



Periodic Review Report

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

April 29, 2024

Prepared for:

WWP Associates LLP
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Prepared by:

**Roux Environmental Engineering
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Certification

For each institutional or engineering control identified for the site, I, Brian Morrissey, 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.



Brian P. Morrissey, P.E.
NYS Professional Engineer #062617

April 29, 2024
Date


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 March 2, 2023 to April 1, 2024.

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 August 9, 2023, during oversight of Soil Management Plan activities and April 1, 2024, during a Site inspection in accordance with the inspection schedule presented above, respectively.

3.1.2 Groundwater Remediation and Monitoring

No groundwater monitoring was conducted during this reporting period. Additional groundwater monitoring will be conducted during the next reporting period.

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 will 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 August 9, 2023 and April 1, 2024. 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.

3.3 Soil Management Plan – Sewer Repair Oversight

On or about July 6, 2023, the property management firm for the Site was notified by an adjacent property tenant (McDonald's) that they were experiencing a sanitary sewer system issue that had required replacement of approximately 40+ feet of 6-inch cast iron sewer pipe on the McDonald's property. That repair had not rectified the situation and therefore McDonald's wanted to immediately replace an additional 40+/- feet of the sewer pipe on the Coral Island property that was an extension of their sanitary sewer. Roux was notified and McDonald's was not allowed to self-perform the work due to the SMP. Roux notified the NYSDEC on July 19th that intrusive work was being planned and that the start date was uncertain.

Between August 7, 2023 and August 18, 2023, 38 feet of sanitary sewer pipe was replaced that was servicing the McDonald's property. This repair generated a little over 20 cubic yards of soil. In addition, 51 feet of storm sewer pipe was replaced that was servicing a catch basin near the Site's garbage compactors. The storm sewer repair generated a little over 12 cubic yards of soil. This work required the characterization and disposal of soil and Community Air Monitoring following the April 2013 Site Management Plan and the 2009 Soil Management Plan. Waste characterization showed no exceedances of NYSDEC 375 Unrestricted Use standards (for PCBs) and NYSDEC Part 371 and Title 40 CFR Part 261 (for TCLP analyses). In total, 52.17 tons of soil were transported from the Site and disposed of at Conestoga Landfill, Morgantown, PA. Community Air Monitoring included dust and VOCs with no exceedances of action levels for either. A more detailed summary of the sewer line repair oversight is presented as Appendix B.

3.4 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. An Environmental Easement is in place and requires compliance with Institutional Controls.
3. The engineering controls are performing as designed and are effective.

FIGURES

1. Site Location Map
2. Site Plan



QUADRANGLE LOCATION







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

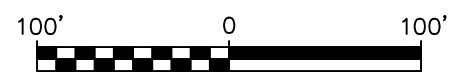



Title:		SITE LOCATION MAP	
		CORAL ISLAND SHOPPING CENTER STATEN ISLAND, NEW YORK	
Prepared for:		WWP ASSOCIATES, LLP	
Compiled by: M.R.	Date: 16APR24	ROUX	
Prepared by: B.H.C.	Scale: AS SHOWN		
Project Mgr: M.R.	Project: 1258.0001Y004		
File: 1258.0001Y201.01.CDR		FIGURE	1



LEGEND

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



Title:			SITE PLAN
CORAL ISLAND SHOPPING CENTER STATEN ISLAND, NEW YORK			
Prepared for:			WWP ASSOCIATES
	Compiled by: M.R.	Date: 16APR24	FIGURE 2
	Prepared by: B.H.C.	Scale: AS SHOWN	
	Project Mgr: M.R.	Project: 1258.0001Y004	
	File: 1258.0001Y203.02.DWG		

V:\CAD\PROJECTS\1258\Y0001\Y203\1258.0001Y203.02.DWG

APPENDICES

- A. Site Inspection Checklists
- B. Sewer Repair Oversight
- 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: Aug 9, 2023

DEC Site No.: C243033

Roux Project Number: 1258.0001Y004

Location: 1650 Richmond Avenue

Staten Island, New York

Reason for Inspection: Periodic Inspection

Periodic Annual Emergency * Onsite for Sewer Repair Oversight

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: Michael Roux

Site: Coral Island Shopping Center

Inspection Date: Aug 9, 2023

DEC Site No.: C243033

Roux Project Number: 1258.0001Y004

Location: 1650 Richmond Avenue

Staten Island, New York

Reason for Inspection: Periodic 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**

Client: WWP Associates, LLP

Inspector: Michael Roux

Site: Coral Island Shopping Center

Inspection Date: Apr 1, 2024

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: Michael Roux

Site: Coral Island Shopping Center

Inspection Date: Apr 1, 2024

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

Client: WWP Associates, LLP

Inspector: Michael Roux

Site: Coral Island Shopping Center

Inspection Date: Apr 1, 2024

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 [] _____

Additional Comments or Clarification Where Corrective Actions May Be Required:

All landscaped areas, gravel covered landscaped areas, asphalt parking lots, and building foundations
appeared to be in good condition. Photographs on following pages.

**ROUX ENVIRONMENTAL
SITE MONITORING AND INSPECTION FORM**



Photo 1: Victory Blvd entrance and landscaped areas.



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



Photo 3: Richmond Avenue entrance.



Photo 4: Monitoring well cluster MW-109.

**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

Sewer Repair Oversight



Sewer Repair Oversight

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

April 29, 2024

Prepared for:

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

Prepared by:

**Roux Environmental Engineering
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2. Site Plan – Storm Sewer

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2. CAMP Monitoring Data – Volatile Organic Compounds
3. Summary of Laboratory Analysis – QP Backfill
4. Summary of Laboratory Analysis – Waste Characterization

Appendices

- A. Daily Status Reports
- B. Laboratory Analytical Data – Quarry Process Backfill
- C. Laboratory Analytical Data – Waste Characterization Sample
- D. Waste Manifests

1. Introduction

On behalf of WWP Associates, Roux Environmental Engineering and Geology, D.P.C. (“Roux”) presents this summary of soil management conducted between August 7, 2023 and August 18, 2023 at the Coral Island Shopping Center located at 1655 Richmond Avenue, Staten Island, New York (the “Site”). The Site is managed under the New York State Brownfield Cleanup Program administered by New York State Department of Environmental Conservation (“NYSDEC”, Site #C243033). This work was done in accordance with the 2009 Soil Management Plan for the Site that is attached to the April 2013 Site Management Plan (“SMP”).

2. Background

On or about July 6, 2023, Rivercrest Realty, the property management firm for the Site, was notified by an adjacent property tenant (McDonald's) that they were experiencing a sanitary sewer system issue that had required replacement of approximately 40+ feet of 6-inch cast iron sewer pipe on the McDonald's property. That repair had not rectified the situation and therefore McDonald's wanted to immediately replace an additional 40+/- feet of the sewer pipe on the Coral Island property that was an extension of their sanitary sewer. The sewer pipe in question led from the McDonald's property to a nearby manhole (Figure 1) and was part of a sewer easement McDonald's had across the Site. Rivercrest Realty contacted Roux and responded to McDonald's that despite the requested emergency schedule, McDonald's would not be allowed to self-perform this work due to the SMP.

Rivercrest Realty connected McDonald's with the Site's plumbing contractor, Carmine's Mechanical, Inc. ("CMI") to conduct the emergency sewer repair. As planning began, McDonald's urgency also began to change from day to day. It is our understanding that the McDonald's franchise needed a third-party approval before conducting the work and that approval had been delayed. McDonald's had agreed to use CMI and was now requesting that CMI conduct the work immediately following their receipt of approval. The timing remained urgent but was paused. Roux notified the NYSDEC on July 19th that intrusive work was being planned and the uncertainty of the start date.

To complicate matters, the sewer line in question is in a busy entry/exit area of the parking lot for the Coral Island Shopping Center and crosses over several large utility easements including Con Edison natural gas and a Trans Continental 26-inch, 600-psi, jet-fuel pipeline. To accommodate this work, Roux and CMI prepared to work night shifts for approximately two weeks to minimize disturbance to the shopping center and using only hand tools to eliminate potential damage to the utility pipelines.

3. Scope of Work

3.1 McDonald's Sanitary Sewer

By July 26th, work appeared imminent and CMI requested Roux coordinate roll-off container delivery and they contacted 811. Work, then scheduled to start on August 3rd, was once again postponed, this time to August 8th due to a request by Trans Continental. On the night of August 7th, Trans Continental met with CMI onsite to better understand the work involved. It is our speculation that the utility company was trying to determine if they should have full-time onsite oversight of the work. Trans Continental directed CMI to expose the bottom of the sewer pipe near the McDonald's property. Once the depth of the sewer pipe was fully understood by Trans Continental (approximately 3.5 feet below ground surface), they indicated that 1.) Their pipeline was sufficiently below this work depth and they no longer wanted to conduct their own oversight; and 2.) The plumbing contractor was authorized to use power equipment.

Roux's first day onsite was August 8th. A daily status report for August 8th is included as Appendix A. Oversight included establishing a community air monitoring plan ("CAMP") station downwind of the excavation (Figure 1). As a result of Trans Continental approving the use of power equipment, the work went smoothly and quickly, being completed on August 8th during normal working hours. The CAMP station included monitoring for both dust and volatile organic compounds ("VOCs") with the maximum concentration of the 15-minute average of dust being 0.039 milligrams per cubic meter ("mg/m³") and the maximum concentration of the 15-minute average of VOCs being 0.7 parts per million ("ppm"). There were no exceedances of action levels for either dust or VOCs. CAMP monitoring data collected on August 8th of dust and VOCs are presented in Table 1 and Table 2, respectively.

CMI wound up excavating a 38-foot-long trench, approximately 5-feet wide and 3.5-feet deep. Groundwater was not encountered. This excavation generated a little over 20 cubic yards of soil, which was placed into two 20-yard roll-off containers provided by AARCO Environmental Services Corp. of Lindenhurst, NY ("AARCO"). Observed soil lithology included primarily brown sand with varying amounts of silt and small amount of gravel. There was no evidence of odor and/or staining observed. CMI informed Roux during the planning phase of the work that they would backfill around the pipe with a washed crushed rock for drainage. Initially, the plan was for the entire excavation to be backfilled with this material; however, a decision was later made by CMI to use locally purchased washed rock as base with a quarry process ("QP" or quarter fine) above for the structural benefit of the road surface. A summary of this material is presented below in Section 3.3. CMI patched the excavation at the surface, restoring the parking lot.

3.2 Storm Sewer

As the sanitary sewer work was being planned, CMI was asked to inspect a storm sewer on the Coral Island Shopping Center property that wasn't functioning properly. This storm sewer was initially referred to as a zipper drain, however, it was more of a catch basin in the front of a large concrete pad used to stage garbage compactors that is connected by pipe to a second storm drain approximately 50-feet away. CMI's recommendation following inspection was for the storm sewer pipe to be replaced.

The asphalt parking lot over this storm drain was saw cut on August 8, 2023 with replacement taking place on August 9th. Roux was onsite on August 9th to oversee excavation. A daily status report for August 9th is included as Appendix A. Oversight included establishing a CAMP station downwind of the excavation (Figure 2). This work also went smoothly and quickly, being completed on August 9th during normal working

hours. The CAMP station included monitoring for both dust and VOCs with the maximum concentration of the 15-minute average of dust being 0.047 mg/m³ and the maximum concentration of the 15-minute average of VOCs being 0.8 ppm. There were no exceedances of action levels for either dust or VOCs. CAMP monitoring data collected on August 9th of dust and VOCs are presented in Table 1 and Table 2, respectively.

CMI wound up excavating a 51-foot-long trench, approximately 2.5-feet wide and 2.5-feet deep. Groundwater was not encountered. This excavation generated a little over 12 cubic yards of soil, which was placed into one 20-yard roll-off container provided by AARCO. Observed soil lithology included primarily brown sand with varying amounts of silt and small amount of gravel. There was no evidence of odor and/or staining observed. CMI used washed rock as base with QP above for the structural benefit of the parking lot (Section 3.3). CMI patched the excavation at the surface, restoring the parking lot.

3.3 Backfill Characterization

As discussed above, CMI purchased washed rock for the base of both sewer pipes and a quarry process ("QP" or quarter fine) for compacting above the washed rock as a base for the asphalt roadway and parking lot. The washed rock was a 3/4-inch bluestone purchased from Kings Building Materials at 3525 Victory Boulevard, Staten Island, NY. The QP was purchased from South Shore Material & Supply at 327 Industrial Loop, Staten Island, NY. The QP was sampled by Roux on August 9th for pesticides, PCBs, semivolatile organic compounds, metals, and VOCs and submitted for analysis to Alpha Analytical of Westborough, MA (NY 11148). Laboratory analytical results of the QP sampling is presented in Appendix B and summarized in Table 3. Analytical results were compared to NYSDEC Part 375 Unrestricted Use and Restricted Commercial Use standards. Those results included two compounds (4-4'-DDT and acetone) that slightly exceed Unrestricted Use standards. There were no compounds that exceeded Restricted Commercial Use standards. It has been assumed that the acetone is a result of laboratory contamination and not an actual compound in the backfill.

3.4 Waste Characterization and Disposal

As described above, soil excavated during this project was placed in two 20-cubic yard roll-off containers provided by AARCO. Containers were locked and placed on top of double-lined plastic sheeting and covered with tarp. Roux collected waste characterization samples on August 9th for PCBs, TCLP metals, TCLP semivolatile organic compounds, and TCLP VOCs all as requested by AARCO. Samples were submitted to Alpha Analytical for analysis. The waste characterization sample results are included as Appendix C and summarized in Table 4. Analytical results were compared to NYSDEC 375 Unrestricted Use standards (for PCBs) and NYSDEC Part 371 and Title 40 CFR Part 261 (for TCLP analyses). There were no analytes that exceeded their respective standards. AARCO was provided with the waste characterization data collected on August 9th and subsequently approved receipt of the soil. Roll-off containers were removed from the Site on August 17th and August 18th. In total 52.17 tons of soil were received by AARCO and consolidated by Dale Transfer of West Babylon, NY for disposal at Conestoga Landfill, Morgantown, PA. Waste manifests are included as Appendix D.

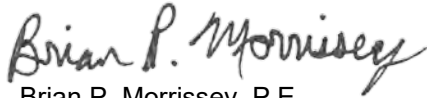
4. Summary

Two sections of sewer pipe, one sanitary pipe 38 feet long and the other a storm pipe 51 feet long, were replaced at the Site between August 7 and August 18, 2023. This work required excavation, sampling, and disposal of just over 52 tons of soil from under the parking lot of the Site. Excavation and backfill work was conducted with oversight by Roux as described above.

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



Michael Roux
Principal Hydrogeologist



Brian P. Morrissey, P.E.
Principal Engineer

**Sewer Repair Oversight
Coral Island Shopping Center
1650 Richmond Avenue, Staten Island, NY**

FIGURES

1. Site Plan – Sanitary Sewer
2. Site Plan – Storm Sewer



Title:			
SITE PLAN – SANITARY SEWER			
CORAL ISLAND SHOPPING CENTER STATEN ISLAND, NEW YORK			
Prepared for:			
WWP ASSOCIATES, LLP			
	Compiled by: M.R.	Date: 17APR24	FIGURE 1
	Prepared by: B.H.C.	Scale: AS SHOWN	
	Project Mgr: M.R.	Project: 1258.0001Y004	
	File: 1258.0001Y203.01.CDR		

1258Y0001Y203\1258.0001Y203.01.CDR



Title:			
SITE PLAN – STORM SEWER			
CORAL ISLAND SHOPPING CENTER STATEN ISLAND, NEW YORK			
Prepared for:			
WWP ASSOCIATES, LLP			
ROUX	Compiled by: M.R.	Date: 17APR24	FIGURE 2
	Prepared by: B.H.C.	Scale: AS SHOWN	
	Project Mgr: M.R.	Project: 1258.0001Y004	
	File: 1258.0001Y203.01.CDR		

1258Y0001Y203\1258.0001Y203.01.CDR

TABLES

1. CAMP Monitoring Data – Particulate Matter
2. CAMP Monitoring Data – Volatile Organic Compounds
3. Summary of Laboratory Analysis – QP Backfill
4. Summary of Laboratory Analysis – Waste Characterization

Table 1. Summary of CAMP Monitoring Data - Particulate Matter, Coral Island Shopping Center, Staten Island, NY

Project: Coral Island
 Project Number: 1258.0001Y004
 Location: 1650 Richmond Ave. Staten Island, NY 13014

Date: Tuesday, August 8, 2023	
Downwind Station	8530182505
Time	15-min Average (mg/m ³)
6:40:01 AM	0.025
6:55:01 AM	0.023
7:10:01 AM	0.021
7:25:01 AM	0.025
7:40:01 AM	0.039
7:55:01 AM	0.028
8:10:01 AM	0.026
8:25:01 AM	0.023
8:40:01 AM	0.022
8:55:01 AM	0.023
9:10:01 AM	0.025
9:25:01 AM	0.023
9:40:01 AM	0.026
9:55:01 AM	0.026
10:10:01 AM	0.032
10:25:01 AM	0.021
10:40:01 AM	0.029
10:55:01 AM	0.020
11:10:01 AM	0.021
11:25:01 AM	0.024
11:40:01 AM	0.036
11:55:01 AM	0.035
12:10:01 PM	0.017
12:25:01 PM	0.017
12:40:01 PM	0.014
12:55:01 PM	0.015
1:10:01 PM	0.015
1:25:01 PM	0.014
1:40:01 PM	0.014

Date: Wednesday, August 9, 2023	
Downwind Station	8530182505
Time	15-min Average (mg/m ³)
6:15:47 AM	0.036
6:30:47 AM	0.047
6:45:47 AM	0.038
7:00:47 AM	0.027
7:15:47 AM	0.023
7:30:47 AM	0.024
7:45:47 AM	0.024
8:00:47 AM	0.023
8:15:47 AM	0.025
8:30:47 AM	0.023
8:45:47 AM	0.023
9:00:47 AM	0.023
9:15:47 AM	0.024
9:30:47 AM	0.025
9:45:47 AM	0.025
10:00:47 AM	0.025
10:15:47 AM	0.026
10:30:47 AM	0.028
10:45:47 AM	0.029
11:00:47 AM	0.031
11:15:47 AM	0.033
11:30:47 AM	0.035
11:45:47 AM	0.038
12:00:47 PM	0.039
12:15:47 PM	0.040
12:30:47 PM	0.042

Legend

mg/m³ - milligrams per cubic meter

Table 2. Summary of CAMP Monitoring Data - Volatile Organic Compounds, Coral Island Shopping Center, Staten Island, NY

Project: Coral Island
 Project Number: 1258.0001Y004
 Location: 1650 Richmond Ave. Staten Island, NY 13014

Date: Tuesday, August 8, 2023	
Downwind Station	592-909025
Time	15-min Average (mg/m ³)
6:40:57 AM	0.1
6:55:57 AM	0.2
7:10:57 AM	0.2
7:25:57 AM	0.3
7:40:57 AM	0.3
7:55:57 AM	0.3
8:10:57 AM	0.3
8:25:57 AM	0.4
8:40:57 AM	0.4
8:55:57 AM	0.4
9:10:57 AM	0.5
9:25:57 AM	0.4
9:40:57 AM	0.5
9:55:57 AM	0.5
10:10:57 AM	0.5
10:25:57 AM	0.4
10:40:57 AM	0.5
10:55:57 AM	0.6
11:10:57 AM	0.7
11:25:57 AM	0.7
11:40:57 AM	0.7
11:55:57 AM	0.7
12:10:57 PM	0.6
12:25:57 PM	0.6
12:40:57 PM	0.6
12:55:57 PM	0.6
1:10:57 PM	0.7
1:25:57 PM	0.6
1:40:57 PM	0.5

Date: Wednesday, August 9, 2023	
Downwind Station	592-909025
Time	15-min Average (mg/m ³)
6:15:24 AM	0.1
6:30:24 AM	0.3
6:45:24 AM	0.3
7:00:24 AM	0.4
7:15:24 AM	0.4
7:30:24 AM	0.5
7:45:24 AM	0.5
8:00:24 AM	0.5
8:15:24 AM	0.6
8:30:24 AM	0.7
8:45:24 AM	0.7
9:00:24 AM	0.7
9:15:24 AM	0.7
9:30:24 AM	0.7
9:45:24 AM	0.7
10:00:24 AM	0.7
10:15:24 AM	0.7
10:30:24 AM	0.7
10:45:24 AM	0.7
11:00:24 AM	0.7
11:15:24 AM	0.7
11:30:24 AM	0.7
11:45:24 AM	0.7
12:00:24 PM	0.7
12:15:24 PM	0.8
12:30:24 PM	0.8

Legend

mg/m³ - milligrams per cubic meter

Table 3. Summary of Analytical Results - QP Backfill, Coral Island Shopping Center, Staten Island, NY

Sample Designation: IS-1
Sample Date: 8/9/2023
Sample Type: QP Backfill

Parameter	CasNum	NY-UNRES	NY-RESC	Units	Result
General Chemistry					
Solids, Total	NONE			%	90.1
Organochlorine Pesticides					
4,4'-DDD	72-54-8	0.0033	92	mg/kg	0.00174 U
4,4'-DDE	72-55-9	0.0033	62	mg/kg	0.00166 J
4,4'-DDT	50-29-3	0.0033	47	mg/kg	0.00384
Aldrin	309-00-2	0.005	0.68	mg/kg	0.00174 U
Alpha-BHC	319-84-6	0.02	3.4	mg/kg	0.000727 U
Beta-BHC	319-85-7	0.036	3	mg/kg	0.00174 U
Chlordane	57-74-9			mg/kg	0.0844
cis-Chlordane	5103-71-9	0.094	24	mg/kg	0.00936 IP
Delta-BHC	319-86-8	0.04	500	mg/kg	0.00174 U
Dieldrin	60-57-1	0.005	1.4	mg/kg	0.00109 U
Endosulfan I	959-98-8	2.4	200	mg/kg	0.00174 U
Endosulfan II	33213-65-9	2.4	200	mg/kg	0.00174 U
Endosulfan sulfate	1031-07-8	2.4	200	mg/kg	0.000727 U
Endrin	72-20-8	0.014	89	mg/kg	0.000727 U
Endrin aldehyde	7421-93-4			mg/kg	0.00218 U
Endrin ketone	53494-70-5			mg/kg	0.00174 U
Heptachlor	76-44-8	0.042	15	mg/kg	0.000549 JIP
Heptachlor epoxide	1024-57-3			mg/kg	0.00117 J
Lindane	58-89-9	0.1	9.2	mg/kg	0.000727 U
Methoxychlor	72-43-5			mg/kg	0.00327 U
Toxaphene	8001-35-2			mg/kg	0.0327 U
trans-Chlordane	5103-74-2			mg/kg	0.0151
Polychlorinated Biphenyls					
Aroclor 1016	12674-11-2	0.1	1	mg/kg	0.0544 U
Aroclor 1221	11104-28-2	0.1	1	mg/kg	0.0544 U
Aroclor 1232	11141-16-5	0.1	1	mg/kg	0.0544 U
Aroclor 1242	53469-21-9	0.1	1	mg/kg	0.0544 U
Aroclor 1248	12672-29-6	0.1	1	mg/kg	0.0544 U
Aroclor 1254	11097-69-1	0.1	1	mg/kg	0.018 J
Aroclor 1260	11096-82-5	0.1	1	mg/kg	0.0544 U
Aroclor 1262	37324-23-5	0.1	1	mg/kg	0.0544 U
Aroclor 1268	11100-14-4	0.1	1	mg/kg	0.0544 U
PCBs, Total	1336-36-3	0.1	1	mg/kg	0.018 J
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	95-94-3			mg/kg	0.18 U
1,2,4-Trichlorobenzene	120-82-1			mg/kg	0.18 U
1,2-Dichlorobenzene	95-50-1	1.1	500	mg/kg	0.18 U
1,3-Dichlorobenzene	541-73-1	2.4	280	mg/kg	0.18 U
1,4-Dichlorobenzene	106-46-7	1.8	130	mg/kg	0.18 U

Table 3. Summary of Analytical Results - QP Backfill, Coral Island Shopping Center, Staten Island, NY

Sample Designation: IS-1
Sample Date: 8/9/2023
Sample Type: QP Backfill

Parameter	CasNum	NY-UNRES	NY-RESC	Units	Result
1,4-Dioxane	123-91-1	0.1	130	mg/kg	0.027 U
2,4,5-Trichlorophenol	95-95-4			mg/kg	0.18 U
2,4,6-Trichlorophenol	88-06-2			mg/kg	0.11 U
2,4-Dichlorophenol	120-83-2			mg/kg	0.16 U
2,4-Dimethylphenol	105-67-9			mg/kg	0.18 U
2,4-Dinitrophenol	51-28-5			mg/kg	0.87 U
2,4-Dinitrotoluene	121-14-2			mg/kg	0.18 U
2,6-Dinitrotoluene	606-20-2			mg/kg	0.18 U
2-Chloronaphthalene	91-58-7			mg/kg	0.18 U
2-Chlorophenol	95-57-8			mg/kg	0.18 U
2-Methylnaphthalene	91-57-6			mg/kg	0.09 J
2-Methylphenol	95-48-7	0.33	500	mg/kg	0.18 U
2-Nitroaniline	88-74-4			mg/kg	0.18 U
2-Nitrophenol	88-75-5			mg/kg	0.39 U
3,3'-Dichlorobenzidine	91-94-1			mg/kg	0.18 U
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	0.33	500	mg/kg	0.26 U
3-Nitroaniline	99-09-2			mg/kg	0.18 U
4,6-Dinitro-o-cresol	534-52-1			mg/kg	0.47 U
4-Bromophenyl phenyl ether	101-55-3			mg/kg	0.18 U
4-Chloroaniline	106-47-8			mg/kg	0.18 U
4-Chlorophenyl phenyl ether	7005-72-3			mg/kg	0.18 U
4-Nitroaniline	100-01-6			mg/kg	0.18 U
4-Nitrophenol	100-02-7			mg/kg	0.25 U
Acenaphthene	83-32-9	20	500	mg/kg	0.12 J
Acenaphthylene	208-96-8	100	500	mg/kg	0.055 J
Acetophenone	98-86-2			mg/kg	0.18 U
Anthracene	120-12-7	100	500	mg/kg	0.32
Benzo(a)anthracene	56-55-3	1	5.6	mg/kg	0.52
Benzo(a)pyrene	50-32-8	1	1	mg/kg	0.41
Benzo(b)fluoranthene	205-99-2	1	5.6	mg/kg	0.5
Benzo(ghi)perylene	191-24-2	100	500	mg/kg	0.25
Benzo(k)fluoranthene	207-08-9	0.8	56	mg/kg	0.19
Benzoic Acid	65-85-0			mg/kg	0.59 U
Benzyl Alcohol	100-51-6			mg/kg	0.18 U
Biphenyl	92-52-4			mg/kg	0.024 J
Bis(2-chloroethoxy)methane	111-91-1			mg/kg	0.2 U
Bis(2-chloroethyl)ether	111-44-4			mg/kg	0.16 U
Bis(2-chloroisopropyl)ether	108-60-1			mg/kg	0.22 U
Bis(2-ethylhexyl)phthalate	117-81-7			mg/kg	0.082 J
Butyl benzyl phthalate	85-68-7			mg/kg	0.18 U
Carbazole	86-74-8			mg/kg	0.14 J
Chrysene	218-01-9	1	56	mg/kg	0.53
Dibenzo(a,h)anthracene	53-70-3	0.33	0.56	mg/kg	0.064 J
Dibenzofuran	132-64-9	7	350	mg/kg	0.11 J
Diethyl phthalate	84-66-2			mg/kg	0.18 U
Dimethyl phthalate	131-11-3			mg/kg	0.18 U

Table 3. Summary of Analytical Results - QP Backfill, Coral Island Shopping Center, Staten Island, NY

Sample Designation: IS-1
Sample Date: 8/9/2023
Sample Type: QP Backfill

Parameter	CasNum	NY-UNRES	NY-RESC	Units	Result
Di-n-butylphthalate	84-74-2			mg/kg	0.18 U
Di-n-octylphthalate	117-84-0			mg/kg	0.18 U
Fluoranthene	206-44-0	100	500	mg/kg	1.2
Fluorene	86-73-7	30	500	mg/kg	0.16 J
Hexachlorobenzene	118-74-1	0.33	6	mg/kg	0.11 U
Hexachlorobutadiene	87-68-3			mg/kg	0.18 U
Hexachlorocyclopentadiene	77-47-4			mg/kg	0.52 U
Hexachloroethane	67-72-1			mg/kg	0.14 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	mg/kg	0.27
Isophorone	78-59-1			mg/kg	0.16 U
Naphthalene	91-20-3	12	500	mg/kg	0.17 J
NDPA/DPA	86-30-6			mg/kg	0.14 U
Nitrobenzene	98-95-3			mg/kg	0.16 U
n-Nitrosodi-n-propylamine	621-64-7			mg/kg	0.18 U
p-Chloro-m-cresol	59-50-7			mg/kg	0.18 U
Pentachlorophenol	87-86-5	0.8	6.7	mg/kg	0.14 U
Phenanthrene	85-01-8	100	500	mg/kg	1.1
Phenol	108-95-2	0.33	500	mg/kg	0.18 U
Pyrene	129-00-0	100	500	mg/kg	1
Total Metals					
Aluminum, Total	7429-90-5			mg/kg	7480
Antimony, Total	7440-36-0			mg/kg	1.2 J
Arsenic, Total	7440-38-2	13	16	mg/kg	4.31
Barium, Total	7440-39-3	350	400	mg/kg	53.3
Beryllium, Total	7440-41-7	7.2	590	mg/kg	0.495
Cadmium, Total	7440-43-9	2.5	9.3	mg/kg	0.108 J
Calcium, Total	7440-70-2			mg/kg	87300
Chromium, Total	7440-47-3			mg/kg	35.8
Cobalt, Total	7440-48-4			mg/kg	4.44
Copper, Total	7440-50-8	50	270	mg/kg	23.2
Iron, Total	7439-89-6			mg/kg	11100
Lead, Total	7439-92-1	63	1000	mg/kg	20.4
Magnesium, Total	7439-95-4			mg/kg	9470
Manganese, Total	7439-96-5	1600	10000	mg/kg	198
Mercury, Total	7439-97-6	0.18	2.8	mg/kg	0.077 U
Nickel, Total	7440-02-0	30	310	mg/kg	11.6
Potassium, Total	7440-09-7			mg/kg	1190
Selenium, Total	7782-49-2	3.9	1500	mg/kg	1.71 U
Silver, Total	7440-22-4	2	1500	mg/kg	0.428 U
Sodium, Total	7440-23-5			mg/kg	455
Thallium, Total	7440-28-0			mg/kg	1.71 U
Vanadium, Total	7440-62-2			mg/kg	21.1
Zinc, Total	7440-66-6	109	10000	mg/kg	48.9
Volatile Organics					

Table 3. Summary of Analytical Results - QP Backfill, Coral Island Shopping Center, Staten Island, NY

Sample Designation: IS-1
Sample Date: 8/9/2023
Sample Type: QP Backfill

Parameter	CasNum	NY-UNRES	NY-RESC	Units	Result
1,1,1,2-Tetrachloroethane	630-20-6			mg/kg	0.00057 U
1,1,1-Trichloroethane	71-55-6	0.68	500	mg/kg	0.00057 U
1,1,2,2-Tetrachloroethane	79-34-5			mg/kg	0.00057 U
1,1,2-Trichloroethane	79-00-5			mg/kg	0.0011 U
1,1-Dichloroethane	75-34-3	0.27	240	mg/kg	0.0011 U
1,1-Dichloroethene	75-35-4	0.33	500	mg/kg	0.0011 U
1,1-Dichloropropene	563-58-6			mg/kg	0.00057 U
1,2,3-Trichlorobenzene	87-61-6			mg/kg	0.0023 U
1,2,3-Trichloropropane	96-18-4			mg/kg	0.0023 U
1,2,4,5-Tetramethylbenzene	95-93-2			mg/kg	0.00052 J
1,2,4-Trichlorobenzene	120-82-1			mg/kg	0.0023 U
1,2,4-Trimethylbenzene	95-63-6	3.6	190	mg/kg	0.00049 J
1,2-Dibromo-3-chloropropane	96-12-8			mg/kg	0.0034 U
1,2-Dibromoethane	106-93-4			mg/kg	0.0011 U
1,2-Dichlorobenzene	95-50-1	1.1	500	mg/kg	0.0023 U
1,2-Dichloroethane	107-06-2	0.02	30	mg/kg	0.0011 U
1,2-Dichloroethene, Total	540-59-0			mg/kg	0.0011 U
1,2-Dichloropropane	78-87-5			mg/kg	0.0011 U
1,3,5-Trimethylbenzene	108-67-8	8.4	190	mg/kg	0.0023 U
1,3-Dichlorobenzene	541-73-1	2.4	280	mg/kg	0.0023 U
1,3-Dichloropropane	142-28-9			mg/kg	0.0023 U
1,3-Dichloropropene, Total	542-75-6			mg/kg	0.00057 U
1,4-Dichlorobenzene	106-46-7	1.8	130	mg/kg	0.0023 U
1,4-Dioxane	123-91-1	0.1	130	mg/kg	0.091 U
2,2-Dichloropropane	594-20-7			mg/kg	0.0023 U
2-Butanone	78-93-3	0.12	500	mg/kg	0.0054 J
2-Hexanone	591-78-6			mg/kg	0.011 U
4-Methyl-2-pentanone	108-10-1			mg/kg	0.011 U
Acetone	67-64-1	0.05	500	mg/kg	0.057
Acrylonitrile	107-13-1			mg/kg	0.0046 U
Benzene	71-43-2	0.06	44	mg/kg	0.00057 U
Bromobenzene	108-86-1			mg/kg	0.0023 U
Bromochloromethane	74-97-5			mg/kg	0.0023 U
Bromodichloromethane	75-27-4			mg/kg	0.00057 U
Bromoform	75-25-2			mg/kg	0.0046 U
Bromomethane	74-83-9			mg/kg	0.0023 U
Carbon disulfide	75-15-0			mg/kg	0.011 U
Carbon tetrachloride	56-23-5	0.76	22	mg/kg	0.0011 U
Chlorobenzene	108-90-7	1.1	500	mg/kg	0.00057 U
Chloroethane	75-00-3			mg/kg	0.0023 U
Chloroform	67-66-3	0.37	350	mg/kg	0.0017 U
Chloromethane	74-87-3			mg/kg	0.0046 U
cis-1,2-Dichloroethene	156-59-2	0.25	500	mg/kg	0.0011 U
cis-1,3-Dichloropropene	10061-01-5			mg/kg	0.00057 U
Dibromochloromethane	124-48-1			mg/kg	0.0011 U
Dibromomethane	74-95-3			mg/kg	0.0023 U

Table 3. Summary of Analytical Results - QP Backfill, Coral Island Shopping Center, Staten Island, NY

Sample Designation: IS-1
Sample Date: 8/9/2023
Sample Type: QP Backfill

Parameter	CasNum	NY-UNRES	NY-RESC	Units	Result
Dichlorodifluoromethane	75-71-8			mg/kg	0.011 U
Ethyl ether	60-29-7			mg/kg	0.0023 U
Ethylbenzene	100-41-4	1	390	mg/kg	0.00016 J
Hexachlorobutadiene	87-68-3			mg/kg	0.0046 U
Isopropylbenzene	98-82-8			mg/kg	0.0011 U
Methyl tert butyl ether	1634-04-4	0.93	500	mg/kg	0.0023 U
Methylene chloride	75-09-2	0.05	500	mg/kg	0.0057 U
Naphthalene	91-20-3	12	500	mg/kg	0.0062
n-Butylbenzene	104-51-8	12	500	mg/kg	0.0011 U
n-Propylbenzene	103-65-1	3.9	500	mg/kg	0.0011 U
o-Chlorotoluene	95-49-8			mg/kg	0.0023 U
o-Xylene	95-47-6			mg/kg	0.0011 U
p/m-Xylene	179601-23-1			mg/kg	0.0023 U
p-Chlorotoluene	106-43-4			mg/kg	0.0023 U
p-Diethylbenzene	105-05-5			mg/kg	0.00042 J
p-Ethyltoluene	622-96-8			mg/kg	0.0023 U
p-Isopropyltoluene	99-87-6			mg/kg	0.0011 U
sec-Butylbenzene	135-98-8	11	500	mg/kg	0.0011 U
Styrene	100-42-5			mg/kg	0.0011 U
tert-Butylbenzene	98-06-6	5.9	500	mg/kg	0.0023 U
Tetrachloroethene	127-18-4	1.3	150	mg/kg	0.00057 U
Toluene	108-88-3	0.7	500	mg/kg	0.0011 U
trans-1,2-Dichloroethene	156-60-5	0.19	500	mg/kg	0.0017 U
trans-1,3-Dichloropropene	10061-02-6			mg/kg	0.0011 U
trans-1,4-Dichloro-2-butene	110-57-6			mg/kg	0.0057 U
Trichloroethene	79-01-6	0.47	200	mg/kg	0.00057 U
Trichlorofluoromethane	75-69-4			mg/kg	0.0046 U
Vinyl acetate	108-05-4			mg/kg	0.011 U
Vinyl chloride	75-01-4	0.02	13	mg/kg	0.0011 U
Xylenes, Total	1330-20-7	0.26	500	mg/kg	0.0011 U

Legend:

Cas Num	Chemical Abstract Service Registry Number
IP	Interference resulting in method exceedance
J	Estimated concentration
mg/kg	Milligrams per kilogram
NY-RESC	Part 375 Commercial Criteria
NY-UNRES	Part 375 Unrestricted Use Criteria
shaded	Concentration exceeds NY-UNRES
U	Not detected above reported detection limit

Table 4. Summary of Laboratory Analysis - Waste Characterization, Coral Island Shopping Center, Staten Island, NY

Sample Designation: WC-1
 Sample Date: 8/9/2023
 Sample Type: Waste Characterization

Parameter	CasNum	EPA-TCLP	NY-UNRES	Units	Results
General Chemistry					
Solids, Total	NONE			%	81.5
pH (H)	12408-02-5			SU	9.26
Polychlorinated Biphenyls					
Aroclor 1016	12674-11-2		0.1	mg/kg	0.0568 U
Aroclor 1221	11104-28-2		0.1	mg/kg	0.0568 U
Aroclor 1232	11141-16-5		0.1	mg/kg	0.0568 U
Aroclor 1242	53469-21-9		0.1	mg/kg	0.0568 U
Aroclor 1248	12672-29-6		0.1	mg/kg	0.0568 U
Aroclor 1254	11097-69-1		0.1	mg/kg	0.0218 J
Aroclor 1260	11096-82-5		0.1	mg/kg	0.0568 U
Aroclor 1262	37324-23-5		0.1	mg/kg	0.0568 U
Aroclor 1268	11100-14-4		0.1	mg/kg	0.0568 U
PCBs, Total	1336-36-3		0.1	mg/kg	0.0218 J
TCLP Metals					
Arsenic, TCLP	7440-38-2	5		mg/l	1 U
Barium, TCLP	7440-39-3	100		mg/l	0.422 J
Cadmium, TCLP	7440-43-9	1		mg/l	0.1 U
Chromium, TCLP	7440-47-3	5		mg/l	0.2 U
Lead, TCLP	7439-92-1	5		mg/l	0.0742 J
Mercury, TCLP	7439-97-6	0.2		mg/l	0.001 U
Selenium, TCLP	7782-49-2	1		mg/l	0.5 U
Silver, TCLP	7440-22-4	5		mg/l	0.1 U
TCLP Semivolatiles					
Hexachlorobenzene	118-74-1	0.13	0.33	mg/l	0.01 U
2,4-Dinitrotoluene	121-14-2	0.13		mg/l	0.025 U
Hexachlorobutadiene	87-68-3	0.5		mg/l	0.01 U
Hexachloroethane	67-72-1	3		mg/l	0.01 U
Nitrobenzene	98-95-3	2		mg/l	0.01 U
2,4,6-Trichlorophenol	88-06-2	2		mg/l	0.025 U
Pentachlorophenol	87-86-5	100	0.8	mg/l	0.05 U
2-Methylphenol	95-48-7	200	0.33	mg/l	0.025 U
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	200	0.33	mg/l	0.025 U
2,4,5-Trichlorophenol	95-95-4	400		mg/l	0.025 U
Pyridine	110-86-1	5		mg/l	0.018 U
TCLP Volatiles					
Chloroform	67-66-3	6	0.37	mg/l	0.0075 U
Carbon tetrachloride	56-23-5	0.5	0.76	mg/l	0.005 U
Tetrachloroethene	127-18-4	0.7	1.3	mg/l	0.005 U
Chlorobenzene	108-90-7	100	1.1	mg/l	0.005 U
1,2-Dichloroethane	107-06-2	0.5	0.02	mg/l	0.005 U
Benzene	71-43-2	0.5	0.06	mg/l	0.005 U
Vinyl chloride	75-01-4	0.2	0.02	mg/l	0.01 U
1,1-Dichloroethene	75-35-4	0.7	0.33	mg/l	0.005 U
Trichloroethene	79-01-6	0.5	0.47	mg/l	0.005 U
1,4-Dichlorobenzene	106-46-7	7.5	1.8	mg/l	0.025 U

Table 4. Summary of Laboratory Analysis - Waste Characterization, Coral Island Shopping Center, Staten Island, NY

Sample Designation: WC-1
Sample Date: 8/9/2023
Sample Type: Waste Characterization

Parameter	CasNum	EPA-TCLP	NY-UNRES	Units	Results
2-Butanone	78-93-3	200	0.12	mg/l	0.05 U

Legend:

Cas Num	Chemical Abstract Service Registry Number
EPA-TCLP	EPA Toxicity Characteristic Criteria
J	Estimated concentration
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
NY-UNRES	Part 375 Unrestricted Use Criteria
shaded	Concentration exceeds NY-UNRES
U	Not detected above reported detection limit

APPENDICES

- A. Daily Status Reports
- B. Laboratory Analytical Data – Quarry Process Backfill
- C. Laboratory Analytical Data – Waste Characterization Sample
- D. Waste Manifests

APPENDIX A

Daily Status Reports

DAILY STATUS REPORT

Prepared By: Christine Mosley

WEATHER	Snow	Rain	Overcast	Partly Cloudy	<input checked="" type="checkbox"/>	Bright Sun
TEMP.	< 32	32-50	50-70	70-85	<input checked="" type="checkbox"/>	>85

BCP Project No.:	C243033	Date:	8/8/2023
Project Name:	Coral Island Shopping Center – Sewer Replacement		

Consultant: <ul style="list-style-type: none">Michael Roux, Roux EnvironmentalBrian Morrissey, Roux Environmental	Site Oversight: Christine Mosley, Roux Environmental
General Contractor: Carmine's Mechanical, Inc.	Site Manager/ Supervisor: Helen Vitaliano, Rivercrest Realty

Work Activities Performed:

- Excavated a 38' x 5' x 42" trench.
- Placed excavated soil into Arco roll-off containers.
- Place and connect the new sewer line pipe into trench.
- Backfilled with crushed rock and QP and paved trench.

Samples Collected (Since Last Report):

Air Monitoring (Since Last Report):
CAMP was conducted from 06:40 to 14:40. The CAMP station location was chosen based on wind direction, accessibility, and safety. The CAMP station was located downwind of any subsurface, intrusive work. The maximum concentration of VOCs was 0.7 parts per million (ppm). The maximum concentration for dust was 0.039 milligrams per cubic meter (mg/m³).

Problems Encountered:
No problems encountered.

Planned Activities for the Next Day/ Week:
Remobilize to a second area where there will be a second sewer replacement.



Photo 1: Looking southwest. View of CAMP station downwind of active excavation work.



Photo 2: View of stone placed as bedding in trench.



Photo 3: Looking south. View of Carmine wet saw cutting second trench in preparation for excavation the following day.



Photo 4: Looking southeast. View of Carmine placing and compacting asphalt.

Coral Island Shopping Center



DAILY STATUS REPORT

Prepared By: Christine Mosley

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50		50-70		70-85		>85	X

BCP Project No.:	C243033			Date:	8/9/2023
Project Name:	Coral Island Shopping Center – Sewer Replacement				

Consultant: <ul style="list-style-type: none">Michael Roux, Roux EnvironmentalBrian Morrissey, Roux EnvironmentalStephen Loonie, Roux Environmental	Site Oversight: Christine Mosley, Roux Environmental
General Contractor: Carmine's Mechanical, Inc.	Site Manager/ Supervisor: Helen Vitaliano, Rivercrest Realty
Work Activities Performed: <ul style="list-style-type: none">Excavated a 51' x 32" x 30" trench.Placed excavated soil into Arco roll-off containers.Place and connect the new sewer line pipe into trench.Backfilled with crushed stone and QP and paved trench.	
Samples Collected (Since Last Report): <ul style="list-style-type: none">Waste characterization samples: WC-1 and IS-1.	
Air Monitoring (Since Last Report): CAMP was conducted from 06:15 to 12:30. The CAMP station location was chosen based on wind direction, accessibility, and safety. The CAMP station was located downwind of any subsurface, intrusive work. The maximum concentration of VOCs was 0.8 parts per million (ppm). The maximum concentration for dust was 0.047 milligrams per cubic meter (mg/m ³).	
Problems Encountered: No problems encountered.	
Planned Activities for the Next Day/ Week: <ul style="list-style-type: none">Export roughly 40 Cubic Yards (CY) of soil off-Site.	



Photo 1: Looking east. View of beginning of excavation for second sewer line replacement.



Photo 2: Looking east. View of new sewer line piping placed inside of trench.



Photo 3: Looking west. View of new sewer piping with backfilled material and workers compacting material.



Photo 4: Looking west. View of finished work zone.

Coral Island Shopping Center



APPENDIX B

Laboratory Analytical Data – Quarry Process Backfill



ANALYTICAL REPORT

Lab Number:	L2346033
Client:	Roux Env. Eng. & Geology, DPC 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Stephen Loonie
Phone:	(631) 630-2379
Project Name:	CORAL ISLAND
Project Number:	1258.0001Y
Report Date:	08/23/23

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), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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



Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2346033-01	IS-1	SOIL	1650 RICHMOND AVE. STATEN ISLAND, NY 10314	08/09/23 09:30	08/09/23

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

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: L2346033
Report Date: 08/23/23

Case Narrative (continued)

Report Submission

August 23, 2023: This final report includes the results of all requested analyses.

August 16, 2023: This is a preliminary report.

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

Volatile Organics

L2346033-01: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (29%), possibly due to the matrix effect caused by the high pH of the sample (>10).

L2346033-01: The sample was received in appropriate containers (encores) for the Volatile Organics by EPA Method 5035/8260 analysis; however, they could not be used for analysis. With the client's authorization, a sample aliquot was taken from an unpreserved container (jar) and preserved appropriately. Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Semivolatile Organics

L2346033-01: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (5%) and 2,4,6-tribromophenol (5%); however, re-extraction achieved similar results: 2-fluorophenol (2%) and 2,4,6-tribromophenol (1%). Only the results of the original analysis are reported; however, all associated compounds are considered to have a potential bias.

Total Metals

L2346033-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

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:



Kelly O'Neill

Title: Technical Director/Representative

Date: 08/23/23

ORGANICS

VOLATILES

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

SAMPLE RESULTS

Lab ID: L2346033-01
 Client ID: IS-1
 Sample Location: 1650 RICHMOND AVE. STATEN ISLAND, NY 10314

Date Collected: 08/09/23 09:30
 Date Received: 08/09/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 08/15/23 17:40
 Analyst: LAC
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.79	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.57	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	0.16	J	ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: CORAL ISLAND

Lab Number: L2346033

Project Number: 1258.0001Y

Report Date: 08/23/23

SAMPLE RESULTS

Lab ID: L2346033-01

Date Collected: 08/09/23 09:30

Client ID: IS-1

Date Received: 08/09/23

Sample Location: 1650 RICHMOND AVE. STATEN ISLAND, NY 10314

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	57		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	5.4	J	ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	6.2		ug/kg	4.6	0.74	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: CORAL ISLAND

Lab Number: L2346033

Project Number: 1258.0001Y

Report Date: 08/23/23

SAMPLE RESULTS

Lab ID: L2346033-01

Date Collected: 08/09/23 09:30

Client ID: IS-1

Date Received: 08/09/23

Sample Location: 1650 RICHMOND AVE. STATEN ISLAND, NY 10314

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	0.49	J	ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	91	40.	1
p-Diethylbenzene	0.42	J	ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	0.52	J	ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	29	Q	70-130

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/15/23 09:57
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1816575-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/15/23 09:57
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1816575-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260D
Analytical Date: 08/15/23 09:57
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1816575-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND

Lab Number: L2346033

Project Number: 1258.0001Y

Report Date: 08/23/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1816575-3 WG1816575-4								
Methylene chloride	100		91		70-130	9		30
1,1-Dichloroethane	115		106		70-130	8		30
Chloroform	103		94		70-130	9		30
Carbon tetrachloride	91		85		70-130	7		30
1,2-Dichloropropane	114		104		70-130	9		30
Dibromochloromethane	96		88		70-130	9		30
1,1,2-Trichloroethane	102		93		70-130	9		30
Tetrachloroethene	84		80		70-130	5		30
Chlorobenzene	91		84		70-130	8		30
Trichlorofluoromethane	93		87		70-139	7		30
1,2-Dichloroethane	109		98		70-130	11		30
1,1,1-Trichloroethane	101		93		70-130	8		30
Bromodichloromethane	104		95		70-130	9		30
trans-1,3-Dichloropropene	98		89		70-130	10		30
cis-1,3-Dichloropropene	109		99		70-130	10		30
1,1-Dichloropropene	109		100		70-130	9		30
Bromoform	89		79		70-130	12		30
1,1,2,2-Tetrachloroethane	109		93		70-130	16		30
Benzene	106		97		70-130	9		30
Toluene	92		86		70-130	7		30
Ethylbenzene	94		88		70-130	7		30
Chloromethane	122		109		52-130	11		30
Bromomethane	100		98		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1816575-3 WG1816575-4								
Vinyl chloride	103		93		67-130	10		30
Chloroethane	120		111		50-151	8		30
1,1-Dichloroethene	102		95		65-135	7		30
trans-1,2-Dichloroethene	103		96		70-130	7		30
Trichloroethene	103		98		70-130	5		30
1,2-Dichlorobenzene	88		81		70-130	8		30
1,3-Dichlorobenzene	88		82		70-130	7		30
1,4-Dichlorobenzene	88		82		70-130	7		30
Methyl tert butyl ether	124		109		66-130	13		30
p/m-Xylene	90		84		70-130	7		30
o-Xylene	90		84		70-130	7		30
cis-1,2-Dichloroethene	103		94		70-130	9		30
Dibromomethane	102		92		70-130	10		30
Styrene	89		83		70-130	7		30
Dichlorodifluoromethane	86		96		30-146	11		30
Acetone	141	Q	118		54-140	18		30
Carbon disulfide	99		92		59-130	7		30
2-Butanone	145	Q	119		70-130	20		30
Vinyl acetate	117		87		70-130	29		30
4-Methyl-2-pentanone	128		110		70-130	15		30
1,2,3-Trichloropropane	106		93		68-130	13		30
2-Hexanone	135	Q	116		70-130	15		30
Bromochloromethane	103		93		70-130	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1816575-3 WG1816575-4								
2,2-Dichloropropane	96		88		70-130	9		30
1,2-Dibromoethane	100		89		70-130	12		30
1,3-Dichloropropane	100		91		69-130	9		30
1,1,1,2-Tetrachloroethane	92		85		70-130	8		30
Bromobenzene	87		80		70-130	8		30
n-Butylbenzene	92		86		70-130	7		30
sec-Butylbenzene	92		87		70-130	6		30
tert-Butylbenzene	91		85		70-130	7		30
o-Chlorotoluene	92		85		70-130	8		30
p-Chlorotoluene	94		88		70-130	7		30
1,2-Dibromo-3-chloropropane	93		81		68-130	14		30
Hexachlorobutadiene	84		78		67-130	7		30
Isopropylbenzene	92		86		70-130	7		30
p-Isopropyltoluene	91		85		70-130	7		30
Naphthalene	100		90		70-130	11		30
Acrylonitrile	148	Q	127		70-130	15		30
n-Propylbenzene	96		90		70-130	6		30
1,2,3-Trichlorobenzene	77		71		70-130	8		30
1,2,4-Trichlorobenzene	89		83		70-130	7		30
1,3,5-Trimethylbenzene	93		87		70-130	7		30
1,2,4-Trimethylbenzene	94		87		70-130	8		30
1,4-Dioxane	125		104		65-136	18		30
p-Diethylbenzene	92		86		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND

Project Number: 1258.0001Y

Lab Number: L2346033

Report Date: 08/23/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1816575-3 WG1816575-4								
p-Ethyltoluene	96		89		70-130	8		30
1,2,4,5-Tetramethylbenzene	97		90		70-130	7		30
Ethyl ether	127		113		67-130	12		30
trans-1,4-Dichloro-2-butene	120		106		70-130	12		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		105		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	109		110		70-130
Dibromofluoromethane	101		99		70-130

SEMIVOLATILES

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

SAMPLE RESULTS

Lab ID: L2346033-01
 Client ID: IS-1
 Sample Location: 1650 RICHMOND AVE. STATEN ISLAND, NY 10314

Date Collected: 08/09/23 09:30
 Date Received: 08/09/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 08/12/23 09:31
 Analyst: JG
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 08/11/23 08:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	1200		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	170	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	82	J	ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: CORAL ISLAND

Lab Number: L2346033

Project Number: 1258.0001Y

Report Date: 08/23/23

SAMPLE RESULTS

Lab ID: L2346033-01

Date Collected: 08/09/23 09:30

Client ID: IS-1

Date Received: 08/09/23

Sample Location: 1650 RICHMOND AVE. STATEN ISLAND, NY 10314

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	520		ug/kg	110	20.	1
Benzo(a)pyrene	410		ug/kg	140	44.	1
Benzo(b)fluoranthene	500		ug/kg	110	30.	1
Benzo(k)fluoranthene	190		ug/kg	110	29.	1
Chrysene	530		ug/kg	110	19.	1
Acenaphthylene	55	J	ug/kg	140	28.	1
Anthracene	320		ug/kg	110	35.	1
Benzo(ghi)perylene	250		ug/kg	140	21.	1
Fluorene	160	J	ug/kg	180	18.	1
Phenanthrene	1100		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	64	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	270		ug/kg	140	25.	1
Pyrene	1000		ug/kg	110	18.	1
Biphenyl	24	J	ug/kg	410	24.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	110	J	ug/kg	180	17.	1
2-Methylnaphthalene	90	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: CORAL ISLAND**Lab Number:** L2346033**Project Number:** 1258.0001Y**Report Date:** 08/23/23**SAMPLE RESULTS**

Lab ID: L2346033-01

Date Collected: 08/09/23 09:30

Client ID: IS-1

Date Received: 08/09/23

Sample Location: 1650 RICHMOND AVE. STATEN ISLAND, NY 10314

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	140	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	5	Q	25-120
Phenol-d6	22		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	5	Q	10-136
4-Terphenyl-d14	72		18-120

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/10/23 21:30
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 08/10/23 09:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1814257-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/10/23 21:30
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 08/10/23 09:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1814257-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	22.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270E
Analytical Date: 08/10/23 21:30
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 08/10/23 09:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1814257-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	78		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1814257-2 WG1814257-3								
Acenaphthene	74		68		31-137	8		50
1,2,4-Trichlorobenzene	76		69		38-107	10		50
Hexachlorobenzene	80		74		40-140	8		50
Bis(2-chloroethyl)ether	77		70		40-140	10		50
2-Chloronaphthalene	79		72		40-140	9		50
1,2-Dichlorobenzene	75		69		40-140	8		50
1,3-Dichlorobenzene	74		69		40-140	7		50
1,4-Dichlorobenzene	75		70		28-104	7		50
3,3'-Dichlorobenzidine	67		60		40-140	11		50
2,4-Dinitrotoluene	91		80		40-132	13		50
2,6-Dinitrotoluene	88		81		40-140	8		50
Fluoranthene	81		73		40-140	10		50
4-Chlorophenyl phenyl ether	77		70		40-140	10		50
4-Bromophenyl phenyl ether	79		74		40-140	7		50
Bis(2-chloroisopropyl)ether	77		71		40-140	8		50
Bis(2-chloroethoxy)methane	79		71		40-117	11		50
Hexachlorobutadiene	76		69		40-140	10		50
Hexachlorocyclopentadiene	79		71		40-140	11		50
Hexachloroethane	74		70		40-140	6		50
Isophorone	78		71		40-140	9		50
Naphthalene	78		76		40-140	3		50
Nitrobenzene	82		74		40-140	10		50
NDPA/DPA	80		73		36-157	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1814257-2 WG1814257-3								
n-Nitrosodi-n-propylamine	79		72		32-121	9		50
Bis(2-ethylhexyl)phthalate	87		79		40-140	10		50
Butyl benzyl phthalate	92		82		40-140	11		50
Di-n-butylphthalate	85		75		40-140	13		50
Di-n-octylphthalate	91		84		40-140	8		50
Diethyl phthalate	81		73		40-140	10		50
Dimethyl phthalate	79		72		40-140	9		50
Benzo(a)anthracene	80		73		40-140	9		50
Benzo(a)pyrene	88		81		40-140	8		50
Benzo(b)fluoranthene	80		75		40-140	6		50
Benzo(k)fluoranthene	82		74		40-140	10		50
Chrysene	81		74		40-140	9		50
Acenaphthylene	80		72		40-140	11		50
Anthracene	83		73		40-140	13		50
Benzo(ghi)perylene	80		73		40-140	9		50
Fluorene	80		72		40-140	11		50
Phenanthrene	79		72		40-140	9		50
Dibenzo(a,h)anthracene	80		72		40-140	11		50
Indeno(1,2,3-cd)pyrene	81		74		40-140	9		50
Pyrene	81		73		35-142	10		50
Biphenyl	71		65		37-127	9		50
4-Chloroaniline	68		58		40-140	16		50
2-Nitroaniline	94		86		47-134	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1814257-2 WG1814257-3								
3-Nitroaniline	84		76		26-129	10		50
4-Nitroaniline	89		81		41-125	9		50
Dibenzofuran	80		72		40-140	11		50
2-Methylnaphthalene	81		73		40-140	10		50
1,2,4,5-Tetrachlorobenzene	71		65		40-117	9		50
Acetophenone	70		64		14-144	9		50
2,4,6-Trichlorophenol	85		78		30-130	9		50
p-Chloro-m-cresol	86		79		26-103	8		50
2-Chlorophenol	83		75		25-102	10		50
2,4-Dichlorophenol	83		76		30-130	9		50
2,4-Dimethylphenol	84		76		30-130	10		50
2-Nitrophenol	92		85		30-130	8		50
4-Nitrophenol	92		86		11-114	7		50
2,4-Dinitrophenol	75		74		4-130	1		50
4,6-Dinitro-o-cresol	89		79		10-130	12		50
Pentachlorophenol	83		75		17-109	10		50
Phenol	82		75		26-90	9		50
2-Methylphenol	82		75		30-130.	9		50
3-Methylphenol/4-Methylphenol	81		75		30-130	8		50
2,4,5-Trichlorophenol	86		78		30-130	10		50
Benzoic Acid	31		40		10-110	25		50
Benzyl Alcohol	83		75		40-140	10		50
Carbazole	82		74		54-128	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND

Lab Number: L2346033

Project Number: 1258.0001Y

Report Date: 08/23/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1814257-2 WG1814257-3								
1,4-Dioxane	55		54		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		70		25-120
Phenol-d6	75		68		10-120
Nitrobenzene-d5	76		69		23-120
2-Fluorobiphenyl	71		65		30-120
2,4,6-Tribromophenol	77		72		10-136
4-Terphenyl-d14	72		65		18-120

PCBS

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

SAMPLE RESULTS

Lab ID: L2346033-01
Client ID: IS-1
Sample Location: 1650 RICHMOND AVE. STATEN ISLAND, NY 10314

Date Collected: 08/09/23 09:30
Date Received: 08/09/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 08/12/23 03:28
Analyst: MEO
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 08/11/23 08:16
Cleanup Method: EPA 3665A
Cleanup Date: 08/11/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/11/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	54.4	4.83	1	A
Aroclor 1221	ND		ug/kg	54.4	5.45	1	A
Aroclor 1232	ND		ug/kg	54.4	11.5	1	A
Aroclor 1242	ND		ug/kg	54.4	7.33	1	A
Aroclor 1248	ND		ug/kg	54.4	8.16	1	A
Aroclor 1254	18.0	J	ug/kg	54.4	5.95	1	A
Aroclor 1260	ND		ug/kg	54.4	10.0	1	B
Aroclor 1262	ND		ug/kg	54.4	6.91	1	A
Aroclor 1268	ND		ug/kg	54.4	5.64	1	A
PCBs, Total	18.0	J	ug/kg	54.4	4.83	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 08/10/23 23:21
Analyst: AD

Extraction Method: EPA 3546
Extraction Date: 08/10/23 10:35
Cleanup Method: EPA 3665A
Cleanup Date: 08/10/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/10/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1814303-1						
Aroclor 1016	ND		ug/kg	45.7	4.06	A
Aroclor 1221	ND		ug/kg	45.7	4.58	A
Aroclor 1232	ND		ug/kg	45.7	9.69	A
Aroclor 1242	ND		ug/kg	45.7	6.16	A
Aroclor 1248	ND		ug/kg	45.7	6.86	A
Aroclor 1254	ND		ug/kg	45.7	5.00	A
Aroclor 1260	ND		ug/kg	45.7	8.45	A
Aroclor 1262	ND		ug/kg	45.7	5.80	A
Aroclor 1268	ND		ug/kg	45.7	4.73	A
PCBs, Total	ND		ug/kg	45.7	4.06	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	55		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1814303-2 WG1814303-3									
Aroclor 1016	70		74		40-140	6		50	A
Aroclor 1260	66		71		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		74		30-150	A
Decachlorobiphenyl	61		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		68		30-150	B
Decachlorobiphenyl	56		62		30-150	B

PESTICIDES

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

SAMPLE RESULTS

Lab ID: L2346033-01
Client ID: IS-1
Sample Location: 1650 RICHMOND AVE. STATEN ISLAND, NY 10314

Date Collected: 08/09/23 09:30
Date Received: 08/09/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/12/23 14:39
Analyst: AR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 08/11/23 08:18
Cleanup Method: EPA 3620B
Cleanup Date: 08/12/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/12/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.342	1	A
Lindane	ND		ug/kg	0.727	0.325	1	A
Alpha-BHC	ND		ug/kg	0.727	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.661	1	A
Heptachlor	0.549	JIP	ug/kg	0.872	0.391	1	B
Aldrin	ND		ug/kg	1.74	0.614	1	B
Heptachlor epoxide	1.17	J	ug/kg	3.27	0.981	1	A
Endrin	ND		ug/kg	0.727	0.298	1	A
Endrin aldehyde	ND		ug/kg	2.18	0.763	1	A
Endrin ketone	ND		ug/kg	1.74	0.449	1	A
Dieldrin	ND		ug/kg	1.09	0.545	1	A
4,4'-DDE	1.66	J	ug/kg	1.74	0.403	1	A
4,4'-DDD	ND		ug/kg	1.74	0.622	1	A
4,4'-DDT	3.84		ug/kg	1.74	1.40	1	B
Endosulfan I	ND		ug/kg	1.74	0.412	1	A
Endosulfan II	ND		ug/kg	1.74	0.583	1	A
Endosulfan sulfate	ND		ug/kg	0.727	0.346	1	A
Methoxychlor	ND		ug/kg	3.27	1.02	1	A
Toxaphene	ND		ug/kg	32.7	9.16	1	A
cis-Chlordane	9.36	IP	ug/kg	2.18	0.608	1	B
trans-Chlordane	15.1		ug/kg	2.18	0.576	1	A
Chlordane	84.4		ug/kg	14.5	5.78	1	B

Project Name: CORAL ISLAND**Lab Number:** L2346033**Project Number:** 1258.0001Y**Report Date:** 08/23/23**SAMPLE RESULTS**

Lab ID: L2346033-01

Date Collected: 08/09/23 09:30

Client ID: IS-1

Date Received: 08/09/23

Sample Location: 1650 RICHMOND AVE. STATEN ISLAND, NY 10314

Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	92		30-150	B

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/11/23 09:23
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 08/10/23 11:30
Cleanup Method: EPA 3620B
Cleanup Date: 08/11/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/11/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1814338-1						
Delta-BHC	ND		ug/kg	1.54	0.301	A
Lindane	ND		ug/kg	0.641	0.286	A
Alpha-BHC	ND		ug/kg	0.641	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.583	A
Heptachlor	ND		ug/kg	0.769	0.345	A
Aldrin	ND		ug/kg	1.54	0.542	A
Heptachlor epoxide	ND		ug/kg	2.88	0.865	A
Endrin	ND		ug/kg	0.641	0.263	A
Endrin aldehyde	ND		ug/kg	1.92	0.673	A
Endrin ketone	ND		ug/kg	1.54	0.396	A
Dieldrin	ND		ug/kg	0.962	0.481	A
4,4'-DDE	ND		ug/kg	1.54	0.356	A
4,4'-DDD	ND		ug/kg	1.54	0.549	A
4,4'-DDT	ND		ug/kg	1.54	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.363	A
Endosulfan II	ND		ug/kg	1.54	0.514	A
Endosulfan sulfate	ND		ug/kg	0.641	0.305	A
Methoxychlor	ND		ug/kg	2.88	0.897	A
Toxaphene	ND		ug/kg	28.8	8.08	A
cis-Chlordane	ND		ug/kg	1.92	0.536	A
trans-Chlordane	ND		ug/kg	1.92	0.508	A
Chlordane	ND		ug/kg	12.8	5.10	A

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/11/23 09:23
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 08/10/23 11:30
Cleanup Method: EPA 3620B
Cleanup Date: 08/11/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/11/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1814338-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	75		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND

Project Number: 1258.0001Y

Lab Number: L2346033

Report Date: 08/23/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1814338-2 WG1814338-3									
Delta-BHC	84		83		30-150	1		30	A
Lindane	73		72		30-150	1		30	A
Alpha-BHC	71		70		30-150	1		30	A
Beta-BHC	76		76		30-150	0		30	A
Heptachlor	78		78		30-150	0		30	A
Aldrin	74		72		30-150	3		30	A
Heptachlor epoxide	66		65		30-150	2		30	A
Endrin	81		78		30-150	4		30	A
Endrin aldehyde	61		60		30-150	2		30	A
Endrin ketone	80		80		30-150	0		30	A
Dieldrin	82		80		30-150	2		30	A
4,4'-DDE	79		77		30-150	3		30	A
4,4'-DDD	85		82		30-150	4		30	A
4,4'-DDT	88		84		30-150	5		30	A
Endosulfan I	75		74		30-150	1		30	A
Endosulfan II	80		78		30-150	3		30	A
Endosulfan sulfate	63		64		30-150	2		30	A
Methoxychlor	86		82		30-150	5		30	A
cis-Chlordane	69		66		30-150	4		30	A
trans-Chlordane	85		82		30-150	4		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND

Project Number: 1258.0001Y

Lab Number: L2346033

Report Date: 08/23/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1814338-2 WG1814338-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		63		30-150	A
Decachlorobiphenyl	93		90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		58		30-150	B
Decachlorobiphenyl	78		73		30-150	B

METALS

Project Name: CORAL ISLAND

Lab Number: L2346033

Project Number: 1258.0001Y

Report Date: 08/23/23

SAMPLE RESULTS

Lab ID: L2346033-01

Date Collected: 08/09/23 09:30

Client ID: IS-1

Date Received: 08/09/23

Sample Location: 1650 RICHMOND AVE. STATEN ISLAND, NY
10314

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7480		mg/kg	8.56	2.31	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Antimony, Total	1.20	J	mg/kg	4.28	0.325	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Arsenic, Total	4.31		mg/kg	0.856	0.178	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Barium, Total	53.3		mg/kg	0.856	0.149	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Beryllium, Total	0.495		mg/kg	0.428	0.028	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Cadmium, Total	0.108	J	mg/kg	0.856	0.084	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Calcium, Total	87300		mg/kg	85.6	30.0	20	08/11/23 00:40	08/22/23 09:11	EPA 3050B	1,6010D	DMB
Chromium, Total	35.8		mg/kg	0.856	0.082	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Cobalt, Total	4.44		mg/kg	1.71	0.142	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Copper, Total	23.2		mg/kg	0.856	0.221	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Iron, Total	11100		mg/kg	4.28	0.773	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Lead, Total	20.4		mg/kg	4.28	0.230	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Magnesium, Total	9470		mg/kg	8.56	1.32	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Manganese, Total	198		mg/kg	0.856	0.136	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Mercury, Total	ND		mg/kg	0.077	0.050	1	08/11/23 02:00	08/23/23 11:57	EPA 7471B	1,7471B	MJR
Nickel, Total	11.6		mg/kg	2.14	0.207	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Potassium, Total	1190		mg/kg	214	12.3	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Selenium, Total	ND		mg/kg	1.71	0.221	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Silver, Total	ND		mg/kg	0.428	0.242	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Sodium, Total	455		mg/kg	171	2.70	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Thallium, Total	ND		mg/kg	1.71	0.270	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Vanadium, Total	21.1		mg/kg	0.856	0.174	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB
Zinc, Total	48.9		mg/kg	4.28	0.251	2	08/11/23 00:40	08/22/23 08:57	EPA 3050B	1,6010D	DMB



Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1814439-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Antimony, Total	ND		mg/kg	2.00	0.152	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Barium, Total	ND		mg/kg	0.400	0.070	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Calcium, Total	ND		mg/kg	4.00	1.40	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Cobalt, Total	0.109	J	mg/kg	0.800	0.066	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Copper, Total	ND		mg/kg	0.400	0.103	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Iron, Total	ND		mg/kg	2.00	0.361	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Lead, Total	ND		mg/kg	2.00	0.107	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Magnesium, Total	ND		mg/kg	4.00	0.616	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Manganese, Total	ND		mg/kg	0.400	0.064	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Potassium, Total	ND		mg/kg	100	5.76	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Selenium, Total	ND		mg/kg	0.800	0.103	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Silver, Total	ND		mg/kg	0.200	0.113	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Sodium, Total	ND		mg/kg	80.0	1.26	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Thallium, Total	0.305	J	mg/kg	0.800	0.126	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Vanadium, Total	ND		mg/kg	0.400	0.081	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/11/23 00:40	08/14/23 19:45	1,6010D	AMW

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1814443-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	08/11/23 02:00	08/14/23 17:04	1,7471B	MJR



Project Name: CORAL ISLAND

Lab Number: L2346033

Project Number: 1258.0001Y

Report Date: 08/23/23

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND

Lab Number: L2346033

Project Number: 1258.0001Y

Report Date: 08/23/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1814439-2 SRM Lot Number: D119-540								
Aluminum, Total	81		-		48-152	-		
Antimony, Total	119		-		10-190	-		
Arsenic, Total	105		-		83-117	-		
Barium, Total	101		-		82-118	-		
Beryllium, Total	104		-		83-117	-		
Cadmium, Total	99		-		82-117	-		
Calcium, Total	100		-		81-118	-		
Chromium, Total	108		-		82-119	-		
Cobalt, Total	105		-		83-117	-		
Copper, Total	99		-		84-116	-		
Iron, Total	103		-		60-140	-		
Lead, Total	104		-		82-118	-		
Magnesium, Total	93		-		76-124	-		
Manganese, Total	100		-		82-118	-		
Nickel, Total	104		-		82-117	-		
Potassium, Total	93		-		70-130	-		
Selenium, Total	110		-		79-121	-		
Silver, Total	102		-		80-120	-		
Sodium, Total	103		-		74-126	-		
Thallium, Total	105		-		81-119	-		
Vanadium, Total	103		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND

Project Number: 1258.0001Y

Lab Number: L2346033

Report Date: 08/23/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1814439-2 SRM Lot Number: D119-540					
Zinc, Total	104	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1814443-2 SRM Lot Number: D119-540					
Mercury, Total	98	-	73-127	-	

Matrix Spike Analysis Batch Quality Control

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1814439-3 QC Sample: L2345162-01 Client ID: MS Sample												
Aluminum, Total	3530	185	5270	938	Q	-	-		75-125	-		20
Antimony, Total	ND	46.4	32.5	70	Q	-	-		75-125	-		20
Arsenic, Total	1.58	11.1	12.8	101		-	-		75-125	-		20
Barium, Total	30.3	185	209	96		-	-		75-125	-		20
Beryllium, Total	0.235J	4.64	4.55	98		-	-		75-125	-		20
Cadmium, Total	ND	4.92	4.22	86		-	-		75-125	-		20
Calcium, Total	941	927	2020	116		-	-		75-125	-		20
Chromium, Total	13.1	18.5	37.0	129	Q	-	-		75-125	-		20
Cobalt, Total	5.60	46.4	50.6	97		-	-		75-125	-		20
Copper, Total	10.8	23.2	37.6	116		-	-		75-125	-		20
Iron, Total	12900	92.7	16700	4100	Q	-	-		75-125	-		20
Lead, Total	4.80	49.2	58.3	109		-	-		75-125	-		20
Magnesium, Total	1990	927	3520	165	Q	-	-		75-125	-		20
Manganese, Total	115	46.4	179	138	Q	-	-		75-125	-		20
Nickel, Total	10.5	46.4	55.6	97		-	-		75-125	-		20
Potassium, Total	1040	927	2480	155	Q	-	-		75-125	-		20
Selenium, Total	ND	11.1	11.0	99		-	-		75-125	-		20
Silver, Total	ND	4.64	4.18	90		-	-		75-125	-		20
Sodium, Total	82.4J	927	992	107		-	-		75-125	-		20
Thallium, Total	0.450J	11.1	11.8	106		-	-		75-125	-		20
Vanadium, Total	18.8	46.4	70.4	111		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1814439-3 QC Sample: L2345162-01 Client ID: MS Sample									
Zinc, Total	29.3	46.4	85.7	122	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1814443-3 QC Sample: L2345162-01 Client ID: MS Sample									
Mercury, Total	ND	1.72	1.65	96	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1814439-4 QC Sample: L2345162-01 Client ID: DUP Sample						
Arsenic, Total	1.58	1.89	mg/kg	18		20
Copper, Total	10.8	11.8	mg/kg	9		20
Lead, Total	4.80	5.74	mg/kg	18		20
Zinc, Total	29.3	30.7	mg/kg	5		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1814443-4 QC Sample: L2345162-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

SAMPLE RESULTS

Lab ID: L2346033-01
Client ID: IS-1
Sample Location: 1650 RICHMOND AVE. STATEN ISLAND, NY 10314

Date Collected: 08/09/23 09:30
Date Received: 08/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.1		%	0.100	NA	1	-	08/10/23 09:38	121,2540G	ROI



Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1814157-1 QC Sample: L2346057-01 Client ID: DUP Sample						
Solids, Total	84.9	84.8	%	0		20

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Serial_No:08232317:51
Lab Number: L2346033
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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(*)
L2346033-01A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2346033-01B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2346033-01C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2346033-01D	Plastic 60ml unpreserved	A	NA		2.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2346033-01E	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365)
L2346033-01F	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365)
L2346033-01G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365)
L2346033-01X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2346033-01Y	Vial Water preserved split	A	NA		2.8	Y	Absent	10-AUG-23 03:44	NYTCL-8260HLW(14)
L2346033-01Y1	Vial Water preserved split	NA	NA			Y	Absent		NYTCL-8260HLW(14)
L2346033-01Z	Vial Water preserved split	A	NA		2.8	Y	Absent	10-AUG-23 03:44	NYTCL-8260HLW(14)
L2346033-01Z1	Vial Water preserved split	NA	NA			Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days



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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
Project Number: 1258.0001Y

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Report Date: 08/23/23

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
Project Number: 1258.0001Y

Lab Number: L2346033
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Data Qualifiers

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

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346033
Report Date: 08/23/23

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

EPA 625.1: alpha-Terpineol

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

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

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

Mansfield Facility

SM 2540D: TSS.

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

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

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

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

EPA 522, EPA 537.1.

Non-Potable Water


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

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

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY	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	Date Rec'd in Lab 8/9/23	ALPHA Job # L2346033																															
		of																																	
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 10314		<input type="checkbox"/> ASP-A	<input type="checkbox"/> ASP-B																														
Client: POVX		Project Location: 1650 RICHMOND AVE. STATEVILLE ISLAND NY		<input type="checkbox"/> EQUIS (1 File)	<input type="checkbox"/> EQUIS (4 File)																														
Address: 209 Shafter St 1 Islandia, NY 11749		Project # 2259.0014		<input type="checkbox"/> Other																															
Phone: 631 232 2600		(Use Project name as Project #) <input type="checkbox"/>		Regulatory Requirement																															
Fax:		Project Manager: STEPHEN LEONE		<input type="checkbox"/> NY TOGS																															
Email: slawnic@ravlink.com		ALPHAQuote #:		<input type="checkbox"/> AWO Standards																															
		Turn-Around Time		<input type="checkbox"/> NY Restricted Use																															
		Standard <input checked="" type="checkbox"/>		<input type="checkbox"/> NY Part 375																															
		Rush (only if pre approved) <input type="checkbox"/>		<input type="checkbox"/> NY CP-51																															
		Due Date:		<input type="checkbox"/> Other																															
		# of Days:		<input type="checkbox"/> NY Unrestricted Use																															
				<input type="checkbox"/> NYC Sewer Discharge																															
These samples have been previously analyzed by Alpha <input type="checkbox"/>				ANALYSIS																															
Other project specific requirements/comments:				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">VOCs</td> <td style="text-align: center;">SVOCs</td> <td style="text-align: center;">PCBs</td> <td style="text-align: center;">Pesticides</td> <td style="text-align: center;">Metals</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> </tr> </table>																VOCs	SVOCs	PCBs	Pesticides	Metals						X	X	X	X	X	
						VOCs	SVOCs	PCBs	Pesticides	Metals																									
				X	X	X	X	X																											
Please specify Metals or TAL.																																			
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	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																													
		Date	Time																																
46033-01	15-1	8/9/23	930	S	CM																														
Preservative Code:		Container Code		Westboro: Certification No: MA935		Container Type																													
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 ₇ KE = Zn Ac/NaOH O = Other		P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Mansfield: Certification No: MA015		E E G G G A A A A A																													
				Relinquished By:		Date/Time		Received By:																											
				Chris King		8/9/23 1300		Paul Maggioni																											
				Paul Maggioni		8/9/23 1415		Chris King																											
				Chris King		8/9/23 2300		Wendy Manning																											
				Wendy Manning		8/9/23 2310																													

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.)

APPENDIX C

Laboratory Analytical Data – Waste Characterization Sample



ANALYTICAL REPORT

Lab Number:	L2346036
Client:	Roux Env. Eng. & Geology, DPC 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Stephen Loonie
Phone:	(631) 630-2379
Project Name:	CORAL ISLAND
Project Number:	1258.0001Y
Report Date:	08/14/23

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), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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



Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2346036-01	WC-1	SOIL	1650 RICHMOND AVE. STATEN ISLAND, NY 10314	08/09/23 08:00	08/09/23

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

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: L2346036
Report Date: 08/14/23

Case Narrative (continued)

Report Submission

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

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

Authorized Signature:  Kelly O'Neill

Title: Technical Director/Representative

Date: 08/14/23

ORGANICS

VOLATILES

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

SAMPLE RESULTS

Lab ID: L2346036-01
 Client ID: WC-1
 Sample Location: 1650 RICHMOND AVE. STATEN ISLAND, NY 10314

Date Collected: 08/09/23 08:00
 Date Received: 08/09/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 08/11/23 06:12
 Analyst: MCM
 Percent Solids: 82%
 TCLP/SPLP Ext. Date: 08/10/23 08:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	102		70-130
dibromofluoromethane	110		70-130

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/11/23 05:23
Analyst: MCM
TCLP/SPLP Extraction Date: 08/10/23 08:16

Extraction Date: 08/10/23 08:16

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1814695-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	101		70-130
dibromofluoromethane	111		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND

Lab Number: L2346036

Project Number: 1258.0001Y

Report Date: 08/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1814695-3 WG1814695-4								
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		100		63-132	10		20
Tetrachloroethene	90		90		70-130	0		20
Chlorobenzene	90		88		75-130	2		25
1,2-Dichloroethane	100		100		70-130	0		20
Benzene	110		100		70-130	10		25
Vinyl chloride	72		73		55-140	1		20
1,1-Dichloroethene	100		100		61-145	0		25
Trichloroethene	92		92		70-130	0		25
1,4-Dichlorobenzene	83		83		70-130	0		20
2-Butanone	99		100		63-138	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		105		70-130
Toluene-d8	99		97		70-130
4-Bromofluorobenzene	100		100		70-130
dibromofluoromethane	108		107		70-130

SEMIVOLATILES

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

SAMPLE RESULTS

Lab ID: L2346036-01
 Client ID: WC-1
 Sample Location: 1650 RICHMOND AVE. STATEN ISLAND, NY 10314

Date Collected: 08/09/23 08:00
 Date Received: 08/09/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 08/12/23 15:21
 Analyst: CMM
 Percent Solids: 82%
 TCLP/SPLP Ext. Date: 08/10/23 13:39

Extraction Method: EPA 3510C
 Extraction Date: 08/11/23 15:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		21-120
Phenol-d6	67		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	86		33-120

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270E
Analytical Date: 08/12/23 09:45
Analyst: CMM
TCLP/SPLP Extraction Date: 08/10/23 13:39

Extraction Method: EPA 3510C
Extraction Date: 08/11/23 15:10

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1814921-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	ND		ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		21-120
Phenol-d6	65		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	79		33-120

Lab Control Sample Analysis Batch Quality Control

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1814921-2 WG1814921-3								
Hexachlorobenzene	76		76		40-140	0		30
2,4-Dinitrotoluene	87		84		40-132	4		30
Hexachlorobutadiene	74		70		28-111	6		30
Hexachloroethane	67		66		21-105	2		30
Nitrobenzene	78		76		40-140	3		30
2,4,6-Trichlorophenol	87		81		30-130	7		30
Pentachlorophenol	83		78		9-103	6		30
2-Methylphenol	81		76		30-130	6		30
3-Methylphenol/4-Methylphenol	87		81		30-130	7		30
2,4,5-Trichlorophenol	83		81		30-130	2		30
Pyridine	60		27		10-66	76	Q	30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	76		72		21-120
Phenol-d6	69		65		10-120
Nitrobenzene-d5	77		72		23-120
2-Fluorobiphenyl	76		71		15-120
2,4,6-Tribromophenol	84		81		10-120
4-Terphenyl-d14	76		72		33-120



PCBS

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

SAMPLE RESULTS

Lab ID: L2346036-01
Client ID: WC-1
Sample Location: 1650 RICHMOND AVE. STATEN ISLAND, NY 10314

Date Collected: 08/09/23 08:00
Date Received: 08/09/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 08/10/23 23:11
Analyst: AD
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 08/10/23 10:35
Cleanup Method: EPA 3665A
Cleanup Date: 08/10/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/10/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	56.8	5.05	1	A
Aroclor 1221	ND		ug/kg	56.8	5.70	1	A
Aroclor 1232	ND		ug/kg	56.8	12.0	1	A
Aroclor 1242	ND		ug/kg	56.8	7.66	1	A
Aroclor 1248	ND		ug/kg	56.8	8.53	1	A
Aroclor 1254	21.8	J	ug/kg	56.8	6.22	1	A
Aroclor 1260	ND		ug/kg	56.8	10.5	1	B
Aroclor 1262	ND		ug/kg	56.8	7.22	1	A
Aroclor 1268	ND		ug/kg	56.8	5.89	1	A
PCBs, Total	21.8	J	ug/kg	56.8	5.05	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 08/10/23 23:21
Analyst: AD

Extraction Method: EPA 3546
Extraction Date: 08/10/23 10:35
Cleanup Method: EPA 3665A
Cleanup Date: 08/10/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/10/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1814303-1						
Aroclor 1016	ND		ug/kg	45.7	4.06	A
Aroclor 1221	ND		ug/kg	45.7	4.58	A
Aroclor 1232	ND		ug/kg	45.7	9.69	A
Aroclor 1242	ND		ug/kg	45.7	6.16	A
Aroclor 1248	ND		ug/kg	45.7	6.86	A
Aroclor 1254	ND		ug/kg	45.7	5.00	A
Aroclor 1260	ND		ug/kg	45.7	8.45	A
Aroclor 1262	ND		ug/kg	45.7	5.80	A
Aroclor 1268	ND		ug/kg	45.7	4.73	A
PCBs, Total	ND		ug/kg	45.7	4.06	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	55		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND

Project Number: 1258.0001Y

Lab Number: L2346036

Report Date: 08/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1814303-2 WG1814303-3									
Aroclor 1016	70		74		40-140	6		50	A
Aroclor 1260	66		71		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		74		30-150	A
Decachlorobiphenyl	61		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		68		30-150	B
Decachlorobiphenyl	56		62		30-150	B

METALS

Project Name: CORAL ISLAND**Lab Number:** L2346036**Project Number:** 1258.0001Y**Report Date:** 08/14/23**SAMPLE RESULTS**

Lab ID: L2346036-01

Date Collected: 08/09/23 08:00

Client ID: WC-1

Date Received: 08/09/23

Sample Location: 1650 RICHMOND AVE. STATEN ISLAND, NY
10314

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 08/10/23 13:39

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	08/11/23 22:13	08/12/23 08:51	EPA 3015	1,6010D	JMF
Barium, TCLP	0.422	J	mg/l	0.500	0.0210	1	08/11/23 22:13	08/12/23 08:51	EPA 3015	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	08/11/23 22:13	08/12/23 08:51	EPA 3015	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	08/11/23 22:13	08/12/23 08:51	EPA 3015	1,6010D	JMF
Lead, TCLP	0.0742	J	mg/l	0.500	0.0270	1	08/11/23 22:13	08/12/23 08:51	EPA 3015	1,6010D	JMF
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	08/11/23 22:18	08/13/23 15:35	EPA 7470A	1,7470A	TAA
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	08/11/23 22:13	08/12/23 08:51	EPA 3015	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	08/11/23 22:13	08/12/23 08:51	EPA 3015	1,6010D	JMF



Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1814867-1									
Arsenic, TCLP	ND	mg/l	1.00	0.0190	1	08/11/23 22:13	08/12/23 08:09	1,6010D	JMF
Barium, TCLP	ND	mg/l	0.500	0.0210	1	08/11/23 22:13	08/12/23 08:09	1,6010D	JMF
Cadmium, TCLP	ND	mg/l	0.100	0.0100	1	08/11/23 22:13	08/12/23 08:09	1,6010D	JMF
Chromium, TCLP	ND	mg/l	0.200	0.0210	1	08/11/23 22:13	08/12/23 08:09	1,6010D	JMF
Lead, TCLP	ND	mg/l	0.500	0.0270	1	08/11/23 22:13	08/12/23 08:09	1,6010D	JMF
Selenium, TCLP	ND	mg/l	0.500	0.0350	1	08/11/23 22:13	08/12/23 08:09	1,6010D	JMF
Silver, TCLP	ND	mg/l	0.100	0.0280	1	08/11/23 22:13	08/12/23 08:09	1,6010D	JMF

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 08/10/23 13:39

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1814869-1									
Mercury, TCLP	ND	mg/l	0.0010	0.0005	1	08/11/23 22:18	08/13/23 15:15	1,7470A	TAA

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 08/10/23 13:39

Lab Control Sample Analysis

Batch Quality Control

Project Name: CORAL ISLAND

Project Number: 1258.0001Y

Lab Number: L2346036

Report Date: 08/14/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1814867-2								
Arsenic, TCLP	104		-		75-125	-		20
Barium, TCLP	96		-		75-125	-		20
Cadmium, TCLP	98		-		75-125	-		20
Chromium, TCLP	106		-		75-125	-		20
Lead, TCLP	98		-		75-125	-		20
Selenium, TCLP	100		-		75-125	-		20
Silver, TCLP	94		-		75-125	-		20

TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1814869-2

Mercury, TCLP	87		-		80-120	-		
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Matrix Spike Analysis
Batch Quality Control

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1814867-3 QC Sample: L2346164-10 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.23	102		-	-		75-125	-		20
Barium, TCLP	0.280J	20	21.2	106		-	-		75-125	-		20
Cadmium, TCLP	ND	0.53	0.523	99		-	-		75-125	-		20
Chromium, TCLP	ND	2	2.16	108		-	-		75-125	-		20
Lead, TCLP	ND	5.3	5.22	98		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.24	103		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.477	95		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1814869-3 QC Sample: L2346164-10 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0242	97		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1814867-4 QC Sample: L2346164-10 Client ID: DUP Sample						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.280J	0.311J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1814869-4 QC Sample: L2346164-10 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

SAMPLE RESULTS

Lab ID: L2346036-01
Client ID: WC-1
Sample Location: 1650 RICHMOND AVE. STATEN ISLAND, NY 10314

Date Collected: 08/09/23 08:00
Date Received: 08/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.5		%	0.100	NA	1	-	08/10/23 09:53	121,2540G	ROI
pH (H)	9.26		SU	-	NA	1	-	08/11/23 17:41	1,9045D	AAS



Lab Control Sample Analysis Batch Quality Control

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1814967-1								
pH	100		-		99-101	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1814163-1 QC Sample: L2345972-01 Client ID: DUP Sample						
Solids, Total	72.0	71.2	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1814967-2 QC Sample: L2343988-01 Client ID: DUP Sample						
pH	10.4	10.3	SU	1		5

Project Name: CORAL ISLAND**Lab Number:** L2346036**Project Number:** 1258.0001Y**Report Date:** 08/14/23**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(*)
L2346036-01A	Vial Large Septa unpreserved (4oz)	A	NA		2.8	Y	Absent		TCLP-EXT-ZHE(14)
L2346036-01B	Glass 500ml/16oz unpreserved	A	NA		2.8	Y	Absent		TS(7),PH-9045(1),NYTCL-8082(365)
L2346036-01W	Plastic 120ml HNO3 preserved Extracts	A	NA		2.8	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2346036-01X	Amber 1000ml unpreserved Extracts	A	NA		2.8	Y	Absent		TCLP-8270(14)
L2346036-01X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L2346036-01Y	Vial unpreserved Extracts	A	NA		2.8	Y	Absent		TCLP-VOA(14)
L2346036-01Z	Vial unpreserved Extracts	A	NA		2.8	Y	Absent		TCLP-VOA(14)

Project Name: CORAL ISLAND
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

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
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

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
Project Number: 1258.0001Y

Lab Number: L2346036
Report Date: 08/14/23

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: L2346036
Report Date: 08/14/23

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

EPA 625.1: alpha-Terpineol

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

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

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

Mansfield Facility

SM 2540D: TSS.

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

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

EPA 522, EPA 537.1.

Non-Potable Water


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

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

EPA 245.1 Hg.


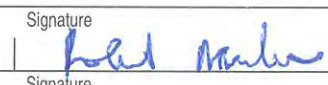
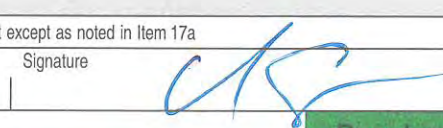
SM2340B

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

 NEW YORK CHAIN OF CUSTODY	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	Date Rec'd in Lab 8/9/23	ALPHA Job # L2346036											
		of													
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: Coduit Island		<input type="checkbox"/> ASP-A	<input type="checkbox"/> Same as Client Info										
Client: ROUX		Project Location: 160 Richmond Ave, Statu Island NY 10314		<input type="checkbox"/> EQUIS (1 File)	PO #										
Address: 209 Shafter St Islandia, NY 11749		Project # 1258.0001		<input type="checkbox"/> Other											
Phone: (631) 232-2600		(Use Project name as Project #) <input type="checkbox"/>		Regulatory Requirement											
Fax:		Project Manager: STEPHEN LUNNIE		<input type="checkbox"/> NY TOGS	<input type="checkbox"/> NY Part 375										
Email: Sloonie@rouxinc.com		ALPHAQuote #:		<input type="checkbox"/> AWQ Standards	<input type="checkbox"/> NY CP-51										
Turn-Around Time		Due Date: 48-Hours		<input type="checkbox"/> NY Restricted Use	<input type="checkbox"/> Other										
Standard <input type="checkbox"/>		# of Days: 48-Hours		<input type="checkbox"/> NY Unrestricted Use											
Rush (only if pre approved) <input checked="" type="checkbox"/>				<input type="checkbox"/> NYC Sewer Discharge	Disposal Site Information										
These samples have been previously analyzed by Alpha <input type="checkbox"/>				Please identify below location of applicable disposal facilities.											
Other project specific requirements/comments:				Disposal Facility:											
Please specify Metals or TAL.				<input type="checkbox"/> NJ <input type="checkbox"/> NY											
				<input type="checkbox"/> Other:											
				ANALYSIS											
				EPA-8260D TCLP Volatile Organics EPA-8270 Method TCLP Heavy Metals EPA-9045 pH-Hydrogen Ion EPA TCLP PCBs 8082A EPA-8001/2/3/4 TCLP Trace Metals											
				Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)											
				Sample Specific Comments											
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection	Sample Matrix	Sampler's Initials	Date	Time	Analysis	Preservative	Container Type	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time	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.)
4603601	WC-1	9/9/23	S	cm	9/9/23	800	X X X X X	A A A A A	G G G G G	8/9/23 1300	Chairman	9/9/23 1415	Paul Maggella	8/9/23 1040	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Relinquished By: Chairman Date/Time: 8/9/23 2510		Received By: Wendy Manning Date/Time: 8/9/23 2310		Date/Time: 8/9/23 1300 Date/Time: 8/9/23 1040 Date/Time: 8/9/23 2100		Date/Time: 8/9/23 1415 Date/Time: 8/9/23 1040 Date/Time: 8/9/23 2100			

APPENDIX D

Waste Manifests

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number 081723-A
5. Generator's Name and Mailing Address ROUY ASSOCIATES			Generator's Site Address (if different than mailing address) Shopping center 1150 Richmond Ave Horseneck Island		
Generator's Phone:			U.S. EPA ID Number NYR00010721		
6. Transporter 1 Company Name ARCO			U.S. EPA ID Number		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Date transfer 134 Date St WCD Babylon NY 11704			U.S. EPA ID Number		
Facility's Phone:			U.S. EPA ID Number		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1.		Non-Regulated Material (Soil)		001 UN 0020	Y
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information Job #27-9.19689 R679					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name George Beyar			Signature 		Month Day Year 08 17 02
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Robert Mortimer			Signature 		Month Day Year 08 17 02
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Demario Sanchez			Signature 		Month Day Year 8 17 03

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

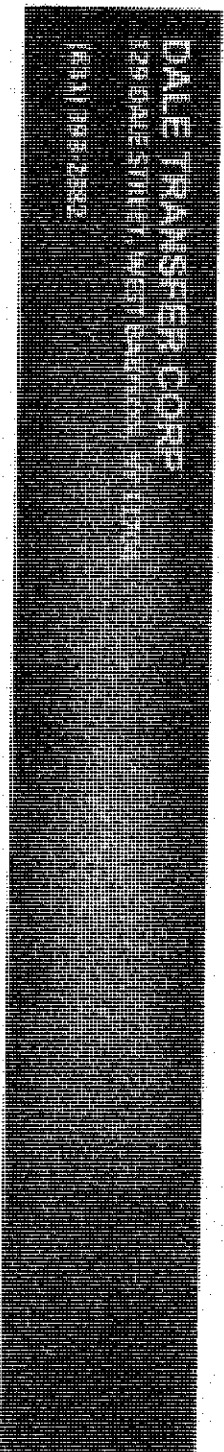
B-TEK SCALES, LLC.

TIME: 8/17/2023 10:26:18 AM
TRUCK: 679

DRIVER ID: ROBERT
MANIFEST: 081723A
LICENSE PLATE: MARTINEZ

TOTAL AXLE WEIGHT: 89400
AXLE 1: 35620
AXLE 2: 34000
AXLE 3: 17980

THANK YOU!



Ticket No. _____ 58375

Truck No. 2019 mack rolloff

Date: 3/20/2019

lightweight ticket 35840
with 20cy box

Generator: _____

Truck License Plate No. 70307PC

Contract No. _____

Non Hazardous Manifest No. _____

Transport: AARCO

Facility Approval No. _____

Hauler Permit No. _____

Material Received: _____

Quantity Received: _____

Facility Operator Signature: ARMANDO

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number 081823
5. Generator's Name and Mailing Address Rout Associates			Generator's Site Address (if different than mailing address) Shopping Center 1650 Richmond Ave Staten Island NY 10314		
Generator's Phone:			U.S. EPA ID Number		
6. Transporter 1 Company Name ARCO			NY R00010732C		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Dale Transfer Station 129 Dale St. W. Babylon, 11704			U.S. EPA ID Number		
8. Designated Facility Name and Site Address			U.S. EPA ID Number		
9. Waste Shipping Name and Description			10. Containers		11. Total Quantity
			No.	Type	12. Unit Wt./Vol.
1. Non Regulated material (So. 1)			001	CM	20 Y
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information Job# 219189-27 R679 Rental container 280602					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name George Beyer			Signature 		Month Day Year 08 18 23
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Robert Martinez			Signature 		Month Day Year 08 18 23
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Armando Sanchez			Signature 		Month Day Year 8 18 23

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

B-TEK SCALES, LLC.

TIME: 8/18/2023 9:14:51 AM
TRUCK: ROBERT

DRIVER ID: ROBERT
MANIFEST: MARTINEZ
LICENSE PLATE: TUTURU

TOTAL AXLE WEIGHT: 86420
AXLE 1: 32920
AXLE 2: 34660
AXLE 3: 18840

THANK YOU!

B-TEK SCALES, LLC.

TIME: 8/18/2023 9:38:51 AM
TRUCK: ROBERT

GROSS: 86420
TARE: 49160
NET: 0

DRIVER ID: ROBERT
MANIFEST: MARTINEZ
LICENSE PLATE: TUTURU

TOTAL AXLE WEIGHT: 86420.00000
AXLE 1: 18120
AXLE 2: 31040

THANK YOU!



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

2857287

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Dale Transfer 129 Dale Street W. Babylon, NY 11704 631-393-2882			e. Generator's Mailing Address: Dale Transfer 129 Dale Street W. Babylon, NY 11704		
f. Phone:			g. Phone:		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
5081196455	3/1/2024	Consolidated NH Soils	01 DT	20 Yards	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) <i>Armando Sanchez</i>			q. Signature <i>[Signature]</i>		r. Date <i>8/21-2023</i>

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: <i>Valliant Contracting 226 Prospect Point Rd Hopatcong NJ</i>			AW 202-N TA# 282		
b. Phone: <i>[Handwritten]</i>					
c. Driver Name (Print) <i>Cristian Murillo</i>		d. Signature <i>[Signature]</i>		e. Date <i>8/21-23</i>	

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Conestoga Landfill 420 Quarry Road Morgantown, PA 19543 610-273-6600		c. US EPA Number PA0000015867	d. Discrepancy Indication Space: <i>20.09</i>
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature <i>[Signature]</i>	
		g. Date <i>8/21/23</i>	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



REPUBLIC SERVICES

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

2857288

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator's Name and Location (Dale Transfer), Mailing Address, Phone, and Waste Profile # (5081196455).

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Form I continued: Generator Authorized Agent Name (Print), Signature, and Date.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address (VALIANT CONTRACTING), Phone, Driver Name (Print), Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

Form III: Destination information including Disposal Facility and Site Address (Conestoga Landfill), US EPA Number (PA0000015867), and Discrepancy Indication Space (2460).

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Form III continued: Name of Authorized Agent (Print), Signature, and Date.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, and Special Handling Instructions.

Form IV continued: Friable status checkboxes and OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Form IV continued: Operator's Name and Title (Print), Signature, and Date.

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

2857289

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Dale Transfer 129 Dale Street W. Babylon, NY 11704 631-393-2882			e. Generator's Mailing Address: Dale Transfer 129 Dale Street W. Babylon, NY 11704			
f. Phone:			g. Phone:			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	Type	n. Total Quantity	o. Unit Wt/Vol
5081196455	3/1/2024	Consolidated NH Soils	01	DT	20 Yards	

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) <i>Armando Sorby</i>	q. Signature <i>[Signature]</i>	r. Date <i>8-21-2023</i>
--	------------------------------------	-----------------------------

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: <i>Valiant #273 NJ5072</i>		
b. Phone: <i>MALW M</i>	d. Signature <i>[Signature]</i>	e. Date <i>8-21-2023</i>
c. Driver Name (Print)		

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Conestoga Landfill 420 Quarry Road Morgantown, PA 19543 610-273-6600		c. US EPA Number PA0000015867	d. Discrepancy Indication Space: <i>23.83</i>
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature <i>[Signature]</i>	g. Date <i>8/21/23</i>	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			

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, 2023 to March 02, 2024			
<i>Reporting Period March 2, 2023 to April 1, 2024</i>			
		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	

Box 2A

YES NO

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

YES NO

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)

YES NO

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

2236-125

Owner

WWP Associates

Institutional Control

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.

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

**IC CERTIFICATIONS
SITE NO. C243033**

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I Michael Roux at 209 Shafter Street, Islandia, NY 11749,
print name print business address

am certifying as Remdial Party (Owner or Remedial Party)

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



April 29, 2024

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

Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

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

I Brian Morrissey at 209 Shafter Street, Islandia, NY 11749,
print name print business address

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

Brian P. Morrissey
Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification



Stamp
(Required for PE)

April 29, 2024
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:

Mr. Hans Huang
WWP Associates
8816 Six Forks Road, Suite 201
Raleigh, NC 27615
919-846-4046