-101S in September 2020.
6. To assess the performance of the ERD injections, periodic groundwater monitoring was conducted.

2.5 Engineering and Institutional Controls

Since contaminated soil, groundwater, and soil vapor remain beneath the Site, Engineering Controls (“ECs”) and Institutional Controls (“ICs”) are required to protect human health and the environment.

The Controlled Property has two primary Engineering Controls, as follows:

- Composite Cover System; and
- Monitored Enhanced Natural Attenuation.

A series of Institutional Controls are in place to implement, maintain, and monitor the Engineering Controls. An Environmental Easement is in place and requires compliance with these Institutional Controls. These Institutional Controls consist of the following:

- All Engineering Controls must be operated and maintained as specified in the Site Management Plan (“SMP”).
- All Engineering Controls must be inspected and certified at a frequency and in a manner defined in the SMP.
- Groundwater, soil vapor, and other environmental or public health monitoring must be performed as defined in the SMP.

- Data and information pertinent to Site Management for the Controlled Property must be reported at the frequency and in a manner defined in the SMP.
- On-Site environmental monitoring devices, including, but not limited to, groundwater monitoring wells and soil vapor probes, must be protected and replaced as necessary to ensure continued functioning in the manner specified in the SMP.
- Compliance with the Environmental Easement by the Grantor and the Grantor's successors and assigns with all elements of the SMP.
- Engineering Controls may not be discontinued without an amendment or the extinguishment of this Environmental Easement.
- The Controlled Property may be used for commercial use, as described within 6 NYCRR Part 375-1.8(g)(2)(iii), as long as the long-term Engineering Controls are employed and the land use restrictions are adhered to.
- Use of groundwater underlying the Controlled Property is prohibited without treatment rendering it safe for the intended use.

3. Remedy Performance and Effectiveness

This section details the Monitoring Plan activities currently implemented to evaluate the performance and effectiveness of the ECs in reducing or mitigating contamination at the Site.

3.1 Monitoring Plan Requirements

The table below outlines the Monitoring Plan components, as detailed in the SMP, which was revised in accordance with a July 26, 2022 letter from NYSDEC. Groundwater monitoring beginning in 2022 was modified as described in Section 3.1.2.

| Monitoring Program | Frequency | Matrix | Analysis |
|------------------------|---------------|-------------|----------|
| Composite Cover System | Annually | — | None |
| Groundwater | Five Quarters | Groundwater | VOCs |

3.1.1 Composite Cover System Monitoring

Several covers exist on the Site that include landscaped areas, gravel-covered landscaped areas, asphalt, and building foundations. These covers limit exposure to residual contaminated soil/fill. The composite cover system is a permanent control and the existence, quality, and integrity of this system will be inspected annually.

The composite cover system was monitored on April 30, 2024, during groundwater monitoring and on April 3, 2025, during a Site inspection in accordance with the inspection schedule presented above, respectively.

3.1.2 Groundwater Remediation and Monitoring

Groundwater monitoring was conducted in 2024 in accordance with a July 5, 2022 recommendation by Roux, which was approved by the NYSDEC on July 26, 2022. Spring 2024 groundwater monitoring occurred on April 30, 2024 and included analysis of volatile organic compounds from monitoring well MW-101S.

3.1.3 Groundwater Monitoring Well Maintenance

If biofouling or silt accumulation has occurred in the on-Site and/or off-Site monitoring wells, as determined by significant changes in well production or depth to bottom measurements, the wells will be physically agitated/surged and redeveloped. Additionally, monitoring wells may be properly decommissioned and replaced if an event renders the wells unusable.

3.2. Monitoring Plan Results

The following sections describe the results of the Monitoring Program for the certification period.

3.2.1 Composite Cover System Monitoring Results

The composite cover system was monitored on April 30, 2024 and April 3, 2025. Site Inspection Checklists are included as Appendix A. No issues were identified and all landscaped areas, gravel-covered landscaped areas, asphalt parking areas, and building foundations appeared to be in good condition.

3.2.2 Groundwater Monitoring Results

Groundwater sampling was conducted on April 30, 2024. A May 30, 2024 letter report summarizing this sampling event is included as Appendix B. Tetrachloroethene and its degradation byproducts (trichloroethene, cis-1,2-dichloroethene, and vinyl chloride), which are the constituents of concern (“COCs”) at the Site, were detected in groundwater at MW-101S. The concentration of total COCs was less than 300 micrograms per liter, and individually only cis-1,2-dichloroethene and vinyl chloride exceeded their respective groundwater standards (Appendix B). These concentrations are less than other recent sampling events. Based on the data collected, Roux requested termination of long-term groundwater performance monitoring at the Site. NYSDEC responded with a February 5, 2025 letter requesting one more round of groundwater sampling and a soil vapor intrusion investigation to support a change in the SMP with termination of groundwater monitoring.

3.3 IC/EC Certification

Institutional and engineering controls (IC/ECs) established for the Site in accordance with the SMP include a composite cover system and an environmental easement. The cover system includes landscaped areas, gravel-covered landscaped areas, asphalt, and building foundations. These covers are currently in place and protective of public health and the environment. An IC/EC Certification Form for the controls that are currently in place is included as Appendix C.

The following information is presented as an Electronic Database in Appendix D in an electronic database format:

- a Site summary;
- the name of the current Site owner and/or the remedial party implementing the SMP for the Site;
- the location of the Site;
- the current status of Site remedial activity;
- a copy of the Environmental Easement; and
- a contact name and phone number of a person knowledgeable about the Environmental Easement’s requirements, in order for NYSDEC to obtain additional information, as necessary.

4. Conclusions

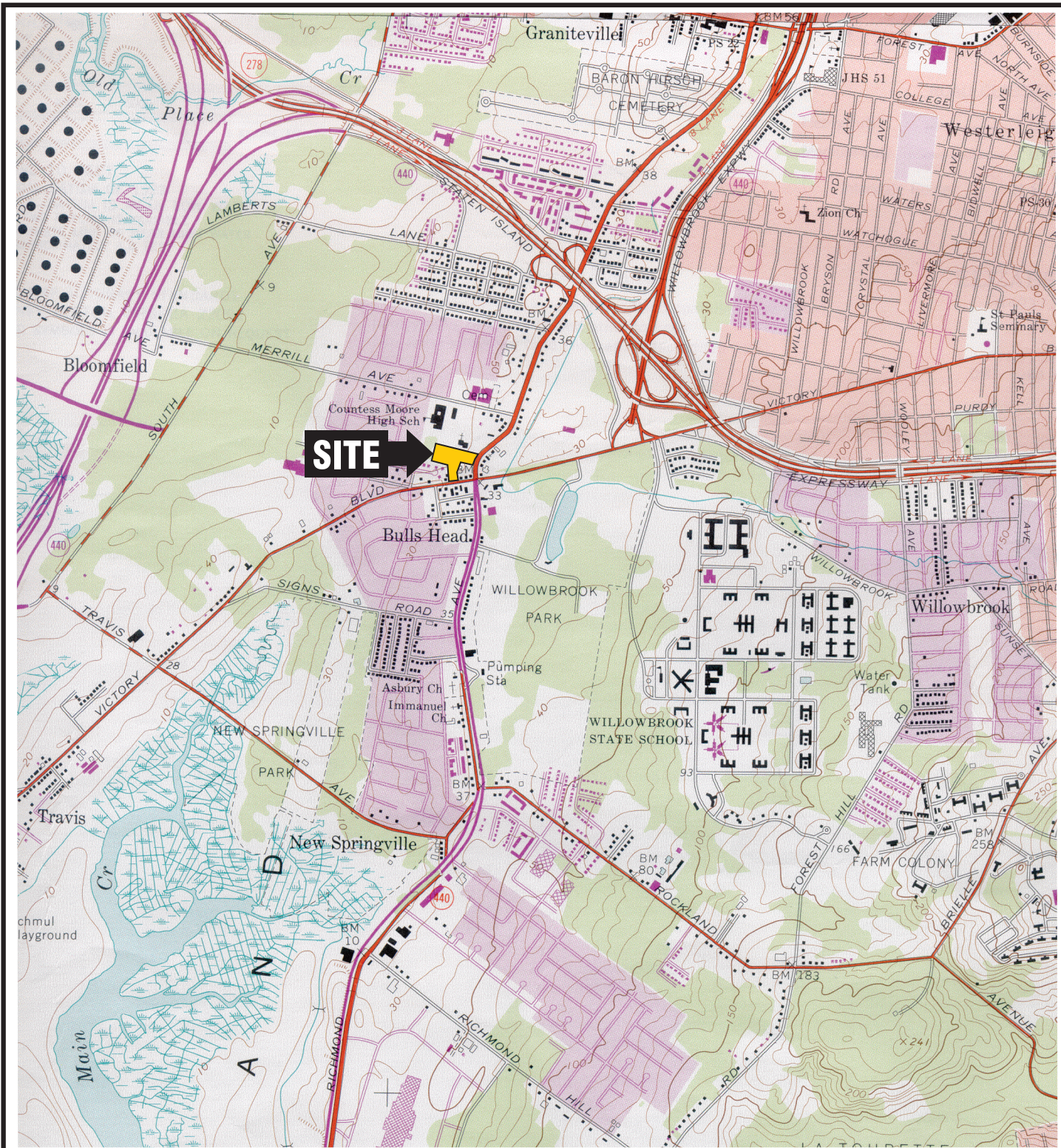
The following sections present conclusions from inspections and monitoring activities and recommendations.

4.1 Conclusions

1. Landscaped areas, gravel-covered landscaped areas, asphalt parking lots, and building foundations appeared to be in good condition and are performing as designed.
2. Analytical results of the Spring 2024 groundwater sampling reported concentrations of constituents of concern that are less than other recent sampling events.
3. Based on a request from the NYSDEC, and to support termination of groundwater monitoring, Roux will continue groundwater monitoring by sampling MS-101S for VOCs once every five quarters, which would make the next sampling event Summer 2025.
4. Based on a request from the NYSDEC, and to support termination of groundwater monitoring, Roux will prepare a soil vapor intrusion sampling work plan.
5. An Environmental Easement is in place and requires compliance with Institutional Controls.

FIGURES

1. Site Location Map
2. Site Plan



QUADRANGLE LOCATION



SOURCE:
USGS; 1981. Arthur Kill, N.Y.-N.J.
7.5 Minute Topographic Quadrangle







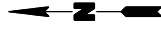
| | | | |
|----------------------------|------------------------|---|----------|
| Title: | | SITE LOCATION MAP | |
| | | CORAL ISLAND SHOPPING CENTER STATEN ISLAND, NEW YORK | |
| Prepared for: | | WWP ASSOCIATES, LLP | |
| Compiled by: M.R. | Date: 17APR24 | ROUX | |
| Prepared by: B.H.C. | Scale: AS SHOWN | | |
| Project Mgr: M.R. | Project: 1258.0001Y004 | | |
| File: 1258.0001Y204.01.CDR | | FIGURE | 1 |

1258Y.0001Y204.01.CDR



LEGEND

-  MW-201
LOCATION AND DESIGNATION OF MONITORING WELL
-  SITE BOUNDARY
-  APPROXIMATE LOCATION OF INTERIOR SPACE
-  DRY CLEANER



SITE PLAN

CORAL ISLAND SHOPPING CENTER
STATEN ISLAND, NEW YORK

Prepared for:
WWP ASSOCIATES

| | | |
|---------------------|-------------------------------|--------|
| Compiled by: M.R. | Date: 1/24/2024 | FIGURE |
| Prepared by: B.H.C. | Scale: AS SHOWN | 2 |
| Project Mgr: M.F. | Project: 1258.00011204.02.DWG | |



APPENDICES

- A. Site Inspection Checklists
- B. Groundwater Performance Monitoring
- C. IC/EC Certification Form
- D. Electronic Database

APPENDIX A

Site Inspection Checklists

**ROUX ENVIRONMENTAL
SITE MONITORING AND INSPECTION FORM**

Client: WWP Associates, LLP

Inspector: Michael Roux

Site: Coral Island Shopping Center

Inspection Date: Apr 30, 2024

DEC Site No.: C243033

Roux Project Number: 1258.0001Y004

Location: 1650 Richmond Avenue

Staten Island, New York

Reason for Inspection: Groundwater Sampling

Periodic Annual Emergency *

Other Groundwater Sampling

* - **Periodic** monitoring required following non-annual onsite event

Emergency following natural disaster or an unforeseen cap failure.

Assessment of Compliance with Institutional Controls:

Yes No

- Site Use Changed from Previous Inspection (Commercial)?
- On-Site Engineering Controls Changed from Previous Inspection (Soil Cover)?
- Site Records Available (Available at Rivercrest Realty, 500 Seaview Ave # 235, NY 10305)
- Changes or needed changes to monitoring system.

General Site Condition: The site is generally in good condition, well maintained by property manager.

Inspection of Soil, Gravel, and Grass Cover:

Yes No

- Significant rills or gullies observed?
- Signs of settlement/ subsidence observed?
- Significant animal burrows observed?
- Significant bare spots observed?
- Woody shrubs/ trees observed?
- Other conditions observed?

Inspection of Asphalt Caps:

Yes No

- Significant cracks observed?
- Signs of settlement/ subsidence observed?
- Other conditions observed?

Inspection of Concrete Caps:

Yes No

- Significant cracks observed?
- Signs of settlement/ subsidence observed?
- Other conditions observed?

**ROUX ENVIRONMENTAL
SITE MONITORING AND INSPECTION FORM**

Client: WWP Associates, LLP

Inspector: Michael Roux

Site: Coral Island Shopping Center

Inspection Date: Apr 30, 2024

DEC Site No.: C243033

Roux Project Number: 1258.0001Y004

Location: 1650 Richmond Avenue

Staten Island, New York

Reason for Inspection: Groundwater Sampling

Periodic Annual Emergency

Other Groundwater Sampling

Groundwater Monitoring:

Yes No

Monitoring Wells

- Cover and J-plug intact? Well in good condition?
- Water Elevation Measured?
- Water Quality Parameters Collected?
- Monitoring Well Sampled?

**ROUX ENVIRONMENTAL
SITE MONITORING AND INSPECTION FORM**

Client: WWP Associates, LLP

Inspector: Connor Curley

Site: Coral Island Shopping Center

Inspection Date: Apr 3, 2025

DEC Site No.: C243033

Roux Project Number: 1258.0001Y004

Location: 1650 Richmond Avenue

Staten Island, New York

Reason for Inspection: Annual Inspection

Periodic Annual Emergency *

Other

* - **Periodic** monitoring required following non-annual onsite event

Emergency following natural disaster or an unforeseen cap failure.

Assessment of Compliance with Institutional Controls:

Yes No

- Site Use Changed from Previous Inspection (Commercial)?
- On-Site Engineering Controls Changed from Previous Inspection (Soil Cover)?
- Site Records Available (Available at Rivercrest Realty, 500 Seaview Ave # 235, NY 10305)
- Changes or needed changes to monitoring system.

General Site Condition: The site is generally in good condition, well maintained by property manager.

Inspection of Soil, Gravel, and Grass Cover:

Yes No

- Significant rills or gullies observed?
- Signs of settlement/ subsidence observed?
- Significant animal burrows observed?
- Significant bare spots observed?
- Woody shrubs/ trees observed?
- Other conditions observed?

Inspection of Asphalt Caps:

Yes No

- Significant cracks observed?
- Signs of settlement/ subsidence observed?
- Other conditions observed?

Inspection of Concrete Caps:

Yes No

- Significant cracks observed?
- Signs of settlement/ subsidence observed?
- Other conditions observed?

**ROUX ENVIRONMENTAL
SITE MONITORING AND INSPECTION FORM**

Client: WWP Associates, LLP

Inspector: Connor Curley

Site: Coral Island Shopping Center

Inspection Date: Apr 3, 2025

DEC Site No.: C243033

Roux Project Number: 1258.0001Y004

Location: 1650 Richmond Avenue

Staten Island, New York

Reason for Inspection: Annual Inspection

Periodic Annual Emergency

Other

Groundwater Monitoring:

Yes No

Monitoring Wells

- | | | |
|--------------------------|-------------------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Cover and J-plug intact? Well in good condition? |
| <input type="checkbox"/> | <input type="checkbox"/> | Water Elevation Measured? |
| <input type="checkbox"/> | <input type="checkbox"/> | Water Quality Parameters Collected? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Monitoring Well Sampled? |

**ROUX ENVIRONMENTAL
SITE MONITORING AND INSPECTION FORM**



Photo 1: Victory Blvd entrance and landscaped areas.



Photo 2: Parking lot looking north from far west end.



Photo 3: Richmond Avenue entrance.



Photo 4: Parking lot looking towards Richmond Ave.

**ROUX ENVIRONMENTAL
SITE MONITORING AND INSPECTION FORM**



Photo 5: Gravel area in rear of northern building (east).



Photo 6: Gravel area in rear of northern building (west).

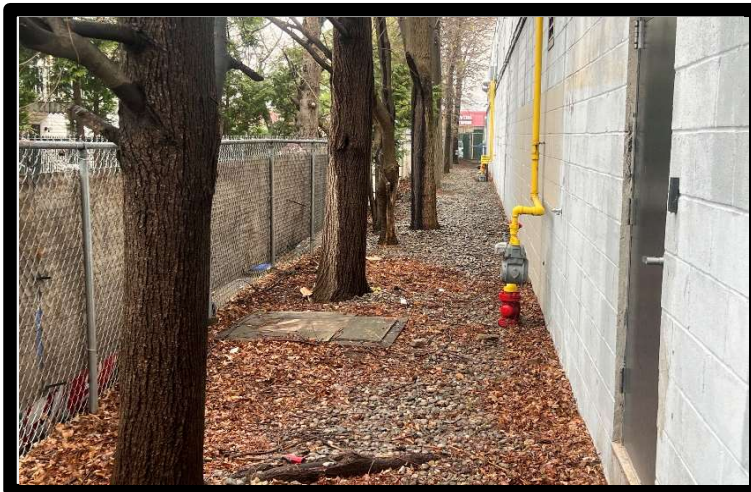


Photo 7: Rear of southern building.



Photo 8: Front of northern building (looking west).

APPENDIX B

Groundwater Performance Monitoring

May 30, 2024

Ms. Madeleine Babick
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
47-40 21st Street
Long Island City, New York 11101-5407

Re: Groundwater Performance Monitoring
Coral Island Shopping Center, Staten Island
Brownfield Cleanup Program Site #C243033

Dear Ms. Babick:

The following summarizes groundwater performance monitoring conducted by Roux Environmental Engineering and Geology, D.P.C. ("Roux") at the Coral Island Shopping Center located at 1650 Richmond Avenue, Staten Island, New York (the "Site"). The sampling was conducted on April 30, 2024 in general accordance with Roux's July 5, 2022 Recommendation for Groundwater Monitoring that was approved by the New York State Department of Environmental Conservation ("NYSDEC") on July 26, 2022.

Scope of Work

In general accordance with Roux's July 5, 2022 recommendation, the following was conducted on April 30, 2024:

- One groundwater sample was collected for analysis of volatile organic compounds from monitoring well MW-101S (Figure 1).

Groundwater Analytical Data

Analytical results from this event are summarized below and in Table 1. Laboratory data is presented in Attachment 1.

Tetrachloroethene and its degradation byproducts (trichloroethene, cis-1,2-dichloroethene, and vinyl chloride), which are the constituents of concern ("COCs") at the Site, were detected in groundwater at MW-101S. At this time, the concentration of total COCs is less than 300 micrograms per liter ("µg/L" or 0.3 parts per million "ppm"), and individually only cis-1,2-dichloroethene and vinyl chloride exceed their respective groundwater standards (Table 1 and Attachment 1). These concentrations are significantly lower than the last five sampling events.

Recommendation

As presented in Roux's July 5, 2022 summary of background information and communications with the NYSDEC, the goal here was for concentrations of total COCs in groundwater following the 2020-remedial action to demonstrate an overall decreasing trend to concentrations less than 1 ppm. The data collected in April 2024 is now the second consecutive round of data showing that decreasing trend since

Ms. Madeleine Babick
May 30, 2024
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May of 2021 and the second consecutive round of data with a total concentration of COCs less than 1 ppm.

Therefore, it is with a great sense of pride, that following multiple rounds of treatment and sampling since 2007, we are able to request termination of long-term groundwater performance monitoring at the Site.

If you have any questions or require additional information, please contact me by email at mroux@rouxinc.com or by telephone at (631) 630-2425.

Sincerely,

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



Michael Roux, P.G.
Principal Hydrogeologist

Attachments

cc: Jane O'Connell, NYSDEC
Cris-Sandra Maycock, NYSDEC
Wendy Marsh, Hancock Estabrook
Brian Morrissey, P.E., Roux

**Groundwater Performance Monitoring
Coral Island Shopping Center, Staten Island**

TABLE

Summary of VOCs Detected in Groundwater

Table 1. Summary of VOCs Detected in Groundwater, Coral Island Shopping Center, Staten Island, New York

| Parameter (Concentrations in µg/L) | CAS # | NYSDEC AWQSGVs (µg/L) | Sample Designation: Sample Date: | MW-101S 4/30/24 | MW-101S 10/11/22 | MW-101S 5/26/21 | MW-101S 11/18/20 | MW-101S 10/22/19 | MW-101S 4/30/19 | MW-101S 10/11/18 | MW-101S 6/5/18 | MW-101S 9/21/17 | MW-101S 5/31/17 | MW-101S 9/28/16 | MW-101S 6/16/16 | MW-101S 9/28/15 | MW-101S 6/5/15 | MW-101S 9/9/14 |
|---------------------------------------|-------------|-----------------------------|-------------------------------------|--------------------|---------------------|--------------------|---------------------|---------------------|--------------------|---------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|
| Acetone | 67-64-1 | 50 | | 10 U | 25 U | 160 | 230 | 20 U | 25 U | 14 | 2.7 J | 20 U | 10 U | 200 U | 50 U | 8.6 | 5 U | 5 U |
| Benzene | 71-43-2 | 1 | | 0.89 J | 2.5 U | 5 U | 2.5 U | 2 U | 2.5 U | 1 U | 0.5 U | 2 U | 1 U | 20 U | 5 U | 0.5 U | 0.5 U | 0.5 U |
| Bromodichloromethane | 75-27-4 | 50 | | 1 U | 2.5 U | 5 U | 2.5 U | 2 U | 2.5 U | 1 U | 2.5 U | 2 U | 1 U | 20 U | 5 U | 1 U | 1 U | 1 U |
| Bromoform | 75-25-2 | 50 | | 4 U | 10 U | 20 U | 10 U | 8 U | 10 U | 4 U | 2 U | 8 U | 4 U | 80 U | 20 U | 1 U | 1 U | 1 U |
| Bromomethane | 74-83-9 | 5 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| 2-Butanone (MEK) | 78-93-3 | -- | | 10 U | 25 U | 1300 | 76 | 20 U | 25 U | 10 U | 5 U | 20 U | 10 U | 200 U | 50 U | 1 U | 1 U | 1 U |
| Carbon disulfide | 75-15-0 | 60 | | 10 U | 25 U | 50 U | 25 U | 20 U | 25 U | 10 U | 5 U | 20 U | 10 U | 200 U | 50 U | 1 U | 1 U | 1 U |
| Carbon tetrachloride | 56-23-5 | 5 | | 1 U | 2.5 U | 5 U | 2.5 U | 2 U | 2.5 U | 1 U | 0.5 U | 2 U | 1 U | 20 U | 5 U | 1 U | 1 U | 1 U |
| Chlorobenzene | 108-90-7 | 5 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| Chloroethane | 75-00-3 | 5 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| Chloroform | 67-66-3 | 7 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 4.1 J | 100 U | 25 U | 1 U | 10 | 1 U |
| Chloromethane | 74-87-3 | -- | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| Dibromochloromethane | 124-48-1 | 50 | | 1 U | 2.5 U | 5 U | 2.5 U | 2 U | 2.5 U | 1 U | 0.5 U | 2 U | 1 U | 20 U | 5 U | 1 U | 1 U | 1 U |
| 1,2-Dichlorobenzene | 95-50-1 | 3 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| 1,3-Dichlorobenzene | 541-73-1 | 3 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| 1,4-Dichlorobenzene | 106-46-7 | 3 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| Dichlorodifluoromethane | 75-71-8 | 5 | | 10 U | 25 U | 50 U | 25 U | 20 U | 25 U | 10 U | 5 U | 20 U | 10 U | 200 U | 50 U | 1 U | 1 U | 1 U |
| 1,1-Dichloroethane | 75-34-3 | 5 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| 1,2-Dichloroethane | 107-06-2 | 0.6 | | 1 U | 2.5 U | 5 U | 2.5 U | 2 U | 2.5 U | 1 U | 0.5 U | 2 U | 1 U | 20 U | 5 U | 0.5 U | 0.5 U | 0.5 U |
| 1,1-Dichloroethene | 75-35-4 | 5 | | 1 U | 2.5 U | 2.1 J | 1.9 J | 12 | 20 | 2.4 | 45 | 5.2 | 6.1 | 11 J | 14 | 15 | 3.6 | 17 |
| cis-1,2-Dichloroethene | 156-59-2 | 5 | | 210 | 590 | 1100 | 470 | 430 | 530 | 160 | 440E | 180 | 170 | 1,400 | 180 | 400 | 200 | 1,100 |
| trans-1,2-Dichloroethene | 156-60-5 | 5 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 3.8 J | 5 U | 5.9 | 10 U | 5 U | 100 U | 25 U | 3.7 | 1.7 |
| 1,2-Dichloropropane | 78-87-5 | 1 | | 2 U | 5 U | 10 U | 5 U | 4 U | 5 U | 2 U | 1 U | 4 U | 2 U | 40 U | 10 U | 1 U | 1 U | 1 U |
| cis-1,3-Dichloropropene | 10061-01-5 | -- | | 1 U | 2.5 U | 5 U | 2.5 U | 2 U | 2.5 U | 1 U | 0.5 U | 2 U | 1 U | 20 U | 5 U | 1 U | 1 U | 1 U |
| trans-1,3-Dichloropropene | 10061-02-6 | -- | | 1 U | 2.5 U | 5 U | 2.5 U | 2 U | 2.5 U | 1 U | 0.5 U | 2 U | 1 U | 20 U | 5 U | 1 U | 1 U | 1 U |
| 1,4-Dioxane | 123-91-1 | -- | | 500 U | 1200 U | 2500 U | 1,200 U | 1,000 U | 1,200 U | 500 U | 250 U | 1,000 U | 500 U | 10,000 U | 2,500 U | 50 U | 50 U | 50 U |
| Ethylbenzene | 100-41-4 | 5 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| 2-Hexanone | 591-78-6 | 50 | | 10 U | 25 U | 50 U | 25 U | 20 U | 25 U | 10 U | 5 U | 20 U | 10 U | 200 U | 50 U | 1 U | 1 U | 1 U |
| Isopropylbenzene | 98-82-8 | -- | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| 4-Methyl-2-pentanone | 108-10-1 | -- | | 10 U | 25 U | 50 U | 25 U | 20 U | 7 J | 10 U | 5 U | 20 U | 10 U | 200 U | 50 U | 1 U | 1 U | 1 U |
| Methylene chloride | 75-09-2 | 5 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| MTBE | 1634-04-4 | 10 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 0.5 U | 0.5 U | 0.5 U |
| Styrene | 100-42-5 | 5 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | | 1 U | 2.5 U | 5 U | 2.5 U | 2 U | 2.5 U | 1 U | 0.5 U | 2 U | 1 U | 20 U | 5 U | 1 U | 1 U | 1 U |
| Tetrachloroethene | 127-18-4 | 5 | | 0.76 J | 68 | 320 | 98 | 460 | 1,800 E | 32 | 1,600E | 270 | 200 | 190 | 500 | 90 | 76 | 24 |
| Toluene | 108-88-3 | 5 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| 1,1,1-Trichloroethane | 71-55-6 | 5 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| 1,1,2-Trichloroethane | 79-00-5 | 1 | | 3 U | 7.5 U | 15 U | 7.5 U | 6 U | 7.5 U | 3 U | 1.5 U | 6 U | 3 U | 60 U | 15 U | 1 U | 1 U | 1 U |
| Trichloroethene | 79-01-6 | 5 | | 2.9 | 20 | 120 | 45 | 260 | 550 | 19 | 520 E | 140 | 83 | 160 | 240 | 96 | 61 | 29 |
| Trichlorofluoromethane | 75-69-4 | 5 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| Vinyl chloride | 75-01-4 | 2 | | 51 | 0.96 J | 110 | 29 | 83 | 110 | 15 | 50 | 25 | 5.8 | 31 J | 63 | 46 | 10 | 260 |
| o-Xylene | 95-47-6 | 5 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| M&p-Xylenes | 179601-23-1 | 5 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |
| Xylenes (total) | 1330-20-7 | 5 | | 5 U | 12 U | 25 U | 12 U | 10 U | 12 U | 5 U | 2.5 U | 10 U | 5 U | 100 U | 25 U | 1 U | 1 U | 1 U |

Notes:

- - No NYSDEC AWQSGV available
- µg/L - Micrograms per liter
- AWQSGVs - Ambient Water-Quality Standards and Guidance Values
- B - Compound was detected in lab blank
- Bold** - Indicates that compound was detected above AWQSGV
- E - Concentration exceeds lab calibration or range
- J - Estimated Value
- nr - Not reported
- ns - Not sampled
- U - Compound was analyzed for but not detected
- V - Qualifier added by data validator

Table 1. Summary of VOCs Detected in Groundwater, Coral Island Shopping Center, Staten Island, New York

| Parameter (Concentrations in µg/L) | CAS # | NYSDEC AWQSGVs (µg/L) | Sample Designation: Sample Date: | MW-101S 4/28/14 | MW-101S 10/1/13 | MW-101S 4/4/13 | MW-101S 10/26/11 | MW-101S 3/29/11 | MW-101S 12/28/10 | MW-101S 9/23/09 | MW-101S 6/18/09 | MW-101S 3/30/09 | MW-101S 12/18/08 | MW-101S 9/29/08 | MW-101S 6/30/08 | MW-101S 3/10/08 | MW-101S 12/11/07 | MW-101S 8/9/07 |
|---------------------------------------|-------------|-----------------------------|-------------------------------------|--------------------|--------------------|-------------------|---------------------|--------------------|---------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|---------------------|-------------------|
| Acetone | 67-64-1 | 50 | | 100 U | 100 U | 10 U | 5.9 U | 20 U | 100 U | 100 U | 5.0 U | 50 U | 50 U | 120 | 400 | 3,600 | 5,000 U | 2,500 U |
| Benzene | 71-43-2 | 1 | | 5 U | 5 U | 0.5 U | 0.5 U | 1 U | 10 U | 10 U | 0.50 U | 5 U | 5 U | 0.5 U | 10 U | 50 U | 200 U | 100 U |
| Bromodichloromethane | 75-27-4 | 50 | | 10 U | 10 U | 1 U | 0.61 U | 1 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| Bromoform | 75-25-2 | 50 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| Bromomethane | 74-83-9 | 5 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 5.0 U | 50 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| 2-Butanone (MEK) | 78-93-3 | -- | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 630 | 500 U | 1,000 U | 500 U |
| Carbon disulfide | 75-15-0 | 60 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| Carbon tetrachloride | 56-23-5 | 5 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| Chlorobenzene | 108-90-7 | 5 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| Chloroethane | 75-00-3 | 5 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 2.2 | 20 U | 100 U | 1,000 U | 500 U |
| Chloroform | 67-66-3 | 7 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| Chloromethane | 74-87-3 | -- | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| Dibromochloromethane | 124-48-1 | 50 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| 1,2-Dichlorobenzene | 95-50-1 | 3 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| 1,3-Dichlorobenzene | 541-73-1 | 3 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| 1,4-Dichlorobenzene | 106-46-7 | 3 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| Dichlorodifluoromethane | 75-71-8 | 5 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| 1,1-Dichloroethane | 75-34-3 | 5 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| 1,2-Dichloroethane | 107-06-2 | 0.6 | | 5 U | 5 U | 0.5 U | 0.5 U | 1 U | 10 U | 10 U | 0.50 U | 5 U | 5 U | 0.5 U | 10 U | 50 U | 1,000 U | 500 U |
| 1,1-Dichloroethene | 75-35-4 | 5 | | 33 | 24 | 1 U | 2.3 | 14 | 55 | 32 | 1.8 | 22 | 10 U | 1 U | 20 U | 100 U | 1,000 U | 350 J |
| cis-1,2-Dichloroethene | 156-59-2 | 5 | | 1,000 | 1,600 | 13 | 98 | 360 | 2,500 | 1,800 | 160 | 2,400 | 1,000 | 390 | 1,900 | 22,000 | 27,000 | 13,000 |
| trans-1,2-Dichloroethene | 156-60-5 | 5 | | 10 U | 10 U | 1.5 | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1.7 | 20 U | 100 U | 1,000 U | 500 U |
| 1,2-Dichloropropane | 78-87-5 | 1 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| cis-1,3-Dichloropropene | 10061-01-5 | -- | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| trans-1,3-Dichloropropene | 10061-02-6 | -- | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| 1,4-Dioxane | 123-91-1 | -- | | 500 U | 500 U | 50 U | 50 U | 100 U | 1,000 U | 1,000 U | 50 U | 500 U | 500 U | 50 U | 1,000 U | 25,000 U | 50,000 U | 25,000 U |
| Ethylbenzene | 100-41-4 | 5 | | 10 U | 5.2 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 200 U | 100 U |
| 2-Hexanone | 591-78-6 | 50 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 500 U | 1,000 U | 500 U |
| Isopropylbenzene | 98-82-8 | -- | | 10 U | 5 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 200 U | 100 U |
| 4-Methyl-2-pentanone | 108-10-1 | -- | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 500 U | 1,000 U | 500 U |
| Methylene chloride | 75-09-2 | 5 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| MTBE | 1634-04-4 | 10 | | 5 U | 5 U | 0.5 U | 0.5 U | 1 U | 10 U | 10 U | 0.50 U | 5 U | 5 U | 0.5 U | 20 U | 100 U | 200 U | 100 U |
| Styrene | 100-42-5 | 5 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| Tetrachloroethene | 127-18-4 | 5 | | 260 | 12 | 1.9 | 1 U | 7.8 | 20 U | 20 U | 1.0 U | 160 | 10 U | 1 U | 20 U | 100 U | 1,000 U | 2,200 |
| Toluene | 108-88-3 | 5 | | 10 U | 5 U | 1.2 | 1 U | 2 U | 20 U | 20 U | 6.5 | 10 U | 10 U | 4.9 | 20 U | 100 U | 200 U | 100 U |
| 1,1,1-Trichloroethane | 71-55-6 | 5 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| 1,1,2-Trichloroethane | 79-00-5 | 1 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| Trichloroethene | 79-01-6 | 5 | | 180 | 18 | 2.9 | 1.5 | 39 | 62 | 64 | 16 | 260 | 10 U | 1 U | 20 U | 100 U | 1,000 U | 2,300 |
| Trichlorofluoromethane | 75-69-4 | 5 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 1,000 U | 500 U |
| Vinyl chloride | 75-01-4 | 2 | | 370 | 440 | 1 U | 72 | 160 | 1,200 | 750 | 380 | 1,100 | 850 | 170 | 750 | 10,000 | 14,000 | 2,200 |
| o-Xylene | 95-47-6 | 5 | | 10 U | 5 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 10 U | 1 U | 20 U | 100 U | 200 U | 100 U |
| M&p-Xylenes | 179601-23-1 | 5 | | 10 U | 10 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1.0 U | 10 U | 20 U | 2 U | 40 U | 200 U | nr | nr |
| Xylenes (total) | 1330-20-7 | 5 | | 10 U | 5 U | 1 U | 1 U | 2 U | 20 U | 20 U | 1 U | 2 U | 10 U | nr | nr | nr | nr | 200 U |

Notes:
 -- - No NYSDEC AWQSGV available
 µg/L - Micrograms per liter
 AWQSGVs - Ambient Water-Quality Standards and Guidance Values
 B - Compound was detected in lab blank
Bold - Indicates that compound was detected above AWQSGV
 E - Concentration exceeds lab calibration or range
 J - Estimated Value
 nr - Not reported
 ns - Not sampled
 U - Compound was analyzed for but not detected
 V - Qualifier added by data validator

Groundwater Performance Monitoring
Coral Island Shopping Center, Staten Island

FIGURE

Site Plan

V:\CAD\PROJECTS\1258\10001\2001\258_0001\2001.DWG



LEGEND

- ◆ MW-201 LOCATION AND DESIGNATION OF MONITORING WELL
- ◆ MW-101 LOCATION AND DESIGNATION OF MONITORING WELL IN SAMPLING PLAN
- SITE BOUNDARY
- APPROXIMATE LOCATION OF INTERIOR SPACE
- ▨ DRY CLEANER



| | | | |
|---|---------------------|------------------------|--------------------|
| Title: | | | |
| SITE PLAN | | | |
| CORAL ISLAND SHOPPING CENTER STATEN ISLAND, NEW YORK | | | |
| Prepared for: | | | |
| WVP ASSOCIATES | | | |
| ROUX | Compiled by: M.R. | Date: 20APR23 | FIGURE 1 |
| | Prepared by: B.H.C. | Scale: AS SHOWN | |
| | Project Mgr: M.R. | Project: 1258_0001Y004 | |
| File: 1258_0001Y200_01.DWG | | | |

Groundwater Performance Monitoring
Coral Island Shopping Center, Staten Island

ATTACHMENT 1

Laboratory Data



ANALYTICAL REPORT

| | |
|-----------------|--|
| Lab Number: | L2423960 |
| Client: | Roux Env. Eng. & Geology, DPC 209 Shafter Street Islandia, NY 11749-5074 |
| ATTN: | Michael Roux |
| Phone: | (631) 232-2600 |
| Project Name: | CORAL ISLAND |
| Project Number: | 1258.0001Y |
| Report Date: | 05/08/24 |

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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



Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2423960
Report Date: 05/08/24

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2423960-01 | MW-101S | WATER | NY | 04/30/24 12:30 | 05/01/24 |

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2423960
Report Date: 05/08/24

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: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2423960
Report Date: 05/08/24

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

The analyses performed were specified by the client.

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

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 05/08/24

ORGANICS

VOLATILES

Project Name: CORAL ISLAND**Lab Number:** L2423960**Project Number:** 1258.0001Y**Report Date:** 05/08/24**SAMPLE RESULTS**

Lab ID: L2423960-01 D

Date Collected: 04/30/24 12:30

Client ID: MW-101S

Date Received: 05/01/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 05/07/24 23:46

Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,1-Dichloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Chloroform | ND | | ug/l | 5.0 | 1.4 | 2 |
| Carbon tetrachloride | ND | | ug/l | 1.0 | 0.27 | 2 |
| 1,2-Dichloropropane | ND | | ug/l | 2.0 | 0.27 | 2 |
| Dibromochloromethane | ND | | ug/l | 1.0 | 0.30 | 2 |
| 1,1,2-Trichloroethane | ND | | ug/l | 3.0 | 1.0 | 2 |
| Tetrachloroethene | 0.76 | J | ug/l | 1.0 | 0.36 | 2 |
| Chlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Trichlorofluoromethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dichloroethane | ND | | ug/l | 1.0 | 0.26 | 2 |
| 1,1,1-Trichloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromodichloromethane | ND | | ug/l | 1.0 | 0.38 | 2 |
| trans-1,3-Dichloropropene | ND | | ug/l | 1.0 | 0.33 | 2 |
| cis-1,3-Dichloropropene | ND | | ug/l | 1.0 | 0.29 | 2 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 1.0 | 0.29 | 2 |
| 1,1-Dichloropropene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromoform | ND | | ug/l | 4.0 | 1.3 | 2 |
| 1,1,1,2,2-Tetrachloroethane | ND | | ug/l | 1.0 | 0.33 | 2 |
| Benzene | 0.89 | J | ug/l | 1.0 | 0.32 | 2 |
| Toluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Ethylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Chloromethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromomethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Vinyl chloride | 51 | | ug/l | 2.0 | 0.14 | 2 |
| Chloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,1-Dichloroethene | ND | | ug/l | 1.0 | 0.34 | 2 |
| trans-1,2-Dichloroethene | ND | | ug/l | 5.0 | 1.4 | 2 |

Project Name: CORAL ISLAND

Lab Number: L2423960

Project Number: 1258.0001Y

Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2423960-01 D

Date Collected: 04/30/24 12:30

Client ID: MW-101S

Date Received: 05/01/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Trichloroethene | 2.9 | | ug/l | 1.0 | 0.35 | 2 |
| 1,2-Dichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,3-Dichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,4-Dichlorobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Methyl tert butyl ether | ND | | ug/l | 5.0 | 0.33 | 2 |
| p/m-Xylene | ND | | ug/l | 5.0 | 1.4 | 2 |
| o-Xylene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Xylenes, Total | ND | | ug/l | 5.0 | 1.4 | 2 |
| cis-1,2-Dichloroethene | 210 | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dichloroethene, Total | 210 | | ug/l | 5.0 | 1.4 | 2 |
| Dibromomethane | ND | | ug/l | 10 | 2.0 | 2 |
| 1,2,3-Trichloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Acrylonitrile | ND | | ug/l | 10 | 3.0 | 2 |
| Styrene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Dichlorodifluoromethane | ND | | ug/l | 10 | 2.0 | 2 |
| Acetone | ND | | ug/l | 10 | 2.9 | 2 |
| Carbon disulfide | ND | | ug/l | 10 | 2.0 | 2 |
| 2-Butanone | ND | | ug/l | 10 | 3.9 | 2 |
| Vinyl acetate | ND | | ug/l | 10 | 2.0 | 2 |
| 4-Methyl-2-pentanone | ND | | ug/l | 10 | 2.0 | 2 |
| 2-Hexanone | ND | | ug/l | 10 | 2.0 | 2 |
| Bromochloromethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 2,2-Dichloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dibromoethane | ND | | ug/l | 4.0 | 1.3 | 2 |
| 1,3-Dichloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Bromobenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| n-Butylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| sec-Butylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| tert-Butylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| o-Chlorotoluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| p-Chlorotoluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 5.0 | 1.4 | 2 |
| Hexachlorobutadiene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Isopropylbenzene | ND | | ug/l | 5.0 | 1.4 | 2 |
| p-Isopropyltoluene | ND | | ug/l | 5.0 | 1.4 | 2 |
| Naphthalene | ND | | ug/l | 5.0 | 1.4 | 2 |

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2423960
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2423960-01 D
 Client ID: MW-101S
 Sample Location: NY

Date Collected: 04/30/24 12:30
 Date Received: 05/01/24
 Field Prep: Not Specified

Sample Depth:

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

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 118 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 109 | | 70-130 |
| Dibromofluoromethane | 104 | | 70-130 |

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2423960
Report Date: 05/08/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/07/24 20:08
Analyst: MAG

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1918468-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | 0.14 |
| 1,1-Dichloropropene | ND | | ug/l | 2.5 | 0.70 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2423960
Report Date: 05/08/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/07/24 20:08
Analyst: MAG

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1918468-5 | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.17 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| Xylenes, Total | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethene, Total | ND | | ug/l | 2.5 | 0.70 |
| Dibromomethane | ND | | ug/l | 5.0 | 1.0 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.5 | 0.70 |
| Acrylonitrile | ND | | ug/l | 5.0 | 1.5 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| Vinyl acetate | ND | | ug/l | 5.0 | 1.0 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 2,2-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,3-Dichloropropane | ND | | ug/l | 2.5 | 0.70 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromobenzene | ND | | ug/l | 2.5 | 0.70 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| tert-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2423960
Report Date: 05/08/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/07/24 20:08
Analyst: MAG

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1918468-5 | | | | | |
| o-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| p-Chlorotoluene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Hexachlorobutadiene | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 |
| Naphthalene | ND | | ug/l | 2.5 | 0.70 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| p-Diethylbenzene | ND | | ug/l | 2.0 | 0.70 |
| p-Ethyltoluene | ND | | ug/l | 2.0 | 0.70 |
| 1,2,4,5-Tetramethylbenzene | ND | | ug/l | 2.0 | 0.54 |
| Ethyl ether | ND | | ug/l | 2.5 | 0.70 |
| trans-1,4-Dichloro-2-butene | ND | | ug/l | 2.5 | 0.70 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 108 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 111 | | 70-130 |
| Dibromofluoromethane | 103 | | 70-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND

Lab Number: L2423960

Project Number: 1258.0001Y

Report Date: 05/08/24

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1918468-3 WG1918468-4 | | | | | | | | |
| Methylene chloride | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,1-Dichloroethane | 120 | | 120 | | 70-130 | 0 | | 20 |
| Chloroform | 110 | | 110 | | 70-130 | 0 | | 20 |
| Carbon tetrachloride | 96 | | 96 | | 63-132 | 0 | | 20 |
| 1,2-Dichloropropane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Dibromochloromethane | 78 | | 80 | | 63-130 | 3 | | 20 |
| 1,1,2-Trichloroethane | 91 | | 94 | | 70-130 | 3 | | 20 |
| Tetrachloroethene | 86 | | 87 | | 70-130 | 1 | | 20 |
| Chlorobenzene | 97 | | 100 | | 75-130 | 3 | | 20 |
| Trichlorofluoromethane | 110 | | 110 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 100 | | 100 | | 67-130 | 0 | | 20 |
| Bromodichloromethane | 97 | | 100 | | 67-130 | 3 | | 20 |
| trans-1,3-Dichloropropene | 85 | | 89 | | 70-130 | 5 | | 20 |
| cis-1,3-Dichloropropene | 93 | | 95 | | 70-130 | 2 | | 20 |
| 1,1-Dichloropropene | 98 | | 99 | | 70-130 | 1 | | 20 |
| Bromoform | 71 | | 74 | | 54-136 | 4 | | 20 |
| 1,1,2,2-Tetrachloroethane | 98 | | 100 | | 67-130 | 2 | | 20 |
| Benzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Toluene | 98 | | 100 | | 70-130 | 2 | | 20 |
| Ethylbenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Chloromethane | 120 | | 120 | | 64-130 | 0 | | 20 |
| Bromomethane | 68 | | 70 | | 39-139 | 3 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND

Project Number: 1258.0001Y

Lab Number: L2423960

Report Date: 05/08/24

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1918468-3 WG1918468-4 | | | | | | | | |
| Vinyl chloride | 120 | | 120 | | 55-140 | 0 | | 20 |
| Chloroethane | 120 | | 120 | | 55-138 | 22 | Q | 20 |
| 1,1-Dichloroethene | 96 | | 95 | | 61-145 | 1 | | 20 |
| trans-1,2-Dichloroethene | 98 | | 100 | | 70-130 | 2 | | 20 |
| Trichloroethene | 92 | | 94 | | 70-130 | 2 | | 20 |
| 1,2-Dichlorobenzene | 94 | | 98 | | 70-130 | 4 | | 20 |
| 1,3-Dichlorobenzene | 96 | | 99 | | 70-130 | 3 | | 20 |
| 1,4-Dichlorobenzene | 97 | | 100 | | 70-130 | 3 | | 20 |
| Methyl tert butyl ether | 86 | | 88 | | 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 | 100 | | 100 | | 70-130 | 0 | | 20 |
| Dibromomethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2,3-Trichloropropane | 99 | | 100 | | 64-130 | 1 | | 20 |
| Acrylonitrile | 100 | | 110 | | 70-130 | 10 | | 20 |
| Styrene | 100 | | 105 | | 70-130 | 5 | | 20 |
| Dichlorodifluoromethane | 91 | | 91 | | 36-147 | 0 | | 20 |
| Acetone | 110 | | 120 | | 58-148 | 9 | | 20 |
| Carbon disulfide | 100 | | 100 | | 51-130 | 0 | | 20 |
| 2-Butanone | 98 | | 95 | | 63-138 | 3 | | 20 |
| Vinyl acetate | 110 | | 110 | | 70-130 | 0 | | 20 |
| 4-Methyl-2-pentanone | 88 | | 91 | | 59-130 | 3 | | 20 |
| 2-Hexanone | 100 | | 110 | | 57-130 | 10 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND

Project Number: 1258.0001Y

Lab Number: L2423960

Report Date: 05/08/24

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1918468-3 WG1918468-4 | | | | | | | | |
| Bromochloromethane | 95 | | 98 | | 70-130 | 3 | | 20 |
| 2,2-Dichloropropane | 100 | | 100 | | 63-133 | 0 | | 20 |
| 1,2-Dibromoethane | 86 | | 89 | | 70-130 | 3 | | 20 |
| 1,3-Dichloropropane | 96 | | 98 | | 70-130 | 2 | | 20 |
| 1,1,1,2-Tetrachloroethane | 80 | | 82 | | 64-130 | 2 | | 20 |
| Bromobenzene | 90 | | 95 | | 70-130 | 5 | | 20 |
| n-Butylbenzene | 100 | | 100 | | 53-136 | 0 | | 20 |
| sec-Butylbenzene | 98 | | 99 | | 70-130 | 1 | | 20 |
| tert-Butylbenzene | 93 | | 96 | | 70-130 | 3 | | 20 |
| o-Chlorotoluene | 100 | | 100 | | 70-130 | 0 | | 20 |
| p-Chlorotoluene | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,2-Dibromo-3-chloropropane | 70 | | 76 | | 41-144 | 8 | | 20 |
| Hexachlorobutadiene | 82 | | 82 | | 63-130 | 0 | | 20 |
| Isopropylbenzene | 99 | | 100 | | 70-130 | 1 | | 20 |
| p-Isopropyltoluene | 92 | | 93 | | 70-130 | 1 | | 20 |
| Naphthalene | 79 | | 83 | | 70-130 | 5 | | 20 |
| n-Propylbenzene | 110 | | 110 | | 69-130 | 0 | | 20 |
| 1,2,3-Trichlorobenzene | 83 | | 86 | | 70-130 | 4 | | 20 |
| 1,2,4-Trichlorobenzene | 88 | | 88 | | 70-130 | 0 | | 20 |
| 1,3,5-Trimethylbenzene | 91 | | 93 | | 64-130 | 2 | | 20 |
| 1,2,4-Trimethylbenzene | 94 | | 96 | | 70-130 | 2 | | 20 |
| 1,4-Dioxane | 86 | | 88 | | 56-162 | 2 | | 20 |
| p-Diethylbenzene | 92 | | 93 | | 70-130 | 1 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND

Project Number: 1258.0001Y

Lab Number: L2423960

Report Date: 05/08/24

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | RPD | |
|--|-----------|------|-----------|------|------------------|-----|------|--------|
| | %Recovery | Qual | %Recovery | Qual | | | Qual | Limits |
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1918468-3 WG1918468-4 | | | | | | | | |
| p-Ethyltoluene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2,4,5-Tetramethylbenzene | 86 | | 88 | | 70-130 | 2 | | 20 |
| Ethyl ether | 98 | | 100 | | 59-134 | 2 | | 20 |
| trans-1,4-Dichloro-2-butene | 95 | | 96 | | 70-130 | 1 | | 20 |

| Surrogate | LCS | | LCSD | | Acceptance Criteria |
|-----------------------|-----------|------|-----------|------|---------------------|
| | %Recovery | Qual | %Recovery | Qual | |
| 1,2-Dichloroethane-d4 | 116 | | 115 | | 70-130 |
| Toluene-d8 | 102 | | 102 | | 70-130 |
| 4-Bromofluorobenzene | 104 | | 104 | | 70-130 |
| Dibromofluoromethane | 103 | | 104 | | 70-130 |

Project Name: CORAL ISLAND

Project Number: 1258.0001Y

Serial_No:05082412:10

Lab Number: L2423960

Report Date: 05/08/24

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**

A Absent

Container Information

Container ID **Container Type**

| Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|--------------------|
| A | NA | | 2.7 | Y | Absent | | NYTCL-8260(14) |
| A | NA | | 2.7 | Y | Absent | | NYTCL-8260(14) |
| A | NA | | 2.7 | Y | Absent | | NYTCL-8260(14) |

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2423960
Report Date: 05/08/24

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: CORAL ISLAND
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Lab Number: L2423960
Report Date: 05/08/24

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: CORAL ISLAND
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Report Date: 05/08/24

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: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2423960
Report Date: 05/08/24

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

EPA 625.1: alpha-Terpineol

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

EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; 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.

Nonpotable Water: EPA RSK-175 Dissolved Gases

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, 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 | Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105 | Page | 1 | Date Rec'd in Lab | 5/2/24 | ALPHA Job # L2423960 |
| | | | of | 1 | | | |
| Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 | Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288 | Project Information | | Deliverables | | Billing Information | |
| Client Information | | Project Name: CORAL ISLAND | | <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other | | <input checked="" type="checkbox"/> Same as Client Info PO # | |
| Client: ROUX ENVIRONMENTAL | | Project Location: NY | | Regulatory Requirement | | Disposal Site Information | |
| Address: 209 SHAFER ST ISLANDIA, NY 11749 | | Project # 1258.0001Y | | <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge | | Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other: | |
| Phone: 631.774.7289 | | Project Manager: MICHAEL ROUX | | ANALYSIS | | Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments | |
| Fax: [blank] | | ALPHAQuote #: | | TBA AT 375 VOCs | | | |
| Email: MROUX@ROUXINC.COM | | Turn-Around Time | | | | Total Bottles | |
| These samples have been previously analyzed by Alpha <input type="checkbox"/> | | Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days: | | | | | |
| Other project specific requirements/comments: | | Please specify Metals or TAL. | | ALPHA Lab ID (Lab Use Only) | | Sample ID | |
| Please specify Metals or TAL. | | Collection Date Time Sample Matrix Sampler's Initials | | | | | |
| ALPHA Lab ID (Lab Use Only) | | Sample ID | | Collection Date Time Sample Matrix Sampler's Initials | | Total Bottles | |
| 23960 -01 | | MW-1015 | | 04/30/24 1230 GW MR | | 3 | |
| 3 | | 3 | | 3 | | 3 | |
| Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₈ 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 | | 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.) | |
| Container Type | | Preservative | | Relinquished By: [Signature] Date/Time: 05/01/24 0930 Received By: Anthony Green Date/Time: 5/1/24 1857 | | | |
| Container Type | | Preservative | | Relinquished By: [Signature] Date/Time: 5/1/24 1950 Received By: Anthony Green Date/Time: MAY 01 2024 2032 | | | |
| Container Type | | Preservative | | Relinquished By: [Signature] Date/Time: 5/2/24 0115 Received By: [Signature] Date/Time: 5/2/24 0115 | | | |
| Container Type | | Preservative | | Relinquished By: [Signature] Date/Time: 5/2/24 0315 Received By: [Signature] Date/Time: 5/2/24 0315 | | | |

APPENDIX C

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. C243033 | | |
| Site Name Coral Island Shopping Center | | |
| Site Address: 1650 Richmond Avenue | Zip Code: 10314 | |
| City/Town: Staten Island | | |
| County: Richmond | | |
| Site Acreage: 3.900 | | |
| Reporting Period: March 02, 2024 to March 02, 2025 | | |
| April 01, 2024 to April 01, 2025 | | |
| | | YES NO |
| 1. Is the information above correct? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form. | | |
| 5. Is the site currently undergoing development? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | Box 2 |
| | | YES NO |
| 6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Are all ICs in place and functioning as designed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 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 |

2236-125

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. C243033

Box 3

Description of Institutional Controls

Parcel

Owner

Institutional Control

2236-125

WWP Associates

Ground Water Use Restriction
Soil Management Plan
Site Management Plan
Landuse Restriction
Monitoring Plan
O&M Plan
IC/EC Plan

Institutional Controls ("ICs") Components

The ICs are required under the RAWP to: (1) implement, maintain and monitor EC systems; (2) prevent future exposure to residual contamination by controlling disturbances of the subsurface contamination; and, (3) restrict the use of the Site to restricted commercial uses only. Adherence to these ICs on the Site is required under the Environmental Easement and will be implemented under this SMP. A copy of the Environmental Easement is presented as Appendix D.

The following are the ICs for the Site:

1. The Grantor and the Grantor's successors must comply with the Environmental Easement and with all elements of this SMP.
2. All ECs must be operated and maintained as specified in the SMP.
3. All ECs on the Site must be inspected and certified at a frequency and in a manner defined in the SMP.
4. Groundwater, and other environmental or public health monitoring must be performed as defined in the SMP.
5. On-Site environmental monitoring devices, including but not limited to, groundwater monitor wells must be protected and replaced as necessary to ensure continued functioning in the manner specified in the SMP.
6. ECs may not be discontinued without an amendment or the extinguishment of the Environmental Easement for the Site.
7. The following Site Restrictions apply to the Site:
 - Use of groundwater underlying the Site is prohibited without treatment rendering it safe for the intended use.
 - Vegetable gardens and farming on the Site are prohibited.
 - All future activities on the Site that will disturb residual contaminated material are prohibited unless they are conducted in accordance with the soil management provisions in this SMP (Appendix C).
 - The Site may be used for restricted commercial use only provided the long-term EC/ICs included in the SMP remain in use. The Site may not be used for a higher level of use, such as restricted residential use without an amendment or the extinguishment of this Environmental Easement.

- Grantor agrees to submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Site are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Site at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow. This annual statement must be certified by an expert that the NYSDEC finds acceptable.

Description of Engineering Controls

Box 4

Parcel

Engineering Control

2236-125

Cover System

The ECs include: (1) a composite cover system and, (2) monitoring enhanced natural attenuation of groundwater on and off the Site.

Composite Cover System

Exposure to residual contaminated soil/fill exceeding restricted commercial use SCOs at the Site will be prevented by a cover. The current cover system is comprised of asphalt, building foundations, landscaped areas, and gravel covered landscaped areas. A Soil Management Plan that outlines the procedures required in the event the composite cover system and underlying residual contamination are disturbed is presented as Appendix C. The monitoring and maintenance of this cover are provided in the Monitoring Plan included in Section 3 of this SMP. A figure showing the location and cross section of each cover system is presented as Plate 3.

Monitored Enhanced Natural Attenuation

Groundwater monitoring activities to assess natural attenuation will continue, as determined by NYSDOH and NYSDEC, until residual groundwater concentrations are found to be below NYSDEC standards or have become asymptotic over an extended period. Monitoring will continue until permission to discontinue is granted in writing by NYSDEC and NYSDOH. The monitoring activities are outlined in the Monitoring Plan included in Section 3 of this SMP.

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 complete.

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

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 Michael Roux at 209 Shafter Street, Islandia, New York 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

April 29, 2025

Date

EC CERTIFICATIONS

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 David E. Kaiser at 209 Shafter Street, Islandia, New York 11749,
print name print business address

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





April 29, 2025

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

Stamp
(Required for PE)

Date

APPENDIX D

Electronic Database

SITE SUMMARY

The Coral Island Shopping Center is an approximately 3.9 acre property located at 1650 Richmond Avenue, Staten Island, Richmond County, New York (hereafter referred to as the “Site”).

The Site Owner, WWP Associates, LLP (“WWP”) entered into a Brownfield Cleanup Agreement (“BCA” Index #W2-1040-05-01, Site #C243033, issued March 2005) under the New York State Brownfield Cleanup Program administered by New York State Department of Environmental Conservation (“NYSDEC”).

The BCA required WWP to address an area of impacted soil and groundwater that resulted from historic releases associated with a dry cleaner at the Site. The Site was remediated in accordance with the BCA and is currently being monitored.

The contact name for the Site is currently:

Ms. Heather Thorpe
WWP Associates
8816 Six Forks Road, Suite 201
Raleigh, NC 27615
919-846-4046