NEW YORK STATE OF OPPORTUNITY. Department of Transportation

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Regional Director

August 19, 2021

VIA EMAIL

RE: PIN 8806.51.301
HARRISON LANDFILL AREA
NYSDOT HARRISON SUBRESIDENCY
WESTCHESTER COUNTY
FIFTH QUARTER MONITORING RESULTS
APRIL 2021

To the eccs:

Enclosed is an electronic copy of the subject report, dated August 12, 2021, prepared by Cashin Associates.

If you have any questions, please feel free to contact me at 845.431.5826 or gretchen.fitzgerald@dot.ny.gov.

Sincerely,

Gretchen Fitzgerald
Regional Construction Environmental Coordinator, Region 8

ecc: Gregory Greene, Cashin Associates
Daniel Lanners, NYSDEC, Central Office
Chris Kappeller, NYSDOT, Highway Maintenance Group, Region 8
Carl Kochersberger, NYSDOT, Office of Transportation Maintenance, Main Office
Dave Newell, NYSDOT, Consultant Management Bureau, Main Office
David Quentin, NYCDEP
Maureen Schuck, NYSDOH

Cashin Associates, P.C.
Engineering • Planning • Construction Management

August 12, 2021

Ms. Gretchen Fitzgerald
New York State Department of Transportation - Region 8
4 Burnett Boulevard
Poughkeepsie, NY 12603

RE: Harrison Sub-Residency Landfill Site
West Harrison, New York
Fifth-Quarter April 2021 Monitoring Report

REF: Cashin Associates, P.C. PIN S000.19.101
Assignment No: D037853.01
Harrison Landfill Monitoring PIN 8806.51.101

Dear Ms. Fitzgerald:

This letter report summarizes the field investigative procedures and results of the fifth-quarter monitoring performed by Cashin Associates, P.C. (CA) at the Harrison Landfill Site on April 27, 2021 and April 28, 2021 on behalf of the New York State Department of Transportation (NYSDOT). The Harrison Sub-Residency is located at the intersection of New York Route 120 and King Street.

The operation and maintenance efforts conducted at the Harrison Landfill were performed in order to meet the requirements of the New York State Department of Conservation (NYSDEC) for post-closure monitoring. The sampling was performed in accordance with CA's Scope of Work dated December 4, 2019 and approved by NYSDOT on December 11, 2019. The scope was developed in accordance with the NYSDOT's *Operation and Maintenance Plan for the Harrison Sub-Residency, Landfill and Petroleum Spill Area, February 2010.*

Monitoring efforts at the Harrison Landfill included the collection of groundwater samples from the five existing monitoring wells (PC-1, PC-2, PC-3, LMW-2 and LMW-4), four surface water and sediment samples from the on-site stream sample locations (SW/SD-1 through SW/SD-4), gas monitoring at the four existing gas vents (V-1 through V-4) and up-wind and down-wind areas, and a visual inspection of vector and vermin. Figure 1 provides a Site Location map. Site maps and sample locations are shown on Figures 2 through 5. The sampling methodology performed by CA was consistent with the methodology used in prior sampling events at the site, as discussed below.

Groundwater Sampling

Groundwater samples were collected from the following five (5) monitoring wells (locations shown on Figure 3) listed below with regard to their relationship to the landfill:

On-Site/Up-gradient/Background	On-Site/Downgradient	Off-Site/Downgradient
LWM-2	LMW-4	PC-3
	PC-1	
	PC-2	

Prior to sampling, a round of static water level measurements and total depth measurements from the groundwater monitoring wells were recorded.

All of the monitoring well casings and well heads were inspected for any signs of damage or tampering. Prior to sampling, groundwater was purged until the hydraulic equilibrium between casing water and the aquifer was achieved in order to obtain a representative sample of the aquifer. This was accomplished by calculating the relative contribution from stagnant casing water to the total amount discharged from the well. The well was purged of three well volumes or until dryness using a Whale pump equipped with a Rheostat (for adjustable flow) and dedicated tubing. A peristaltic pump was used to purge and sample monitoring well PC-2 due to the historic bent well casing. Groundwater samples were collected when the well recovered to approximately 75% of its initial volume or within two hours (whichever came first) using a dedicated disposable polyethylene bailer. Well purge water was discharged immediately downgradient of the well. Field parameters of temperature (°C), turbidity (NTUs), dissolved oxygen (mg/L), pH, specific conductivity, (mS/cm) and oxidation-reduction potential (millivolts) were recorded for each well during purging and at the time of sample collection using a Hanna multiparameter water quality meter (HI9829) equipped with an in-line flow-through cell.

Groundwater samples were transferred to clean, pre-preserved, laboratory-supplied containers for analysis of target compound list (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), and dissolved (filtered) and total target analyte list (TAL) metals including cyanide and chloride. Liquid samples for dissolved TAL metals was filtered by the laboratory at the request of CA as indicated on the chain-of-custody form.

Surface Water/Sediment Sampling

Surface water (SW) and sediment (SD) samples (locations shown on Figure 4) were collected from the following four locations listed below with regard to their relationship to the landfill:

On-Site/Up-gradient/Background	On-Site/Downgradient	Off-Site/Downgradient
SW/SD-1	SW/SD-2	SW/SD-4
	SW/SD-3	

Prior to sample collection, CA recorded the approximate stream flow and stream depth at each station. Surface water samples from each respective location were collected first, in order to minimize turbidity, using a clean stainless steel ladle. Field parameters of temperature, turbidity,

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DO, pH and specific conductivity were collected during sampling at each location. Sediment samples were collected following the collection of the surface water samples, from within the same general area using new dedicated disposable plastic scoops.

Surface water and sediment samples were transferred to clean, pre-preserved laboratory-supplied containers for laboratory analysis of TCL VOCs, TCL SVOCs, and TAL metals (unfiltered only), including cyanide and chloride.

For quality assurance/quality control (QA/QC) purposes, a field blank was collected at the conclusion of sampling to ensure no cross contamination during sampling activities. The field blank was conducted by pouring distilled water into the ladle used for sample collection and then from the ladle to the sample bottles. The field blank was analyzed for TCL VOCs, TCL SVOCs, total TAL metals, cyanide and chloride. A blind duplicate sample (labeled as GW-DUP) was collected from PC-2 and analyzed for TCL VOCs, TCL SVOCs, dissolved TAL metals, cyanide and chloride. One (1) trip blank sample was prepared by the laboratory, it contained two sealed 40 ml vials with hydrochloric acid (HCL) and reagent water. The trip blank was stored in the sampling cooler during sampling activities and accompanied the sample shipment to the laboratory and was analyzed for TCL VOCs. Sampling was performed in accordance with NYSDEC Analytical Services Protocol (ASP).

All samples were preserved on ice and analyzed by Phoenix Environmental Laboratories, Inc., a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified analytical laboratory (NY ID number 11301). At the conclusion of sampling, the sampling cooler was picked up by a courier from Phoenix under proper chain-of-custody procedures and delivered to their laboratory in Manchester, CT.

Gas Monitoring

CA conducted gas monitoring at each of the four (4) gas vents (V-1 through V-4) (locations shown on Figure 5) and at up-wind and down-wind areas of the landfill. Prior to the collection of measurements at each location, ambient readings were recorded. Each location was monitored for methane and other explosive gases through the use of a combustible gas indicator (Landtec GEM 5000). Gas vent readings were obtained by inserting the instrument detector probe into each vent. The gas meter was set to alarm if readings exceeded 10% of the lower explosive limit (LEL) of methane. In addition, alarms were set at 10% of the LEL of hydrogen sulfide, 25 parts per million (ppm) of carbon monoxide and 19.5% and 23.5% of oxygen. A MiniRAE 3000 photoionization detector (PID) (with a 10.6 eV lamp) and a flame ionization detector (FID) (with and without a methane filter) were used to monitor for VOCs at each of the four gas vents and at up-wind and down-wind locations of the landfill. All of the field instruments were calibrated by Pine Environmental (CA's Equipment Rental Vendor) upon receipt and use.

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Field Survey

The monitoring of the Harrison Landfill Site included a visual inspection of site for the presence of vector/vermin. CA did not observe any vector/vermin at the site during sampling. However, it should be noted that locating monitoring well PC-3 and sample location SW/SD-4 was very difficult; as the areas surrounding the well and surface water/sediment sample locations, as well as the paths leading to the well and surface water/sediment sample locations, were extremely overgrown. No signs of well damage or evidence of tampering were noted during visual inspection of the wells.

Analytical Results

Groundwater Monitoring Well Samples

Results of the groundwater samples were compared to the NYSDEC Class GA Standards or Guidance Values (NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1, dated June 1998), with addenda dated April 2000 and June 2004. The results are summarized in Table 1 "Analytical Results of Groundwater Samples".

No floating product or sheen was detected in any of the wells during purging, consistent with previous sampling events by other environmental consultants.

Analytical results for the groundwater monitoring wells are attached in Appendix A. Water quality parameters of temperature, pH, specific conductivity and turbidity are included in Table 1 as well as in the groundwater sampling logs attached as Appendix B.

There were no VOCs or SVOC's detected above the NYSDEC Class GA Standards or Guidance Values in any of the groundwater samples. Total cyanide was not detected above its respective standard of 200 mg/L in any of the groundwater samples. Chloride was not detected above its respective standard of 250 mg/L in any of the groundwater samples except for sample PC-1 and PC-3 which slightly exceeded the standard at 257 mg/L and 264 mg/L, respectively. Iron was detected at 30,000 ug/L in PC-2 and 24,500 ug/L in LMW-4 which exceeds the Class GA groundwater standard of 300 ug/L. The groundwater duplicate sample (GW-DUP) was also shown to exceed the Class GA groundwater standard of iron at 28,000 ug/L as it was a blind duplicate of sample PC-2. Manganese exceeded the Class GA groundwater standard of 300 ug/L in all four downgradient wells (PC-1, PC-2, WMW-4 and PC-3) at the following concentrations, respectively: 1,870 ug/L, 12,400 ug/L, 14,000 ug/L, and 1,140 ug/L. The groundwater duplicate sample was also shown to exceed the Class GA groundwater standard for manganese at 13,000 ug/L which is comparable to sample PC-2. Sodium concentrations exceeded the Class GA standard in all five of the monitoring wells. Sodium was detected in LMW-2 at 22,100 ug/L, PC-1 at 110,000 ug/L, PC-2 at 31,400 ug/L, LMW-4 at 25,400 ug/L, and PC-3 at 112,000 ug/L. The groundwater duplicate sample result for sodium was reported at the same concentration (31,400 ug/L) as PC-2.

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The iron and manganese groundwater standards are both established for protection from aesthetic considerations. The sodium groundwater standards is established for the protection of sources of drinking water, however, the on-site groundwater is not used for drinking water purposes. Several other metals were detected in on-site downgradient wells; however, none of the groundwater concentrations for these metals exceeded Class GA standard/guidance values.

Surface Water Samples

The analytical results of the surface water samples were compared to both NYSDEC Ambient Water Quality Class GA Groundwater Standards/Guidance Values and NYSDEC Class A Surface Water Standards/Guidance Values, where available. Both standards were used since the drainage swales on the Site from which the surface waters were sampled serve as tributaries to the Kensico Reservoir, which is a source of drinking water. Where appropriate, the most conservative Standard or Guidance Value was used for comparison purposes.

Class A standards are established for surface water drinking protection (Type H(WS)), human consumption of fish (Type H(FC))), fish propagation (Type A(C)), fish survival (Type A(A)), protection of wildlife (Type (W)), and aesthetics (Type (E)). Some Class A metals standards are dependent on a water sample's specific hardness concentration, which was measured by the laboratory for each surface water sample.

There were no VOCs detected above the laboratory reporting limits in any of the surface water samples. Several SVOCs {specifically, Polycyclic Aromatic Hydrocarbons (PAH's)} were detected slightly above the NYSDEC Class A surface water standards in up-gradient surface water sample SW-1 as shown in Table 2. SVOC's were not detected in surface water samples SW-2, SW-3, and SW-4. Chloride exceeded the NYSDEC Class A Surface Water Standard in surface water sample SW-3 at 278 mg/L. Chloride was not detected in surface water samples SW-1, SW-2, and SW-4. Cyanide was not detected in any of the surface water samples. Concentrations of aluminum were found to exceed the NYSDEC Class A surface water standard established for fish propagation in surface water samples SW-1, SW-3, and SW-4. Iron was found to exceed the NYSDEC Class GA groundwater standard and Class A surface water standards established for fish propagation and protection of aesthetics considerations in surface water samples SW-1, SW-2, SW-3, and SW-4. Manganese was found to exceed the NYSDEC Class GA groundwater standards and Class A surface water standards established for protection of aesthetic considerations in surface water samples SW-1, SW-3, and SW-4. Sodium was detected in SW-3 and SW-4 exceeding the Class GA groundwater standard (no surface water criterion provided under the NYSDEC Class A Surface Water Standard).

The analytical results of the surface water samples are presented in Table 2. Water quality parameters of dissolved oxygen, turbidity, temperature, pH, specific conductivity and stream flow taken during sampling are also included in Table 2 as well as in the groundwater sampling logs attached as Appendix B.

The highest aluminum, iron and manganese concentrations were detected at the upstream sample location SW-1. Sodium, which was detected in the groundwater at an elevated level at on-site

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downgradient well PC-1, was also detected at an elevated concentration at the downstream surface water station SW-3. In addition to the metals detected in the surface water above established standards, several other metals were detected in the surface water samples including barium, calcium, chromium, cobalt, copper, lead, magnesium, nickel, potassium, vanadium, and zinc; however, none of these metals exceeded established criteria and their concentrations did not vary significantly between sampling locations.

Sediment Samples

Sediment sample results were compared to the NYSDEC Screening and Assessment of Contaminated Sediment Guidance Values (SGVs) and are summarized in Table 3 "Analytical Results of Sediment Samples for Metals" and Table 4 "Analytical Results of Sediment Samples for VOCs and SVOCs)" as shown below. Based on the NYSDEC guidance, sediments are considered to be low risk to aquatic life if concentrations detected are less than the Class A SGVs. Sediments with concentrations greater than Class C SGVs are considered likely to pose a risk to aquatic life. For Class B sediments (i.e., sediments with concentrations equal to or greater than Class A SGVs but less than or equal to Class C SGVs) additional testing is required to evaluate the potential risks to aquatic life.

Three (3) VOC compounds were detected above the laboratory reporting limits but below the Class A SGV guidance values. Acetone was reported at 0.091 mg/kg in sediment sample SD-1 and 33 mg/kg in sediment sample SD-3. Acetone is typically associated with laboratory contamination and was flagged by the laboratory as being a "laboratory solvent, contamination is possible". Methyl ethyl ketone (MEK) was detected at a concentration of 0.0052 mg/kg in sediment sample SD-1. There are no NYSDEC SGVs for these two VOC compounds. Naphthalene was detected at 0.0052 mg/kg in sediment sample SD-1 which is below the Freshwater Class A SGV and Class C SGV of 7.7 mg/Kg. Trace amounts of SVOCs (specifically, Benz(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Fluoranthene, and Pyrene) were detected above the laboratory reporting limits but below the SGVs within sediment sample SD-1 as shown in Table 4 below.

Five (5) metals: cadmium, copper, lead, nickel, and zinc were detected at levels greater than the Class A SGVs in sediment sample SD-3. Additionally, nickel was also detected above the Class C SGV in sediment sample SD-2 at 143 mg/kg. The NYSDEC Class A and Class C SGV for these metals are shown in Table 3 "Analytical Results of Sediment Samples for Metals".

Gas Monitoring

A combustible gas indictor (Landtec GEM 5000) was used to measure combustible gases at the four (4) landfill gas vents as shown on Figure 5. Carbon monoxide (CO) and hydrogen sulfide (H_2S) gases were non-detect (0.0 ppm) in the four gas vents. Methane (% CH_4) was also non-detect in the four gas vents. Oxygen (% O_2) and carbon dioxide (% CO_2) readings were in the normal range. The use of a photoionization detector (PID) to measure volatile organic vapors and a flame ionization detector (FID) to measure hydrocarbons were also non-detect (0.0 ppm) in the four gas vents. Ambient air gas monitoring at the upwind and downwind locations yielded typical background levels for oxygen and carbon dioxide; and methane, hydrogen sulfide, carbon monoxide, and VOCs were not detected at either the upwind or downwind portions of the Site. Results of the gas monitoring is presented in Table 5.

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Quality Assurance (QA)/Quality Control (QC) Sampling Results

A duplicate sample (labeled as GW-DUP) was collected from groundwater monitoring well PC-2 for quality assurance/quality control (QA/QC) purposes. A trip blank (supplied by the laboratory) was present during the entire sampling process for QA/QC purposes. Additionally, a field blank sample was collected at the conclusion of field sampling on April 28, 2021 at 12:07 p.m. to ensure no cross-contamination occurred during sampling/monitoring activities.

To determine the relative percent difference (RPD) between the duplicate sample and the monitoring well sample from which it was collected can be calculated using the following formula:

$$\% \text{ RPD} = \text{ABS}\left(\frac{X_1 - X_2}{\frac{X_1 + X_2}{2}}\right) * 100\%$$

Where: X_1 is the original value (PC-2), and
X_2 is the duplicate value (GW-DUP)

For groundwater samples, the greatest calculated RPD was for Iron at 6.9%. Manganese also registered an elevated RPD of 4.7%. As a result, the aluminum and iron groundwater samples concentrations would likely be qualified as estimated (J flagged) in data validation. The low precision of the metals results may be due to turbidity at the time of sampling. Typically turbidity increases after the well is purged through the use of a dedicated bailer. Analytical results of the trip blank was non-detect for VOCs. The results of the QA/QC samples confirm the adequacy of decontamination, handling and transportation procedures to meet quality requirements for the monitoring program.

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Conclusions and Recommendations

CA updated the database of historical surface water and sediment sample data summary tables prepared by NYSDOT previous sampling consultant TRC to assess historical data trends at the Site. The database charts for the historical surface water and sediment sampling data is provided in Table 6 of this letter report. The historical groundwater data charts could not be updated as the sample data summary tables were not shown in the previous fifth-quarter reports by TRC; however, CA extrapolated the groundwater data from TRC's trending graphs and calculated contaminant data trends. The following presents the conclusions of this round of monitoring, including a review of the documented data trends for groundwater, surface water and sediment sample data.

Groundwater
Overall, the groundwater flow is generally east to west for this Site.

There were no VOCs, SVOCs, or total cyanide detected above the NYSDEC Class GA standards or Guidance Values in the groundwater samples. Chloride was not detected above its respective standard of 250 mg/L in any of the groundwater samples except for sample PC-1 and PC-3 which slightly exceeded the standard at 257 mg/L and 264 mg/L, respectively. Although some heavy metals were detected above the NYSDEC Class GA standards or Guidance Values, groundwater is not used for drinking water purposes at the Site and appear to be background levels for the area. Additionally, the data trends for metal remain mostly steady or on an overall downward trend.

In August 2018, the NYSDEC was petitioned by NYSDOT to allow for the discontinuation of groundwater testing for VOCs, SVOCs, and total cyanide, at the Site. Given the results of this round of monitoring, CA recommends that a subsequent request be filed with NYSDEC to discontinue VOC, SVOC, and cyanide groundwater testing in future monitoring events. The data trends for the detected elevated metals and chloride in groundwater remain mostly steady or on an overall downward trend.

Surface Water
There were no VOCs detected above the NYSDEC Class GA standards or NYSDEC Class A Surface Water standards in the surface water samples. Several SVOCs {specifically, Polycyclic Aromatic Hydrocarbons (PAH's)} were detected slightly above the NYSDEC Class A surface water standards in up-gradient surface water sample SW-1. These low level detections could be related to natural organic decomposition of leaf debris. Additionally, CA did observe organic sheen's on the surface water during sample collection. SVOC's were not detected in surface water samples SW-2, SW-3, and SW-4. Chloride exceeded the NYSDEC Class A Surface Water Standard in surface water sample SW-3 at 278 mg/L. Chloride was not detected in surface water samples SW-1, SW-2, and SW-4. Cyanide was not detected in any of the surface water samples.

The highest aluminum, iron, and manganese surface water concentrations were detected at the upstream sample location SW-1 at 1,660 ug/L, 15,100 ug/L, and 3,880 ug/L, respectively. The highest concentration of sodium was found in downstream location SW-3 at 132,000 ug/L. Since these elevated metal levels were detected at the upstream sample location, it is unlikely the landfill is contributing to the increase in metals and the elevated levels may be related to an up-

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gradient source. The elevated level of sodium at surface water sample SW-3 may be related to stormwater run-off associated with Town vehicles spreading salt onto the asphalt paved parking lot surfaces during winter months.

Based on the historical monitoring data and contaminant trend data, no VOCs have been detected in the Site surface water samples since 2008. Additionally, no SVOCs have been detected in sediments since 2013 and the low levels of SVOC's detected during this round of sampling appears to be related to natural organic decomposition of leaf debris/organics in the up-gradient drainage swale.

The contaminant data trends for metals in surface water remain steady or on a general downward trend as shown in Table 6.

Sediment

Trace amounts of VOCs and SVOCs were detected in up-gradient sediment sample SD-1. The three (3) VOC compounds [acetone, methyl ethyl ketone (MEK) and naphthalene] were detected above the laboratory reporting limits but below the Class A SGV guidance values. Acetone was also detected in sediment sample SD-3. As noted, acetone is typically associated with laboratory contamination and is not a concern at the Site. The seven (7) SVOC compounds (Benz(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Fluoranthene, and Pyrene) were also detected above the laboratory reporting limits in sediment sample SD-1 but below the Class A SGV guidance values. These low level detections of VOCs and SVOCs appear to be related to organic debris decomposition within the up-gradient drainage swale and not indicative of petroleum contamination.

Five (5) metals: cadmium, copper, lead, nickel, and zinc were detected at levels greater than the Class A SGVs in sediment sample SD-3. Additionally, nickel was also detected above the Class C SGV in sediment sample SD-2. Compared to the previous sampling rounds, overall metal concentrations has remained steady across the site.

Although trace levels of VOCs and SVOCs have been detected in this round of sampling and during previous sampling events, insignificant estimated concentrations have been reported and do not appear to be Site contaminants of concern. Based on this current sampling event and contaminant trend data for VOCs and SVOC in sediments from previous sampling events, CA recommends that the NYSDOT petition NYSDEC to discontinue sediment sampling and testing for VOCs and SVOC at the landfill Site.

Landfill Gas

Carbon monoxide (CO) and hydrogen sulfide (H_2S) gases were non-detect (0.0 ppm) in the four gas vents. Methane (% CH_4) was also non-detect in the four gas vents. Oxygen (% O_2) and carbon dioxide (% CO_2) readings were in the normal range in the four gas vents. PID and FID measuring hydrocarbons were also non-detect (0.0 ppm) in the four gas vents. Ambient air gas monitoring at the upwind and downwind locations yielded typical background levels for oxygen and carbon dioxide; and methane, hydrogen sulfide, carbon monoxide, and VOCs were not detected at either the upwind or downwind portions of the Site. To more accurately measure the

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gases emanating out of the landfill gas vents, CA recommends that gas monitoring ports (with valves) be installed at the base of the vents just above the ground surface.

Field Survey

CA did not observe any vector/vermin at the site during sampling. However, it should be noted that locating monitoring well PC-3 was very difficult as the area surrounding the well, as well as the path leading to the well, was extremely overgrown. A path should be cleared to access the well and the well area flagged to easily locate the monitoring well. No signs of well damage or evidence of tampering were noted during visual inspection of the wells.

The post-closure monitoring of the Harrison Landfill Site should be continued on a fifth-quarter basis unless otherwise decided by NYSDEC. If NYSDEC agrees to the above findings and conclusions and approves the discontinuation of select analytical parameters suggested above, a revised or addendum Sampling Work Plan would have to be prepared by NYSDOT environmental consultant and approved by the NYSDEC. The next monitoring round is anticipated to take place in July 2022.

If you have any questions, or require any additional information, please feel free to contact me.

Very truly yours,

CASHIN ASSOCIATES, P.C.

Paul DiMaria, P.E.
Vice President

cc: Mr. David Newell, P.E. – NYSDOT Consultant Manager
Mr. Christopher S. Kappeller – NYSDOT Environmental Specialist

ATTACHMENTS:

Tables

Table 1 – Analytical Results of Groundwater Samples
Table 2 – Analytical Results of Surface Water Samples
Table 3 – Analytical Results of Sediment Samples for Metals
Table 4 – Analytical Results of Sediment Samples for VOCs and SVOCs
Table 5 – Gas Monitoring Results
Table 6 – Surface Water and Sediment Contaminant Trending Data

Figures

Figure 1 – Site Location Map
Figure 2 – Site Map
Figure 3 – Groundwater Well Locations
Figure 4 – Surface Water and Sediment Sample Locations
Figure 5 – Gas Vent Locations

Appendices

Appendix A – Analytical Data
Appendix B – Sampling Logs

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Table 1. Analytical Results of Groundwater Samples

		Well ID:	LMW-2	PC-1	PC-2	LMW-4	PC-3	GW-DUP	Field Blank	Trip Blank
		Depth to Water:	9.87	3.45	2.33	2.76	9.26	2.33	NA	NA
		Location:	Upgradient background	dow ngradient	dow ngradient	dow ngradient	off-site dow ngradient	PC-2	DI Water	Sampling Cooler
		Depth of Well:	20	16.73	9.5	12.0	18.37	9.5	NA	NA
Analyte	**Units**	**NYSDEC CLASS GA STD/GV [1]**								
Volatiles										
Acetone	ug/L	50	ND	ND	ND	4.9 JS	ND	ND	ND	ND
SemiVolatiles										
Bis(2-ethylhexyl)phthalate	ug/L	5	1	ND	ND	ND	1.2	ND	**22**	NA
Metals (Dissolved)										
Mercury	ug/L	0.7	ND	ND	ND	ND	ND	ND	ND	NA
Aluminum	ug/L	2,000	21	22	18	57	15	17	10 J	NA
Antimony	ug/L	3	ND	ND	ND	ND	ND	ND	ND	NA
Arsenic	ug/L	25	ND	3 J	2 J	3 J	ND	ND	ND	NA
Barium	ug/L	1,000	106	156	87	72	156	86	ND	NA
Beryllium	ug/L	3	ND	ND	ND	ND	ND	ND	ND	NA
Cadmium	ug/L	5	ND	ND	ND	ND	ND	ND	ND	NA
Calcium	ug/L	NS	73,800	138,000	76,400	39,700	75,500	76,000	318	NA
Chromium	ug/L	50	ND	ND	15	ND	ND	ND	ND	NA
Cobalt	ug/L	NS	ND	1 J	5 J	18	3 J	4 J	ND	NA
Copper	ug/L	200	3 J	2 J	ND	ND	ND	ND	ND	NA
Iron	ug/L	300 / 500[2]	ND	ND	**30,000**	**24,500**	20	**28,000**	40	NA
Lead	ug/L	25	1 J	ND	3	3	ND	3	ND	NA
Magnesium	ug/L	35,000	24,900	20,800	17,300	16,400	19,200	16,900	44	NA
Manganese	ug/L	300 / 500[2]	103	**1,870**	**12,400**	**14,000**	**1,140**	**13,000**	**5 J**	NA
Nickel	ug/L	100	3 J	2 J	2 J	2 J	2 J	ND	ND	NA
Potassium	ug/L	NS	3,500	4,800	3,500	2,700	6,100	3,400	ND	NA
Selenium	ug/L	10	ND	ND	ND	ND	ND	0	ND	NA
Silver	ug/L	50	ND	ND	ND	ND	ND	ND	ND	NA
Sodium	ug/L	20,000	**22,100**	**110,000**	**31,400**	**25,400**	**112,000**	**31,400**	130	NA
Thallium	ug/L	0.5	ND	ND	ND	ND	ND	ND	ND	NA
Vanadium	ug/L	NS	ND	6 J	ND	ND	ND	ND	3 J	NA
Zinc	ug/L	2,000	2 J	2 J	4 J	4 J	3 J	4 J	ND	NA
Chloride	mg/L	250	15.9	**257**	18.9	23.4	**264**	19.1	1.7 J	NA
Cyanide	mg/L	200	ND	ND	ND	ND	ND	ND	ND	NA
Water Quality Parameters - At Time of Sampling										
pH			7.2	7.6	6.86	6.65	6.91	6.86	NA	NA
Temperature	Celsius		10.41	10.92	10.48	10.29	9.11	10.48	NA	NA
Conductivity	ms/cm		0.658	1.204	0.721	0.649	1.012	0.721	NA	NA
Dissolved Oxygen	mg/L		5.18	5.28	4.65	5.32	4.92	4.65	NA	NA
Turbidity	NTUs		106	5.4	85.1	190	82.3	85.1	NA	NA

Notes:
[1] – NYSDEC Class GA Standards and Guidance Values are from the Division of Water Technical and Operation Guidance Series (1.1.1) dated June 1998, with addenda dated April 2000 and June 2004
[2] – Standard of 500 ug/L applies to the sum of Iron and Manganese
BOLD - indicates a concentration exceeding NYSDEC Standard or Guidance Value
ND - not detected at analytical detection limit
NS - no standard
NA – not applicable
J – Estimated below reporting level
ug/L – micrograms per liter
mg/L – milligrams per liter

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Table 2. Analytical Results of Surface Water Samples

			Sample ID:	SW-1	SW-2	SW-3	SW-4	Field Blank
			Depth:	0-4"	0-4"	0-4"	0-4"	
Analyte	Units	NYSDEC Class GA GW Std. [7]	NYSDEC Class A Surface Water Std. [1]					
Volatiles								
Acetone	ug/L	50	50	ND	ND	ND	ND	ND
SemiVolatiles								
Bis(2-ethylhexyl)phthalate	ug/L	5	5[1], 0.6[2]	ND	ND	ND	ND	**22**
Benz(a)anthracene	ug/L	0.002	0.002[1], 0.03[2], 0.23[3]	**0.08**	ND	ND	ND	ND
Benzo(a)pyrene	ug/L	ND	0.002[1], 0.0012[5]	**0.1**	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/L	0.002	0.002[1]	**0.09**	ND	ND	ND	ND
Benzo(k)fluoranthene	ug/L	0.002	0.002[1]	**0.1**	ND	ND	ND	ND
Chrysene	ug/L	0.002	0.002[1]	**0.09**	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/L	0.002	0.002[1]	**0.11**	ND	ND	ND	ND
Metals								
Mercury	ug/L	0.7	0.7[1], 7e-4[5], 0.77[2], 1.4[3], 0.0026[6]	ND	ND	ND	ND	ND
Aluminum	ug/L	NS	100[2]	**1,660**	97	**261**	**191**	10 J
Antimony	ug/L	3	3[1]	ND	ND	ND	ND	ND
Arsenic	ug/L	25	50[1], 150[2], 340[3]	ND	ND	ND	ND	ND
Barium	ug/L	1,000	1,000[1]	135	20	113	28	ND
Beryllium	ug/L	3	3[1]	ND	ND	ND	ND	ND
Cadmium	ug/L	5	5[1]	ND	ND	ND	ND	ND
Calcium	ug/L	NS	NS	41,700	36,000	163,000	35,400	318
Chromium	ug/L	50	50[1]	2	ND	ND	ND	ND
Cobalt	ug/L	NS	5[2]	2 J	ND	1 J	ND	ND
Copper	ug/L	200	200[1]	4 J	ND	2 J	1 J	ND
Iron	ug/L	300 / 500 [8]	300[2,4]	**15,100**	**470**	**1,590**	**860**	40
Lead	ug/L	25	50[1]	6	ND	6	1 J	ND
Magnesium	ug/L	35,000	35,000[1]	12,300	10,100	20,400	9,820	44
Manganese	ug/L	300 / 500 [8]	300[4]	**3,880**	230	**1,750**	**418**	5 J
Nickel	ug/L	100	100[1]	4 J	ND	2 J	ND	ND
Potassium	ug/L	NS	NS	3,200	2,600	5,200	2,700	ND
Selenium	ug/L	10	10[1], 4.6[2]	ND	ND	ND	ND	ND
Silver	ug/L	50	50[1]	ND	ND	ND	ND	ND
Sodium	ug/L	20,000	NS	8,540	15,600	**132,000**	**21,600**	ND
Thallium	ug/L	0.5	0.5[1], 8[2]	ND	ND	ND	ND	ND
Vanadium	ug/L	NS	14[2]	5 J	3 J	2 J	ND	3 J
Zinc	ug/L	2,000	2,000[1], 5,000[4]	20	ND	12	3 J	ND
Chloride	mg/L	250	250,000[1]	5.4	11.5	**278**	18	1.7 J
Cyanide	mg/L	200	200[1], 9000[5], 5.2[2], 22[3]	ND	ND	ND	ND	ND
Water Quality Parameters - At Time of Sampling								
pH				7.78	6.81	7.31	7.54	NA
Temperature	Celsius			9.84	10.80	16.29	13.91	NA
Conductivity	ms/cm			0.357	0.287	1.342	0.334	NA
Dissolved Oxygen	mg/L			2.24	6.13	4.44	6.3	NA
Turbidity	NTUs			16.4	2	5.8	0	NA
Flow	CFS			0	2.1	0	1.5	NA

Notes:
[1] NYSDEC Class A Standards for Surface Water as a source of Drinking Water
[2,3,4,5,6] Other NYSDEC Class A Surface Water Standards: Fish Propagation[2], Fish Survival[3], Aesthetic[4], Human Consumption of Fish[5], Wildlife Protection [6]

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[7] NYSDEC Class GA Standards and Guidance Values are from the Division of Water Technical and Operation Guidance Series (1.1.1) dated June 1998, with addenda dated April 2000 and June 2004
[8] Standard of 500 ug/L applies to the sum of Iron and Manganese
BOLD - indicates a concentration exceeding NYSDEC Standard or Guidance Value
ND - not detected at analytical detection limit
NS - no standard
NA – not applicable
J – Estimated below reporting level
S – Laboratory solvent, contamination is possible
* - Relative Percent Difference (RPD) between sample & duplicate
ug/L – micrograms per liter
mg/L – milligrams per liter

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Table 3. Analytical Results of Sediment Samples for Metals

			Sample ID:	SD-1	SD-2	SD-3	SD-4
		NYSDEC Guidance					
Analyte	**Units**	**Class A SGV[1]**	**Class C SGV[1]**				
Metals							
Mercury	mg/Kg	0.2	1	ND	ND	ND	ND
Aluminum	mg/Kg	NS	NS	6,880	5,210	13,600	4,220
Antimony	mg/Kg	NS	NS	ND	ND	ND	ND
Arsenic	mg/Kg	10	33	2.4	1.9	3.4	1.12
Barium	mg/Kg	NS	NS	190	103	89.7	66.2
Beryllium	mg/Kg	NS	NS	ND	ND	0.34 J	ND
Cadmium	mg/Kg	1	5	0.93	0.65	**2.37**	0.53
Calcium	mg/Kg	NS	NS	3,590	11,700	26,200	10,900
Chromium	mg/Kg	43	110	14	19.3	25.1	10.4
Cobalt	mg/Kg	NS	NS	10.3	11.4	13.9	4.12
Copper	mg/Kg	32	150	12	11.6	**45**	5.8
Iron	mg/Kg	NS	NS	25,700	18,300	25,100	13,200
Lead	mg/Kg	36	130	13.4	18.4	**122**	10.3
Magnesium	mg/Kg	NS	NS	2,470	19,600	16,200	7,610
Manganese	mg/Kg	NS	NS	9,180	2,690	651	1,830
Nickel	mg/Kg	23	49	12.5	**143**	**23.7**	8.43
Potassium	mg/Kg	NS	NS	1,830 N	1,820 N	1,920 N	815 N
Selenium	mg/Kg	NS	NS	ND	ND	ND	ND
Silver	mg/Kg	1	2.2	ND	ND	ND	ND
Sodium	mg/Kg	NS	NS	119 N	103 N	606 N	92 N
Thallium	mg/Kg	NS	NS	ND	ND	ND	ND
Vanadium	mg/Kg	NS	NS	22.1	17.8	52.8	14.1
Zinc	mg/Kg	120	460	55.8	79.5	**137**	42.2
Chloride	mg/Kg	NS	NS	ND	ND	291	ND
Cyanide	mg/Kg	NS	27	ND	0.47 J	ND	ND

Notes:
(1) - NYSDEC Class A and Class C Sediment Guidance Values are from NYSDEC Bureau of Habitat Screening and Assessment of Contaminated Sediment Guidance, dated June 24, 2014
NS - No Standard
ND - Not detected
J – Estimated below reporting level
* - Relative Percent Difference (RPD) between sample & duplicate
N - MS/MSD outside the recommended recovery window
mg/kg – milligrams per kilogram
Bolded values exceed Class A SGV; **bolded** and underline results exceed Class C SGV

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Table 4. Analytical Results of Sediment Samples for VOCs and SVOCs

Analyte	Freshwater Class A SGV[1] mg/Kg	Freshwater Class C SGV[1] mg/Kg	SD-1 mg/Kg	SD-2 mg/Kg	SD-3 mg/Kg	SD-4 mg/Kg
Volatiles						
Acetone	NS	NS	0.091 S	ND	33 JS	ND
Methyl ethyl ketone (MEK)	NS	NS	0.027 J	ND	ND	ND
Naphthalene*	7.7	7.7	0.0052 J	ND	ND	ND
Semi-Volatiles						
Benz(a)anthracene	16.82	16.82	0.660 J	ND	ND	ND
Benzo(b)fluoranthene	19.58	19.58	0.740 J	ND	ND	ND
Benzo(ghi)perylene	21.9	21.9	0.440 J	ND	ND	ND
Benzo(k)fluoranthene	19.6	19.6	0.530 J	ND	ND	ND
Chrysene	16.86	16.86	0.720 J	ND	ND	ND
Fluoranthene	14.16	14.16	0.990	ND	ND	ND
Pyrene *	13.96	13.96	0.800 J	ND	ND	ND

Notes:
(1) NYSDEC Class A and Class C Sediment Guidance Values are from NYSDEC Bureau of Habitat Screening and Assessment of Contaminated Sediment Guidance, dated June 24, 2014
NS - No Standard
ND - Not detected
J – Estimated below reporting level
S – Laboratory solvent, contamination is possible
mg/kg – milligrams per kilogram
* These compounds are PAHs; Sediment Guidance Values listed are from the NYSDEC document listed above, Table 7

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Table 5. Gas Monitoring Results

Station ID	PID (ppm)	FID (ppm)	CH_4 (ppm)	CO_2 (%)	O_2 (%)	H2S (ppm)	CO (ppm)
GV-1	0.0	0.0	0.0	0.1	18.8	0.0	0.0
GV-2	0.0	0.0	0.0	0.1	19.7	0.0	0.0
GV-3	0.0	0.0	0.0	0.2	19.1	0.0	0.0
GV-4	0.0	0.0	0.0	0.2	19.36	0.0	0.0
Upwind Ambient Air	0.0	0.0	0.0	0.1	21.3	0.0	0.0
Downwind Ambient Air	0.0	0.0	0.0	0.2	21.4	0.0	0.0

Notes:
ppm – parts per million

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Table 6. Surface Water and Sediment Contaminant Trending Data

Cadmium

	3/1/2001	6/1/2001	9/1/2001	12/1/2001	3/1/2002	6/1/2002	9/1/2002	12/1/2002
SW-1	ND	ND	ND	ND	ND	ND	ND	ND
SW-2	ND	*	ND	ND	ND	ND	ND	ND
SW-3	*	*	ND	*	*	ND	*	*
SW-4	ND	ND	ND	ND	ND	ND	ND	ND
SD-1	ND	ND	ND	ND	ND	ND	ND	ND
SD-2	ND	0.16	ND	0.38	ND	ND	ND	ND
SD-3	ND	ND	ND	ND	ND	ND	ND	ND
SD-4	ND	ND	ND	0.39	ND	ND	ND	0.98

	3/1/2003	6/1/2003	9/1/2003	12/1/2003	3/1/2004	6/1/2004	9/1/2004	12/1/2004
SW-1	0.77	1.4	ND	ND	ND	ND	ND	ND
SW-2	0.88	1.1	ND	ND	ND	ND	ND	ND
SW-3	*	1.3	*	*	ND	ND	ND	ND
SW-4	0.87	1	ND	ND	ND	ND	ND	ND
SD-1	ND	ND	ND	ND	ND	ND	ND	ND
SD-2	ND	ND	ND	ND	ND	ND	ND	ND
SD-3	ND	ND	ND	ND	ND	ND	ND	ND
SD-4	ND	ND	ND	ND	0.61	0.49	ND	ND

	10/29/2005	7/20/2007	10/29/2008	1/13/2010	4/20/2011	7/24/2012	10/24/2013	1/20/2015
SW-1	ND	0.8	0.098	ND	ND	ND	ND	ND
SW-2	ND	ND	ND	*	ND	5.3	ND	ND
SW-3	ND	*	0.18	*	ND	*	*	ND
SW-4	ND	ND	ND	ND	ND	3.9	ND	ND
SD-1	0.40	0.13	0.53	ND	ND	ND	ND	ND
SD-2	0.29	0.18	0.36	*	ND	ND	ND	ND
SD-3	1.00	0.55	0.017	*	ND	*	2.5	ND
SD-4	0.56	0.24	0.071	ND	ND	ND	ND	ND

	4/13/2016	7/10/2017	10/17/2018	1/16/2020	4/27/2021
SW-1	ND	ND	ND	ND	ND
SW-2	ND	ND	ND	ND	ND
SW-3	ND	*	ND	ND	ND
SW-4	ND	ND	ND	ND	ND
SD-1	ND	ND	ND	2.3	0.93
SD-2	ND	ND	ND	0.86	0.65
SD-3	2.6	*	1.2	2.1	2.37
SD-4	ND	ND	1.9	0.99	0.53

Notes:
ND – Not Detected
* - Historical Data Not Available
Surface Water (SW) samples are in ug/L, unless otherwise noted
Sediment (SD) samples are in mg/Kg

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Copper

	3/1/2001	6/1/2001	9/1/2001	12/1/2001	3/1/2002	6/1/2002	9/1/2002	12/1/2002
SW-1	ND	ND	15	ND	5.1	ND	ND	0.88
SW-2	ND	*	4.7	ND	ND	ND	ND	0.9
SW-3	*	*	4	*	*	ND	*	*
SW-4	ND	ND	120	ND	ND	ND	ND	0.61
SD-1	15	*	33	17	15	14	16	12
SD-2	11	13	10	29	18	12	7.6	10
SD-3	14	*	11	12	23	17	18	19
SD-4	10	10	11	980	13	8.5	8.7	10

	3/1/2003	6/1/2003	9/1/2003	12/1/2003	3/1/2004	6/1/2004	9/1/2004	12/1/2004
SW-1	5.7	3.3	ND	ND	39	ND	ND	ND
SW-2	ND	3.2	ND	ND	4.1	ND	ND	ND
SW-3	*	6.7	*	*	5.9	ND	ND	ND
SW-4	ND	ND	ND	ND	5.4	ND	ND	ND
SD-1	9.6	24	25	23	31	35	25	31
SD-2	69	18	12	10	16	11	5.8	36
SD-3	9.7	*	18	11	27	12	16	13
SD-4	8.1	9	14	7.8	16	14	7.5	13

	10/29/2005	7/20/2007	10/29/2008	1/13/2010	4/20/2011	7/24/2012	10/24/2013	1/20/2015
SW-1	ND	97	12	ND	ND	ND	ND	ND
SW-2	ND	22	28	*	ND	160	ND	ND
SW-3	ND	*	14	*	ND	*	*	ND
SW-4	ND	35	12	ND	ND	81	ND	ND
SD-1	16	17	74	20	27	11	15	13
SD-2	11	11	84	*	48	37	13	29
SD-3	24	22	21	*	11	*	35	45
SD-4	18	18	11	7.4	17	25	12	20

	4/13/2016	7/10/2017	10/17/2018	1/16/2020	4/27/2021
SW-1	ND	ND	ND	3	4 J
SW-2	ND	ND	ND	ND	ND
SW-3	ND	*	ND	ND	2 J
SW-4	ND	ND	ND	ND	1 J
SD-1	50	54	15	39.1	12
SD-2	97	80	45	22.1	11.6
SD-3	46	*	45	36.3	45
SD-4	11	11	45	15.1	5.8

Notes:
ND – Not Detected
* - Historical Data Not Available
Surface Water (SW) samples are in ug/L, unless otherwise noted
Sediment (SD) samples are in mg/Kg

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Iron

	3/1/2001	6/1/2001	9/1/2001	12/1/2001	3/1/2002	6/1/2002	9/1/2002	12/1/2002
SW-1	ND	69	ND	ND	500	ND	ND	84
SW-2	ND	*	ND	ND	ND	ND	ND	28
SW-3	*	*	ND	*	*	ND	*	*
SW-4	ND	ND	ND	ND	ND	ND	110	31
SD-1	11000	*	13000	16000	16000	15000	18000	14000
SD-2	13000	13000	13000	27000	20000	15000	12000	13000
SD-3	11000	*	13000	14000	18000	15000	15000	15000
SD-4	13000	13000	15000	85000	17000	14000	15000	11000

	3/1/2003	6/1/2003	9/1/2003	12/1/2003	3/1/2004	6/1/2004	9/1/2004	12/1/2004
SW-1	80	41	210	ND	ND	120	140	380
SW-2	ND	460	80	ND	ND	ND	130	ND
SW-3	*	240	ND	*	ND	ND	ND	ND
SW-4	40	110	190	ND	ND	ND	160	160
SD-1	11000	12000	26000	21000	25000	30000	21000	25000
SD-2	16000	17000	20000	23000	15000	16000	8700	15000
SD-3	15000	*	18000	11000	22000	13000	11000	15000
SD-4	14000	16000	23000	16000	19000	16000	13000	16000

	10/29/2005	7/20/2007	10/29/2008	1/13/2010	4/20/2011	7/24/2012	10/24/2013	1/20/2015
SW-1	700	78000	510	850	310	7,100	1,900	170
SW-2	610	450	440	*	410	140,000	520	ND
SW-3	180	*	190	*	170	*	*	ND
SW-4	570	8200	530	570	170	85,000	300	380
SD-1	16,000	9900	66000	19,000	28,000	16,000	15,000	22,000
SD-2	12,000	11000	67000	*	58,000	78,000	20,000	35,000
SD-3	17,000	13000	16000	*	15,000	*	23,000	47,000
SD-4	14,000	12000	16000	12,000	19,000	33,000	16,000	34,000

	4/13/2016	7/10/2017	10/17/2018	1/16/2020	4/27/2021
SW-1	200	1,400	1,800	26,700	15,100
SW-2	ND	650	330	390	470
SW-3	310	*	1200	580	1,590
SW-4	180	980	20000	260	860
SD-1	43,000	78,000	31,000	36,900	25,700
SD-2	110,000	110,000	34,000	20,800	18,300
SD-3	43,000	*	35000	20,300	25,100
SD-4	20,000	27,000	44,000	24,100	13,200

Notes:
ND – Not Detected
* - Historical Data Not Available
Surface Water (SW) samples are in ug/L, unless otherwise noted
Sediment (SD) samples are in mg/Kg

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Lead

	3/1/2001	6/1/2001	9/1/2001	12/1/2001	3/1/2002	6/1/2002	9/1/2002	12/1/2002
SW-1	ND	ND	ND	ND	ND	ND	ND	ND
SW-2	ND	*	ND	ND	ND	ND	ND	ND
SW-3	*	*	ND	*	*	ND	*	*
SW-4	ND	ND	ND	ND	ND	ND	ND	ND
SD-1	11	*	33	8.9	14	12	13	21
SD-2	25	31	17	160	60	18	7.1	19
SD-3	92	*	43	62	22	64	180	210
SD-4	11	23	29	370	24	14	28	19

	3/1/2003	6/1/2003	9/1/2003	12/1/2003	3/1/2004	6/1/2004	9/1/2004	12/1/2004
SW-1	ND	ND	ND	ND	ND	ND	ND	ND
SW-2	ND	ND	ND	ND	ND	ND	ND	ND
SW-3	*	ND	*	*	ND	ND	ND	ND
SW-4	ND	ND	ND	ND	ND	ND	ND	ND
SD-1	35	14	32	33	35	51	36	48
SD-2	15	30	15	29	11	17	11	13
SD-3	50	*	93	120	53	96	140	7.5
SD-4	16	35	27	22	29	27	16	21

	10/29/2005	7/20/2007	10/29/2008	1/13/2010	4/20/2011	7/24/2012	10/24/2013	1/20/2015
SW-1	ND	140	ND	ND	ND	ND	1.1	ND
SW-2	ND	ND	ND	*	ND	130	1.9	ND
SW-3	ND	*	ND	*	ND	*	*	ND
SW-4	ND	15	ND	ND	ND	160	ND	ND
SD-1	26	18	87	ND	26	ND	ND	15
SD-2	14	11	100	*	68	61	12	30
SD-3	94	120	52	*	9.7	*	270	78
SD-4	18	19	49	9.4	32	57	20	13

	4/12/2016	7/10/2017	10/17/2018	1/16/2020	4/27/2021
SW-1	ND	ND	ND	6	6
SW-2	ND	ND	ND	ND	ND
SW-3	ND	*	ND	ND	6
SW-4	ND	ND	24	ND	1 J
SD-1	29	52	21	40.2	13.4
SD-2	120	100	51	13.8	18.4
SD-3	91	*	150	120	122
SD-4	13	13	73	32	10.3

Notes:
ND – Not Detected
* - Historical Data Not Available
Surface Water (SW) samples are in ug/L, unless otherwise noted
Sediment (SD) samples are in mg/Kg

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Manganese

	3/1/2001	6/1/2001	9/1/2001	12/1/2001	3/1/2002	6/1/2002	9/1/2002	12/1/2002
SW-1	65	99	46	95	80	340	1500	160
SW-2	8.3	*	15	30	ND	12	460	2
SW-3	ND	*	ND	*	*	11	*	*
SW-4	150	59	22	61	27	16	110	9.7
SD-1	240	*	910	220	270	180	250	280
SD-2	360	290	650	450	780	700	660	720
SD-3	200	*	240	340	800	330	240	250
SD-4	690	600	1000	540	990	370	350	740

	3/1/2003	6/1/2003	9/1/2003	12/1/2003	3/1/2004	6/1/2004	9/1/2004	12/1/2004
SW-1	620	95	260	16000	330	820	10000	660
SW-2	8.7	6.5	22	15000	ND	16	10000	19
SW-3	*	99	*	*	ND	11	11000	12
SW-4	64	55	120	16000	25	63	9200	26
SD-1	170	330	410	320	380	650	440	430
SD-2	850	2800	870	880	1300	1300	670	1500
SD-3	730	*	370	300	550	200	180	310
SD-4	610	450	530	370	820	1400	850	1300

	10/29/2005	7/20/2007	10/29/2008	1/13/2010	4/20/2011	7/24/2012	10/24/2013	1/20/2015
SW-1	670	5400	550	700	260	14,000	1,700	340
SW-2	500	520	220	*	210	33,000	340	41
SW-3	110	*	21	*	210	*	*	62
SW-4	240	2600	180	130	50	31,000	230	70
SD-1	490	130	20000	990	4,200	3,700	580	2,200
SD-2	630	1600	25000	*	29,000	5,800	2,500	10,000
SD-3	420	200	310	*	390	*	700	930
SD-4	810	590	600	1,600	3,400	12,000	1,500	1,800

	4/13/2016	7/10/2017	10/17/2018	1/16/2020	4/27/2021
SW-1	400	1,300	1,500	16,100	3,880
SW-2	25	370	280	262	230
SW-3	280	*	1100	554	1,750
SW-4	60	700	4600	99	418
SD-1	110	5,800	17,000	15,000	9,180
SD-2	41,000	52,000	18,000	2,550	2,690
SD-3	870	*	430	797	651
SD-4	1,100	1,900	1,300	1,110	1,830

Notes:
ND – Not Detected
* - Historical Data Not Available
Surface Water (SW) samples are in ug/L, unless otherwise noted
Sediment (SD) samples are in mg/Kg

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Nickel

	3/1/2001	6/1/2001	9/1/2001	12/1/2001	3/1/2002	6/1/2002	9/1/2002	12/1/2002
SW-1	ND	ND	ND	ND	47	ND	ND	ND
SW-2	ND	*	ND	ND	ND	ND	ND	ND
SW-3	*	*	ND	*	*	ND	*	*
SW-4	ND	ND	ND	ND	ND	ND	ND	ND
SD-1	7.6	*	11	12	11	14	14	13
SD-2	9.5	12	10	36	21	13	8.9	12
SD-3	7.5	*	9.3	11	17	15	14	16
SD-4	7.5	9.2	11	36	12	12	10	12

	3/1/2003	6/1/2003	9/1/2003	12/1/2003	3/1/2004	6/1/2004	9/1/2004	12/1/2004
SW-1	ND	ND	ND	ND	2.1	ND	ND	ND
SW-2	ND	2.7	ND	ND	ND	ND	ND	ND
SW-3	*	ND	*	*	1.4	ND	ND	ND
SW-4	ND	ND	ND	ND	2.9	ND	ND	ND
SD-1	8.9	9.5	20	17	22	23	16	22
SD-2	9.9	14	14	13	14	13	25	12
SD-3	9.8	*	16	9.1	20	9.6	11	11
SD-4	8.5	8.5	16	11	15	14	9	13

	10/29/2005	7/20/2007	10/29/2008	1/13/2010	4/20/2011	7/24/2012	10/24/2013	1/20/2015
SW-1	ND	46	0.66	ND	ND	ND	ND	ND
SW-2	ND	ND	0.37	*	ND	75	ND	ND
SW-3	ND	*	0.54	*	ND	*	ND	ND
SW-4	ND	5.9	0.66	ND	ND	51	ND	ND
SD-1	15	7.4	33	16	20	11	11	15
SD-2	13	8.1	43	*	ND	ND	11	17
SD-3	19	12	15	*	11	*	22	28
SD-4	14	9.1	11	10	20	23	13	36

	4/13/2016	7/10/2017	10/17/2018	1/16/2020	4/27/2021
SW-1	ND	ND	ND	ND	4 J
SW-2	ND	ND	ND	ND	ND
SW-3	ND	*	ND	ND	2 J
SW-4	ND	ND	ND	ND	ND
SD-1	40	47	ND	25.6	12.5
SD-2	65	45	ND	11.9	143
SD-3	39	*	35	22.2	23.7
SD-4	18	22	30	25	8.43

Notes:
ND – Not Detected
* - Historical Data Not Available
Surface Water (SW) samples are in ug/L, unless otherwise noted
Sediment (SD) samples are in mg/Kg

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Zinc

	3/1/2001	6/1/2001	9/1/2001	12/1/2001	3/1/2002	6/1/2002	9/1/2002	12/1/2002
SW-1	ND	ND	25	17	16	ND	ND	9.6
SW-2	ND	*	4.1	18	10	ND	ND	ND
SW-3	*	*	ND	*	*	53	*	*
SW-4	ND	ND	4.1	11	7.2	ND	ND	ND
SD-1	48	*	230	46	44	46	51	87
SD-2	38	53	34	150	72	47	28	24
SD-3	44	*	46	38	51	72	76	78
SD-4	26	48	58	220	60	41	47	500

	3/1/2003	6/1/2003	9/1/2003	12/1/2003	3/1/2004	6/1/2004	9/1/2004	12/1/2004
SW-1	13	120	ND	ND	41	64	ND	51
SW-2	9.8	37	ND	ND	29	ND	ND	ND
SW-3	*	19	*	*	40	54	ND	ND
SW-4	ND	ND	ND	ND	37	61	ND	ND
SD-1	40	390	84	67	82	130	86	96
SD-2	39	59	45	50	37	67	33	35
SD-3	42	*	71	63	74	60	60	28
SD-4	45	60	79	54	77	82	45	53

	10/29/2005	7/20/2007	10/29/2008	1/13/2010	4/20/2011	7/24/2012	10/24/2013	1/20/2015
SW-1	57	270	ND	ND	ND	ND	ND	ND
SW-2	5.8	ND	ND	*	ND	ND	ND	ND
SW-3	7.1	*	ND	*	ND	ND	ND	ND
SW-4	ND	38	ND	ND	ND	ND	ND	ND
SD-1	40	35	360	45	94	35	32	70
SD-2	32	33	360	*	270	240	52	160
SD-3	120	81	60	*	32	*	190	140
SD-4	57	56	53	44	93	140	50	150

	4/12/2016	7/10/2017	10/17/2018	1/16/2020	4/27/2021
SW-1	ND	ND	ND	45	20
SW-2	ND	ND	ND	2	ND
SW-3	ND	*	ND	ND	12
SW-4	ND	ND	110	ND	3 J
SD-1	130	180	69	137	55.8
SD-2	590	520	260	58.8	79.5
SD-3	170	*	200	131	137
SD-4	84	81	260	89.5	42.2

Notes:
ND – Not Detected
* - Historical Data Not Available
Surface Water (SW) samples are in ug/L, unless otherwise noted
Sediment (SD) samples are in mg/Kg

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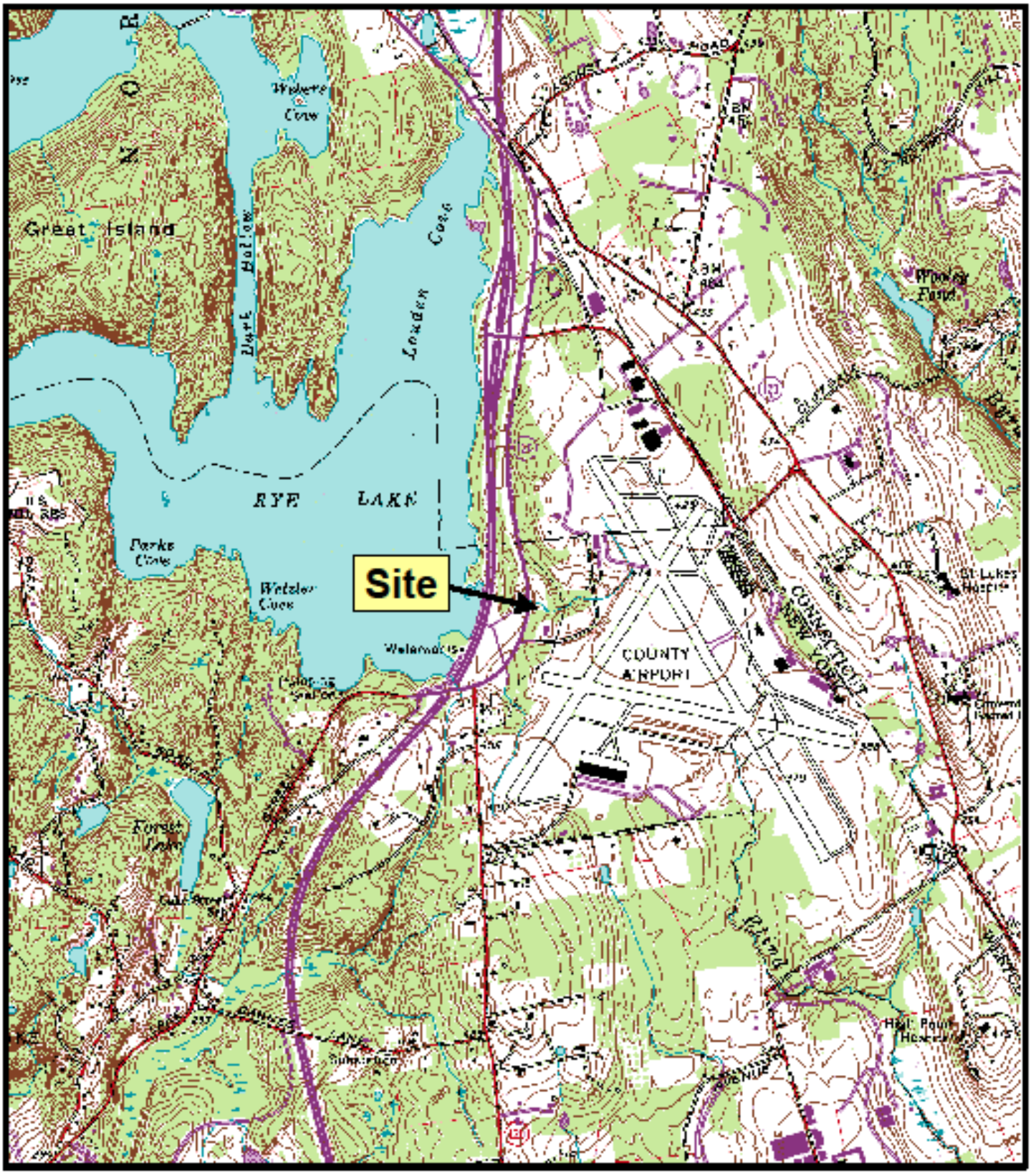

FIGURE 1

Harrison Subresidency Post Closure
Quarterly Monitoring Report
Site Location

NYSDOT PIN: 8806.51.101

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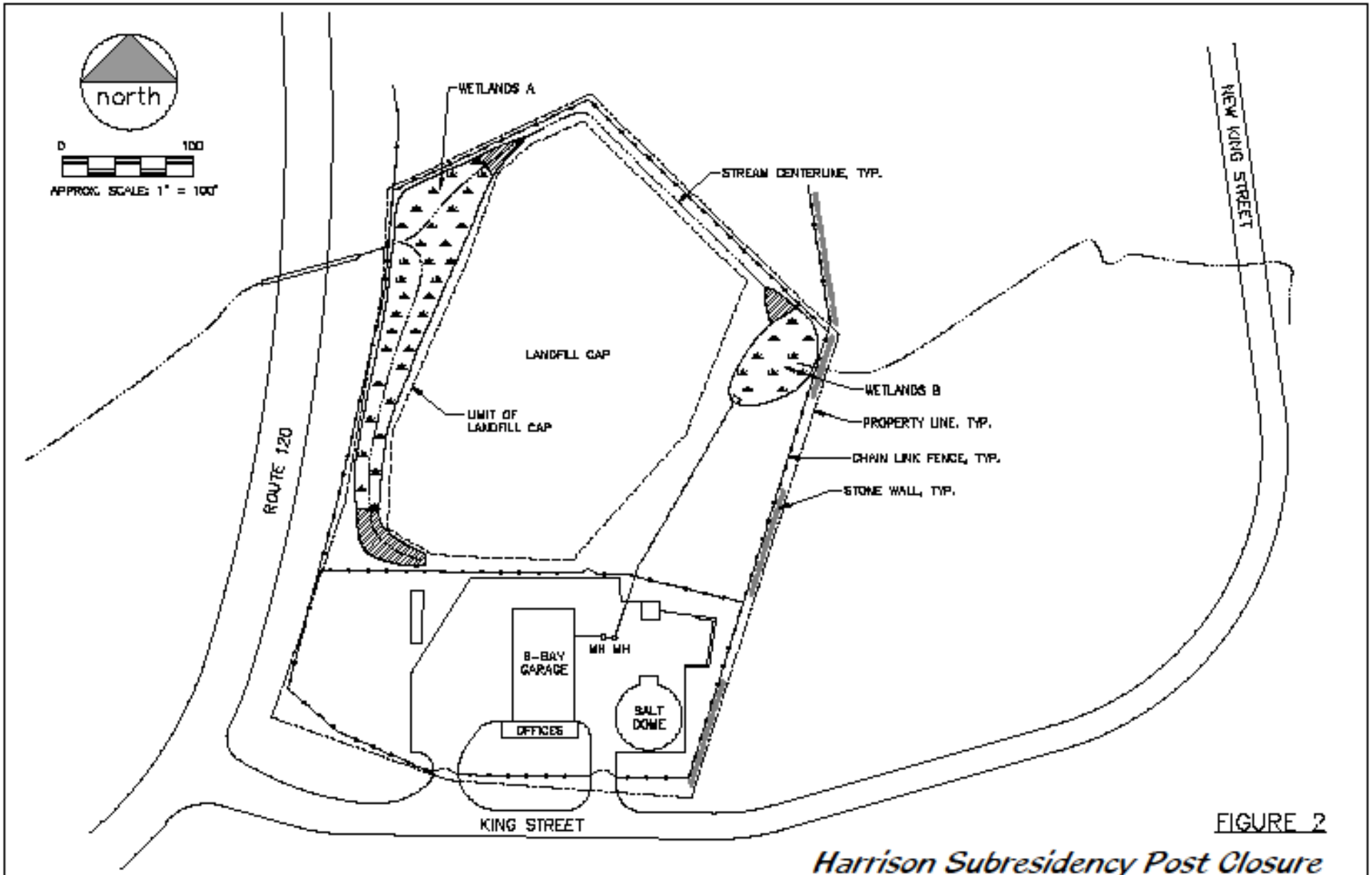

FIGURE 2

Harrison Subresidency Post Closure
Quarterly Monitoring Report
Site Map

NYSDOT PIN: 8806.51.101

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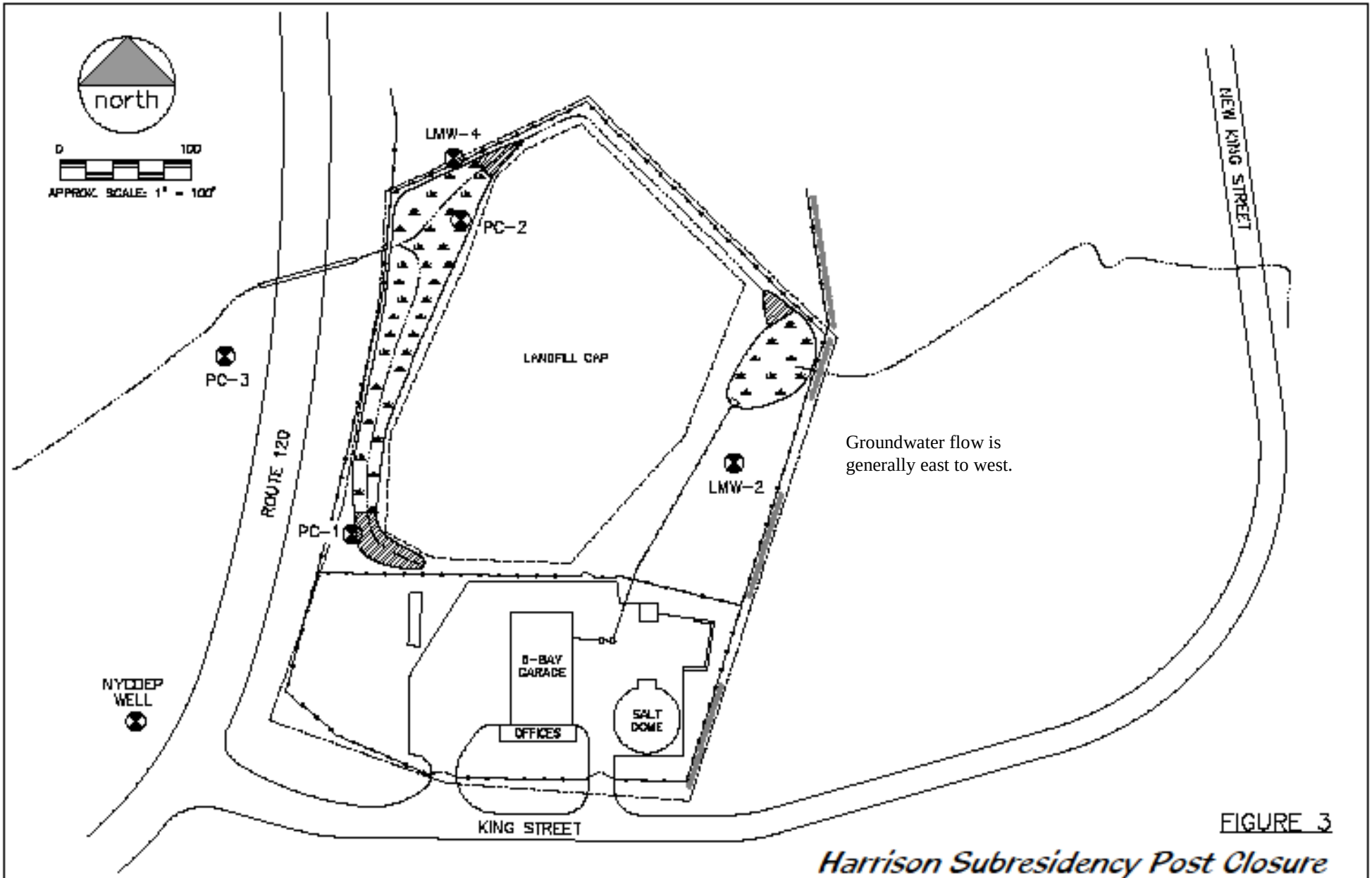

FIGURE 3

Harrison Subresidency Post Closure
Quarterly Monitoring Report
Groudwater Monitoring Well Locations

NYSDOT PIN: 8806.51.101

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1001.003

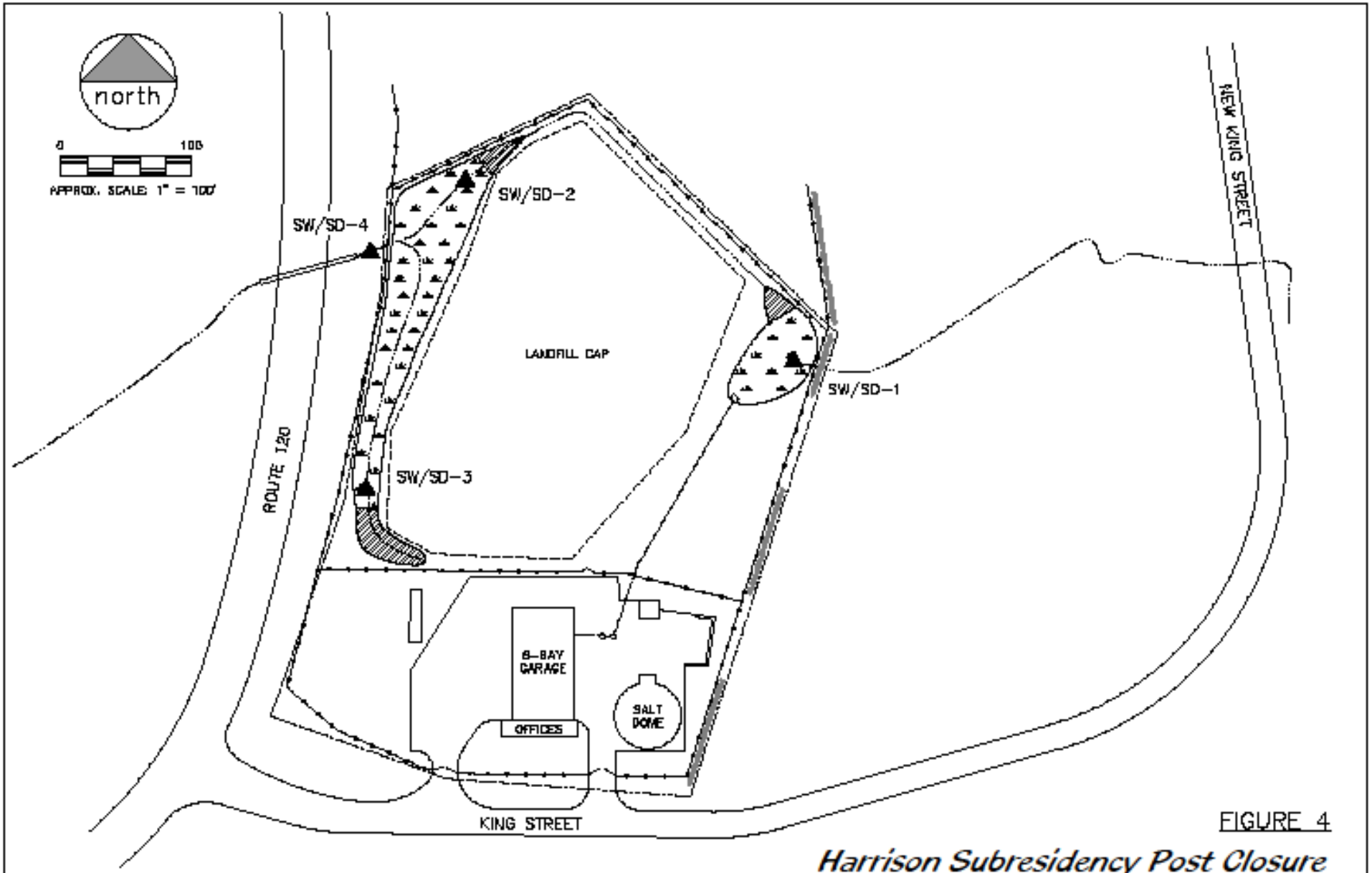

FIGURE 4

Harrison Subresidency Post Closure
Quarterly Monitoring Report
Surface Water and Sediment Sample Locations

NYSDOT PIN: 8806.51.101

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1001.003

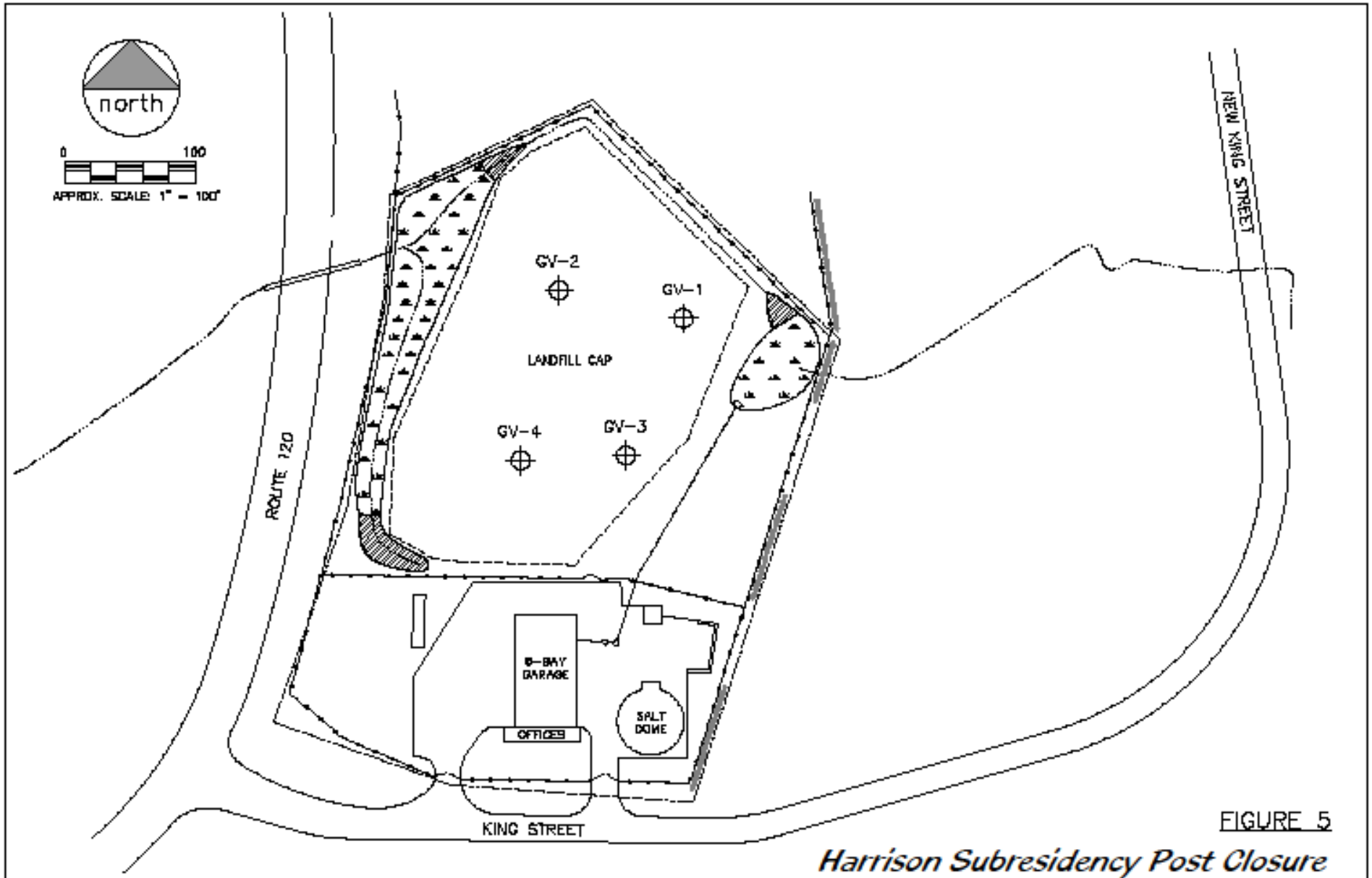

FIGURE 5

Harrison Subresidency Post Closure
Quarterly Monitoring Report
Gas Vent Locations

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Appendix A

Analytical Data

PHOENIX
Environmental Laboratories, Inc.

Friday, June 25, 2021

Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Project ID: NYSDOT HARRISON LANDFILL
SDG ID: GCI17289
Sample ID#s: CI17289 - CI17304

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE

Client: Cashin Associates, PC

Project: NYSDOT HARRISON LANDFILL

Laboratory Project: GCI17289

Environmental Laboratories, Inc.
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June 25, 2021 **SDG I.D.: GCI17289**

Cashin Associates, PC NYSDOT HARRISON LANDFILL

Methodology Summary

General Chemistry

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed.Update III

ICP-MS

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update V, Method 6020B.
Environmental Protection Agency, EPA-600/4-79-020, method 200.8

Mercury

Methods for Chemical Analyses of Water and Wastes, EPA, Environmental Monitoring Systems Laboratory Cincinnati (EMSL-CL), EPA-600/4-79-020, method 245.1
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, 7470A.

Mercury Prep

Soil Sample - USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 7471B.

Metals

Methods for Chemical Analyses of Water and Wastes, EPA, Environmental Monitoring Systems Laboratory Cincinnati (EMSL-CL), EPA-600/4-79-020, method 200.7.

ICP :
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 6010D.
Mercury:
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, 7471B

Semivolatile Organic Compounds

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8270D.

Semi-volatiles analysis

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8270D (SIM - selective ion monitoring mode).

Total Cyanide

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USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 9010B and SW9012B

Volatile Organic Compounds:

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed.Update III, Method 8260C and Environmental Protection Agency, EPA-600/4-79-020, Revised March 1983 (Methods 624) as printed in 40CFR part 136.

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June 25, 2021 **SDG I.D.: GCI17289**

Cashin Associates, PC NYSDOT HARRISON LANDFILL

Laboratory Chronicle

The samples in this delivery group were received at 2.0°C.

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CI17289	1,4-dioxane	04/27/21	04/29/21	04/29/21	MH	Y
CI17289	Aluminum	04/27/21	04/28/21	05/03/21	TH	Y
CI17289	Aluminum (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17289	Antimony	04/27/21	04/28/21	05/05/21	CPP	Y
CI17289	Antimony (Dissolved)-LDL	04/27/21	04/29/21	05/08/21	CPP	Y
CI17289	Arsenic - LDL	04/27/21	04/28/21	04/29/21	TH	Y
CI17289	Arsenic, (Dissolved)	04/27/21	04/29/21	04/30/21	TH	Y
CI17289	Barium	04/27/21	04/28/21	04/29/21	TH	Y
CI17289	Barium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17289	Beryllium	04/27/21	04/28/21	04/29/21	TH	Y
CI17289	Beryllium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17289	Cadmium	04/27/21	04/28/21	04/29/21	EK	Y
CI17289	Cadmium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17289	Calcium	04/27/21	04/28/21	05/03/21	TH	Y
CI17289	Calcium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17289	Chloride	04/27/21	04/29/21	04/29/21	TB	Y
CI17289	Chromium	04/27/21	04/28/21	04/29/21	TH	Y
CI17289	Chromium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17289	Cobalt	04/27/21	04/28/21	04/29/21	TH	Y
CI17289	Cobalt, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17289	Copper	04/27/21	04/28/21	04/29/21	TH	Y
CI17289	Copper, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17289	Iron	04/27/21	04/28/21	04/29/21	TH	Y
CI17289	Iron, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17289	Lead	04/27/21	04/28/21	04/29/21	TH	Y
CI17289	Lead (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17289	Magnesium	04/27/21	04/28/21	04/29/21	TH	Y
CI17289	Magnesium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17289	Manganese	04/27/21	04/28/21	05/03/21	TH	Y
CI17289	Manganese, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17289	Mercury	04/27/21	04/29/21	04/29/21	MGH	Y
CI17289	Mercury (Dissolved)	04/27/21	04/30/21	05/03/21	MGH	Y

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Cashin Associates, PC NYSDOT HARRISON LANDFILL

CI17289	Nickel	04/27/21	04/28/21	05/03/21	TH	Y
CI17289	Nickel, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17289	Potassium	04/27/21	04/28/21	04/29/21	TH	Y
CI17289	Potassium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17289	Selenium	04/27/21	04/28/21	05/05/21	CPP	Y
CI17289	Selenium (Dissolved)-LDL	04/27/21	04/29/21	05/08/21	CPP	Y
CI17289	Semivolatiles	04/27/21	04/29/21	05/03/21	WB	Y
CI17289	Silver	04/27/21	04/28/21	04/29/21	TH	Y
CI17289	Silver (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17289	Sodium	04/27/21	04/28/21	05/03/21	TH	Y
CI17289	Sodium (Dissolved)	04/27/21	04/29/21	05/02/21	TH	Y
CI17289	Thallium	04/27/21	04/28/21	05/06/21	CPP	Y
CI17289	Thallium (Dissolved)	04/27/21	04/29/21	05/08/21	CPP	Y
CI17289	Total Cyanide	04/27/21	04/29/21	04/29/21	O/GD	Y
CI17289	Vanadium	04/27/21	04/28/21	04/29/21	TH	Y
CI17289	Vanadium, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17289	Volatiles	04/27/21	04/29/21	04/29/21	MH	Y
CI17289	Zinc	04/27/21	04/28/21	04/29/21	TH	Y
CI17289	Zinc, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17290	1,4-dioxane	04/27/21	04/29/21	04/29/21	HM	Y
CI17290	Aluminum	04/27/21	04/28/21	05/03/21	TH	Y
CI17290	Aluminum (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17290	Antimony	04/27/21	04/28/21	05/05/21	CPP	Y
CI17290	Antimony (Dissolved)-LDL	04/27/21	04/29/21	05/08/21	CPP	Y
CI17290	Arsenic - LDL	04/27/21	04/28/21	04/29/21	TH	Y
CI17290	Arsenic, (Dissolved)	04/27/21	04/29/21	04/30/21	TH	Y
CI17290	Barium	04/27/21	04/28/21	04/29/21	TH	Y
CI17290	Barium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17290	Beryllium	04/27/21	04/28/21	04/29/21	TH	Y
CI17290	Beryllium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17290	Cadmium	04/27/21	04/28/21	04/29/21	EK	Y
CI17290	Cadmium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17290	Calcium	04/27/21	04/28/21	04/29/21	EK	Y
CI17290	Calcium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17290	Chloride	04/27/21	04/29/21	04/29/21	TB	Y
CI17290	Chromium	04/27/21	04/28/21	04/29/21	TH	Y
CI17290	Chromium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y

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Cashin Associates, PC NYSDOT HARRISON LANDFILL

CI17290	Cobalt	04/27/21	04/28/21	04/29/21	TH	Y
CI17290	Cobalt, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17290	Copper	04/27/21	04/28/21	04/29/21	TH	Y
CI17290	Copper, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17290	Iron	04/27/21	04/28/21	04/29/21	TH	Y
CI17290	Iron, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17290	Lead	04/27/21	04/28/21	04/29/21	TH	Y
CI17290	Lead (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17290	Magnesium	04/27/21	04/28/21	04/29/21	TH	Y
CI17290	Magnesium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17290	Manganese	04/27/21	04/28/21	05/03/21	TH	Y
CI17290	Manganese, (Dissolved)	04/27/21	04/29/21	05/02/21	TH	Y
CI17290	Mercury	04/27/21	04/29/21	04/29/21	MGH	Y
CI17290	Mercury (Dissolved)	04/27/21	04/30/21	05/03/21	MGH	Y
CI17290	Nickel	04/27/21	04/28/21	05/03/21	TH	Y
CI17290	Nickel, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17290	Potassium	04/27/21	04/28/21	04/29/21	TH	Y
CI17290	Potassium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17290	Selenium	04/27/21	04/28/21	05/05/21	CPP	Y
CI17290	Selenium (Dissolved)-LDL	04/27/21	04/29/21	05/08/21	CPP	Y
CI17290	Semivolatiles	04/27/21	04/29/21	05/03/21	WB	Y
CI17290	Silver	04/27/21	04/28/21	04/29/21	TH	Y
CI17290	Silver (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17290	Sodium	04/27/21	04/28/21	04/29/21	TH	Y
CI17290	Sodium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17290	Thallium	04/27/21	04/28/21	05/06/21	CPP	Y
CI17290	Thallium (Dissolved)	04/27/21	04/29/21	05/08/21	CPP	Y
CI17290	Total Cyanide	04/27/21	04/29/21	04/29/21	O/GD	Y
CI17290	Vanadium	04/27/21	04/28/21	04/29/21	TH	Y
CI17290	Vanadium, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17290	Volatiles	04/27/21	04/29/21	04/29/21	HM	Y
CI17290	Zinc	04/27/21	04/28/21	04/29/21	TH	Y
CI17290	Zinc, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17291	1,4-dioxane	04/28/21	04/29/21	04/29/21	MH	Y
CI17291	Aluminum	04/28/21	04/28/21	05/03/21	TH	Y
CI17291	Aluminum (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y
CI17291	Antimony	04/28/21	04/28/21	05/05/21	CPP	Y

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CI17291	Antimony (Dissolved)-LDL	04/28/21	04/29/21	05/08/21	CPP	Y
CI17291	Arsenic - LDL	04/28/21	04/28/21	04/29/21	TH	Y
CI17291	Arsenic, (Dissolved)	04/28/21	04/29/21	04/30/21	TH	Y
CI17291	Barium	04/28/21	04/28/21	04/29/21	TH	Y
CI17291	Barium (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y
CI17291	Beryllium	04/28/21	04/28/21	04/29/21	TH	Y
CI17291	Beryllium (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y
CI17291	Cadmium	04/28/21	04/28/21	04/29/21	EK	Y
CI17291	Cadmium (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y
CI17291	Calcium	04/28/21	04/28/21	04/29/21	EK	Y
CI17291	Calcium (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y
CI17291	Chloride	04/28/21	04/29/21	04/29/21	TB	Y
CI17291	Chromium	04/28/21	04/28/21	04/29/21	TH	Y
CI17291	Chromium (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y
CI17291	Cobalt	04/28/21	04/28/21	04/29/21	TH	Y
CI17291	Cobalt, (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y
CI17291	Copper	04/28/21	04/28/21	04/29/21	TH	Y
CI17291	Copper, (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y
CI17291	Iron	04/28/21	04/28/21	04/29/21	TH	Y
CI17291	Iron, (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y
CI17291	Lead	04/28/21	04/28/21	04/29/21	TH	Y
CI17291	Lead (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y
CI17291	Magnesium	04/28/21	04/28/21	04/29/21	TH	Y
CI17291	Magnesium (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y
CI17291	Manganese	04/28/21	04/28/21	05/03/21	TH	Y
CI17291	Manganese, (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y
CI17291	Mercury	04/28/21	04/29/21	04/29/21	MGH	Y
CI17291	Mercury (Dissolved)	04/28/21	04/30/21	05/03/21	MGH	Y
CI17291	Nickel	04/28/21	04/28/21	05/03/21	TH	Y
CI17291	Nickel, (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y
CI17291	Potassium	04/28/21	04/28/21	04/29/21	TH	Y
CI17291	Potassium (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y
CI17291	Selenium	04/28/21	04/28/21	05/05/21	CPP	Y
CI17291	Selenium (Dissolved)-LDL	04/28/21	04/29/21	05/08/21	CPP	Y
CI17291	Semivolatiles	04/28/21	04/29/21	05/03/21	WB	Y
CI17291	Silver	04/28/21	04/28/21	04/29/21	TH	Y
CI17291	Silver (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y

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CI17291	Sodium	04/28/21	04/28/21	05/03/21	TH	Y
CI17291	Sodium (Dissolved)	04/28/21	04/29/21	05/02/21	TH	Y
CI17291	Thallium	04/28/21	04/28/21	05/06/21	CPP	Y
CI17291	Thallium (Dissolved)	04/28/21	04/29/21	05/08/21	CPP	Y
CI17291	Total Cyanide	04/28/21	04/29/21	04/29/21	O/GD	Y
CI17291	Vanadium	04/28/21	04/28/21	04/29/21	TH	Y
CI17291	Vanadium, (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y
CI17291	Volatiles	04/28/21	04/29/21	04/29/21	MH	Y
CI17291	Zinc	04/28/21	04/28/21	04/29/21	TH	Y
CI17291	Zinc, (Dissolved)	04/28/21	04/29/21	04/30/21	CPP	Y
CI17292	1,4-dioxane	04/27/21	04/29/21	04/29/21	MH	Y
CI17292	Aluminum	04/27/21	04/28/21	05/03/21	TH	Y
CI17292	Aluminum (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Antimony	04/27/21	04/28/21	05/05/21	CPP	Y
CI17292	Antimony (Dissolved)-LDL	04/27/21	04/29/21	05/08/21	CPP	Y
CI17292	Arsenic - LDL	04/27/21	04/28/21	04/29/21	TH	Y
CI17292	Arsenic, (Dissolved)	04/27/21	04/29/21	04/30/21	TH	Y
CI17292	Barium	04/27/21	04/28/21	04/29/21	TH	Y
CI17292	Barium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Beryllium	04/27/21	04/28/21	04/29/21	TH	Y
CI17292	Beryllium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Cadmium	04/27/21	04/28/21	04/29/21	EK	Y
CI17292	Cadmium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Calcium	04/27/21	04/28/21	04/29/21	EK	Y
CI17292	Calcium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Chloride	04/27/21	04/29/21	04/29/21	TB	Y
CI17292	Chromium	04/27/21	04/28/21	04/29/21	TH	Y
CI17292	Chromium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Cobalt	04/27/21	04/28/21	04/29/21	TH	Y
CI17292	Cobalt, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Copper	04/27/21	04/28/21	04/29/21	TH	Y
CI17292	Copper, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Iron	04/27/21	04/28/21	04/29/21	TH	Y
CI17292	Iron, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Lead	04/27/21	04/28/21	04/29/21	TH	Y
CI17292	Lead (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Magnesium	04/27/21	04/28/21	04/29/21	TH	Y

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CI17292	Magnesium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Manganese	04/27/21	04/28/21	04/29/21	TH	Y
CI17292	Manganese, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Mercury	04/27/21	04/29/21	04/29/21	MGH	Y
CI17292	Mercury (Dissolved)	04/27/21	04/30/21	05/03/21	MGH	Y
CI17292	Nickel	04/27/21	04/28/21	05/03/21	TH	Y
CI17292	Nickel, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Potassium	04/27/21	04/28/21	04/29/21	TH	Y
CI17292	Potassium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Selenium	04/27/21	04/28/21	05/05/21	CPP	Y
CI17292	Selenium (Dissolved)-LDL	04/27/21	04/29/21	05/08/21	CPP	Y
CI17292	Semivolatiles	04/27/21	04/29/21	05/03/21	WB	Y
CI17292	Silver	04/27/21	04/28/21	04/29/21	TH	Y
CI17292	Silver (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Sodium	04/27/21	04/28/21	04/29/21	TH	Y
CI17292	Sodium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Thallium	04/27/21	04/28/21	05/06/21	CPP	Y
CI17292	Thallium (Dissolved)	04/27/21	04/29/21	05/08/21	CPP	Y
CI17292	Total Cyanide	04/27/21	04/29/21	04/29/21	O/GD	Y
CI17292	Vanadium	04/27/21	04/28/21	04/29/21	TH	Y
CI17292	Vanadium, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17292	Volatiles	04/27/21	04/29/21	04/29/21	MH	Y
CI17292	Zinc	04/27/21	04/28/21	04/29/21	TH	Y
CI17292	Zinc, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17293	1,4-dioxane	04/27/21	04/29/21	04/29/21	MH	Y
CI17293	Aluminum	04/27/21	04/28/21	05/03/21	TH	Y
CI17293	Aluminum (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17293	Antimony	04/27/21	04/28/21	05/05/21	CPP	Y
CI17293	Antimony (Dissolved)-LDL	04/27/21	04/29/21	05/08/21	CPP	Y
CI17293	Arsenic - LDL	04/27/21	04/28/21	04/29/21	TH	Y
CI17293	Arsenic, (Dissolved)	04/27/21	04/29/21	04/30/21	TH	Y
CI17293	Barium	04/27/21	04/28/21	04/29/21	TH	Y
CI17293	Barium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17293	Beryllium	04/27/21	04/28/21	04/29/21	TH	Y
CI17293	Beryllium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17293	Cadmium	04/27/21	04/28/21	04/29/21	EK	Y
CI17293	Cadmium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y

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CI17293	Calcium	04/27/21	04/28/21	04/29/21	EK	Y
CI17293	Calcium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17293	Chloride	04/27/21	04/29/21	04/29/21	TB	Y
CI17293	Chromium	04/27/21	04/28/21	04/29/21	TH	Y
CI17293	Chromium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17293	Cobalt	04/27/21	04/28/21	04/29/21	TH	Y
CI17293	Cobalt, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17293	Copper	04/27/21	04/28/21	04/29/21	TH	Y
CI17293	Copper, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17293	Iron	04/27/21	04/28/21	04/29/21	TH	Y
CI17293	Iron, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17293	Lead	04/27/21	04/28/21	04/29/21	TH	Y
CI17293	Lead (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17293	Magnesium	04/27/21	04/28/21	04/29/21	TH	Y
CI17293	Magnesium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17293	Manganese	04/27/21	04/28/21	05/03/21	TH	Y
CI17293	Manganese, (Dissolved)	04/27/21	04/29/21	05/02/21	TH	Y
CI17293	Mercury	04/27/21	04/29/21	04/29/21	MGH	Y
CI17293	Mercury (Dissolved)	04/27/21	04/30/21	05/03/21	MGH	Y
CI17293	Nickel	04/27/21	04/28/21	05/03/21	TH	Y
CI17293	Nickel, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17293	Potassium	04/27/21	04/28/21	04/29/21	TH	Y
CI17293	Potassium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17293	Selenium	04/27/21	04/28/21	05/05/21	CPP	Y
CI17293	Selenium (Dissolved)-LDL	04/27/21	04/29/21	05/08/21	CPP	Y
CI17293	Semivolatiles	04/27/21	04/29/21	05/03/21	WB	Y
CI17293	Silver	04/27/21	04/28/21	04/29/21	TH	Y
CI17293	Silver (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17293	Sodium	04/27/21	04/28/21	04/29/21	TH	Y
CI17293	Sodium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17293	Thallium	04/27/21	04/28/21	05/06/21	CPP	Y
CI17293	Thallium (Dissolved)	04/27/21	04/29/21	05/08/21	CPP	Y
CI17293	Total Cyanide	04/27/21	04/29/21	04/29/21	O/GD	Y
CI17293	Vanadium	04/27/21	04/28/21	04/29/21	TH	Y
CI17293	Vanadium, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17293	Volatiles	04/27/21	04/29/21	04/29/21	MH	Y
CI17293	Zinc	04/27/21	04/28/21	04/29/21	TH	Y

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CI17293	Zinc, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17294	1,4-dioxane	04/27/21	04/29/21	04/29/21	MH	Y
CI17294	Aluminum	04/27/21	04/28/21	05/03/21	TH	Y
CI17294	Antimony	04/27/21	04/28/21	05/05/21	CPP	Y
CI17294	Arsenic - LDL	04/27/21	04/28/21	04/29/21	TH	Y
CI17294	Barium	04/27/21	04/28/21	04/29/21	TH	Y
CI17294	Beryllium	04/27/21	04/28/21	04/29/21	TH	Y
CI17294	Cadmium	04/27/21	04/28/21	04/29/21	EK	Y
CI17294	Calcium	04/27/21	04/28/21	04/29/21	EK	Y
CI17294	Chloride	04/27/21	04/29/21	04/29/21	TB	Y
CI17294	Chromium	04/27/21	04/28/21	04/29/21	TH	Y
CI17294	Cobalt	04/27/21	04/28/21	04/29/21	TH	Y
CI17294	Copper	04/27/21	04/28/21	04/29/21	TH	Y
CI17294	Iron	04/27/21	04/28/21	04/29/21	TH	Y
CI17294	Lead	04/27/21	04/28/21	04/29/21	TH	Y
CI17294	Magnesium	04/27/21	04/28/21	04/29/21	TH	Y
CI17294	Manganese	04/27/21	04/28/21	05/03/21	TH	Y
CI17294	Mercury	04/27/21	04/29/21	04/29/21	MGH	Y
CI17294	Nickel	04/27/21	04/28/21	05/03/21	TH	Y
CI17294	Potassium	04/27/21	04/28/21	04/29/21	TH	Y
CI17294	Selenium	04/27/21	04/28/21	05/05/21	CPP	Y
CI17294	Semivolatiles	04/27/21	04/29/21	05/03/21	WB	Y
CI17294	Silver	04/27/21	04/28/21	04/29/21	TH	Y
CI17294	Sodium	04/27/21	04/28/21	04/29/21	TH	Y
CI17294	Thallium	04/27/21	04/28/21	05/06/21	CPP	Y
CI17294	Total Cyanide	04/27/21	04/29/21	04/29/21	O/GD	Y
CI17294	Vanadium	04/27/21	04/28/21	04/29/21	TH	Y
CI17294	Volatiles	04/27/21	04/29/21	04/29/21	MH	Y
CI17294	Zinc	04/27/21	04/28/21	04/29/21	TH	Y
CI17295	1,4-dioxane	04/27/21	04/29/21	04/29/21	MH	Y
CI17295	Aluminum	04/27/21	04/28/21	05/03/21	TH	Y
CI17295	Antimony	04/27/21	04/28/21	05/05/21	CPP	Y
CI17295	Arsenic - LDL	04/27/21	04/28/21	04/29/21	TH	Y
CI17295	Barium	04/27/21	04/28/21	04/29/21	TH	Y
CI17295	Beryllium	04/27/21	04/28/21	04/29/21	TH	Y
CI17295	Cadmium	04/27/21	04/28/21	04/29/21	EK	Y
CI17295	Calcium	04/27/21	04/28/21	04/29/21	EK	Y

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CI17295	Chloride	04/27/21	04/29/21	04/29/21	TB	Y
CI17295	Chromium	04/27/21	04/28/21	04/29/21	TH	Y
CI17295	Cobalt	04/27/21	04/28/21	04/29/21	TH	Y
CI17295	Copper	04/27/21	04/28/21	04/29/21	TH	Y
CI17295	Iron	04/27/21	04/28/21	04/29/21	TH	Y
CI17295	Lead	04/27/21	04/28/21	04/29/21	TH	Y
CI17295	Magnesium	04/27/21	04/28/21	04/29/21	TH	Y
CI17295	Manganese	04/27/21	04/28/21	04/29/21	TH	Y
CI17295	Mercury	04/27/21	04/29/21	04/29/21	MGH	Y
CI17295	Nickel	04/27/21	04/28/21	05/03/21	TH	Y
CI17295	Potassium	04/27/21	04/28/21	04/29/21	TH	Y
CI17295	Selenium	04/27/21	04/28/21	05/05/21	CPP	Y
CI17295	Semivolatiles	04/27/21	04/29/21	05/03/21	WB	Y
CI17295	Silver	04/27/21	04/28/21	04/29/21	TH	Y
CI17295	Sodium	04/27/21	04/28/21	04/29/21	TH	Y
CI17295	Thallium	04/27/21	04/28/21	05/06/21	CPP	Y
CI17295	Total Cyanide	04/27/21	05/04/21	05/04/21	O/GD	Y
CI17295	Vanadium	04/27/21	04/28/21	04/29/21	TH	Y
CI17295	Volatiles	04/27/21	04/29/21	04/29/21	MH	Y
CI17295	Zinc	04/27/21	04/28/21	04/29/21	TH	Y
CI17296	1,4-dioxane	04/27/21	04/29/21	04/29/21	MH	Y
CI17296	Aluminum	04/27/21	04/28/21	05/03/21	TH	Y
CI17296	Antimony	04/27/21	04/28/21	05/05/21	CPP	Y
CI17296	Arsenic - LDL	04/27/21	04/28/21	04/29/21	TH	Y
CI17296	Barium	04/27/21	04/28/21	04/29/21	TH	Y
CI17296	Beryllium	04/27/21	04/28/21	04/29/21	TH	Y
CI17296	Cadmium	04/27/21	04/28/21	04/29/21	EK	Y
CI17296	Calcium	04/27/21	04/28/21	05/03/21	TH	Y
CI17296	Chloride	04/27/21	04/29/21	04/29/21	TB	Y
CI17296	Chromium	04/27/21	04/28/21	04/29/21	TH	Y
CI17296	Cobalt	04/27/21	04/28/21	04/29/21	TH	Y
CI17296	Copper	04/27/21	04/28/21	04/29/21	TH	Y
CI17296	Iron	04/27/21	04/28/21	04/29/21	TH	Y
CI17296	Lead	04/27/21	04/28/21	04/29/21	TH	Y
CI17296	Magnesium	04/27/21	04/28/21	04/29/21	TH	Y
CI17296	Manganese	04/27/21	04/28/21	04/29/21	TH	Y
CI17296	Mercury	04/27/21	04/29/21	04/29/21	MGH	Y

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CI17296	Nickel	04/27/21	04/28/21	05/03/21	TH	Y
CI17296	Potassium	04/27/21	04/28/21	04/29/21	TH	Y
CI17296	Selenium	04/27/21	04/28/21	05/05/21	CPP	Y
CI17296	Semivolatiles	04/27/21	04/29/21	05/03/21	WB	Y
CI17296	Silver	04/27/21	04/28/21	04/29/21	TH	Y
CI17296	Sodium	04/27/21	04/28/21	05/03/21	TH	Y
CI17296	Thallium	04/27/21	04/28/21	05/06/21	CPP	Y
CI17296	Total Cyanide	04/27/21	05/04/21	05/04/21	O/GD	Y
CI17296	Vanadium	04/27/21	04/28/21	04/29/21	TH	Y
CI17296	Volatiles	04/27/21	04/29/21	04/29/21	MH	Y
CI17296	Zinc	04/27/21	04/28/21	04/29/21	TH	Y
CI17297	1,4-dioxane	04/28/21	04/29/21	04/29/21	MH	Y
CI17297	Aluminum	04/28/21	04/28/21	04/29/21	TH	Y
CI17297	Antimony	04/28/21	04/28/21	05/05/21	CPP	Y
CI17297	Arsenic - LDL	04/28/21	04/28/21	04/29/21	TH	Y
CI17297	Barium	04/28/21	04/28/21	04/29/21	TH	Y
CI17297	Beryllium	04/28/21	04/28/21	04/29/21	TH	Y
CI17297	Cadmium	04/28/21	04/28/21	04/29/21	EK	Y
CI17297	Calcium	04/28/21	04/28/21	04/29/21	EK	Y
CI17297	Chloride	04/28/21	04/29/21	04/29/21	TB	Y
CI17297	Chromium	04/28/21	04/28/21	04/29/21	TH	Y
CI17297	Cobalt	04/28/21	04/28/21	04/29/21	TH	Y
CI17297	Copper	04/28/21	04/28/21	04/29/21	TH	Y
CI17297	Iron	04/28/21	04/28/21	04/29/21	TH	Y
CI17297	Lead	04/28/21	04/28/21	04/29/21	TH	Y
CI17297	Magnesium	04/28/21	04/28/21	04/29/21	TH	Y
CI17297	Manganese	04/28/21	04/28/21	04/29/21	TH	Y
CI17297	Mercury	04/28/21	04/29/21	04/29/21	MGH	Y
CI17297	Nickel	04/28/21	04/28/21	04/29/21	TH	Y
CI17297	Potassium	04/28/21	04/28/21	04/29/21	TH	Y
CI17297	Selenium	04/28/21	04/28/21	05/05/21	CPP	Y
CI17297	Semivolatiles	04/28/21	04/29/21	05/03/21	WB	Y
CI17297	Silver	04/28/21	04/28/21	04/29/21	TH	Y
CI17297	Sodium	04/28/21	04/28/21	04/29/21	TH	Y
CI17297	Thallium	04/28/21	04/28/21	05/06/21	CPP	Y
CI17297	Total Cyanide	04/28/21	05/04/21	05/04/21	O/GD	Y
CI17297	Vanadium	04/28/21	04/28/21	04/29/21	TH	Y

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CI17297	Volatiles	04/28/21	04/29/21	04/29/21	MH	Y
CI17297	Zinc	04/28/21	04/28/21	04/29/21	TH	Y
CI17298	Aluminum	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Antimony	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Arsenic	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Barium	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Beryllium	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Cadmium	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Calcium	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Chloride	04/27/21	05/04/21	05/04/21	BS/GD	Y
CI17298	Chromium	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Cobalt	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Copper	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Field Extraction	04/27/21	04/27/21	04/27/21		Y
CI17298	Iron	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Lead	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Magnesium	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Manganese	04/27/21	04/28/21	05/03/21	EK	Y
CI17298	Mercury	04/27/21	04/29/21	04/29/21	MGH	Y
CI17298	Nickel	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Percent Solid	04/27/21	04/28/21	04/28/21	AN	Y
CI17298	Potassium	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Selenium	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Semivolatiles	04/27/21	04/28/21	04/29/21	WB	Y
CI17298	Silver	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Sodium	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Thallium	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Total Cyanide (SW9010C Distill.)	04/27/21	04/30/21	04/30/21	O/GD	Y
CI17298	Vanadium	04/27/21	04/28/21	04/29/21	EK	Y
CI17298	Volatiles	04/27/21	05/05/21	05/05/21	JLI	Y
CI17298	Zinc	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Aluminum	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Antimony	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Arsenic	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Barium	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Beryllium	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Cadmium	04/27/21	04/28/21	04/29/21	EK	Y

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CI17299	Calcium	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Chloride	04/27/21	05/04/21	05/04/21	BS/GD	Y
CI17299	Chromium	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Cobalt	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Copper	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Field Extraction	04/27/21	04/27/21	04/27/21		Y
CI17299	Iron	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Lead	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Magnesium	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Manganese	04/27/21	04/28/21	05/03/21	EK	Y
CI17299	Mercury	04/27/21	04/29/21	04/29/21	MGH	Y
CI17299	Nickel	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Percent Solid	04/27/21	04/28/21	04/28/21	AN	Y
CI17299	Potassium	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Selenium	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Semivolatiles	04/27/21	04/28/21	04/29/21	WB	Y
CI17299	Silver	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Sodium	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Thallium	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Total Cyanide (SW9010C Distill.)	04/27/21	04/30/21	04/30/21	O/GD	Y
CI17299	Vanadium	04/27/21	04/28/21	04/29/21	EK	Y
CI17299	Volatiles	04/27/21	05/05/21	05/05/21	JLI	Y
CI17299	Zinc	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Aluminum	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Antimony	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Arsenic	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Barium	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Beryllium	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Cadmium	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Calcium	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Chloride	04/27/21	05/04/21	05/04/21	BS/GD	Y
CI17300	Chromium	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Cobalt	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Copper	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Field Extraction	04/27/21	04/27/21	04/27/21		Y
CI17300	Iron	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Lead	04/27/21	04/28/21	04/29/21	EK	Y

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CI17300	Magnesium	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Manganese	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Mercury	04/27/21	04/29/21	04/29/21	MGH	Y
CI17300	Nickel	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Percent Solid	04/27/21	04/28/21	04/28/21	AN	Y
CI17300	Potassium	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Selenium	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Semivolatiles	04/27/21	04/28/21	04/29/21	WB	Y
CI17300	Silver	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Sodium	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Thallium	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Total Cyanide (SW9010C Distill.)	04/27/21	04/30/21	04/30/21	O/GD	Y
CI17300	Vanadium	04/27/21	04/28/21	04/29/21	EK	Y
CI17300	Volatiles	04/27/21	05/05/21	05/05/21	JLI	Y
CI17300	Zinc	04/27/21	04/28/21	04/29/21	EK	Y
CI17301	Aluminum	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Antimony	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Arsenic	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Barium	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Beryllium	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Cadmium	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Calcium	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Chloride	04/28/21	05/04/21	05/04/21	BS/GD	Y
CI17301	Chromium	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Cobalt	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Copper	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Field Extraction	04/28/21	04/28/21	04/28/21		Y
CI17301	Iron	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Lead	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Magnesium	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Manganese	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Mercury	04/28/21	04/29/21	04/29/21	MGH	Y
CI17301	Nickel	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Percent Solid	04/28/21	04/28/21	04/28/21	AN	Y
CI17301	Potassium	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Selenium	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Semivolatiles	04/28/21	04/28/21	04/29/21	WB	Y

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CI17301	Silver	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Sodium	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Thallium	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Total Cyanide (SW9010C Distill.)	04/28/21	04/30/21	04/30/21	O/GD	Y
CI17301	Vanadium	04/28/21	04/28/21	04/29/21	EK	Y
CI17301	Volatiles	04/28/21	05/05/21	05/05/21	JLI	Y
CI17301	Zinc	04/28/21	04/28/21	04/29/21	EK	Y
CI17302	1,4-dioxane	04/27/21	04/29/21	04/29/21	MH	Y
CI17302	Aluminum	04/27/21	04/28/21	05/03/21	TH	Y
CI17302	Aluminum (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17302	Antimony	04/27/21	04/28/21	05/05/21	CPP	Y
CI17302	Antimony (Dissolved)-LDL	04/27/21	04/29/21	05/08/21	CPP	Y
CI17302	Arsenic - LDL	04/27/21	04/28/21	04/29/21	TH	Y
CI17302	Arsenic, (Dissolved)	04/27/21	04/29/21	04/30/21	TH	Y
CI17302	Barium	04/27/21	04/28/21	04/29/21	TH	Y
CI17302	Barium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17302	Beryllium	04/27/21	04/28/21	04/29/21	TH	Y
CI17302	Beryllium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17302	Cadmium	04/27/21	04/28/21	04/29/21	EK	Y
CI17302	Cadmium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17302	Calcium	04/27/21	04/28/21	04/29/21	EK	Y
CI17302	Calcium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17302	Chloride	04/27/21	04/29/21	04/29/21	TB	Y
CI17302	Chromium	04/27/21	04/28/21	04/29/21	TH	Y
CI17302	Chromium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17302	Cobalt	04/27/21	04/28/21	04/29/21	TH	Y
CI17302	Cobalt, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17302	Copper	04/27/21	04/28/21	04/29/21	TH	Y
CI17302	Copper, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17302	Iron	04/27/21	04/28/21	04/29/21	TH	Y
CI17302	Iron, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17302	Lead	04/27/21	04/28/21	04/29/21	TH	Y
CI17302	Lead (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17302	Magnesium	04/27/21	04/28/21	04/29/21	TH	Y
CI17302	Magnesium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17302	Manganese	04/27/21	04/28/21	05/03/21	TH	Y
CI17302	Manganese, (Dissolved)	04/27/21	04/29/21	05/02/21	TH	Y

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CI17302	Mercury	04/27/21	04/29/21	04/29/21	MGH	Y
CI17302	Mercury (Dissolved)	04/27/21	04/30/21	05/03/21	MGH	Y
CI17302	Nickel	04/27/21	04/28/21	05/03/21	EK	Y
CI17302	Nickel, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17302	Potassium	04/27/21	04/28/21	04/29/21	TH	Y
CI17302	Potassium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17302	Selenium	04/27/21	04/28/21	05/05/21	CPP	Y
CI17302	Selenium (Dissolved)-LDL	04/27/21	04/29/21	05/08/21	CPP	Y
CI17302	Semivolatiles	04/27/21	04/29/21	05/03/21	WB	Y
CI17302	Silver	04/27/21	04/28/21	04/29/21	TH	Y
CI17302	Silver (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17302	Sodium	04/27/21	04/28/21	04/29/21	TH	Y
CI17302	Sodium (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17302	Thallium	04/27/21	04/28/21	05/06/21	CPP	Y
CI17302	Thallium (Dissolved)	04/27/21	04/29/21	05/08/21	CPP	Y
CI17302	Total Cyanide	04/27/21	05/04/21	05/04/21	O/GD	Y
CI17302	Vanadium	04/27/21	04/28/21	04/29/21	TH	Y
CI17302	Vanadium, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17302	Volatiles	04/27/21	04/29/21	04/29/21	MH	Y
CI17302	Zinc	04/27/21	04/28/21	04/29/21	TH	Y
CI17302	Zinc, (Dissolved)	04/27/21	04/29/21	04/30/21	CPP	Y
CI17303	1,4-dioxane	04/28/21	04/28/21	04/28/21	MH	Y
CI17303	Aluminum	04/28/21	04/28/21	05/03/21	TH	Y
CI17303	Antimony	04/28/21	04/29/21	05/03/21	TH	Y
CI17303	Arsenic - LDL	04/28/21	04/28/21	04/29/21	TH	Y
CI17303	Barium	04/28/21	04/28/21	04/29/21	TH	Y
CI17303	Beryllium	04/28/21	04/28/21	04/29/21	TH	Y
CI17303	Cadmium	04/28/21	04/28/21	04/29/21	EK	Y
CI17303	Calcium	04/28/21	04/28/21	04/29/21	EK	Y
CI17303	Chloride	04/28/21	04/29/21	04/29/21	TB	Y
CI17303	Chromium	04/28/21	04/28/21	04/29/21	TH	Y
CI17303	Cobalt	04/28/21	04/28/21	04/29/21	TH	Y
CI17303	Copper	04/28/21	04/28/21	04/29/21	TH	Y
CI17303	Iron	04/28/21	04/28/21	04/29/21	TH	Y
CI17303	Lead	04/28/21	04/28/21	04/29/21	TH	Y
CI17303	Magnesium	04/28/21	04/28/21	04/29/21	TH	Y
CI17303	Manganese	04/28/21	04/28/21	04/29/21	TH	Y

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

June 25, 2021 **SDG I.D.: GCI17289**

Cashin Associates, PC NYSDOT HARRISON LANDFILL

CI17303	Mercury	04/28/21	04/29/21	04/29/21	MGH	Y
CI17303	Nickel	04/28/21	04/28/21	04/29/21	TH	Y
CI17303	Potassium	04/28/21	04/28/21	04/29/21	TH	Y
CI17303	Selenium	04/28/21	04/29/21	05/03/21	CPP	Y
CI17303	Semivolatiles	04/28/21	04/29/21	05/03/21	WB	Y
CI17303	Silver	04/28/21	04/28/21	04/29/21	TH	Y
CI17303	Sodium	04/28/21	04/28/21	04/29/21	TH	Y
CI17303	Thallium - LDL	04/28/21	04/29/21	05/04/21	TH	Y
CI17303	Total Cyanide	04/28/21	05/04/21	05/04/21	O/GD	Y
CI17303	Vanadium	04/28/21	04/28/21	04/29/21	TH	Y
CI17303	Volatiles	04/28/21	04/28/21	04/28/21	MH	Y
CI17303	Zinc	04/28/21	04/28/21	04/29/21	TH	Y
CI17304	1,4-dioxane	04/27/21	04/28/21	04/28/21	MH	Y
CI17304	Volatiles	04/27/21	04/28/21	04/28/21	MH	Y

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NY # 11301

SDG Comments

June 25, 2021

SDG I.D.: GCI17289

8260 Volatile Organics:
1,2-Dibromoethane, 1,2,3 Trichloropropane, and 1,2-Dibromo-3-chloropropane do not meet NY TOGS GA criteria, these compounds are analyzed by GC/ECD method 504 or 8011 to achieve this criteria.

8270 Semivolatile Organics:
SIM Analysis:
The lowest possible reporting limit under SIM conditions is 0.02 ug/L. The NY TOGS GA criteria for some PAHs is 0.002 ug/L. This level can not be achieved.

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

June 25, 2021

SDG I.D.: GCI17289

Project ID: NYSDOT HARRISON LANDFILL

Client Id	Lab Id	Matrix
PC-1 4/27/21	CI17289	GROUND WATER
PC-2 4/27/21	CI17290	GROUND WATER
PC-3 4/28/21	CI17291	GROUND WATER
LMW-2 4/27/21	CI17292	GROUND WATER
LMW-4 4/27/21	CI17293	GROUND WATER
SW-1 4/27/21	CI17294	SURFACE WATER
SW-2 4/27/21	CI17295	SURFACE WATER
SW-3 4/27/21	CI17296	SURFACE WATER
SW-4 4/28/21	CI17297	SURFACE WATER
SD-1 4/27/21	CI17298	SEDIMENT
SD-2 4/27/21	CI17299	SEDIMENT
SD-3 4/27/21	CI17300	SEDIMENT
SD-4 4/28/21	CI17301	SEDIMENT
GW-DUP 4/27/21	CI17302	GROUND WATER
FIELD BLANK 4/28/21	CI17303	LIQUID
TRIP BLANK	CI17304	LIQUID

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 25, 2021

FOR: Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	MC	04/27/21	16:11
Location Code:	CASHIN-NYDOT	Received by:	CP	04/28/21	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	D037853.01				

Laboratory Data

SDG ID: GCI17289
Phoenix ID: CI17289

Project ID: NYSDOT HARRISON LANDFILL
Client ID: PC-1 4/27/21

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND		0.005	0.002	mg/L	1	04/29/21	TH	SW6010D	
Aluminum	0.169	N	0.020	0.0024	mg/L	1	05/03/21	TH	SW6010D	
Arsenic - LDL	0.002	J	0.004	0.001	mg/L	1	04/29/21	TH	SW6010D	
Barium	0.158		0.010	0.001	mg/L	1	04/29/21	TH	SW6010D	
Beryllium	ND		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Calcium	148		0.010	0.003	mg/L	1	05/03/21	TH	SW6010D	B
Cadmium	ND		0.004	0.0005	mg/L	1	04/29/21	EK	SW6010D	
Cobalt	ND		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Chromium	ND		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Copper	0.003	J	0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Silver (Dissolved)	ND		0.005	0.002	mg/L	1	04/30/21	CPP	SW6010D	
Aluminum (Dissolved)	0.022		0.011	0.0026	mg/L	1	04/30/21	CPP	SW6010D	
Arsenic, (Dissolved)	0.003	J	0.003	0.001	mg/L	1	04/30/21	TH	SW6010D	
Barium (Dissolved)	0.156		0.011	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Beryllium (Dissolved)	ND		0.001	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Calcium (Dissolved)	138		0.01	0.003	mg/L	1	04/30/21	CPP	SW6010D	
Cadmium (Dissolved)	ND		0.004	0.0005	mg/L	1	04/30/21	CPP	SW6010D	
Cobalt, (Dissolved)	0.001	J	0.005	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Chromium (Dissolved)	ND		0.001	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Copper, (Dissolved)	0.002	J	0.005	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Iron, (Dissolved)	ND		0.01	0.01	mg/L	1	04/30/21	CPP	SW6010D	
Mercury (Dissolved)	ND		0.0002	0.00015	mg/L	1	05/03/21	MGH	SW7470A	
Potassium (Dissolved)	4.8		0.1	0.1	mg/L	1	04/30/21	CPP	SW6010D	
Magnesium (Dissolved)	20.8		0.01	0.01	mg/L	1	04/30/21	CPP	SW6010D	
Manganese, (Dissolved)	1.87		0.005	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Sodium (Dissolved)	110		1.1	1.1	mg/L	10	05/02/21	TH	SW6010D	
Nickel, (Dissolved)	0.002	J	0.004	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Lead (Dissolved)	ND		0.002	0.001	mg/L	1	04/30/21	CPP	SW6010D	

Ver 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony (Dissolved)-LDL	ND	0.0030	0.0025	mg/L	2	05/08/21	CPP	SW6020B
Selenium (Dissolved)-LDL	ND	0.002	0.0002	mg/L	2	05/08/21	CPP	SW6020B
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	05/08/21	CPP	SW6020B
Vanadium, (Dissolved)	0.006	J 0.011	0.001	mg/L	1	04/30/21	CPP	SW6010D
Zinc, (Dissolved)	0.002	J 0.011	0.002	mg/L	1	04/30/21	CPP	SW6010D
Iron	0.39	0.01	0.01	mg/L	1	04/29/21	TH	SW6010D
Mercury	ND	0.0002	0.00015	mg/L	1	04/29/21	MGH	SW7470A
Potassium	5.0	0.1	0.1	mg/L	1	04/29/21	TH	SW6010D
Magnesium	23.6	0.010	0.01	mg/L	1	04/29/21	TH	SW6010D
Manganese	2.22	0.050	0.010	mg/L	10	05/03/21	TH	SW6010D
Sodium	112	1.0	1.0	mg/L	10	05/03/21	TH	SW6010D
Nickel	0.002	J 0.004	0.001	mg/L	1	05/03/21	TH	SW6010D
Lead	0.002	0.002	0.001	mg/L	1	04/29/21	TH	SW6010D
Antimony	0.0018	J 0.0030	0.0005	mg/L	5	05/05/21	CPP	SW6020B
Selenium	0.002	J 0.010	0.0005	mg/L	5	05/05/21	CPP	SW6020B
Thallium	ND	0.0005	0.0005	mg/L	5	05/06/21	CPP	SW6020B
Vanadium	0.003	J 0.010	0.001	mg/L	1	04/29/21	TH	SW6010D
Zinc	0.003	J 0.010	0.002	mg/L	1	04/29/21	TH	SW6010D
Chloride	257	15.0	0.05	mg/L	5	04/29/21	TB	SM4500CLE-11
Total Cyanide	ND	N 0.010	0.005	mg/L	1	04/29/21	O/GD	SW9010C/SW9012B
Filtration	Completed					04/29/21	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					04/30/21	AT/AT	SW7470A
Mercury Digestion	Completed					04/29/21	W/W	SW7470A
Semi-Volatile Extraction	Completed					04/29/21	A/CG	SW3520C
Dissolved Metals Preparation	Completed					04/29/21	AG	SW3005A
Dissolved Metals Preparation	Completed					04/29/21	AG	SW3005A
Total Metals Digestion	Completed					04/28/21		
Total Metals Digestion MS	Completed					04/28/21		
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	04/29/21	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroform	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	04/29/21	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Total Xylenes	ND	1.0	1.0	ug/L	1	04/29/21	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	98			%	1	04/29/21	MH	70 - 130 %
% Bromofluorobenzene	91			%	1	04/29/21	MH	70 - 130 %
% Dibromofluoromethane	96			%	1	04/29/21	MH	70 - 130 %
% Toluene-d8	99			%	1	04/29/21	MH	70 - 130 %
Volatile Library Search Top 10	Completed					04/29/21	MH	

Semivolatiles

1,1-Biphenyl	ND	3.3	3.3	ug/L	1	05/03/21	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	3.3	3.3	ug/L	1	05/03/21	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	1.0	0.85	ug/L	1	05/03/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/03/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/03/21	WB	SW8270D

Project ID: NYSDOT HARRISON LANDFILL
Client ID: PC-1 4/27/21

Phoenix I.D.: CI17289

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,4-Dichlorophenol	ND	1.0	0.85	ug/L	1	05/03/21	WB	SW8270D	
2,4-Dimethylphenol	ND	1.0	0.85	ug/L	1	05/03/21	WB	SW8270D	
2,4-Dinitrophenol	ND	1.0	0.85	ug/L	1	05/03/21	WB	SW8270D	
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	05/03/21	WB	SW8270D	
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	05/03/21	WB	SW8270D	
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	05/03/21	WB	SW8270D	
2-Chlorophenol	ND	1.0	0.85	ug/L	1	05/03/21	WB	SW8270D	
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	05/03/21	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	1.0	0.85	ug/L	1	05/03/21	WB	SW8270D	
2-Nitroaniline	ND	4.7	4.7	ug/L	1	05/03/21	WB	SW8270D	
2-Nitrophenol	ND	1.0	0.85	ug/L	1	05/03/21	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	4.7	0.85	ug/L	1	05/03/21	WB	SW8270D	
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	05/03/21	WB	SW8270D	
3-Nitroaniline	ND	4.7	10	ug/L	1	05/03/21	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	05/03/21	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	05/03/21	WB	SW8270D	
4-Chloro-3-methylphenol	ND	1.0	0.85	ug/L	1	05/03/21	WB	SW8270D	
4-Chloroaniline	ND	4.7	2.2	ug/L	1	05/03/21	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	05/03/21	WB	SW8270D	
4-Nitroaniline	ND	4.7	1.6	ug/L	1	05/03/21	WB	SW8270D	
4-Nitrophenol	ND	1.0	0.85	ug/L	1	05/03/21	WB	SW8270D	
Acenaphthene	ND	4.7	1.4	ug/L	1	05/03/21	WB	SW8270D	
Acetophenone	ND	4.7	1.5	ug/L	1	05/03/21	WB	SW8270D	
Atrazine	ND	0.94	0.94	ug/L	1	05/03/21	WB	SW8270D	
Benzaldehyde	ND	4.7	1.4	ug/L	1	05/03/21	WB	SW8270D	
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	05/03/21	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	05/03/21	WB	SW8270D	
Bis(2-chloroisopropyl)ether	ND	4.7	1.3	ug/L	1	05/03/21	WB	SW8270D	1
Bis(2-ethylhexyl)phthalate	ND	0.94	0.94	ug/L	1	05/03/21	WB	SW8270D	
Caprolactam	ND	4.7	8.4	ug/L	1	05/03/21	WB	SW8270D	
Carbazole	ND	4.7	3.6	ug/L	1	05/03/21	WB	SW8270D	
Dibenzofuran	ND	4.7	1.4	ug/L	1	05/03/21	WB	SW8270D	
Diethyl phthalate	ND	4.7	1.5	ug/L	1	05/03/21	WB	SW8270D	
Dimethylphthalate	ND	4.7	1.5	ug/L	1	05/03/21	WB	SW8270D	
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	05/03/21	WB	SW8270D	
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	05/03/21	WB	SW8270D	
Hexachlorocyclopentadiene	ND	4.7	1.4	ug/L	1	05/03/21	WB	SW8270D	
Hexachloroethane	ND	0.94	0.94	ug/L	1	05/03/21	WB	SW8270D	
Isophorone	ND	4.7	1.3	ug/L	1	05/03/21	WB	SW8270D	
Naphthalene	ND	4.7	1.4	ug/L	1	05/03/21	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	05/03/21	WB	SW8270D	
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	05/03/21	WB	SW8270D	
Phenol	ND	1.0	0.85	ug/L	1	05/03/21	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	42			%	1	05/03/21	WB	15 - 110 %	
% 2-Fluorobiphenyl	45			%	1	05/03/21	WB	30 - 130 %	
% 2-Fluorophenol	33			%	1	05/03/21	WB	15 - 110 %	
% Nitrobenzene-d5	39			%	1	05/03/21	WB	30 - 130 %	
% Phenol-d5	37			%	1	05/03/21	WB	15 - 110 %	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	43			%	1	05/03/21	WB	30 - 130 %
Semivolatiles								
Acenaphthylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Bis(2-chloroethyl)ether	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluorene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	05/03/21	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.19	0.19	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pyrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	35			%	1	05/03/21	WB	15 - 110 %
% 2-Fluorobiphenyl	41			%	1	05/03/21	WB	30 - 130 %
% 2-Fluorophenol	29			%	1	05/03/21	WB	15 - 110 %
% Nitrobenzene-d5	35			%	1	05/03/21	WB	30 - 130 %
% Phenol-d5	32			%	1	05/03/21	WB	15 - 110 %
% Terphenyl-d14	44			%	1	05/03/21	WB	30 - 130 %
SVOA Library Search Top 15	Completed					05/04/21	MR	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

June 25, 2021

Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 25, 2021

FOR: Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	MC	04/27/21	14:27
Location Code:	CASHIN-NYDOT	Received by:	CP	04/28/21	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	D037853.01				

Laboratory Data

SDG ID: GCI17289
Phoenix ID: CI17290

Project ID: NYSDOT HARRISON LANDFILL
Client ID: PC-2 4/27/21

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND		0.005	0.002	mg/L	1	04/29/21	TH	SW6010D	
Aluminum	8.05	N	0.020	0.0024	mg/L	1	05/03/21	TH	SW6010D	
Arsenic - LDL	0.004	J	0.004	0.001	mg/L	1	04/29/21	TH	SW6010D	
Barium	0.214		0.010	0.001	mg/L	1	04/29/21	TH	SW6010D	
Beryllium	ND		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Calcium	83.8		0.010	0.003	mg/L	1	04/29/21	EK	SW6010D	B
Cadmium	0.002	J	0.004	0.0005	mg/L	1	04/29/21	EK	SW6010D	
Cobalt	0.013		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Chromium	0.015		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Copper	0.011		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Silver (Dissolved)	ND		0.005	0.002	mg/L	1	04/30/21	CPP	SW6010D	
Aluminum (Dissolved)	0.018		0.011	0.0026	mg/L	1	04/30/21	CPP	SW6010D	
Arsenic, (Dissolved)	0.002	J	0.003	0.001	mg/L	1	04/30/21	TH	SW6010D	
Barium (Dissolved)	0.087		0.011	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Beryllium (Dissolved)	ND		0.001	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Calcium (Dissolved)	76.4		0.01	0.003	mg/L	1	04/30/21	CPP	SW6010D	
Cadmium (Dissolved)	ND		0.004	0.0005	mg/L	1	04/30/21	CPP	SW6010D	
Cobalt, (Dissolved)	0.005	J	0.005	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Chromium (Dissolved)	ND		0.001	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Copper, (Dissolved)	ND		0.005	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Iron, (Dissolved)	30.0		0.01	0.01	mg/L	1	04/30/21	CPP	SW6010D	
Mercury (Dissolved)	ND		0.0002	0.00015	mg/L	1	05/03/21	MGH	SW7470A	
Potassium (Dissolved)	3.5		0.1	0.1	mg/L	1	04/30/21	CPP	SW6010D	
Magnesium (Dissolved)	17.3		0.01	0.01	mg/L	1	04/30/21	CPP	SW6010D	
Manganese, (Dissolved)	12.4		0.053	0.011	mg/L	10	05/02/21	TH	SW6010D	
Sodium (Dissolved)	31.4		0.11	0.1	mg/L	1	04/30/21	CPP	SW6010D	
Nickel, (Dissolved)	0.002	J	0.004	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Lead (Dissolved)	0.003		0.002	0.001	mg/L	1	04/30/21	CPP	SW6010D	

Ver 2

Project ID: NYSDOT HARRISON LANDFILL
Client ID: PC-2 4/27/21

Phoenix I.D.: CI17290

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony (Dissolved)-LDL	ND	0.0010	0.0010	mg/L	2	05/08/21	CPP	SW6020B
Selenium (Dissolved)-LDL	ND	J 0.002	0.0002	mg/L	2	05/08/21	CPP	SW6020B
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	05/08/21	CPP	SW6020B
Vanadium, (Dissolved)	ND	0.011	0.001	mg/L	1	04/30/21	CPP	SW6010D
Zinc, (Dissolved)	0.004	J 0.011	0.002	mg/L	1	04/30/21	CPP	SW6010D
Iron	95.3	0.01	0.01	mg/L	1	04/29/21	TH	SW6010D
Mercury	ND	0.0002	0.00015	mg/L	1	04/29/21	MGH	SW7470A
Potassium	4.7	0.1	0.1	mg/L	1	04/29/21	TH	SW6010D
Magnesium	21.1	0.010	0.01	mg/L	1	04/29/21	TH	SW6010D
Manganese	13.8	0.050	0.010	mg/L	10	05/03/21	TH	SW6010D
Sodium	33.2	0.10	0.1	mg/L	1	04/29/21	TH	SW6010D
Nickel	0.013	0.004	0.001	mg/L	1	05/03/21	TH	SW6010D
Lead	0.012	0.002	0.001	mg/L	1	04/29/21	TH	SW6010D
Antimony	ND	0.0030	0.0005	mg/L	5	05/05/21	CPP	SW6020B
Selenium	0.001	J 0.010	0.0005	mg/L	5	05/05/21	CPP	SW6020B
Thallium	ND	0.0005	0.0005	mg/L	5	05/06/21	CPP	SW6020B
Vanadium	0.015	0.010	0.001	mg/L	1	04/29/21	TH	SW6010D
Zinc	0.037	0.010	0.002	mg/L	1	04/29/21	TH	SW6010D
Chloride	18.9	3.0	0.01	mg/L	1	04/29/21	TB	SM4500CLE-11
Total Cyanide	ND	N 0.010	0.005	mg/L	1	04/29/21	O/GD	SW9010C/SW9012B
Filtration	Completed					04/29/21	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					04/30/21	AT/AT	SW7470A
Mercury Digestion	Completed					04/29/21	W/W	SW7470A
Semi-Volatile Extraction	Completed					04/29/21	A/CG	SW3520C
Dissolved Metals Preparation	Completed					04/29/21	AG	SW3005A
Dissolved Metals Preparation	Completed					04/29/21	AG	SW3005A
Total Metals Digestion	Completed					04/28/21		
Total Metals Digestion MS	Completed					04/28/21		
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	04/29/21	HM	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	HM	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	04/29/21	HM	SW8260C
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	04/29/21	HM	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	HM	SW8260C
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	04/29/21	HM	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	HM	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	HM	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	04/29/21	HM	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	04/29/21	HM	SW8260C

Project ID: NYSDOT HARRISON LANDFILL
Client ID: PC-2 4/27/21

Phoenix I.D.: CI17290

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5.0	2.5	ug/L	1	04/29/21	HM	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	04/29/21	HM	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Chloroform	ND	2.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	04/29/21	HM	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	HM	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	04/29/21	HM	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	04/29/21	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	04/29/21	HM	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	04/29/21	HM	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	04/29/21	HM	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Total Xylenes	ND	1.0	1.0	ug/L	1	04/29/21	HM	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	04/29/21	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	HM	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	04/29/21	HM	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	95			%	1	04/29/21	HM	70 - 130 %
% Bromofluorobenzene	101			%	1	04/29/21	HM	70 - 130 %
% Dibromofluoromethane	106			%	1	04/29/21	HM	70 - 130 %
% Toluene-d8	92			%	1	04/29/21	HM	70 - 130 %
Volatile Library Search Top 10	Completed					04/30/21	HM	

Semivolatiles

1,1-Biphenyl	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D

Project ID: NYSDOT HARRISON LANDFILL
Client ID: PC-2 4/27/21

Phoenix I.D.: CI17290

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,4-Dichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2,4-Dimethylphenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2,4-Dinitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	05/04/21	WB	SW8270D	
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
2-Chlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2-Nitroaniline	ND	4.7	4.7	ug/L	1	05/04/21	WB	SW8270D	
2-Nitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D	
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D	
3-Nitroaniline	ND	4.7	10	ug/L	1	05/04/21	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	05/04/21	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
4-Chloro-3-methylphenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
4-Chloroaniline	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D	
4-Nitroaniline	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D	
4-Nitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
Acenaphthene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Acetophenone	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Atrazine	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Benzaldehyde	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Bis(2-chloroisopropyl)ether	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	1
Bis(2-ethylhexyl)phthalate	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Caprolactam	ND	4.7	8.4	ug/L	1	05/04/21	WB	SW8270D	
Carbazole	ND	4.7	3.6	ug/L	1	05/04/21	WB	SW8270D	
Dibenzofuran	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Diethyl phthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Dimethylphthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D	
Hexachlorocyclopentadiene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Hexachloroethane	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Isophorone	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Naphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	05/04/21	WB	SW8270D	
Phenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	31			%	1	05/04/21	WB	15 - 110 %	
% 2-Fluorobiphenyl	31			%	1	05/04/21	WB	30 - 130 %	
% 2-Fluorophenol	24			%	1	05/04/21	WB	15 - 110 %	
% Nitrobenzene-d5	28			%	1	05/04/21	WB	30 - 130 %	3
% Phenol-d5	27			%	1	05/04/21	WB	15 - 110 %	

Ver 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% Terphenyl-d14	20			%	1	05/04/21	WB	30 - 130 %	3
Semivolatiles									
Acenaphthylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Bis(2-chloroethyl)ether	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Chrysene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Fluoranthene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Fluorene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Nitrobenzene	ND	0.38	0.38	ug/L	1	05/03/21	WB	SW8270D (SIM)	
N-Nitrosodimethylamine	ND	0.19	0.19	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Pentachlorophenol	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Phenanthrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)	
Pyrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	29			%	1	05/03/21	WB	15 - 110 %	
% 2-Fluorobiphenyl	30			%	1	05/03/21	WB	30 - 130 %	
% 2-Fluorophenol	27			%	1	05/03/21	WB	15 - 110 %	
% Nitrobenzene-d5	25			%	1	05/03/21	WB	30 - 130 %	3
% Phenol-d5	26			%	1	05/03/21	WB	15 - 110 %	
% Terphenyl-d14	24			%	1	05/03/21	WB	30 - 130 %	3
SVOA Library Search Top 15	Completed					05/04/21	MR		

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 25, 2021
Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 25, 2021

FOR: Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	MC	04/28/21	10:47
Location Code:	CASHIN-NYDOT	Received by:	CP	04/28/21	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	D037853.01				

Laboratory Data

SDG ID: GCI17289
Phoenix ID: CI17291

Project ID: NYSDOT HARRISON LANDFILL
Client ID: PC-3 4/28/21

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND		0.005	0.002	mg/L	1	04/29/21	TH	SW6010D	
Aluminum	3.19	N	0.020	0.0024	mg/L	1	05/03/21	TH	SW6010D	
Arsenic - LDL	0.003	J	0.004	0.001	mg/L	1	04/29/21	TH	SW6010D	
Barium	0.234		0.010	0.001	mg/L	1	04/29/21	TH	SW6010D	
Beryllium	ND		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Calcium	77.6		0.010	0.003	mg/L	1	04/29/21	EK	SW6010D	B
Cadmium	ND		0.004	0.0005	mg/L	1	04/29/21	EK	SW6010D	
Cobalt	0.008		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Chromium	0.007		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Copper	0.009		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Silver (Dissolved)	ND		0.005	0.002	mg/L	1	04/30/21	CPP	SW6010D	
Aluminum (Dissolved)	0.015		0.011	0.0026	mg/L	1	04/30/21	CPP	SW6010D	
Arsenic, (Dissolved)	ND		0.003	0.001	mg/L	1	04/30/21	TH	SW6010D	
Barium (Dissolved)	0.156		0.011	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Beryllium (Dissolved)	ND		0.001	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Calcium (Dissolved)	75.5		0.01	0.003	mg/L	1	04/30/21	CPP	SW6010D	
Cadmium (Dissolved)	ND		0.004	0.0005	mg/L	1	04/30/21	CPP	SW6010D	
Cobalt, (Dissolved)	0.003	J	0.005	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Chromium (Dissolved)	ND		0.001	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Copper, (Dissolved)	ND		0.005	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Iron, (Dissolved)	0.02		0.01	0.01	mg/L	1	04/30/21	CPP	SW6010D	
Mercury (Dissolved)	ND		0.0002	0.00015	mg/L	1	05/03/21	MGH	SW7470A	
Potassium (Dissolved)	6.1		0.1	0.1	mg/L	1	04/30/21	CPP	SW6010D	
Magnesium (Dissolved)	19.2		0.01	0.01	mg/L	1	04/30/21	CPP	SW6010D	
Manganese, (Dissolved)	1.14		0.005	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Sodium (Dissolved)	122		1.1	1.1	mg/L	10	05/02/21	TH	SW6010D	
Nickel, (Dissolved)	0.002	J	0.004	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Lead (Dissolved)	ND		0.002	0.001	mg/L	1	04/30/21	CPP	SW6010D	

Ver 2

Project ID: NYSDOT HARRISON LANDFILL
Client ID: PC-3 4/28/21

Phoenix I.D.: CI17291

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony (Dissolved)-LDL	ND	0.0010	0.0010	mg/L	2	05/08/21	CPP	SW6020B
Selenium (Dissolved)-LDL	ND	0.002	0.0002	mg/L	2	05/08/21	CPP	SW6020B
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	05/08/21	CPP	SW6020B
Vanadium, (Dissolved)	ND	0.011	0.001	mg/L	1	04/30/21	CPP	SW6010D
Zinc, (Dissolved)	0.003 J	0.011	0.002	mg/L	1	04/30/21	CPP	SW6010D
Iron	17.7	0.01	0.01	mg/L	1	04/29/21	TH	SW6010D
Mercury	ND	0.0002	0.00015	mg/L	1	04/29/21	MGH	SW7470A
Potassium	7.0	0.1	0.1	mg/L	1	04/29/21	TH	SW6010D
Magnesium	21.9	0.010	0.01	mg/L	1	04/29/21	TH	SW6010D
Manganese	2.54	0.050	0.010	mg/L	10	05/03/21	TH	SW6010D
Sodium	137	1.0	1.0	mg/L	10	05/03/21	TH	SW6010D
Nickel	0.008	0.004	0.001	mg/L	1	05/03/21	TH	SW6010D
Lead	0.003	0.002	0.001	mg/L	1	04/29/21	TH	SW6010D
Antimony	ND	0.0030	0.0005	mg/L	5	05/05/21	CPP	SW6020B
Selenium	ND	0.010	0.0005	mg/L	5	05/05/21	CPP	SW6020B
Thallium	ND	0.0005	0.0005	mg/L	5	05/06/21	CPP	SW6020B
Vanadium	0.007 J	0.010	0.001	mg/L	1	04/29/21	TH	SW6010D
Zinc	0.014	0.010	0.002	mg/L	1	04/29/21	TH	SW6010D
Chloride	264	15.0	0.05	mg/L	5	04/29/21	TB	SM4500CLE-11
Total Cyanide	ND N	0.010	0.005	mg/L	1	04/29/21	O/GD	SW9010C/SW9012B
Filtration	Completed					04/29/21	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					04/30/21	AT/AT	SW7470A
Mercury Digestion	Completed					04/29/21	W/W	SW7470A
Semi-Volatile Extraction	Completed					04/29/21	A/CG	SW3520C
Dissolved Metals Preparation	Completed					04/29/21	AG	SW3005A
Dissolved Metals Preparation	Completed					04/29/21	AG	SW3005A
Total Metals Digestion	Completed					04/28/21		
Total Metals Digestion MS	Completed					04/28/21		
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	04/29/21	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroform	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	04/29/21	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Total Xylenes	ND	1.0	1.0	ug/L	1	04/29/21	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	100			%	1	04/29/21	MH	70 - 130 %
% Bromofluorobenzene	92			%	1	04/29/21	MH	70 - 130 %
% Dibromofluoromethane	98			%	1	04/29/21	MH	70 - 130 %
% Toluene-d8	98			%	1	04/29/21	MH	70 - 130 %
Volatile Library Search Top 10	Completed					04/29/21	MH	

Semivolatiles

1,1-Biphenyl	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D

Project ID: NYSDOT HARRISON LANDFILL
Client ID: PC-3 4/28/21

Phoenix I.D.: CI17291

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,4-Dichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2,4-Dimethylphenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2,4-Dinitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	05/04/21	WB	SW8270D	
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
2-Chlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2-Nitroaniline	ND	4.7	4.7	ug/L	1	05/04/21	WB	SW8270D	
2-Nitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D	
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D	
3-Nitroaniline	ND	4.7	10	ug/L	1	05/04/21	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	05/04/21	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
4-Chloro-3-methylphenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
4-Chloroaniline	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D	
4-Nitroaniline	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D	
4-Nitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
Acenaphthene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Acetophenone	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Atrazine	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Benzaldehyde	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Bis(2-chloroisopropyl)ether	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	1
Bis(2-ethylhexyl)phthalate	1.2	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Caprolactam	ND	4.7	8.4	ug/L	1	05/04/21	WB	SW8270D	
Carbazole	ND	4.7	3.6	ug/L	1	05/04/21	WB	SW8270D	
Dibenzofuran	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Diethyl phthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Dimethylphthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D	
Hexachlorocyclopentadiene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Hexachloroethane	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Isophorone	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Naphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	05/04/21	WB	SW8270D	
Phenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	74			%	1	05/04/21	WB	15 - 110 %	
% 2-Fluorobiphenyl	77			%	1	05/04/21	WB	30 - 130 %	
% 2-Fluorophenol	52			%	1	05/04/21	WB	15 - 110 %	
% Nitrobenzene-d5	69			%	1	05/04/21	WB	30 - 130 %	
% Phenol-d5	63			%	1	05/04/21	WB	15 - 110 %	

Ver 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	67			%	1	05/04/21	WB	30 - 130 %
Semivolatiles								
Acenaphthylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Bis(2-chloroethyl)ether	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluorene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	05/03/21	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.19	0.19	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pyrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	74			%	1	05/03/21	WB	15 - 110 %
% 2-Fluorobiphenyl	73			%	1	05/03/21	WB	30 - 130 %
% 2-Fluorophenol	50			%	1	05/03/21	WB	15 - 110 %
% Nitrobenzene-d5	60			%	1	05/03/21	WB	30 - 130 %
% Phenol-d5	57			%	1	05/03/21	WB	15 - 110 %
% Terphenyl-d14	66			%	1	05/03/21	WB	30 - 130 %
SVOA Library Search Top 15	Completed					05/04/21	MR	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

June 25, 2021

Reviewed and Released by: Maryam Taylor, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 25, 2021

FOR: Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	MC	04/27/21	10:43
Location Code:	CASHIN-NYDOT	Received by:	CP	04/28/21	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	D037853.01				

Laboratory Data

SDG ID: GCI17289
Phoenix ID: CI17292

Project ID: NYSDOT HARRISON LANDFILL
Client ID: LMW-2 4/27/21

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND		0.005	0.002	mg/L	1	04/29/21	TH	SW6010D	
Aluminum	3.80	N	0.020	0.0024	mg/L	1	05/03/21	TH	SW6010D	
Arsenic - LDL	ND		0.004	0.001	mg/L	1	04/29/21	TH	SW6010D	
Barium	0.172		0.010	0.001	mg/L	1	04/29/21	TH	SW6010D	
Beryllium	ND		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Calcium	82.4		0.010	0.003	mg/L	1	04/29/21	EK	SW6010D	B
Cadmium	ND		0.004	0.0005	mg/L	1	04/29/21	EK	SW6010D	
Cobalt	0.011		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Chromium	0.008		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Copper	0.016		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Silver (Dissolved)	ND		0.005	0.002	mg/L	1	04/30/21	CPP	SW6010D	
Aluminum (Dissolved)	0.021		0.011	0.0026	mg/L	1	04/30/21	CPP	SW6010D	
Arsenic, (Dissolved)	ND		0.003	0.001	mg/L	1	04/30/21	TH	SW6010D	
Barium (Dissolved)	0.106		0.011	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Beryllium (Dissolved)	ND		0.001	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Calcium (Dissolved)	73.8		0.01	0.003	mg/L	1	04/30/21	CPP	SW6010D	
Cadmium (Dissolved)	ND		0.004	0.0005	mg/L	1	04/30/21	CPP	SW6010D	
Cobalt, (Dissolved)	ND		0.005	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Chromium (Dissolved)	ND		0.001	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Copper, (Dissolved)	0.003	J	0.005	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Iron, (Dissolved)	ND		0.01	0.01	mg/L	1	04/30/21	CPP	SW6010D	
Mercury (Dissolved)	ND		0.0002	0.00015	mg/L	1	05/03/21	MGH	SW7470A	
Potassium (Dissolved)	3.5		0.1	0.1	mg/L	1	04/30/21	CPP	SW6010D	
Magnesium (Dissolved)	24.9		0.01	0.01	mg/L	1	04/30/21	CPP	SW6010D	
Manganese, (Dissolved)	0.103		0.005	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Sodium (Dissolved)	22.1		0.11	0.1	mg/L	1	04/30/21	CPP	SW6010D	
Nickel, (Dissolved)	0.003	J	0.004	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Lead (Dissolved)	0.001	J	0.002	0.001	mg/L	1	04/30/21	CPP	SW6010D	

Ver 2

Project ID: NYSDOT HARRISON LANDFILL
Client ID: LMW-2 4/27/21

Phoenix I.D.: CI17292

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony (Dissolved)-LDL	ND	0.0010	0.0010	mg/L	2	05/08/21	CPP	SW6020B
Selenium (Dissolved)-LDL	ND	J 0.002	0.0002	mg/L	2	05/08/21	CPP	SW6020B
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	05/08/21	CPP	SW6020B
Vanadium, (Dissolved)	ND	0.011	0.001	mg/L	1	04/30/21	CPP	SW6010D
Zinc, (Dissolved)	0.002	J 0.011	0.002	mg/L	1	04/30/21	CPP	SW6010D
Iron	6.22	0.01	0.01	mg/L	1	04/29/21	TH	SW6010D
Mercury	ND	0.0002	0.00015	mg/L	1	04/29/21	MGH	SW7470A
Potassium	5.4	0.1	0.1	mg/L	1	04/29/21	TH	SW6010D
Magnesium	30.0	0.010	0.01	mg/L	1	04/29/21	TH	SW6010D
Manganese	1.02	0.005	0.001	mg/L	1	04/29/21	TH	SW6010D
Sodium	23.4	0.10	0.1	mg/L	1	04/29/21	TH	SW6010D
Nickel	0.013	0.004	0.001	mg/L	1	05/03/21	TH	SW6010D
Lead	0.002	0.002	0.001	mg/L	1	04/29/21	TH	SW6010D
Antimony	ND	0.0030	0.0005	mg/L	5	05/05/21	CPP	SW6020B
Selenium	0.001	J 0.010	0.0005	mg/L	5	05/05/21	CPP	SW6020B
Thallium	ND	0.0005	0.0005	mg/L	5	05/06/21	CPP	SW6020B
Vanadium	0.007	J 0.010	0.001	mg/L	1	04/29/21	TH	SW6010D
Zinc	0.019	0.010	0.002	mg/L	1	04/29/21	TH	SW6010D
Chloride	15.9	3.0	0.01	mg/L	1	04/29/21	TB	SM4500CLE-11
Total Cyanide	ND	N 0.010	0.005	mg/L	1	04/29/21	O/GD	SW9010C/SW9012B
Filtration	Completed					04/29/21	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					04/30/21	AT/AT	SW7470A
Mercury Digestion	Completed					04/29/21	W/W	SW7470A
Semi-Volatile Extraction	Completed					04/29/21	A/CG	SW3520C
Dissolved Metals Preparation	Completed					04/29/21	AG	SW3005A
Dissolved Metals Preparation	Completed					04/29/21	AG	SW3005A
Total Metals Digestion	Completed					04/28/21		
Total Metals Digestion MS	Completed					04/28/21		
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	04/29/21	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C

Project ID: NYSDOT HARRISON LANDFILL
Client ID: LMW-2 4/27/21

Phoenix I.D.: CI17292

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroform	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	04/29/21	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Total Xylenes	ND	1.0	1.0	ug/L	1	04/29/21	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	99			%	1	04/29/21	MH	70 - 130 %
% Bromofluorobenzene	94			%	1	04/29/21	MH	70 - 130 %
% Dibromofluoromethane	89			%	1	04/29/21	MH	70 - 130 %
% Toluene-d8	97			%	1	04/29/21	MH	70 - 130 %
Volatile Library Search Top 10	Completed					04/29/21	MH	

Semivolatiles

1,1-Biphenyl	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D

Project ID: NYSDOT HARRISON LANDFILL
Client ID: LMW-2 4/27/21

Phoenix I.D.: CI17292

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,4-Dichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2,4-Dimethylphenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2,4-Dinitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	05/04/21	WB	SW8270D	
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
2-Chlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2-Nitroaniline	ND	4.7	4.7	ug/L	1	05/04/21	WB	SW8270D	
2-Nitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D	
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D	
3-Nitroaniline	ND	4.7	10	ug/L	1	05/04/21	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	05/04/21	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
4-Chloro-3-methylphenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
4-Chloroaniline	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D	
4-Nitroaniline	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D	
4-Nitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
Acenaphthene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Acetophenone	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Atrazine	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Benzaldehyde	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Bis(2-chloroisopropyl)ether	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	1
Bis(2-ethylhexyl)phthalate	1.0	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Caprolactam	ND	4.7	8.4	ug/L	1	05/04/21	WB	SW8270D	
Carbazole	ND	4.7	3.6	ug/L	1	05/04/21	WB	SW8270D	
Dibenzofuran	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Diethyl phthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Dimethylphthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D	
Hexachlorocyclopentadiene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Hexachloroethane	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Isophorone	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Naphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	05/04/21	WB	SW8270D	
Phenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	83			%	1	05/04/21	WB	15 - 110 %	
% 2-Fluorobiphenyl	78			%	1	05/04/21	WB	30 - 130 %	
% 2-Fluorophenol	57			%	1	05/04/21	WB	15 - 110 %	
% Nitrobenzene-d5	72			%	1	05/04/21	WB	30 - 130 %	
% Phenol-d5	69			%	1	05/04/21	WB	15 - 110 %	

Ver 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	87			%	1	05/04/21	WB	30 - 130 %
Semivolatiles								
Acenaphthylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Bis(2-chloroethyl)ether	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluorene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	05/03/21	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.19	0.19	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pyrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	83			%	1	05/03/21	WB	15 - 110 %
% 2-Fluorobiphenyl	73			%	1	05/03/21	WB	30 - 130 %
% 2-Fluorophenol	56			%	1	05/03/21	WB	15 - 110 %
% Nitrobenzene-d5	62			%	1	05/03/21	WB	30 - 130 %
% Phenol-d5	63			%	1	05/03/21	WB	15 - 110 %
% Terphenyl-d14	83			%	1	05/03/21	WB	30 - 130 %
SVOA Library Search Top 15	Completed					05/04/21	MR	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

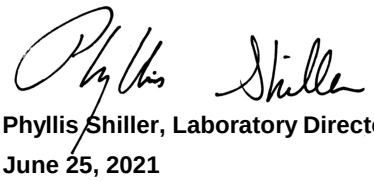
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 25, 2021

Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 25, 2021

FOR: Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	MC	04/27/21	12:35
Location Code:	CASHIN-NYDOT	Received by:	CP	04/28/21	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	D037853.01				

Laboratory Data

SDG ID: GCI17289
Phoenix ID: CI17293

Project ID: NYSDOT HARRISON LANDFILL
Client ID: LMW-4 4/27/21

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND		0.005	0.002	mg/L	1	04/29/21	TH	SW6010D	
Aluminum	2.22	N	0.020	0.0024	mg/L	1	05/03/21	TH	SW6010D	
Arsenic - LDL	0.004	J	0.004	0.001	mg/L	1	04/29/21	TH	SW6010D	
Barium	0.171		0.010	0.001	mg/L	1	04/29/21	TH	SW6010D	
Beryllium	ND		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Calcium	42.2		0.010	0.003	mg/L	1	04/29/21	EK	SW6010D	B
Cadmium	0.002	J	0.004	0.0005	mg/L	1	04/29/21	EK	SW6010D	
Cobalt	0.022		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Chromium	0.007		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Copper	0.005	J	0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Silver (Dissolved)	ND		0.005	0.002	mg/L	1	04/30/21	CPP	SW6010D	
Aluminum (Dissolved)	0.057		0.011	0.0026	mg/L	1	04/30/21	CPP	SW6010D	
Arsenic, (Dissolved)	0.003	J	0.003	0.001	mg/L	1	04/30/21	TH	SW6010D	
Barium (Dissolved)	0.072		0.011	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Beryllium (Dissolved)	ND		0.001	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Calcium (Dissolved)	39.7		0.01	0.003	mg/L	1	04/30/21	CPP	SW6010D	
Cadmium (Dissolved)	ND		0.004	0.0005	mg/L	1	04/30/21	CPP	SW6010D	
Cobalt, (Dissolved)	0.018		0.005	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Chromium (Dissolved)	ND		0.001	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Copper, (Dissolved)	ND		0.005	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Iron, (Dissolved)	24.5		0.01	0.01	mg/L	1	04/30/21	CPP	SW6010D	
Mercury (Dissolved)	ND		0.0002	0.00015	mg/L	1	05/03/21	MGH	SW7470A	
Potassium (Dissolved)	2.7		0.1	0.1	mg/L	1	04/30/21	CPP	SW6010D	
Magnesium (Dissolved)	16.4		0.01	0.01	mg/L	1	04/30/21	CPP	SW6010D	
Manganese, (Dissolved)	14.0		0.053	0.011	mg/L	10	05/02/21	TH	SW6010D	
Sodium (Dissolved)	25.4		0.11	0.1	mg/L	1	04/30/21	CPP	SW6010D	
Nickel, (Dissolved)	0.002	J	0.004	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Lead (Dissolved)	0.003		0.002	0.001	mg/L	1	04/30/21	CPP	SW6010D	

Ver 2

Project ID: NYSDOT HARRISON LANDFILL
Client ID: LMW-4 4/27/21

Phoenix I.D.: CI17293

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony (Dissolved)-LDL	ND	0.0010	0.0010	mg/L	2	05/08/21	CPP	SW6020B
Selenium (Dissolved)-LDL	ND	J 0.002	0.0002	mg/L	2	05/08/21	CPP	SW6020B
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	05/08/21	CPP	SW6020B
Vanadium, (Dissolved)	ND	0.011	0.001	mg/L	1	04/30/21	CPP	SW6010D
Zinc, (Dissolved)	0.004	J 0.011	0.002	mg/L	1	04/30/21	CPP	SW6010D
Iron	103	0.01	0.01	mg/L	1	04/29/21	TH	SW6010D
Mercury	ND	0.0002	0.00015	mg/L	1	04/29/21	MGH	SW7470A
Potassium	3.2	0.1	0.1	mg/L	1	04/29/21	TH	SW6010D
Magnesium	18.2	0.010	0.01	mg/L	1	04/29/21	TH	SW6010D
Manganese	13.8	0.050	0.010	mg/L	10	05/03/21	TH	SW6010D
Sodium	26.2	0.10	0.1	mg/L	1	04/29/21	TH	SW6010D
Nickel	0.006	0.004	0.001	mg/L	1	05/03/21	TH	SW6010D
Lead	0.006	0.002	0.001	mg/L	1	04/29/21	TH	SW6010D
Antimony	ND	0.0030	0.0005	mg/L	5	05/05/21	CPP	SW6020B
Selenium	0.003	J 0.010	0.0005	mg/L	5	05/05/21	CPP	SW6020B
Thallium	ND	0.0005	0.0005	mg/L	5	05/06/21	CPP	SW6020B
Vanadium	0.006	J 0.010	0.001	mg/L	1	04/29/21	TH	SW6010D
Zinc	0.023	0.010	0.002	mg/L	1	04/29/21	TH	SW6010D
Chloride	23.4	3.0	0.01	mg/L	1	04/29/21	TB	SM4500CLE-11
Total Cyanide	ND	N 0.010	0.005	mg/L	1	04/29/21	O/GD	SW9010C/SW9012B
Filtration	Completed					04/29/21	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					04/30/21	AT/AT	SW7470A
Mercury Digestion	Completed					04/29/21	W/W	SW7470A
Semi-Volatile Extraction	Completed					04/29/21	A/CG	SW3520C
Dissolved Metals Preparation	Completed					04/29/21	AG	SW3005A
Dissolved Metals Preparation	Completed					04/29/21	AG	SW3005A
Total Metals Digestion	Completed					04/28/21		
Total Metals Digestion MS	Completed					04/28/21		
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	04/29/21	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C

Project ID: NYSDOT HARRISON LANDFILL
Client ID: LMW-4 4/27/21

Phoenix I.D.: CI17293

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Acetone	4.9	JS	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Benzene	ND		0.70	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromochloromethane	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromodichloromethane	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromoform	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromomethane	ND		2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon Disulfide	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chlorobenzene	ND		2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroethane	ND		2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroform	ND		2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloromethane	ND		2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Cyclohexane	ND		5.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Dibromochloromethane	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Ethylbenzene	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Isopropylbenzene	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
m&p-Xylene	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methyl ethyl ketone	ND		5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methylacetate	ND		2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
Methylcyclohexane	ND		2.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Methylene chloride	ND		3.0	1.0	ug/L	1	04/29/21	MH	SW8260C
o-Xylene	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Styrene	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Tetrachloroethene	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Toluene	ND		2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Total Xylenes	ND		1.0	1.0	ug/L	1	04/29/21	MH	SW8260C
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichloroethene	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Vinyl chloride	ND		1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	100				%	1	04/29/21	MH	70 - 130 %
% Bromofluorobenzene	93				%	1	04/29/21	MH	70 - 130 %
% Dibromofluoromethane	94				%	1	04/29/21	MH	70 - 130 %
% Toluene-d8	99				%	1	04/29/21	MH	70 - 130 %
Volatile Library Search Top 10	Completed						04/29/21	MH	

Semivolatiles

1,1-Biphenyl	ND		3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND		3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND		1.0	0.86	ug/L	1	05/04/21	WB	SW8270D
2,4,5-Trichlorophenol	ND		1.0	0.86	ug/L	1	05/04/21	WB	SW8270D
2,4,6-Trichlorophenol	ND		1.0	0.86	ug/L	1	05/04/21	WB	SW8270D

Ver 2

Project ID: NYSDOT HARRISON LANDFILL
Client ID: LMW-4 4/27/21

Phoenix I.D.: CI17293

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,4-Dichlorophenol	ND	1.0	0.86	ug/L	1	05/04/21	WB	SW8270D	
2,4-Dimethylphenol	ND	1.0	0.86	ug/L	1	05/04/21	WB	SW8270D	
2,4-Dinitrophenol	ND	1.0	0.86	ug/L	1	05/04/21	WB	SW8270D	
2,4-Dinitrotoluene	ND	4.8	1.9	ug/L	1	05/04/21	WB	SW8270D	
2,6-Dinitrotoluene	ND	4.8	1.5	ug/L	1	05/04/21	WB	SW8270D	
2-Chloronaphthalene	ND	4.8	1.3	ug/L	1	05/04/21	WB	SW8270D	
2-Chlorophenol	ND	1.0	0.86	ug/L	1	05/04/21	WB	SW8270D	
2-Methylnaphthalene	ND	4.8	1.4	ug/L	1	05/04/21	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	1.0	0.86	ug/L	1	05/04/21	WB	SW8270D	
2-Nitroaniline	ND	4.8	4.8	ug/L	1	05/04/21	WB	SW8270D	
2-Nitrophenol	ND	1.0	0.86	ug/L	1	05/04/21	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	4.8	0.86	ug/L	1	05/04/21	WB	SW8270D	
3,3'-Dichlorobenzidine	ND	4.8	2.2	ug/L	1	05/04/21	WB	SW8270D	
3-Nitroaniline	ND	4.8	10	ug/L	1	05/04/21	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	05/04/21	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	4.8	1.4	ug/L	1	05/04/21	WB	SW8270D	
4-Chloro-3-methylphenol	ND	1.0	0.86	ug/L	1	05/04/21	WB	SW8270D	
4-Chloroaniline	ND	4.8	2.2	ug/L	1	05/04/21	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	4.8	1.6	ug/L	1	05/04/21	WB	SW8270D	
4-Nitroaniline	ND	4.8	1.6	ug/L	1	05/04/21	WB	SW8270D	
4-Nitrophenol	ND	1.0	0.86	ug/L	1	05/04/21	WB	SW8270D	
Acenaphthene	ND	4.8	1.4	ug/L	1	05/04/21	WB	SW8270D	
Acetophenone	ND	4.8	1.5	ug/L	1	05/04/21	WB	SW8270D	
Atrazine	ND	0.95	0.95	ug/L	1	05/04/21	WB	SW8270D	
Benzaldehyde	ND	4.8	1.4	ug/L	1	05/04/21	WB	SW8270D	
Benzyl butyl phthalate	ND	4.8	1.2	ug/L	1	05/04/21	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	4.8	1.3	ug/L	1	05/04/21	WB	SW8270D	
Bis(2-chloroisopropyl)ether	ND	4.8	1.3	ug/L	1	05/04/21	WB	SW8270D	1
Bis(2-ethylhexyl)phthalate	ND	0.95	0.95	ug/L	1	05/04/21	WB	SW8270D	
Caprolactam	ND	4.8	8.5	ug/L	1	05/04/21	WB	SW8270D	
Carbazole	ND	4.8	3.6	ug/L	1	05/04/21	WB	SW8270D	
Dibenzofuran	ND	4.8	1.4	ug/L	1	05/04/21	WB	SW8270D	
Diethyl phthalate	ND	4.8	1.5	ug/L	1	05/04/21	WB	SW8270D	
Dimethylphthalate	ND	4.8	1.5	ug/L	1	05/04/21	WB	SW8270D	
Di-n-butylphthalate	ND	4.8	1.3	ug/L	1	05/04/21	WB	SW8270D	
Di-n-octylphthalate	ND	4.8	1.2	ug/L	1	05/04/21	WB	SW8270D	
Hexachlorocyclopentadiene	ND	4.8	1.5	ug/L	1	05/04/21	WB	SW8270D	
Hexachloroethane	ND	0.95	0.95	ug/L	1	05/04/21	WB	SW8270D	
Isophorone	ND	4.8	1.3	ug/L	1	05/04/21	WB	SW8270D	
Naphthalene	ND	4.8	1.4	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.8	1.5	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodiphenylamine	ND	4.8	1.8	ug/L	1	05/04/21	WB	SW8270D	
Phenol	ND	1.0	0.86	ug/L	1	05/04/21	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	94			%	1	05/04/21	WB	15 - 110 %	
% 2-Fluorobiphenyl	75			%	1	05/04/21	WB	30 - 130 %	
% 2-Fluorophenol	53			%	1	05/04/21	WB	15 - 110 %	
% Nitrobenzene-d5	68			%	1	05/04/21	WB	30 - 130 %	
% Phenol-d5	66			%	1	05/04/21	WB	15 - 110 %	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	81			%	1	05/04/21	WB	30 - 130 %
Semivolatiles								
Acenaphthylene	ND	0.48	0.48	ug/L	1	05/03/21	WB	SW8270D (SIM)
Anthracene	ND	0.48	0.48	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	0.48	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Bis(2-chloroethyl)ether	ND	0.48	0.48	ug/L	1	05/03/21	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.48	0.48	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.48	0.48	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluorene	ND	0.48	0.48	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.48	0.48	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.48	0.48	ug/L	1	05/03/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	05/03/21	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.19	0.19	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.48	0.48	ug/L	1	05/03/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.48	0.48	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pyrene	ND	0.48	0.48	ug/L	1	05/03/21	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	94			%	1	05/03/21	WB	15 - 110 %
% 2-Fluorobiphenyl	70			%	1	05/03/21	WB	30 - 130 %
% 2-Fluorophenol	50			%	1	05/03/21	WB	15 - 110 %
% Nitrobenzene-d5	59			%	1	05/03/21	WB	30 - 130 %
% Phenol-d5	60			%	1	05/03/21	WB	15 - 110 %
% Terphenyl-d14	81			%	1	05/03/21	WB	30 - 130 %
SVOA Library Search Top 15	Completed					05/04/21	MR	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

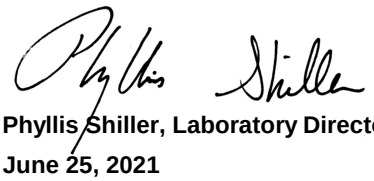
Comments:

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 25, 2021

Reviewed and Released by: Maryam Taylor, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 25, 2021

FOR: Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:	MC	04/27/21	9:50
Location Code:	CASHIN-NYDOT	Received by:	CP	04/28/21	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	D037853.01				

Laboratory Data

SDG ID: GCI17289
Phoenix ID: CI17294

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SW-1 4/27/21

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND		0.005	0.002	mg/L	1	04/29/21	TH	SW6010D	
Aluminum	1.66	N	0.020	0.0024	mg/L	1	05/03/21	TH	SW6010D	
Arsenic - LDL	ND		0.004	0.001	mg/L	1	04/29/21	TH	SW6010D	
Barium	0.135		0.010	0.001	mg/L	1	04/29/21	TH	SW6010D	
Beryllium	ND		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Calcium	41.7		0.010	0.003	mg/L	1	04/29/21	EK	SW6010D	B
Cadmium	ND		0.004	0.0005	mg/L	1	04/29/21	EK	SW6010D	
Cobalt	0.002	J	0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Chromium	0.002		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Copper	0.004	J	0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Iron	15.1		0.01	0.01	mg/L	1	04/29/21	TH	E200.7	
Mercury	ND		0.0002	0.00015	mg/L	1	04/29/21	MGH	SW7470A	
Potassium	3.2		0.1	0.1	mg/L	1	04/29/21	TH	SW6010D	
Magnesium	12.3		0.010	0.01	mg/L	1	04/29/21	TH	SW6010D	
Manganese	3.88		0.050	0.010	mg/L	10	05/03/21	TH	SW6010D	
Sodium	8.54		0.10	0.1	mg/L	1	04/29/21	TH	SW6010D	
Nickel	0.004	J	0.004	0.001	mg/L	1	05/03/21	TH	SW6010D	
Lead	0.006		0.002	0.001	mg/L	1	04/29/21	TH	SW6010D	
Antimony	ND		0.0030	0.0005	mg/L	5	05/05/21	CPP	SW6020B	
Selenium	ND		0.010	0.0005	mg/L	5	05/05/21	CPP	SW6020B	
Thallium	ND		0.0005	0.0005	mg/L	5	05/06/21	CPP	SW6020B	
Vanadium	0.005	J	0.010	0.001	mg/L	1	04/29/21	TH	SW6010D	
Zinc	0.020		0.010	0.002	mg/L	1	04/29/21	TH	SW6010D	
Chloride	5.4		3.0	0.01	mg/L	1	04/29/21	TB	SM4500CLE-11	
Total Cyanide	ND	N	0.010	0.005	mg/L	1	04/29/21	O/GD	SW9010C/SW9012B	
Mercury Digestion	Completed						04/29/21	W/W	SW7470A	
Semi-Volatile Extraction	Completed						04/29/21	A/CG	SW3520C	

Ver 2

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SW-1 4/27/21

Phoenix I.D.: CI17294

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digestion	Completed					04/28/21		
Total Metals Digestion MS	Completed					04/28/21		
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	04/29/21	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
Acetone	ND	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroform	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	04/29/21	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Tetrachloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Total Xylenes	ND	1.0	1.0	ug/L	1	04/29/21	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	100			%	1	04/29/21	MH	70 - 130 %
% Bromofluorobenzene	92			%	1	04/29/21	MH	70 - 130 %
% Dibromofluoromethane	97			%	1	04/29/21	MH	70 - 130 %
% Toluene-d8	99			%	1	04/29/21	MH	70 - 130 %
Volatile Library Search Top 10	Completed					04/29/21	MH	

Semivolatiles

1,1-Biphenyl	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dimethylphenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dinitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	05/04/21	WB	SW8270D
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D
2-Chlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2-Nitroaniline	ND	4.7	4.7	ug/L	1	05/04/21	WB	SW8270D
2-Nitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D
3-Nitroaniline	ND	4.7	10	ug/L	1	05/04/21	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	05/04/21	WB	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
4-Chloro-3-methylphenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
4-Chloroaniline	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D
4-Nitroaniline	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D
4-Nitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
Acenaphthene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
Acetophenone	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D
Atrazine	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D
Benzaldehyde	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	1
Bis(2-ethylhexyl)phthalate	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Caprolactam	ND	4.7	8.4	ug/L	1	05/04/21	WB	SW8270D	
Carbazole	ND	4.7	3.6	ug/L	1	05/04/21	WB	SW8270D	
Dibenzofuran	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Diethyl phthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Dimethylphthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D	
Hexachlorocyclopentadiene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Hexachloroethane	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Isophorone	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Naphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	05/04/21	WB	SW8270D	
Phenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	51			%	1	05/04/21	WB	15 - 110 %	
% 2-Fluorobiphenyl	63			%	1	05/04/21	WB	30 - 130 %	
% 2-Fluorophenol	40			%	1	05/04/21	WB	15 - 110 %	
% Nitrobenzene-d5	70			%	1	05/04/21	WB	30 - 130 %	
% Phenol-d5	48			%	1	05/04/21	WB	15 - 110 %	
% Terphenyl-d14	37			%	1	05/04/21	WB	30 - 130 %	

Semivolatiles

Acenaphthylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benz(a)anthracene	0.08	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(a)pyrene	0.10	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	0.09	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	0.10	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Bis(2-chloroethyl)ether	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Chrysene	0.09	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluorene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.11	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	05/03/21	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.19	0.19	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pyrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	55			%	1	05/03/21	WB	15 - 110 %
% 2-Fluorobiphenyl	58			%	1	05/03/21	WB	30 - 130 %
% 2-Fluorophenol	39			%	1	05/03/21	WB	15 - 110 %

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SW-1 4/27/21

Phoenix I.D.: CI17294

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Nitrobenzene-d5	61			%	1	05/03/21	WB	30 - 130 %
% Phenol-d5	45			%	1	05/03/21	WB	15 - 110 %
% Terphenyl-d14	39			%	1	05/03/21	WB	30 - 130 %
SVOA Library Search Top 15	Completed					05/04/21	MR	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 25, 2021
Reviewed and Released by: Maryam Taylor, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 25, 2021

FOR: Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:	MC	04/27/21	12:00
Location Code:	CASHIN-NYDOT	Received by:	CP	04/28/21	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	D037853.01				

Laboratory Data

SDG ID: GCI17289
Phoenix ID: CI17295

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SW-2 4/27/21

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND		0.005	0.002	mg/L	1	04/29/21	TH	SW6010D	
Aluminum	0.097	N	0.020	0.0024	mg/L	1	05/03/21	TH	SW6010D	
Arsenic - LDL	ND		0.004	0.001	mg/L	1	04/29/21	TH	SW6010D	
Barium	0.020		0.010	0.001	mg/L	1	04/29/21	TH	SW6010D	
Beryllium	ND		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Calcium	36.0		0.010	0.003	mg/L	1	04/29/21	EK	SW6010D	B
Cadmium	ND		0.004	0.0005	mg/L	1	04/29/21	EK	SW6010D	
Cobalt	ND		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Chromium	ND		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Copper	ND		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Iron	0.47		0.01	0.01	mg/L	1	04/29/21	TH	E200.7	
Mercury	ND		0.0002	0.00015	mg/L	1	04/29/21	MGH	SW7470A	
Potassium	2.6		0.1	0.1	mg/L	1	04/29/21	TH	SW6010D	
Magnesium	10.1		0.010	0.01	mg/L	1	04/29/21	TH	SW6010D	
Manganese	0.230		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Sodium	15.6		0.10	0.1	mg/L	1	04/29/21	TH	SW6010D	
Nickel	ND		0.004	0.001	mg/L	1	05/03/21	TH	SW6010D	
Lead	ND		0.002	0.001	mg/L	1	04/29/21	TH	SW6010D	
Antimony	ND		0.0030	0.0005	mg/L	5	05/05/21	CPP	SW6020B	
Selenium	ND		0.010	0.0005	mg/L	5	05/05/21	CPP	SW6020B	
Thallium	ND		0.0005	0.0005	mg/L	5	05/06/21	CPP	SW6020B	
Vanadium	0.003	J	0.010	0.001	mg/L	1	04/29/21	TH	SW6010D	
Zinc	ND		0.010	0.002	mg/L	1	04/29/21	TH	SW6010D	
Chloride	11.5		3.0	0.01	mg/L	1	04/29/21	TB	SM4500CLE-11	
Total Cyanide	ND		0.010	0.005	mg/L	1	05/04/21	O/GD	SW9010C/SW9012B	
Mercury Digestion	Completed						04/29/21	W/W	SW7470A	
Semi-Volatile Extraction	Completed						04/29/21	A/CG	SW3520C	

Ver 2

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SW-2 4/27/21

Phoenix I.D.: CI17295

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digestion	Completed					04/28/21		
Total Metals Digestion MS	Completed					04/28/21		
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	04/29/21	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
Acetone	ND	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroform	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	04/29/21	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Tetrachloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Total Xylenes	ND	1.0	1.0	ug/L	1	04/29/21	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	101			%	1	04/29/21	MH	70 - 130 %
% Bromofluorobenzene	92			%	1	04/29/21	MH	70 - 130 %
% Dibromofluoromethane	97			%	1	04/29/21	MH	70 - 130 %
% Toluene-d8	99			%	1	04/29/21	MH	70 - 130 %
Volatile Library Search Top 10	Completed					04/29/21	MH	

Semivolatiles

1,1-Biphenyl	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dimethylphenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dinitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	05/04/21	WB	SW8270D
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D
2-Chlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2-Nitroaniline	ND	4.7	4.7	ug/L	1	05/04/21	WB	SW8270D
2-Nitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D
3-Nitroaniline	ND	4.7	10	ug/L	1	05/04/21	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	05/04/21	WB	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
4-Chloro-3-methylphenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
4-Chloroaniline	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D
4-Nitroaniline	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D
4-Nitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
Acenaphthene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
Acetophenone	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D
Atrazine	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D
Benzaldehyde	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	1
Bis(2-ethylhexyl)phthalate	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Caprolactam	ND	4.7	8.4	ug/L	1	05/04/21	WB	SW8270D	
Carbazole	ND	4.7	3.6	ug/L	1	05/04/21	WB	SW8270D	
Dibenzofuran	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Diethyl phthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Dimethylphthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D	
Hexachlorocyclopentadiene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Hexachloroethane	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Isophorone	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Naphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	05/04/21	WB	SW8270D	
Phenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	69			%	1	05/04/21	WB	15 - 110 %	
% 2-Fluorobiphenyl	63			%	1	05/04/21	WB	30 - 130 %	
% 2-Fluorophenol	48			%	1	05/04/21	WB	15 - 110 %	
% Nitrobenzene-d5	61			%	1	05/04/21	WB	30 - 130 %	
% Phenol-d5	56			%	1	05/04/21	WB	15 - 110 %	
% Terphenyl-d14	65			%	1	05/04/21	WB	30 - 130 %	

Semivolatiles

Acenaphthylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Bis(2-chloroethyl)ether	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluorene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	05/03/21	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.19	0.19	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pyrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	72			%	1	05/03/21	WB	15 - 110 %
% 2-Fluorobiphenyl	59			%	1	05/03/21	WB	30 - 130 %
% 2-Fluorophenol	54			%	1	05/03/21	WB	15 - 110 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Nitrobenzene-d5	54			%	1	05/03/21	WB	30 - 130 %
% Phenol-d5	53			%	1	05/03/21	WB	15 - 110 %
% Terphenyl-d14	67			%	1	05/03/21	WB	30 - 130 %
SVOA Library Search Top 15	Completed					05/04/21	MR	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 25, 2021
Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 25, 2021

FOR: Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:	MC	04/27/21	16:38
Location Code:	CASHIN-NYDOT	Received by:	CP	04/28/21	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	D037853.01				

Laboratory Data

SDG ID: GCI17289
Phoenix ID: CI17296

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SW-3 4/27/21

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND		0.005	0.002	mg/L	1	04/29/21	TH	SW6010D	
Aluminum	0.261	N	0.020	0.0024	mg/L	1	05/03/21	TH	SW6010D	
Arsenic - LDL	ND		0.004	0.001	mg/L	1	04/29/21	TH	SW6010D	
Barium	0.113		0.010	0.001	mg/L	1	04/29/21	TH	SW6010D	
Beryllium	ND		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Calcium	163		0.10	0.030	mg/L	10	05/03/21	TH	SW6010D	B
Cadmium	ND		0.004	0.0005	mg/L	1	04/29/21	EK	SW6010D	
Cobalt	0.001	J	0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Chromium	ND		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Copper	0.002	J	0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Iron	1.59		0.01	0.01	mg/L	1	04/29/21	TH	E200.7	
Mercury	ND		0.0002	0.00015	mg/L	1	04/29/21	MGH	SW7470A	
Potassium	5.2		0.1	0.1	mg/L	1	04/29/21	TH	SW6010D	
Magnesium	20.4		0.010	0.01	mg/L	1	04/29/21	TH	SW6010D	
Manganese	1.75		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Sodium	132		1.0	1.0	mg/L	10	05/03/21	TH	SW6010D	
Nickel	0.002	J	0.004	0.001	mg/L	1	05/03/21	TH	SW6010D	
Lead	0.006		0.002	0.001	mg/L	1	04/29/21	TH	SW6010D	
Antimony	ND		0.0030	0.0005	mg/L	5	05/05/21	CPP	SW6020B	
Selenium	ND		0.010	0.0005	mg/L	5	05/05/21	CPP	SW6020B	
Thallium	ND		0.0005	0.0005	mg/L	5	05/06/21	CPP	SW6020B	
Vanadium	0.002	J	0.010	0.001	mg/L	1	04/29/21	TH	SW6010D	
Zinc	0.012		0.010	0.002	mg/L	1	04/29/21	TH	SW6010D	
Chloride	278		15.0	0.05	mg/L	5	04/29/21	TB	SM4500CLE-11	
Total Cyanide	ND		0.010	0.005	mg/L	1	05/04/21	O/GD	SW9010C/SW9012B	
Mercury Digestion	Completed						04/29/21	W/W	SW7470A	
Semi-Volatile Extraction	Completed						04/29/21	A/CG	SW3520C	

Ver 2

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SW-3 4/27/21

Phoenix I.D.: CI17296

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digestion	Completed					04/28/21		
Total Metals Digestion MS	Completed					04/28/21		
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	04/29/21	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
Acetone	ND	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroform	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	04/29/21	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Tetrachloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Total Xylenes	ND	1.0	1.0	ug/L	1	04/29/21	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	102			%	1	04/29/21	MH	70 - 130 %
% Bromofluorobenzene	91			%	1	04/29/21	MH	70 - 130 %
% Dibromofluoromethane	100			%	1	04/29/21	MH	70 - 130 %
% Toluene-d8	99			%	1	04/29/21	MH	70 - 130 %
Volatile Library Search Top 10	Completed					04/29/21	MH	

Semivolatiles

1,1-Biphenyl	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dimethylphenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dinitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	05/04/21	WB	SW8270D
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D
2-Chlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2-Nitroaniline	ND	4.7	4.7	ug/L	1	05/04/21	WB	SW8270D
2-Nitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D
3-Nitroaniline	ND	4.7	10	ug/L	1	05/04/21	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	05/04/21	WB	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
4-Chloro-3-methylphenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
4-Chloroaniline	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D
4-Nitroaniline	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D
4-Nitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
Acenaphthene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
Acetophenone	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D
Atrazine	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D
Benzaldehyde	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	1
Bis(2-ethylhexyl)phthalate	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Caprolactam	ND	4.7	8.4	ug/L	1	05/04/21	WB	SW8270D	
Carbazole	ND	4.7	3.6	ug/L	1	05/04/21	WB	SW8270D	
Dibenzofuran	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Diethyl phthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Dimethylphthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D	
Hexachlorocyclopentadiene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Hexachloroethane	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Isophorone	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Naphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	05/04/21	WB	SW8270D	
Phenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	42			%	1	05/04/21	WB	15 - 110 %	
% 2-Fluorobiphenyl	77			%	1	05/04/21	WB	30 - 130 %	
% 2-Fluorophenol	42			%	1	05/04/21	WB	15 - 110 %	
% Nitrobenzene-d5	76			%	1	05/04/21	WB	30 - 130 %	
% Phenol-d5	46			%	1	05/04/21	WB	15 - 110 %	
% Terphenyl-d14	57			%	1	05/04/21	WB	30 - 130 %	

Semivolatiles

Acenaphthylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Bis(2-chloroethyl)ether	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluorene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	05/03/21	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.19	0.19	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pyrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	45			%	1	05/03/21	WB	15 - 110 %
% 2-Fluorobiphenyl	72			%	1	05/03/21	WB	30 - 130 %
% 2-Fluorophenol	39			%	1	05/03/21	WB	15 - 110 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Nitrobenzene-d5	67			%	1	05/03/21	WB	30 - 130 %
% Phenol-d5	44			%	1	05/03/21	WB	15 - 110 %
% Terphenyl-d14	59			%	1	05/03/21	WB	30 - 130 %
SVOA Library Search Top 15	Completed					05/04/21	MR	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 25, 2021
Reviewed and Released by: Maryam Taylor, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 25, 2021

FOR: Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:	MC	04/28/21	11:45
Location Code:	CASHIN-NYDOT	Received by:	CP	04/28/21	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	D037853.01				

Laboratory Data

SDG ID: GCI17289
Phoenix ID: CI17297

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SW-4 4/28/21

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND		0.005	0.002	mg/L	1	04/29/21	TH	SW6010D	
Aluminum	0.191	N	0.020	0.0024	mg/L	1	04/29/21	TH	SW6010D	
Arsenic - LDL	ND		0.004	0.001	mg/L	1	04/29/21	TH	SW6010D	
Barium	0.028		0.010	0.001	mg/L	1	04/29/21	TH	SW6010D	
Beryllium	ND		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Calcium	35.4		0.010	0.003	mg/L	1	04/29/21	EK	SW6010D	B
Cadmium	ND		0.004	0.0005	mg/L	1	04/29/21	EK	SW6010D	
Cobalt	ND		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Chromium	ND		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Copper	0.001	J	0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Iron	0.86		0.01	0.01	mg/L	1	04/29/21	TH	E200.7	
Mercury	ND		0.0002	0.00015	mg/L	1	04/29/21	MGH	SW7470A	
Potassium	2.7		0.1	0.1	mg/L	1	04/29/21	TH	SW6010D	
Magnesium	9.82		0.010	0.01	mg/L	1	04/29/21	TH	SW6010D	
Manganese	0.418		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Sodium	21.6		0.10	0.1	mg/L	1	04/29/21	TH	SW6010D	
Nickel	ND		0.004	0.001	mg/L	1	04/29/21	TH	SW6010D	
Lead	0.001	J	0.002	0.001	mg/L	1	04/29/21	TH	SW6010D	
Antimony	ND		0.0030	0.0005	mg/L	5	05/05/21	CPP	SW6020B	
Selenium	ND		0.010	0.0005	mg/L	5	05/05/21	CPP	SW6020B	
Thallium	ND		0.0005	0.0005	mg/L	5	05/06/21	CPP	SW6020B	
Vanadium	ND		0.010	0.001	mg/L	1	04/29/21	TH	SW6010D	
Zinc	0.003	J	0.010	0.002	mg/L	1	04/29/21	TH	SW6010D	
Chloride	17.9		3.0	0.01	mg/L	1	04/29/21	TB	SM4500CLE-11	
Total Cyanide	ND		0.010	0.005	mg/L	1	05/04/21	O/GD	SW9010C/SW9012B	
Mercury Digestion	Completed						04/29/21	W/W	SW7470A	
Semi-Volatile Extraction	Completed						04/29/21	A/CG	SW3520C	

Ver 2

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SW-4 4/28/21

Phoenix I.D.: CI17297

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digestion	Completed					04/28/21		
Total Metals Digestion MS	Completed					04/28/21		
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	04/29/21	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
Acetone	ND	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroform	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	04/29/21	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Tetrachloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Total Xylenes	ND	1.0	1.0	ug/L	1	04/29/21	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	100			%	1	04/29/21	MH	70 - 130 %
% Bromofluorobenzene	91			%	1	04/29/21	MH	70 - 130 %
% Dibromofluoromethane	102			%	1	04/29/21	MH	70 - 130 %
% Toluene-d8	100			%	1	04/29/21	MH	70 - 130 %
Volatile Library Search Top 10	Completed					04/29/21	MH	

Semivolatiles

1,1-Biphenyl	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dimethylphenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dinitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	05/04/21	WB	SW8270D
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D
2-Chlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2-Nitroaniline	ND	4.7	4.7	ug/L	1	05/04/21	WB	SW8270D
2-Nitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D
3-Nitroaniline	ND	4.7	10	ug/L	1	05/04/21	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	05/04/21	WB	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
4-Chloro-3-methylphenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
4-Chloroaniline	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D
4-Nitroaniline	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D
4-Nitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
Acenaphthene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
Acetophenone	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D
Atrazine	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D
Benzaldehyde	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	1
Bis(2-ethylhexyl)phthalate	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Caprolactam	ND	4.7	8.4	ug/L	1	05/04/21	WB	SW8270D	
Carbazole	ND	4.7	3.6	ug/L	1	05/04/21	WB	SW8270D	
Dibenzofuran	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Diethyl phthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Dimethylphthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D	
Hexachlorocyclopentadiene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Hexachloroethane	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Isophorone	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Naphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	05/04/21	WB	SW8270D	
Phenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	76			%	1	05/04/21	WB	15 - 110 %	
% 2-Fluorobiphenyl	75			%	1	05/04/21	WB	30 - 130 %	
% 2-Fluorophenol	59			%	1	05/04/21	WB	15 - 110 %	
% Nitrobenzene-d5	74			%	1	05/04/21	WB	30 - 130 %	
% Phenol-d5	63			%	1	05/04/21	WB	15 - 110 %	
% Terphenyl-d14	78			%	1	05/04/21	WB	30 - 130 %	

Semivolatiles

Acenaphthylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Bis(2-chloroethyl)ether	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluorene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	05/03/21	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.19	0.19	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pyrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	87			%	1	05/03/21	WB	15 - 110 %
% 2-Fluorobiphenyl	70			%	1	05/03/21	WB	30 - 130 %
% 2-Fluorophenol	59			%	1	05/03/21	WB	15 - 110 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Nitrobenzene-d5	68			%	1	05/03/21	WB	30 - 130 %
% Phenol-d5	63			%	1	05/03/21	WB	15 - 110 %
% Terphenyl-d14	78			%	1	05/03/21	WB	30 - 130 %
SVOA Library Search Top 15	Completed					05/04/21	MR	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 25, 2021
Reviewed and Released by: Maryam Taylor, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 25, 2021

FOR: Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:	MC	04/27/21	10:05
Location Code:	CASHIN-NYDOT	Received by:	CP	04/28/21	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	D037853.01				

Laboratory Data

SDG ID: GCI17289
Phoenix ID: CI17298

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SD-1 4/27/21

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND		0.61	0.61	mg/Kg	1	04/29/21	EK	SW6010D
Aluminum	6880		61	12	mg/Kg	10	04/29/21	EK	SW6010D
Arsenic	2.4		1.2	1.2	mg/Kg	1	04/29/21	EK	SW6010D
Barium	190		1.2	0.61	mg/Kg	1	04/29/21	EK	SW6010D
Beryllium	ND		0.49	0.25	mg/Kg	1	04/29/21	EK	SW6010D
Calcium	3590		6.1	5.6	mg/Kg	1	04/29/21	EK	SW6010D
Cadmium	0.93		0.61	0.61	mg/Kg	1	04/29/21	EK	SW6010D
Cobalt	10.3		0.61	0.61	mg/Kg	1	04/29/21	EK	SW6010D
Chromium	14.0		0.61	0.61	mg/Kg	1	04/29/21	EK	SW6010D
Copper	12.0		1.2	0.61	mg/kg	1	04/29/21	EK	SW6010D
Iron	25700		61	61	mg/Kg	10	04/29/21	EK	SW6010D
Mercury	ND		0.05	0.03	mg/Kg	2	04/29/21	MGH	SW7471B
Potassium	1830	N	12	4.8	mg/Kg	1	04/29/21	EK	SW6010D
Magnesium	2470		6.1	6.1	mg/Kg	1	04/29/21	EK	SW6010D
Manganese	9180		61	61	mg/Kg	100	05/03/21	EK	SW6010D
Sodium	119	N	12	5.3	mg/Kg	1	04/29/21	EK	SW6010D
Nickel	12.5		0.61	0.61	mg/Kg	1	04/29/21	EK	SW6010D
Lead	13.4		1.2	0.61	mg/Kg	1	04/29/21	EK	SW6010D
Antimony	ND		6.1	6.1	mg/Kg	1	04/29/21	EK	SW6010D
Selenium	ND		2.5	2.1	mg/Kg	1	04/29/21	EK	SW6010D
Thallium	ND		3.0	3.0	mg/Kg	1	04/29/21	EK	SW6010D
Vanadium	22.1		0.61	0.61	mg/Kg	1	04/29/21	EK	SW6010D
Zinc	55.8		1.2	0.61	mg/Kg	1	04/29/21	EK	SW6010D
Percent Solid	51				%		04/28/21	AN	SW846-%Solid
Chloride	ND		98	59	mg/kg	10	05/04/21	BS/GD	SW9056A
Total Cyanide (SW9010C Distill.)	ND		0.98	0.490	mg/Kg	1	04/30/21	O/GD	SW9012B
Field Extraction	Completed						04/27/21		SW5035A [1]

Ver 2

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SD-1 4/27/21

Phoenix I.D.: CI17298

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Mercury Digestion	Completed						04/29/21	CG/W	SW7471B	
Soil Extraction for SVOA	Completed						04/28/21	K/A	SW3546	
Total Metals Digest	Completed						04/28/21	J/AG	SW3050B	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1,1-Trichloroethane	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1,2-Trichloroethane	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1-Dichloroethane	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1-Dichloroethene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1-Dichloropropene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2,3-Trichloropropane	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dibromoethane	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dichlorobenzene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dichloroethane	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dichloropropane	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
1,3-Dichlorobenzene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
1,3-Dichloropropane	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
1,4-Dichlorobenzene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
2,2-Dichloropropane	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
2-Chlorotoluene	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
2-Hexanone	ND		44	8.8	ug/Kg	1	05/05/21	JLI	SW8260C	
2-Isopropyltoluene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	1
4-Chlorotoluene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
4-Methyl-2-pentanone	ND		44	8.8	ug/Kg	1	05/05/21	JLI	SW8260C	
Acetone	91	S	44	8.8	ug/Kg	1	05/05/21	JLI	SW8260C	
Acrylonitrile	ND		18	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
Benzene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromobenzene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromochloromethane	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromodichloromethane	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromoform	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromomethane	ND		8.8	3.5	ug/Kg	1	05/05/21	JLI	SW8260C	
Carbon Disulfide	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
Carbon tetrachloride	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
Chlorobenzene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
Chloroethane	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
Chloroform	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
Chloromethane	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	
Dibromochloromethane	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
Dibromomethane	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C	
Dichlorodifluoromethane	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C	

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C
Hexachlorobutadiene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C
Isopropylbenzene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C
m&p-Xylene	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C
Methyl Ethyl Ketone	27	J	53	8.8	ug/Kg	1	05/05/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND		18	1.8	ug/Kg	1	05/05/21	JLI	SW8260C
Methylene chloride	ND		8.8	8.8	ug/Kg	1	05/05/21	JLI	SW8260C
Naphthalene	5.2	J	8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C
n-Butylbenzene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C
n-Propylbenzene	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C
o-Xylene	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C
p-Isopropyltoluene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C
sec-Butylbenzene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C
Styrene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C
tert-Butylbenzene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C
Tetrachloroethene	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND		18	4.4	ug/Kg	1	05/05/21	JLI	SW8260C
Toluene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND		18	4.4	ug/Kg	1	05/05/21	JLI	SW8260C
Trichloroethene	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C
Trichlorofluoromethane	ND		8.8	1.8	ug/Kg	1	05/05/21	JLI	SW8260C
Trichlorotrifluoroethane	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C
Vinyl chloride	ND		8.8	0.88	ug/Kg	1	05/05/21	JLI	SW8260C
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	89				%	1	05/05/21	JLI	70 - 130 %
% Bromofluorobenzene	88				%	1	05/05/21	JLI	70 - 130 %
% Dibromofluoromethane	92				%	1	05/05/21	JLI	70 - 130 %
% Toluene-d8	90				%	1	05/05/21	JLI	70 - 130 %
Semivolatiles									
1,1-Biphenyl	ND		930	410	ug/Kg	1	04/29/21	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND		930	470	ug/Kg	1	04/29/21	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND		930	630	ug/Kg	1	04/29/21	WB	SW8270D
2,4,5-Trichlorophenol	ND		930	730	ug/Kg	1	04/29/21	WB	SW8270D
2,4,6-Trichlorophenol	ND		530	430	ug/Kg	1	04/29/21	WB	SW8270D
2,4-Dichlorophenol	ND		530	470	ug/Kg	1	04/29/21	WB	SW8270D
2,4-Dimethylphenol	ND		930	330	ug/Kg	1	04/29/21	WB	SW8270D
2,4-Dinitrophenol	ND		930	930	ug/Kg	1	04/29/21	WB	SW8270D
2,4-Dinitrotoluene	ND		530	530	ug/Kg	1	04/29/21	WB	SW8270D
2,6-Dinitrotoluene	ND		530	420	ug/Kg	1	04/29/21	WB	SW8270D
2-Chloronaphthalene	ND		930	380	ug/Kg	1	04/29/21	WB	SW8270D
2-Chlorophenol	ND		930	380	ug/Kg	1	04/29/21	WB	SW8270D
2-Methylnaphthalene	ND		930	400	ug/Kg	1	04/29/21	WB	SW8270D
2-Methylphenol (o-cresol)	ND		930	630	ug/Kg	1	04/29/21	WB	SW8270D
2-Nitroaniline	ND		930	930	ug/Kg	1	04/29/21	WB	SW8270D
2-Nitrophenol	ND		930	850	ug/Kg	1	04/29/21	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND		930	530	ug/Kg	1	04/29/21	WB	SW8270D
3,3'-Dichlorobenzidine	ND		530	530	ug/Kg	1	04/29/21	WB	SW8270D

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SD-1 4/27/21

Phoenix I.D.: CI17298

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
3-Nitroaniline	ND		2700	930	ug/Kg	1	04/29/21	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND		930	930	ug/Kg	1	04/29/21	WB	SW8270D	
4-Bromophenyl phenyl ether	ND		930	390	ug/Kg	1	04/29/21	WB	SW8270D	
4-Chloro-3-methylphenol	ND		930	470	ug/Kg	1	04/29/21	WB	SW8270D	
4-Chloroaniline	ND		2700	620	ug/Kg	1	04/29/21	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND		930	450	ug/Kg	1	04/29/21	WB	SW8270D	
4-Nitroaniline	ND		6700	450	ug/Kg	1	04/29/21	WB	SW8270D	
4-Nitrophenol	ND		930	600	ug/Kg	1	04/29/21	WB	SW8270D	
Acenaphthene	ND		930	410	ug/Kg	1	04/29/21	WB	SW8270D	
Acenaphthylene	ND		530	370	ug/Kg	1	04/29/21	WB	SW8270D	
Acetophenone	ND		930	420	ug/Kg	1	04/29/21	WB	SW8270D	
Anthracene	ND		930	440	ug/Kg	1	04/29/21	WB	SW8270D	
Atrazine	ND		930	350	ug/Kg	1	04/29/21	WB	SW8270D	
Benz(a)anthracene	660	J	930	450	ug/Kg	1	04/29/21	WB	SW8270D	
Benzaldehyde	ND		930	400	ug/Kg	1	04/29/21	WB	SW8270D	
Benzo(a)pyrene	680		530	440	ug/Kg	1	04/29/21	WB	SW8270D	
Benzo(b)fluoranthene	740	J	930	460	ug/Kg	1	04/29/21	WB	SW8270D	
Benzo(ghi)perylene	440	J	930	430	ug/Kg	1	04/29/21	WB	SW8270D	
Benzo(k)fluoranthene	530	J	930	440	ug/Kg	1	04/29/21	WB	SW8270D	
Benzyl butyl phthalate	ND		930	340	ug/Kg	1	04/29/21	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND		930	370	ug/Kg	1	04/29/21	WB	SW8270D	
Bis(2-chloroethyl)ether	ND		530	360	ug/Kg	1	04/29/21	WB	SW8270D	
Bis(2-chloroisopropyl)ether	ND		930	370	ug/Kg	1	04/29/21	WB	SW8270D	1
Bis(2-ethylhexyl)phthalate	ND		930	380	ug/Kg	1	04/29/21	WB	SW8270D	
Caprolactam	ND		930	930	ug/Kg	1	04/29/21	WB	SW8270D	
Carbazole	ND		930	670	ug/Kg	1	04/29/21	WB	SW8270D	
Chrysene	720	J	930	450	ug/Kg	1	04/29/21	WB	SW8270D	
Dibenz(a,h)anthracene	ND		530	430	ug/Kg	1	04/29/21	WB	SW8270D	
Dibenzofuran	ND		930	390	ug/Kg	1	04/29/21	WB	SW8270D	
Diethyl phthalate	ND		930	420	ug/Kg	1	04/29/21	WB	SW8270D	
Dimethylphthalate	ND		930	410	ug/Kg	1	04/29/21	WB	SW8270D	
Di-n-butylphthalate	ND		930	360	ug/Kg	1	04/29/21	WB	SW8270D	
Di-n-octylphthalate	ND		930	340	ug/Kg	1	04/29/21	WB	SW8270D	
Fluoranthene	990		930	430	ug/Kg	1	04/29/21	WB	SW8270D	
Fluorene	ND		930	440	ug/Kg	1	04/29/21	WB	SW8270D	
Hexachlorobenzene	ND		530	390	ug/Kg	1	04/29/21	WB	SW8270D	
Hexachlorobutadiene	ND		930	480	ug/Kg	1	04/29/21	WB	SW8270D	
Hexachlorocyclopentadiene	ND		930	410	ug/Kg	1	04/29/21	WB	SW8270D	
Hexachloroethane	ND		530	400	ug/Kg	1	04/29/21	WB	SW8270D	
Indeno(1,2,3-cd)pyrene	ND		930	440	ug/Kg	1	04/29/21	WB	SW8270D	
Isophorone	ND		530	370	ug/Kg	1	04/29/21	WB	SW8270D	
Naphthalene	ND		930	380	ug/Kg	1	04/29/21	WB	SW8270D	
Nitrobenzene	ND		530	470	ug/Kg	1	04/29/21	WB	SW8270D	
N-Nitrosodimethylamine	ND		930	380	ug/Kg	1	04/29/21	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND		530	430	ug/Kg	1	04/29/21	WB	SW8270D	
N-Nitrosodiphenylamine	ND		530	510	ug/Kg	1	04/29/21	WB	SW8270D	
Pentachlorophenol	ND		930	500	ug/Kg	1	04/29/21	WB	SW8270D	
Phenanthrene	ND		530	380	ug/Kg	1	04/29/21	WB	SW8270D	
Phenol	ND		930	430	ug/Kg	1	04/29/21	WB	SW8270D	

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SD-1 4/27/21

Phoenix I.D.: CI17298

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Pyrene	800	J	930	460	ug/Kg	1	04/29/21	WB	SW8270D
QA/QC Surrogates									
% 2,4,6-Tribromophenol	111				%	1	04/29/21	WB	30 - 130 %
% 2-Fluorobiphenyl	77				%	1	04/29/21	WB	30 - 130 %
% 2-Fluorophenol	62				%	1	04/29/21	WB	30 - 130 %
% Nitrobenzene-d5	83				%	1	04/29/21	WB	30 - 130 %
% Phenol-d5	78				%	1	04/29/21	WB	30 - 130 %
% Terphenyl-d14	74				%	1	04/29/21	WB	30 - 130 %
SVOA Library Search Top 15	Completed						05/11/21	MR	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

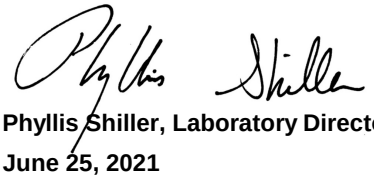
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 25, 2021
Reviewed and Released by: Maryam Taylor, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 25, 2021

FOR: Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:	MC	04/27/21	12:12
Location Code:	CASHIN-NYDOT	Received by:	CP	04/28/21	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	D037853.01				

Laboratory Data

SDG ID: GCI17289
Phoenix ID: CI17299

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SD-2 4/27/21

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND		0.49	0.49	mg/Kg	1	04/29/21	EK	SW6010D
Aluminum	5210		49	9.8	mg/Kg	10	04/29/21	EK	SW6010D
Arsenic	1.90		0.98	0.98	mg/Kg	1	04/29/21	EK	SW6010D
Barium	103		1.0	0.49	mg/Kg	1	04/29/21	EK	SW6010D
Beryllium	ND		0.39	0.20	mg/Kg	1	04/29/21	EK	SW6010D
Calcium	11700		4.9	4.5	mg/Kg	1	04/29/21	EK	SW6010D
Cadmium	0.65		0.49	0.49	mg/Kg	1	04/29/21	EK	SW6010D
Cobalt	11.4		0.49	0.49	mg/Kg	1	04/29/21	EK	SW6010D
Chromium	19.3		0.49	0.49	mg/Kg	1	04/29/21	EK	SW6010D
Copper	11.6		1.0	0.49	mg/kg	1	04/29/21	EK	SW6010D
Iron	18300		49	49	mg/Kg	10	04/29/21	EK	SW6010D
Mercury	ND		0.04	0.02	mg/Kg	2	04/29/21	MGH	SW7471B
Potassium	1820	N	10	3.8	mg/Kg	1	04/29/21	EK	SW6010D
Magnesium	19600		49	49	mg/Kg	10	04/29/21	EK	SW6010D
Manganese	2690		49	49	mg/Kg	100	05/03/21	EK	SW6010D
Sodium	103	N	10	4.2	mg/Kg	1	04/29/21	EK	SW6010D
Nickel	143		0.49	0.49	mg/Kg	1	04/29/21	EK	SW6010D
Lead	18.4		1.0	0.49	mg/Kg	1	04/29/21	EK	SW6010D
Antimony	ND		4.9	4.9	mg/Kg	1	04/29/21	EK	SW6010D
Selenium	ND		2.0	1.7	mg/Kg	1	04/29/21	EK	SW6010D
Thallium	ND		2.0	2.0	mg/Kg	1	04/29/21	EK	SW6010D
Vanadium	17.8		0.49	0.49	mg/Kg	1	04/29/21	EK	SW6010D
Zinc	79.5		1.0	0.49	mg/Kg	1	04/29/21	EK	SW6010D
Percent Solid	70				%		04/28/21	AN	SW846-%Solid
Chloride	ND		71	43	mg/kg	10	05/04/21	BS/GD	SW9056A
Total Cyanide (SW9010C Distill.)	0.47	J	0.65	0.325	mg/Kg	1	04/30/21	O/GD	SW9012B
Field Extraction	Completed						04/27/21		SW5035A [1]

Ver 2

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SD-2 4/27/21

Phoenix I.D.: CI17299

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Mercury Digestion	Completed					04/29/21	CG/W	SW7471B	
Soil Extraction for SVOA	Completed					04/28/21	K/A	SW3546	
Total Metals Digest	Completed					04/28/21	J/AG	SW3050B	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1,1-Trichloroethane	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1,2-Trichloroethane	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1-Dichloroethane	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1-Dichloroethene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1-Dichloropropene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2,3-Trichloropropane	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dibromoethane	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dichlorobenzene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dichloroethane	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dichloropropane	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
1,3-Dichlorobenzene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
1,3-Dichloropropane	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
1,4-Dichlorobenzene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
2,2-Dichloropropane	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
2-Chlorotoluene	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
2-Hexanone	ND	26	5.2	ug/Kg	1	05/05/21	JLI	SW8260C	
2-Isopropyltoluene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	1
4-Chlorotoluene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
4-Methyl-2-pentanone	ND	26	5.2	ug/Kg	1	05/05/21	JLI	SW8260C	
Acetone	ND	26	5.2	ug/Kg	1	05/05/21	JLI	SW8260C	
Acrylonitrile	ND	10	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
Benzene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromobenzene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromochloromethane	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromodichloromethane	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromoform	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromomethane	ND	5.2	2.1	ug/Kg	1	05/05/21	JLI	SW8260C	
Carbon Disulfide	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
Carbon tetrachloride	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
Chlorobenzene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
Chloroethane	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
Chloroform	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
Chloromethane	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	
Dibromochloromethane	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
Dibromomethane	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C	
Dichlorodifluoromethane	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C
Hexachlorobutadiene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C
Isopropylbenzene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C
m&p-Xylene	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	31	5.2	ug/Kg	1	05/05/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	1.0	ug/Kg	1	05/05/21	JLI	SW8260C
Methylene chloride	ND	5.2	5.2	ug/Kg	1	05/05/21	JLI	SW8260C
Naphthalene	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C
n-Butylbenzene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C
n-Propylbenzene	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C
o-Xylene	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C
p-Isopropyltoluene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C
sec-Butylbenzene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C
Styrene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C
tert-Butylbenzene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C
Tetrachloroethene	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	2.6	ug/Kg	1	05/05/21	JLI	SW8260C
Toluene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	2.6	ug/Kg	1	05/05/21	JLI	SW8260C
Trichloroethene	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C
Trichlorofluoromethane	ND	5.2	1.0	ug/Kg	1	05/05/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C
Vinyl chloride	ND	5.2	0.52	ug/Kg	1	05/05/21	JLI	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	88			%	1	05/05/21	JLI	70 - 130 %
% Bromofluorobenzene	93			%	1	05/05/21	JLI	70 - 130 %
% Dibromofluoromethane	93			%	1	05/05/21	JLI	70 - 130 %
% Toluene-d8	91			%	1	05/05/21	JLI	70 - 130 %
Semivolatiles								
1,1-Biphenyl	ND	680	300	ug/Kg	1	04/29/21	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	680	340	ug/Kg	1	04/29/21	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	680	450	ug/Kg	1	04/29/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	680	530	ug/Kg	1	04/29/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	390	310	ug/Kg	1	04/29/21	WB	SW8270D
2,4-Dichlorophenol	ND	390	340	ug/Kg	1	04/29/21	WB	SW8270D
2,4-Dimethylphenol	ND	680	240	ug/Kg	1	04/29/21	WB	SW8270D
2,4-Dinitrophenol	ND	680	680	ug/Kg	1	04/29/21	WB	SW8270D
2,4-Dinitrotoluene	ND	390	380	ug/Kg	1	04/29/21	WB	SW8270D
2,6-Dinitrotoluene	ND	390	310	ug/Kg	1	04/29/21	WB	SW8270D
2-Chloronaphthalene	ND	680	280	ug/Kg	1	04/29/21	WB	SW8270D
2-Chlorophenol	ND	680	280	ug/Kg	1	04/29/21	WB	SW8270D
2-Methylnaphthalene	ND	680	290	ug/Kg	1	04/29/21	WB	SW8270D
2-Methylphenol (o-cresol)	ND	680	460	ug/Kg	1	04/29/21	WB	SW8270D
2-Nitroaniline	ND	680	680	ug/Kg	1	04/29/21	WB	SW8270D
2-Nitrophenol	ND	680	610	ug/Kg	1	04/29/21	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	680	380	ug/Kg	1	04/29/21	WB	SW8270D
3,3'-Dichlorobenzidine	ND	390	390	ug/Kg	1	04/29/21	WB	SW8270D

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SD-2 4/27/21

Phoenix I.D.: CI17299

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
3-Nitroaniline	ND	1900	680	ug/Kg	1	04/29/21	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	680	680	ug/Kg	1	04/29/21	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	680	280	ug/Kg	1	04/29/21	WB	SW8270D	
4-Chloro-3-methylphenol	ND	680	340	ug/Kg	1	04/29/21	WB	SW8270D	
4-Chloroaniline	ND	1900	450	ug/Kg	1	04/29/21	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	680	330	ug/Kg	1	04/29/21	WB	SW8270D	
4-Nitroaniline	ND	4800	320	ug/Kg	1	04/29/21	WB	SW8270D	
4-Nitrophenol	ND	680	440	ug/Kg	1	04/29/21	WB	SW8270D	
Acenaphthene	ND	680	290	ug/Kg	1	04/29/21	WB	SW8270D	
Acenaphthylene	ND	390	270	ug/Kg	1	04/29/21	WB	SW8270D	
Acetophenone	ND	680	300	ug/Kg	1	04/29/21	WB	SW8270D	
Anthracene	ND	680	320	ug/Kg	1	04/29/21	WB	SW8270D	
Atrazine	ND	680	250	ug/Kg	1	04/29/21	WB	SW8270D	
Benz(a)anthracene	ND	680	330	ug/Kg	1	04/29/21	WB	SW8270D	
Benzaldehyde	ND	680	290	ug/Kg	1	04/29/21	WB	SW8270D	
Benzo(a)pyrene	ND	390	320	ug/Kg	1	04/29/21	WB	SW8270D	
Benzo(b)fluoranthene	ND	680	330	ug/Kg	1	04/29/21	WB	SW8270D	
Benzo(ghi)perylene	ND	680	310	ug/Kg	1	04/29/21	WB	SW8270D	
Benzo(k)fluoranthene	ND	680	320	ug/Kg	1	04/29/21	WB	SW8270D	
Benzyl butyl phthalate	ND	680	250	ug/Kg	1	04/29/21	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	680	270	ug/Kg	1	04/29/21	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	390	260	ug/Kg	1	04/29/21	WB	SW8270D	
Bis(2-chloroisopropyl)ether	ND	680	270	ug/Kg	1	04/29/21	WB	SW8270D	1
Bis(2-ethylhexyl)phthalate	ND	680	280	ug/Kg	1	04/29/21	WB	SW8270D	
Caprolactam	ND	680	680	ug/Kg	1	04/29/21	WB	SW8270D	
Carbazole	ND	680	480	ug/Kg	1	04/29/21	WB	SW8270D	
Chrysene	ND	680	330	ug/Kg	1	04/29/21	WB	SW8270D	
Dibenz(a,h)anthracene	ND	390	310	ug/Kg	1	04/29/21	WB	SW8270D	
Dibenzofuran	ND	680	280	ug/Kg	1	04/29/21	WB	SW8270D	
Diethyl phthalate	ND	680	310	ug/Kg	1	04/29/21	WB	SW8270D	
Dimethylphthalate	ND	680	300	ug/Kg	1	04/29/21	WB	SW8270D	
Di-n-butylphthalate	ND	680	260	ug/Kg	1	04/29/21	WB	SW8270D	
Di-n-octylphthalate	ND	680	250	ug/Kg	1	04/29/21	WB	SW8270D	
Fluoranthene	ND	680	310	ug/Kg	1	04/29/21	WB	SW8270D	
Fluorene	ND	680	320	ug/Kg	1	04/29/21	WB	SW8270D	
Hexachlorobenzene	ND	390	280	ug/Kg	1	04/29/21	WB	SW8270D	
Hexachlorobutadiene	ND	680	350	ug/Kg	1	04/29/21	WB	SW8270D	
Hexachlorocyclopentadiene	ND	680	300	ug/Kg	1	04/29/21	WB	SW8270D	
Hexachloroethane	ND	390	290	ug/Kg	1	04/29/21	WB	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	680	320	ug/Kg	1	04/29/21	WB	SW8270D	
Isophorone	ND	390	270	ug/Kg	1	04/29/21	WB	SW8270D	
Naphthalene	ND	680	280	ug/Kg	1	04/29/21	WB	SW8270D	
Nitrobenzene	ND	390	340	ug/Kg	1	04/29/21	WB	SW8270D	
N-Nitrosodimethylamine	ND	680	270	ug/Kg	1	04/29/21	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	390	310	ug/Kg	1	04/29/21	WB	SW8270D	
N-Nitrosodiphenylamine	ND	390	370	ug/Kg	1	04/29/21	WB	SW8270D	
Pentachlorophenol	ND	680	370	ug/Kg	1	04/29/21	WB	SW8270D	
Phenanthrene	ND	390	280	ug/Kg	1	04/29/21	WB	SW8270D	
Phenol	ND	680	310	ug/Kg	1	04/29/21	WB	SW8270D	

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SD-2 4/27/21

Phoenix I.D.: CI17299

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Pyrene	ND	680	330	ug/Kg	1	04/29/21	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	114			%	1	04/29/21	WB	30 - 130 %
% 2-Fluorobiphenyl	81			%	1	04/29/21	WB	30 - 130 %
% 2-Fluorophenol	57			%	1	04/29/21	WB	30 - 130 %
% Nitrobenzene-d5	83			%	1	04/29/21	WB	30 - 130 %
% Phenol-d5	73			%	1	04/29/21	WB	30 - 130 %
% Terphenyl-d14	75			%	1	04/29/21	WB	30 - 130 %
SVOA Library Search Top 15	Completed					05/11/21	MR	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 25, 2021
Reviewed and Released by: Maryam Taylor, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 25, 2021

FOR: Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:	MC	04/27/21	16:57
Location Code:	CASHIN-NYDOT	Received by:	CP	04/28/21	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	D037853.01				

Laboratory Data

SDG ID: GCI17289
Phoenix ID: CI17300

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SD-3 4/27/21

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND		0.76	0.76	mg/Kg	1	04/29/21	EK	SW6010D
Aluminum	13600		76	15	mg/Kg	10	04/29/21	EK	SW6010D
Arsenic	3.4		1.5	1.5	mg/Kg	1	04/29/21	EK	SW6010D
Barium	89.7		1.5	0.76	mg/Kg	1	04/29/21	EK	SW6010D
Beryllium	0.34	J	0.60	0.30	mg/Kg	1	04/29/21	EK	SW6010D
Calcium	26200		76	69	mg/Kg	10	04/29/21	EK	SW6010D
Cadmium	2.37		0.76	0.76	mg/Kg	1	04/29/21	EK	SW6010D
Cobalt	13.9		0.76	0.76	mg/Kg	1	04/29/21	EK	SW6010D
Chromium	25.1		0.76	0.76	mg/Kg	1	04/29/21	EK	SW6010D
Copper	45.0		1.5	0.76	mg/kg	1	04/29/21	EK	SW6010D
Iron	25100		76	76	mg/Kg	10	04/29/21	EK	SW6010D
Mercury	ND		0.06	0.04	mg/Kg	2	04/29/21	MGH	SW7471B
Potassium	1920	N	15	5.9	mg/Kg	1	04/29/21	EK	SW6010D
Magnesium	16200		76	76	mg/Kg	10	04/29/21	EK	SW6010D
Manganese	651		7.6	7.6	mg/Kg	10	04/29/21	EK	SW6010D
Sodium	606	N	15	6.5	mg/Kg	1	04/29/21	EK	SW6010D
Nickel	23.7		0.76	0.76	mg/Kg	1	04/29/21	EK	SW6010D
Lead	122		1.5	0.76	mg/Kg	1	04/29/21	EK	SW6010D
Antimony	ND		7.6	7.6	mg/Kg	1	04/29/21	EK	SW6010D
Selenium	ND		3.0	2.6	mg/Kg	1	04/29/21	EK	SW6010D
Thallium	ND		3.0	3.0	mg/Kg	1	04/29/21	EK	SW6010D
Vanadium	52.8		0.76	0.76	mg/Kg	1	04/29/21	EK	SW6010D
Zinc	137		1.5	0.76	mg/Kg	1	04/29/21	EK	SW6010D
Percent Solid	43				%		04/28/21	AN	SW846-%Solid
Chloride	291		116	70	mg/kg	10	05/04/21	BS/GD	SW9056A
Total Cyanide (SW9010C Distill.)	ND		1.16	0.581	mg/Kg	1	04/30/21	O/GD	SW9012B
Field Extraction	Completed						04/27/21		SW5035A [1]

Ver 2

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SD-3 4/27/21

Phoenix I.D.: CI17300

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Mercury Digestion	Completed						04/29/21	CG/W	SW7471B	
Soil Extraction for SVOA	Completed						04/28/21	K/A	SW3546	
Total Metals Digest	Completed						04/28/21	J/AG	SW3050B	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		12	2.4	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1,1-Trichloroethane	ND		12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND		980	200	ug/Kg	50	05/05/21	JLI	SW8260C	
1,1,2-Trichloroethane	ND		12	2.4	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1-Dichloroethane	ND		12	2.4	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1-Dichloroethene	ND		12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1-Dichloropropene	ND		12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		980	200	ug/Kg	50	05/05/21	JLI	SW8260C	
1,2,3-Trichloropropane	ND		980	98	ug/Kg	50	05/05/21	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		980	200	ug/Kg	50	05/05/21	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		980	98	ug/Kg	50	05/05/21	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		980	200	ug/Kg	50	05/05/21	JLI	SW8260C	
1,2-Dibromoethane	ND		12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dichlorobenzene	ND		980	98	ug/Kg	50	05/05/21	JLI	SW8260C	
1,2-Dichloroethane	ND		12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dichloropropane	ND		12	2.4	ug/Kg	1	05/05/21	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		980	98	ug/Kg	50	05/05/21	JLI	SW8260C	
1,3-Dichlorobenzene	ND		980	98	ug/Kg	50	05/05/21	JLI	SW8260C	
1,3-Dichloropropane	ND		12	2.4	ug/Kg	1	05/05/21	JLI	SW8260C	
1,4-Dichlorobenzene	ND		980	98	ug/Kg	50	05/05/21	JLI	SW8260C	
2,2-Dichloropropane	ND		12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
2-Chlorotoluene	ND		980	200	ug/Kg	50	05/05/21	JLI	SW8260C	
2-Hexanone	ND		60	12	ug/Kg	1	05/05/21	JLI	SW8260C	
2-Isopropyltoluene	ND		980	98	ug/Kg	50	05/05/21	JLI	SW8260C	1
4-Chlorotoluene	ND		980	98	ug/Kg	50	05/05/21	JLI	SW8260C	
4-Methyl-2-pentanone	ND		60	12	ug/Kg	1	05/05/21	JLI	SW8260C	
Acetone	33	JS	60	12	ug/Kg	1	05/05/21	JLI	SW8260C	
Acrylonitrile	ND		24	2.4	ug/Kg	1	05/05/21	JLI	SW8260C	
Benzene	ND		12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromobenzene	ND		980	98	ug/Kg	50	05/05/21	JLI	SW8260C	
Bromochloromethane	ND		12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromodichloromethane	ND		12	2.4	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromoform	ND		12	2.4	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromomethane	ND		12	4.8	ug/Kg	1	05/05/21	JLI	SW8260C	
Carbon Disulfide	ND		12	2.4	ug/Kg	1	05/05/21	JLI	SW8260C	
Carbon tetrachloride	ND		12	2.4	ug/Kg	1	05/05/21	JLI	SW8260C	
Chlorobenzene	ND		12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
Chloroethane	ND		12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
Chloroform	ND		12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
Chloromethane	ND		12	2.4	ug/Kg	1	05/05/21	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
Dibromochloromethane	ND		12	2.4	ug/Kg	1	05/05/21	JLI	SW8260C	
Dibromomethane	ND		12	2.4	ug/Kg	1	05/05/21	JLI	SW8260C	
Dichlorodifluoromethane	ND		12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	

Ver 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C
Hexachlorobutadiene	ND	980	98	ug/Kg	50	05/05/21	JLI	SW8260C
Isopropylbenzene	ND	980	98	ug/Kg	50	05/05/21	JLI	SW8260C
m&p-Xylene	ND	12	2.4	ug/Kg	1	05/05/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	73	12	ug/Kg	1	05/05/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	24	2.4	ug/Kg	1	05/05/21	JLI	SW8260C
Methylene chloride	ND	12	12	ug/Kg	1	05/05/21	JLI	SW8260C
Naphthalene	ND	980	200	ug/Kg	50	05/05/21	JLI	SW8260C
n-Butylbenzene	ND	980	98	ug/Kg	50	05/05/21	JLI	SW8260C
n-Propylbenzene	ND	980	200	ug/Kg	50	05/05/21	JLI	SW8260C
o-Xylene	ND	12	2.4	ug/Kg	1	05/05/21	JLI	SW8260C
p-Isopropyltoluene	ND	980	98	ug/Kg	50	05/05/21	JLI	SW8260C
sec-Butylbenzene	ND	980	98	ug/Kg	50	05/05/21	JLI	SW8260C
Styrene	ND	12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C
tert-Butylbenzene	ND	980	98	ug/Kg	50	05/05/21	JLI	SW8260C
Tetrachloroethene	ND	12	2.4	ug/Kg	1	05/05/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	24	6.0	ug/Kg	1	05/05/21	JLI	SW8260C
Toluene	ND	12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	2000	490	ug/Kg	50	05/05/21	JLI	SW8260C
Trichloroethene	ND	12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C
Trichlorofluoromethane	ND	12	2.4	ug/Kg	1	05/05/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C
Vinyl chloride	ND	12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	86			%	1	05/05/21	JLI	70 - 130 %
% Bromofluorobenzene	79			%	1	05/05/21	JLI	70 - 130 %
% Dibromofluoromethane	101			%	1	05/05/21	JLI	70 - 130 %
% Toluene-d8	87			%	1	05/05/21	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	91			%	50	05/05/21	JLI	70 - 130 %
% Bromofluorobenzene (50x)	97			%	50	05/05/21	JLI	70 - 130 %
% Dibromofluoromethane (50x)	97			%	50	05/05/21	JLI	70 - 130 %
% Toluene-d8 (50x)	91			%	50	05/05/21	JLI	70 - 130 %
Semivolatiles								
1,1-Biphenyl	ND	1100	480	ug/Kg	1	04/29/21	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	1100	550	ug/Kg	1	04/29/21	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	1100	730	ug/Kg	1	04/29/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	1100	860	ug/Kg	1	04/29/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	620	500	ug/Kg	1	04/29/21	WB	SW8270D
2,4-Dichlorophenol	ND	620	550	ug/Kg	1	04/29/21	WB	SW8270D
2,4-Dimethylphenol	ND	1100	390	ug/Kg	1	04/29/21	WB	SW8270D
2,4-Dinitrophenol	ND	1100	1100	ug/Kg	1	04/29/21	WB	SW8270D
2,4-Dinitrotoluene	ND	620	610	ug/Kg	1	04/29/21	WB	SW8270D
2,6-Dinitrotoluene	ND	620	490	ug/Kg	1	04/29/21	WB	SW8270D
2-Chloronaphthalene	ND	1100	440	ug/Kg	1	04/29/21	WB	SW8270D
2-Chlorophenol	ND	1100	440	ug/Kg	1	04/29/21	WB	SW8270D
2-Methylnaphthalene	ND	1100	470	ug/Kg	1	04/29/21	WB	SW8270D
2-Methylphenol (o-cresol)	ND	1100	730	ug/Kg	1	04/29/21	WB	SW8270D

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SD-3 4/27/21

Phoenix I.D.: CI17300

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2-Nitroaniline	ND	1100	1100	ug/Kg	1	04/29/21	WB	SW8270D	
2-Nitrophenol	ND	1100	990	ug/Kg	1	04/29/21	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	1100	610	ug/Kg	1	04/29/21	WB	SW8270D	
3,3'-Dichlorobenzidine	ND	620	620	ug/Kg	1	04/29/21	WB	SW8270D	
3-Nitroaniline	ND	3100	1100	ug/Kg	1	04/29/21	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1100	1100	ug/Kg	1	04/29/21	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	1100	460	ug/Kg	1	04/29/21	WB	SW8270D	
4-Chloro-3-methylphenol	ND	1100	550	ug/Kg	1	04/29/21	WB	SW8270D	
4-Chloroaniline	ND	3100	730	ug/Kg	1	04/29/21	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	1100	520	ug/Kg	1	04/29/21	WB	SW8270D	
4-Nitroaniline	ND	7800	520	ug/Kg	1	04/29/21	WB	SW8270D	
4-Nitrophenol	ND	1100	710	ug/Kg	1	04/29/21	WB	SW8270D	
Acenaphthene	ND	1100	470	ug/Kg	1	04/29/21	WB	SW8270D	
Acenaphthylene	ND	620	440	ug/Kg	1	04/29/21	WB	SW8270D	
Acetophenone	ND	1100	490	ug/Kg	1	04/29/21	WB	SW8270D	
Anthracene	ND	1100	510	ug/Kg	1	04/29/21	WB	SW8270D	
Atrazine	ND	1100	410	ug/Kg	1	04/29/21	WB	SW8270D	
Benz(a)anthracene	ND	1100	520	ug/Kg	1	04/29/21	WB	SW8270D	
Benzaldehyde	ND	1100	460	ug/Kg	1	04/29/21	WB	SW8270D	
Benzo(a)pyrene	ND	620	510	ug/Kg	1	04/29/21	WB	SW8270D	
Benzo(b)fluoranthene	ND	1100	530	ug/Kg	1	04/29/21	WB	SW8270D	
Benzo(ghi)perylene	ND	1100	510	ug/Kg	1	04/29/21	WB	SW8270D	
Benzo(k)fluoranthene	ND	1100	520	ug/Kg	1	04/29/21	WB	SW8270D	
Benzyl butyl phthalate	ND	1100	400	ug/Kg	1	04/29/21	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	1100	430	ug/Kg	1	04/29/21	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	620	420	ug/Kg	1	04/29/21	WB	SW8270D	
Bis(2-chloroisopropyl)ether	ND	1100	430	ug/Kg	1	04/29/21	WB	SW8270D	1
Bis(2-ethylhexyl)phthalate	ND	1100	450	ug/Kg	1	04/29/21	WB	SW8270D	
Caprolactam	ND	1100	1100	ug/Kg	1	04/29/21	WB	SW8270D	
Carbazole	ND	1100	780	ug/Kg	1	04/29/21	WB	SW8270D	
Chrysene	ND	1100	520	ug/Kg	1	04/29/21	WB	SW8270D	
Dibenz(a,h)anthracene	ND	620	510	ug/Kg	1	04/29/21	WB	SW8270D	
Dibenzofuran	ND	1100	460	ug/Kg	1	04/29/21	WB	SW8270D	
Diethyl phthalate	ND	1100	490	ug/Kg	1	04/29/21	WB	SW8270D	
Dimethylphthalate	ND	1100	480	ug/Kg	1	04/29/21	WB	SW8270D	
Di-n-butylphthalate	ND	1100	420	ug/Kg	1	04/29/21	WB	SW8270D	
Di-n-octylphthalate	ND	1100	400	ug/Kg	1	04/29/21	WB	SW8270D	
Fluoranthene	ND	1100	510	ug/Kg	1	04/29/21	WB	SW8270D	
Fluorene	ND	1100	520	ug/Kg	1	04/29/21	WB	SW8270D	
Hexachlorobenzene	ND	620	460	ug/Kg	1	04/29/21	WB	SW8270D	
Hexachlorobutadiene	ND	1100	570	ug/Kg	1	04/29/21	WB	SW8270D	
Hexachlorocyclopentadiene	ND	1100	480	ug/Kg	1	04/29/21	WB	SW8270D	
Hexachloroethane	ND	620	470	ug/Kg	1	04/29/21	WB	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	1100	520	ug/Kg	1	04/29/21	WB	SW8270D	
Isophorone	ND	620	440	ug/Kg	1	04/29/21	WB	SW8270D	
Naphthalene	ND	1100	450	ug/Kg	1	04/29/21	WB	SW8270D	
Nitrobenzene	ND	620	550	ug/Kg	1	04/29/21	WB	SW8270D	
N-Nitrosodimethylamine	ND	1100	440	ug/Kg	1	04/29/21	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	620	510	ug/Kg	1	04/29/21	WB	SW8270D	

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SD-3 4/27/21

Phoenix I.D.: CI17300

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	620	600	ug/Kg	1	04/29/21	WB	SW8270D
Pentachlorophenol	ND	1100	590	ug/Kg	1	04/29/21	WB	SW8270D
Phenanthrene	ND	620	450	ug/Kg	1	04/29/21	WB	SW8270D
Phenol	ND	1100	500	ug/Kg	1	04/29/21	WB	SW8270D
Pyrene	ND	1100	540	ug/Kg	1	04/29/21	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	117			%	1	04/29/21	WB	30 - 130 %
% 2-Fluorobiphenyl	81			%	1	04/29/21	WB	30 - 130 %
% 2-Fluorophenol	56			%	1	04/29/21	WB	30 - 130 %
% Nitrobenzene-d5	78			%	1	04/29/21	WB	30 - 130 %
% Phenol-d5	72			%	1	04/29/21	WB	30 - 130 %
% Terphenyl-d14	71			%	1	04/29/21	WB	30 - 130 %
SVOA Library Search Top 15	Completed					04/29/21	MR	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 25, 2021
Reviewed and Released by: Maryam Taylor, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 25, 2021

FOR: Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:	MC	04/28/21	11:55
Location Code:	CASHIN-NYDOT	Received by:	CP	04/28/21	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	D037853.01				

Laboratory Data

SDG ID: GCI17289
Phoenix ID: CI17301

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SD-4 4/28/21

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND		0.47	0.47	mg/Kg	1	04/29/21	EK	SW6010D
Aluminum	4220		47	9.3	mg/Kg	10	04/29/21	EK	SW6010D
Arsenic	1.12		0.93	0.93	mg/Kg	1	04/29/21	EK	SW6010D
Barium	66.2		0.9	0.47	mg/Kg	1	04/29/21	EK	SW6010D
Beryllium	ND		0.37	0.19	mg/Kg	1	04/29/21	EK	SW6010D
Calcium	10900		4.7	4.3	mg/Kg	1	04/29/21	EK	SW6010D
Cadmium	0.53		0.47	0.47	mg/Kg	1	04/29/21	EK	SW6010D
Cobalt	4.12		0.47	0.47	mg/Kg	1	04/29/21	EK	SW6010D
Chromium	10.4		0.47	0.47	mg/Kg	1	04/29/21	EK	SW6010D
Copper	5.8		0.9	0.47	mg/kg	1	04/29/21	EK	SW6010D
Iron	13200		47	47	mg/Kg	10	04/29/21	EK	SW6010D
Mercury	ND		0.04	0.02	mg/Kg	2	04/29/21	MGH	SW7471B
Potassium	815	N	9	3.6	mg/Kg	1	04/29/21	EK	SW6010D
Magnesium	7610		47	47	mg/Kg	10	04/29/21	EK	SW6010D
Manganese	1830		4.7	4.7	mg/Kg	10	04/29/21	EK	SW6010D
Sodium	92	N	9	4.0	mg/Kg	1	04/29/21	EK	SW6010D
Nickel	8.43		0.47	0.47	mg/Kg	1	04/29/21	EK	SW6010D
Lead	10.3		0.9	0.47	mg/Kg	1	04/29/21	EK	SW6010D
Antimony	ND		4.7	4.7	mg/Kg	1	04/29/21	EK	SW6010D
Selenium	ND		1.9	1.6	mg/Kg	1	04/29/21	EK	SW6010D
Thallium	ND		1.9	1.9	mg/Kg	1	04/29/21	EK	SW6010D
Vanadium	14.1		0.47	0.47	mg/Kg	1	04/29/21	EK	SW6010D
Zinc	42.2		0.9	0.47	mg/Kg	1	04/29/21	EK	SW6010D
Percent Solid	68				%		04/28/21	AN	SW846-%Solid
Chloride	ND		74	44	mg/kg	10	05/04/21	BS/GD	SW9056A
Total Cyanide (SW9010C Distill.)	ND		0.74	0.368	mg/Kg	1	04/30/21	O/GD	SW9012B
Field Extraction	Completed						04/28/21		SW5035A [1]

Ver 2

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SD-4 4/28/21

Phoenix I.D.: CI17301

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Mercury Digestion	Completed					04/29/21	CG/W	SW7471B	
Soil Extraction for SVOA	Completed					04/28/21	K/A	SW3546	
Total Metals Digest	Completed					04/28/21	J/AG	SW3050B	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1,1-Trichloroethane	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1,2-Trichloroethane	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1-Dichloroethane	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1-Dichloroethene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
1,1-Dichloropropene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2,3-Trichloropropane	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dibromoethane	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dichlorobenzene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dichloroethane	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
1,2-Dichloropropane	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
1,3-Dichlorobenzene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
1,3-Dichloropropane	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
1,4-Dichlorobenzene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
2,2-Dichloropropane	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
2-Chlorotoluene	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
2-Hexanone	ND	29	5.9	ug/Kg	1	05/05/21	JLI	SW8260C	
2-Isopropyltoluene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	1
4-Chlorotoluene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
4-Methyl-2-pentanone	ND	29	5.9	ug/Kg	1	05/05/21	JLI	SW8260C	
Acetone	ND	29	5.9	ug/Kg	1	05/05/21	JLI	SW8260C	
Acrylonitrile	ND	12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
Benzene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromobenzene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromochloromethane	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromodichloromethane	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromoform	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
Bromomethane	ND	5.9	2.4	ug/Kg	1	05/05/21	JLI	SW8260C	
Carbon Disulfide	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
Carbon tetrachloride	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
Chlorobenzene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
Chloroethane	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
Chloroform	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
Chloromethane	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	
Dibromochloromethane	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
Dibromomethane	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C	
Dichlorodifluoromethane	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C	

Ver 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Ethylbenzene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C
Hexachlorobutadiene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C
Isopropylbenzene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C
m&p-Xylene	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	35	5.9	ug/Kg	1	05/05/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	1.2	ug/Kg	1	05/05/21	JLI	SW8260C
Methylene chloride	ND	5.9	5.9	ug/Kg	1	05/05/21	JLI	SW8260C
Naphthalene	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C
n-Butylbenzene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C
n-Propylbenzene	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C
o-Xylene	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C
p-Isopropyltoluene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C
sec-Butylbenzene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C
Styrene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C
tert-Butylbenzene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C
Tetrachloroethene	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	2.9	ug/Kg	1	05/05/21	JLI	SW8260C
Toluene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	2.9	ug/Kg	1	05/05/21	JLI	SW8260C
Trichloroethene	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C
Trichlorofluoromethane	ND	5.9	1.2	ug/Kg	1	05/05/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C
Vinyl chloride	ND	5.9	0.59	ug/Kg	1	05/05/21	JLI	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	88			%	1	05/05/21	JLI	70 - 130 %
% Bromofluorobenzene	93			%	1	05/05/21	JLI	70 - 130 %
% Dibromofluoromethane	90			%	1	05/05/21	JLI	70 - 130 %
% Toluene-d8	92			%	1	05/05/21	JLI	70 - 130 %
Semivolatiles								
1,1-Biphenyl	ND	690	300	ug/Kg	1	04/29/21	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	690	350	ug/Kg	1	04/29/21	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	690	460	ug/Kg	1	04/29/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	690	540	ug/Kg	1	04/29/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	400	320	ug/Kg	1	04/29/21	WB	SW8270D
2,4-Dichlorophenol	ND	400	350	ug/Kg	1	04/29/21	WB	SW8270D
2,4-Dimethylphenol	ND	690	250	ug/Kg	1	04/29/21	WB	SW8270D
2,4-Dinitrophenol	ND	690	690	ug/Kg	1	04/29/21	WB	SW8270D
2,4-Dinitrotoluene	ND	400	390	ug/Kg	1	04/29/21	WB	SW8270D
2,6-Dinitrotoluene	ND	400	310	ug/Kg	1	04/29/21	WB	SW8270D
2-Chloronaphthalene	ND	690	280	ug/Kg	1	04/29/21	WB	SW8270D
2-Chlorophenol	ND	690	280	ug/Kg	1	04/29/21	WB	SW8270D
2-Methylnaphthalene	ND	690	290	ug/Kg	1	04/29/21	WB	SW8270D
2-Methylphenol (o-cresol)	ND	690	470	ug/Kg	1	04/29/21	WB	SW8270D
2-Nitroaniline	ND	690	690	ug/Kg	1	04/29/21	WB	SW8270D
2-Nitrophenol	ND	690	630	ug/Kg	1	04/29/21	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	690	390	ug/Kg	1	04/29/21	WB	SW8270D
3,3'-Dichlorobenzidine	ND	400	400	ug/Kg	1	04/29/21	WB	SW8270D

Project ID: NYSDOT HARRISON LANDFILL
Client ID: SD-4 4/28/21

Phoenix I.D.: CI17301

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
3-Nitroaniline	ND	2000	690	ug/Kg	1	04/29/21	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	690	690	ug/Kg	1	04/29/21	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	690	290	ug/Kg	1	04/29/21	WB	SW8270D	
4-Chloro-3-methylphenol	ND	690	350	ug/Kg	1	04/29/21	WB	SW8270D	
4-Chloroaniline	ND	2000	460	ug/Kg	1	04/29/21	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	690	330	ug/Kg	1	04/29/21	WB	SW8270D	
4-Nitroaniline	ND	4900	330	ug/Kg	1	04/29/21	WB	SW8270D	
4-Nitrophenol	ND	690	450	ug/Kg	1	04/29/21	WB	SW8270D	
Acenaphthene	ND	690	300	ug/Kg	1	04/29/21	WB	SW8270D	
Acenaphthylene	ND	400	280	ug/Kg	1	04/29/21	WB	SW8270D	
Acetophenone	ND	690	310	ug/Kg	1	04/29/21	WB	SW8270D	
Anthracene	ND	690	320	ug/Kg	1	04/29/21	WB	SW8270D	
Atrazine	ND	690	260	ug/Kg	1	04/29/21	WB	SW8270D	
Benz(a)anthracene	ND	690	330	ug/Kg	1	04/29/21	WB	SW8270D	
Benzaldehyde	ND	690	290	ug/Kg	1	04/29/21	WB	SW8270D	
Benzo(a)pyrene	ND	400	320	ug/Kg	1	04/29/21	WB	SW8270D	
Benzo(b)fluoranthene	ND	690	340	ug/Kg	1	04/29/21	WB	SW8270D	
Benzo(ghi)perylene	ND	690	320	ug/Kg	1	04/29/21	WB	SW8270D	
Benzo(k)fluoranthene	ND	690	330	ug/Kg	1	04/29/21	WB	SW8270D	
Benzyl butyl phthalate	ND	690	260	ug/Kg	1	04/29/21	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	690	270	ug/Kg	1	04/29/21	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	400	270	ug/Kg	1	04/29/21	WB	SW8270D	
Bis(2-chloroisopropyl)ether	ND	690	280	ug/Kg	1	04/29/21	WB	SW8270D	1
Bis(2-ethylhexyl)phthalate	ND	690	290	ug/Kg	1	04/29/21	WB	SW8270D	
Caprolactam	ND	690	690	ug/Kg	1	04/29/21	WB	SW8270D	
Carbazole	ND	690	490	ug/Kg	1	04/29/21	WB	SW8270D	
Chrysene	ND	690	330	ug/Kg	1	04/29/21	WB	SW8270D	
Dibenz(a,h)anthracene	ND	400	320	ug/Kg	1	04/29/21	WB	SW8270D	
Dibenzofuran	ND	690	290	ug/Kg	1	04/29/21	WB	SW8270D	
Diethyl phthalate	ND	690	310	ug/Kg	1	04/29/21	WB	SW8270D	
Dimethylphthalate	ND	690	310	ug/Kg	1	04/29/21	WB	SW8270D	
Di-n-butylphthalate	ND	690	260	ug/Kg	1	04/29/21	WB	SW8270D	
Di-n-octylphthalate	ND	690	260	ug/Kg	1	04/29/21	WB	SW8270D	
Fluoranthene	ND	690	320	ug/Kg	1	04/29/21	WB	SW8270D	
Fluorene	ND	690	330	ug/Kg	1	04/29/21	WB	SW8270D	
Hexachlorobenzene	ND	400	290	ug/Kg	1	04/29/21	WB	SW8270D	
Hexachlorobutadiene	ND	690	360	ug/Kg	1	04/29/21	WB	SW8270D	
Hexachlorocyclopentadiene	ND	690	300	ug/Kg	1	04/29/21	WB	SW8270D	
Hexachloroethane	ND	400	300	ug/Kg	1	04/29/21	WB	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	690	330	ug/Kg	1	04/29/21	WB	SW8270D	
Isophorone	ND	400	280	ug/Kg	1	04/29/21	WB	SW8270D	
Naphthalene	ND	690	290	ug/Kg	1	04/29/21	WB	SW8270D	
Nitrobenzene	ND	400	350	ug/Kg	1	04/29/21	WB	SW8270D	
N-Nitrosodimethylamine	ND	690	280	ug/Kg	1	04/29/21	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	400	320	ug/Kg	1	04/29/21	WB	SW8270D	
N-Nitrosodiphenylamine	ND	400	380	ug/Kg	1	04/29/21	WB	SW8270D	
Pentachlorophenol	ND	690	370	ug/Kg	1	04/29/21	WB	SW8270D	
Phenanthrene	ND	400	280	ug/Kg	1	04/29/21	WB	SW8270D	
Phenol	ND	690	320	ug/Kg	1	04/29/21	WB	SW8270D	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Pyrene	ND	690	340	ug/Kg	1	04/29/21	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	110			%	1	04/29/21	WB	30 - 130 %
% 2-Fluorobiphenyl	78			%	1	04/29/21	WB	30 - 130 %
% 2-Fluorophenol	55			%	1	04/29/21	WB	30 - 130 %
% Nitrobenzene-d5	78			%	1	04/29/21	WB	30 - 130 %
% Phenol-d5	69			%	1	04/29/21	WB	30 - 130 %
% Terphenyl-d14	71			%	1	04/29/21	WB	30 - 130 %
SVOA Library Search Top 15	Completed					04/29/21	MR	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 25, 2021
Reviewed and Released by: Maryam Taylor, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 25, 2021

FOR: Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	MC	04/27/21	
Location Code:	CASHIN-NYDOT	Received by:	CP	04/28/21	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	D037853.01				

Laboratory Data

SDG ID: GCI17289
Phoenix ID: CI17302

Project ID: NYSDOT HARRISON LANDFILL
Client ID: GW-DUP 4/27/21

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND		0.005	0.002	mg/L	1	04/29/21	TH	SW6010D	
Aluminum	3.66	N	0.020	0.0024	mg/L	1	05/03/21	TH	SW6010D	
Arsenic - LDL	0.002	J	0.004	0.001	mg/L	1	04/29/21	TH	SW6010D	
Barium	0.188		0.010	0.001	mg/L	1	04/29/21	TH	SW6010D	
Beryllium	ND		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Calcium	82.8		0.010	0.003	mg/L	1	04/29/21	EK	SW6010D	B
Cadmium	0.001	J	0.004	0.0005	mg/L	1	04/29/21	EK	SW6010D	
Cobalt	0.008		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Chromium	0.008		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Copper	0.006		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Silver (Dissolved)	ND		0.005	0.002	mg/L	1	04/30/21	CPP	SW6010D	
Aluminum (Dissolved)	0.017		0.011	0.0026	mg/L	1	04/30/21	CPP	SW6010D	
Arsenic, (Dissolved)	ND		0.003	0.001	mg/L	1	04/30/21	TH	SW6010D	
Barium (Dissolved)	0.086		0.011	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Beryllium (Dissolved)	ND		0.001	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Calcium (Dissolved)	76.0		0.01	0.003	mg/L	1	04/30/21	CPP	SW6010D	
Cadmium (Dissolved)	ND		0.004	0.0005	mg/L	1	04/30/21	CPP	SW6010D	
Cobalt, (Dissolved)	0.004	J	0.005	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Chromium (Dissolved)	ND		0.001	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Copper, (Dissolved)	ND		0.005	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Iron, (Dissolved)	28.0		0.01	0.01	mg/L	1	04/30/21	CPP	SW6010D	
Mercury (Dissolved)	ND		0.0002	0.00015	mg/L	1	05/03/21	MGH	SW7470A	
Potassium (Dissolved)	3.4		0.1	0.1	mg/L	1	04/30/21	CPP	SW6010D	
Magnesium (Dissolved)	16.9		0.01	0.01	mg/L	1	04/30/21	CPP	SW6010D	
Manganese, (Dissolved)	13.0		0.053	0.011	mg/L	10	05/02/21	TH	SW6010D	
Sodium (Dissolved)	31.4		0.11	0.1	mg/L	1	04/30/21	CPP	SW6010D	
Nickel, (Dissolved)	ND		0.004	0.001	mg/L	1	04/30/21	CPP	SW6010D	
Lead (Dissolved)	0.003		0.002	0.001	mg/L	1	04/30/21	CPP	SW6010D	

Ver 2

Project ID: NYSDOT HARRISON LANDFILL
Client ID: GW-DUP 4/27/21

Phoenix I.D.: CI17302

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Antimony (Dissolved)-LDL	ND	0.0010	0.0010	mg/L	2	05/08/21	CPP	SW6020B
Selenium (Dissolved)-LDL	0.000 J	0.002	0.0002	mg/L	2	05/08/21	CPP	SW6020B
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	05/08/21	CPP	SW6020B
Vanadium, (Dissolved)	ND	0.011	0.001	mg/L	1	04/30/21	CPP	SW6010D
Zinc, (Dissolved)	0.004 J	0.011	0.002	mg/L	1	04/30/21	CPP	SW6010D
Iron	88.6	0.01	0.01	mg/L	1	04/29/21	TH	SW6010D
Mercury	ND	0.0002	0.00015	mg/L	1	04/29/21	MGH	SW7470A
Potassium	4.1	0.1	0.1	mg/L	1	04/29/21	TH	SW6010D
Magnesium	20.2	0.010	0.01	mg/L	1	04/29/21	TH	SW6010D
Manganese	12.5	0.050	0.010	mg/L	10	05/03/21	TH	SW6010D
Sodium	33.2	0.10	0.1	mg/L	1	04/29/21	TH	SW6010D
Nickel	0.007	0.004	0.001	mg/L	1	05/03/21	EK	SW6010D
Lead	0.008	0.002	0.001	mg/L	1	04/29/21	TH	SW6010D
Antimony	ND	0.0030	0.0005	mg/L	5	05/05/21	CPP	SW6020B
Selenium	0.001 J	0.010	0.0005	mg/L	5	05/05/21	CPP	SW6020B
Thallium	ND	0.0005	0.0005	mg/L	5	05/06/21	CPP	SW6020B
Vanadium	0.008 J	0.010	0.001	mg/L	1	04/29/21	TH	SW6010D
Zinc	0.025	0.010	0.002	mg/L	1	04/29/21	TH	SW6010D
Chloride	19.1	3.0	0.01	mg/L	1	04/29/21	TB	SM4500CLE-11
Total Cyanide	ND	0.010	0.005	mg/L	1	05/04/21	O/GD	SW9010C/SW9012B
Filtration	Completed					04/29/21	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					04/30/21	AT/AT	SW7470A
Mercury Digestion	Completed					04/29/21	W/W	SW7470A
Semi-Volatile Extraction	Completed					04/29/21	A/CG	SW3520C
Dissolved Metals Preparation	Completed					04/29/21	AG	SW3005A
Dissolved Metals Preparation	Completed					04/29/21	AG	SW3005A
Total Metals Digestion	Completed					04/28/21		
Total Metals Digestion MS	Completed					04/28/21		
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	04/29/21	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	04/29/21	MH	SW8260C
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	04/29/21	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloroform	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	04/29/21	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	04/29/21	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	04/29/21	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	04/29/21	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Total Xylenes	ND	1.0	1.0	ug/L	1	04/29/21	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	04/29/21	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	04/29/21	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	103			%	1	04/29/21	MH	70 - 130 %
% Bromofluorobenzene	91			%	1	04/29/21	MH	70 - 130 %
% Dibromofluoromethane	97			%	1	04/29/21	MH	70 - 130 %
% Toluene-d8	99			%	1	04/29/21	MH	70 - 130 %
Volatile Library Search Top 10	Completed					04/29/21	MH	

Semivolatiles

1,1-Biphenyl	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D

Project ID: NYSDOT HARRISON LANDFILL
Client ID: GW-DUP 4/27/21

Phoenix I.D.: CI17302

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,4-Dichlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2,4-Dimethylphenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2,4-Dinitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	05/04/21	WB	SW8270D	
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
2-Chlorophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
2-Nitroaniline	ND	4.7	4.7	ug/L	1	05/04/21	WB	SW8270D	
2-Nitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D	
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D	
3-Nitroaniline	ND	4.7	10	ug/L	1	05/04/21	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	05/04/21	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
4-Chloro-3-methylphenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
4-Chloroaniline	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D	
4-Nitroaniline	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D	
4-Nitrophenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
Acenaphthene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Acetophenone	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Atrazine	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Benzaldehyde	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Bis(2-chloroisopropyl)ether	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	1
Bis(2-ethylhexyl)phthalate	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Caprolactam	ND	4.7	8.4	ug/L	1	05/04/21	WB	SW8270D	
Carbazole	ND	4.7	3.6	ug/L	1	05/04/21	WB	SW8270D	
Dibenzofuran	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Diethyl phthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Dimethylphthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D	
Hexachlorocyclopentadiene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
Hexachloroethane	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D	
Isophorone	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D	
Naphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D	
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	05/04/21	WB	SW8270D	
Phenol	ND	1.0	0.85	ug/L	1	05/04/21	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	87			%	1	05/04/21	WB	15 - 110 %	
% 2-Fluorobiphenyl	81			%	1	05/04/21	WB	30 - 130 %	
% 2-Fluorophenol	62			%	1	05/04/21	WB	15 - 110 %	
% Nitrobenzene-d5	74			%	1	05/04/21	WB	30 - 130 %	
% Phenol-d5	69			%	1	05/04/21	WB	15 - 110 %	

Ver 2

Project ID: NYSDOT HARRISON LANDFILL
Client ID: GW-DUP 4/27/21

Phoenix I.D.: CI17302

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	66			%	1	05/04/21	WB	30 - 130 %
Semivolatiles								
Acenaphthylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Bis(2-chloroethyl)ether	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluorene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	05/03/21	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.19	0.19	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pyrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	95			%	1	05/03/21	WB	15 - 110 %
% 2-Fluorobiphenyl	75			%	1	05/03/21	WB	30 - 130 %
% 2-Fluorophenol	62			%	1	05/03/21	WB	15 - 110 %
% Nitrobenzene-d5	66			%	1	05/03/21	WB	30 - 130 %
% Phenol-d5	66			%	1	05/03/21	WB	15 - 110 %
% Terphenyl-d14	67			%	1	05/03/21	WB	30 - 130 %
SVOA Library Search Top 15	Completed					05/04/21	MR	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

June 25, 2021

Reviewed and Released by: Maryam Taylor, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 25, 2021

FOR: Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	LIQUID	Collected by:	MC	04/28/21	12:07
Location Code:	CASHIN-NYDOT	Received by:	CP	04/28/21	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	D037853.01				

Laboratory Data

SDG ID: GCI17289
Phoenix ID: CI17303

Project ID: NYSDOT HARRISON LANDFILL
Client ID: FIELD BLANK 4/28/21

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND		0.005	0.002	mg/L	1	04/29/21	TH	SW6010D	
Aluminum	0.010	J, N	0.020	0.0024	mg/L	1	05/03/21	TH	SW6010D	
Arsenic - LDL	ND		0.004	0.001	mg/L	1	04/29/21	TH	SW6010D	
Barium	ND		0.010	0.001	mg/L	1	04/29/21	TH	SW6010D	
Beryllium	ND		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Calcium	0.318		0.010	0.003	mg/L	1	04/29/21	EK	SW6010D	B
Cadmium	ND		0.004	0.0005	mg/L	1	04/29/21	EK	SW6010D	
Cobalt	ND		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Chromium	ND		0.001	0.001	mg/L	1	04/29/21	TH	SW6010D	
Copper	ND		0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Iron	0.04		0.01	0.01	mg/L	1	04/29/21	TH	SW6010D	
Mercury	ND		0.0002	0.00015	mg/L	1	04/29/21	MGH	SW7470A	
Potassium	ND		0.1	0.1	mg/L	1	04/29/21	TH	SW6010D	
Magnesium	0.044		0.010	0.01	mg/L	1	04/29/21	TH	SW6010D	
Manganese	0.005	J	0.005	0.001	mg/L	1	04/29/21	TH	SW6010D	
Sodium	ND		0.10	0.1	mg/L	1	04/29/21	TH	SW6010D	
Nickel	ND		0.004	0.001	mg/L	1	04/29/21	TH	SW6010D	
Lead	ND		0.002	0.001	mg/L	1	04/29/21	TH	SW6010D	
Antimony	ND		0.002	0.002	mg/L	1	05/03/21	TH	SW7010	
Selenium	ND		0.002	0.001	mg/L	1	05/03/21	CPP	SW7010	
Thallium - LDL	ND		0.001	0.001	mg/L	1	05/04/21	TH	SW7010	
Vanadium	0.003	J	0.010	0.001	mg/L	1	04/29/21	TH	SW6010D	
Zinc	ND		0.010	0.002	mg/L	1	04/29/21	TH	SW6010D	
Chloride	1.7	J	3.0	0.01	mg/L	1	04/29/21	TB	SM4500CLE-11	
Total Cyanide	ND		0.010	0.005	mg/L	1	05/04/21	O/GD	SW9010C/SW9012B	
Mercury Digestion	Completed						04/29/21	W/W	SW7470A	
Semi-Volatile Extraction	Completed						04/29/21	A/CG	SW3520C	

Ver 2

Project ID: NYSDOT HARRISON LANDFILL
Client ID: FIELD BLANK 4/28/21

Phoenix I.D.: CI17303

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digestion	Completed					04/28/21		
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	04/28/21	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,1,2-Trichloroethane	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	04/28/21	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,2-Dichloroethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	04/28/21	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	04/28/21	MH	SW8260C
Acetone	ND	5.0	2.5	ug/L	1	04/28/21	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	04/28/21	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Chloroform	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/28/21	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	04/28/21	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	04/28/21	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	04/28/21	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	04/28/21	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	04/28/21	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C

Project ID: NYSDOT HARRISON LANDFILL
Client ID: FIELD BLANK 4/28/21

Phoenix I.D.: CI17303

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Toluene	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Total Xylenes	ND	1.0	1.0	ug/L	1	04/28/21	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/28/21	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	99			%	1	04/28/21	MH	70 - 130 %
% Bromofluorobenzene	92			%	1	04/28/21	MH	70 - 130 %
% Dibromofluoromethane	95			%	1	04/28/21	MH	70 - 130 %
% Toluene-d8	97			%	1	04/28/21	MH	70 - 130 %
Volatile Library Search Top 10	Completed					04/29/21	MH	

Semivolatiles

1,1-Biphenyl	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	3.3	3.3	ug/L	1	05/04/21	WB	SW8270D
2,3,4,6-tetrachlorophenol	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dichlorophenol	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dimethylphenol	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dinitrophenol	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	05/04/21	WB	SW8270D
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D
2-Chlorophenol	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
2-Methylphenol (o-cresol)	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
2-Nitroaniline	ND	4.7	4.7	ug/L	1	05/04/21	WB	SW8270D
2-Nitrophenol	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D
3-Nitroaniline	ND	4.7	10	ug/L	1	05/04/21	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	4.7	5.1	ug/L	1	05/04/21	WB	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
4-Chloro-3-methylphenol	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
4-Chloroaniline	ND	4.7	2.2	ug/L	1	05/04/21	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D
4-Nitroaniline	ND	4.7	1.6	ug/L	1	05/04/21	WB	SW8270D
4-Nitrophenol	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
Acenaphthene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
Acetophenone	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D
Atrazine	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D
Benzaldehyde	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D

1

Ver 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bis(2-ethylhexyl)phthalate	22	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D
Caprolactam	ND	4.7	8.4	ug/L	1	05/04/21	WB	SW8270D
Carbazole	ND	4.7	3.6	ug/L	1	05/04/21	WB	SW8270D
Dibenzofuran	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
Diethyl phthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D
Dimethylphthalate	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	05/04/21	WB	SW8270D
Hexachlorocyclopentadiene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
Hexachloroethane	ND	0.94	0.94	ug/L	1	05/04/21	WB	SW8270D
Isophorone	ND	4.7	1.3	ug/L	1	05/04/21	WB	SW8270D
Naphthalene	ND	4.7	1.4	ug/L	1	05/04/21	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	05/04/21	WB	SW8270D
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	05/04/21	WB	SW8270D
Phenol	ND	4.7	0.85	ug/L	1	05/04/21	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	83			%	1	05/04/21	WB	15 - 110 %
% 2-Fluorobiphenyl	72			%	1	05/04/21	WB	30 - 130 %
% 2-Fluorophenol	58			%	1	05/04/21	WB	15 - 110 %
% Nitrobenzene-d5	72			%	1	05/04/21	WB	30 - 130 %
% Phenol-d5	64			%	1	05/04/21	WB	15 - 110 %
% Terphenyl-d14	80			%	1	05/04/21	WB	30 - 130 %

Semivolatiles

Acenaphthylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Bis(2-chloroethyl)ether	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Fluorene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	05/03/21	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	05/03/21	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.19	0.19	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
Pyrene	ND	0.47	0.47	ug/L	1	05/03/21	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	87			%	1	05/03/21	WB	15 - 110 %
% 2-Fluorobiphenyl	68			%	1	05/03/21	WB	30 - 130 %
% 2-Fluorophenol	65			%	1	05/03/21	WB	15 - 110 %
% Nitrobenzene-d5	64			%	1	05/03/21	WB	30 - 130 %

Project ID: NYSDOT HARRISON LANDFILL
Client ID: FIELD BLANK 4/28/21

Phoenix I.D.: CI17303

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Phenol-d5	62			%	1	05/03/21	WB	15 - 110 %
% Terphenyl-d14	78			%	1	05/03/21	WB	30 - 130 %
SVOA Library Search Top 15	Completed					05/04/21	MR	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 25, 2021
Reviewed and Released by: Maryam Taylor, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 25, 2021

FOR: Attn: Marc Califano
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	LIQUID	Collected by:	MC	04/27/21	
Location Code:	CASHIN-NYDOT	Received by:	CP	04/28/21	15:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	D037853.01				

Laboratory Data

SDG ID: GCI17289
Phoenix ID: CI17304

Project ID: NYSDOT HARRISON LANDFILL
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	04/28/21	MH	SW8260C
Volatiles								
1,1,1-Trichloroethane	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,1,2-Trichloroethane	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,1-Dichloroethane	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	04/28/21	MH	SW8260C
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,2-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,2-Dichloroethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,3-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
1,4-Dichlorobenzene	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
2-Hexanone	ND	2.5	2.5	ug/L	1	04/28/21	MH	SW8260C
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	04/28/21	MH	SW8260C
Acetone	ND	5.0	2.5	ug/L	1	04/28/21	MH	SW8260C
Benzene	ND	0.70	0.25	ug/L	1	04/28/21	MH	SW8260C
Bromochloromethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Bromodichloromethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Bromoform	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Bromomethane	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Carbon Disulfide	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C

Project ID: NYSDOT HARRISON LANDFILL
Client ID: TRIP BLANK

Phoenix I.D.: CI17304

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Chlorobenzene	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Chloroethane	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Chloroform	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Chloromethane	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/28/21	MH	SW8260C
Cyclohexane	ND	5.0	0.50	ug/L	1	04/28/21	MH	SW8260C
Dibromochloromethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Ethylbenzene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Isopropylbenzene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
m&p-Xylene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	04/28/21	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Methylacetate	ND	2.5	2.5	ug/L	1	04/28/21	MH	SW8260C
Methylcyclohexane	ND	2.0	0.50	ug/L	1	04/28/21	MH	SW8260C
Methylene chloride	ND	3.0	1.0	ug/L	1	04/28/21	MH	SW8260C
o-Xylene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Styrene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Tetrachloroethene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Toluene	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Total Xylenes	ND	1.0	1.0	ug/L	1	04/28/21	MH	SW8260C
trans-1,2-Dichloroethene	ND	2.0	0.25	ug/L	1	04/28/21	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	04/28/21	MH	SW8260C
Trichloroethene	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
Vinyl chloride	ND	1.0	0.25	ug/L	1	04/28/21	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	100			%	1	04/28/21	MH	70 - 130 %
% Bromofluorobenzene	91			%	1	04/28/21	MH	70 - 130 %
% Dibromofluoromethane	94			%	1	04/28/21	MH	70 - 130 %
% Toluene-d8	97			%	1	04/28/21	MH	70 - 130 %
Volatile Library Search Top 10	Completed					04/29/21	MH	

Project ID: NYSDOT HARRISON LANDFILL
Phoenix I.D.: CI17304
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director
June 25, 2021
Reviewed and Released by: Maryam Taylor, Project Manager

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

PC-1 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) GROUND WATER Lab Sample ID: CI17289

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0428_40.D

Level: (low/med) Date Received: 04/28/21

% Moisture: not dec. 100 Date Analyzed: 04/29/21

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 25000 (uL) Soil Aliquot Vol (uL): n.a.

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: PC-2 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) GROUND WATER Lab Sample ID: CI17290

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0429_15.D

Level: (low/med) Date Received: 04/28/21

% Moisture: not dec. 100 Date Analyzed: 04/29/21

GC Column: RTX-VMS ID: 0.18(mm) Dilution Factor: 1

Purge Volume: 25000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	unknown	1.138	3.9	J

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: PC-3 4/28/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) GROUND WATER Lab Sample ID: CI17291

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0428_42.D

Level: (low/med) Date Received: 04/28/21

% Moisture: not dec. 100 Date Analyzed: 04/29/21

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 25000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: LMW-2 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) GROUND WATER Lab Sample ID: CI17292

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0428_43.D

Level: (low/med) Date Received: 04/28/21

% Moisture: not dec. 100 Date Analyzed: 04/29/21

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 25000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: LMW-4 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) GROUND WATER Lab Sample ID: CI17293

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0428_44.D

Level: (low/med) Date Received: 04/28/21

% Moisture: not dec. 100 Date Analyzed: 04/29/21

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 25000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SW-1 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) SURFACE WATER Lab Sample ID: CI17294

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0428_45.D

Level: (low/med) Date Received: 04/28/21

% Moisture: not dec. 100 Date Analyzed: 04/29/21

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 25000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SW-2 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) SURFACE WATER Lab Sample ID: CI17295

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0428_46.D

Level: (low/med) Date Received: 04/28/21

% Moisture: not dec. 100 Date Analyzed: 04/29/21

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 25000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SW-3 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) SURFACE WATER Lab Sample ID: CI17296

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0428_47.D

Level: (low/med) Date Received: 04/28/21

% Moisture: not dec. 100 Date Analyzed: 04/29/21

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 25000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SW-4 4/28/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) SURFACE WATER Lab Sample ID: CI17297

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0428_48.D

Level: (low/med) Date Received: 04/28/21

% Moisture: not dec. 100 Date Analyzed: 04/29/21

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 25000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: GW-DUP 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) GROUND WATER Lab Sample ID: CI17302

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0428_49.D

Level: (low/med) Date Received: 04/28/21

% Moisture: not dec. 100 Date Analyzed: 04/29/21

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 25000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	unknown	1.298	1	J

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

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Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) LIQUID Lab Sample ID: CI17303

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0428_36.D

Level: (low/med) Date Received: 04/28/21

% Moisture: not dec. 100 Date Analyzed: 04/28/21

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 25000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: CI17304 BLK

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.:

Matrix:(soil/water) Water Lab Sample ID: CI17304 BLK

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0428_34.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. n.a. Date Analyzed: 04/28/21

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 25000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

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Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) LIQUID Lab Sample ID: CI17304

Sample wt/vol: 25 (g/mL) mL Lab File ID: 0428_35.D

Level: (low/med) Date Received: 04/28/21

% Moisture: not dec. 100 Date Analyzed: 04/28/21

GC Column: RTX-VMS ID: 0.18mm Dilution Factor: 1

Purge Volume: 25000 (uL) Soil Aliquot Vol (uL): n.a.

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

J - Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: CI17289 BLK

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.:

Matrix:(soil/water) Water Lab Sample ID: CI17289 BLK

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 0503_08.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. n.a. decanted:(Y/N) NA Date Extracted: 05/03/21

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 5/3/2021

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	unknown hydrocarbon	2.016	4.4	J
	unknown hydrocarbon	2.998	9.6	J
	unknown hydrocarbon	3.198	5.6	J
	unknown hydrocarbon	4.939	5.3	J
	unknown hydrocarbon	5.210	8.9	J

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: PC-1 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) GROUND WATER Lab Sample ID: CI17289

Sample wt/vol: 1060 (g/mL) mL Lab File ID: 0503_12.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. 100 decanted:(Y/N) NA Date Extracted: 05/03/21

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 5/3/2021

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	unknown hydrocarbon	2.999	8.8	J
	unknown hydrocarbon	3.199	4.9	J
000134-62-3	Diethyltoluamide	6.581	4.1	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: PC-2 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) GROUND WATER Lab Sample ID: CI17290

Sample wt/vol: 1065 (g/mL) mL Lab File ID: 0503_13.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. 100 decanted:(Y/N) NA Date Extracted: 05/04/21

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 5/4/2021

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	unknown hydrocarbon	2.999	5.7	J

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: PC-3 4/28/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) GROUND WATER Lab Sample ID: CI17291

Sample wt/vol: 1065 (g/mL) mL Lab File ID: 0503_14.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. 100 decanted:(Y/N) NA Date Extracted: 05/04/21

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 5/4/2021

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	unknown hydrocarbon	2.022	4.2	J
	unknown hydrocarbon	2.998	11	J
	unknown hydrocarbon	3.175	4.3	J
	unknown hydrocarbon	3.198	6.2	J
000143-07-7	Dodecanoic acid	6.398	17	JN
	unknown hydrocarbon	12.027	5.5	J

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: LMW-2 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) GROUND WATER Lab Sample ID: CI17292

Sample wt/vol: 1065 (g/mL) mL Lab File ID: 0503_15.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. 100 decanted:(Y/N) NA Date Extracted: 05/04/21

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 5/4/2021

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	unknown hydrocarbon	2.022	4.3	J
	unknown hydrocarbon	3.004	13	J
	unknown hydrocarbon	3.175	4.6	J
	unknown hydrocarbon	3.199	6.8	J
	unknown hydrocarbon	3.428	5.8	J

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: LMW-4 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) GROUND WATER Lab Sample ID: CI17293

Sample wt/vol: 1055 (g/mL) mL Lab File ID: 0503_16.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. 100 decanted:(Y/N) NA Date Extracted: 05/04/21

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 5/4/2021

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	unknown hydrocarbon	2.022	3.9	J
	unknown hydrocarbon	3.004	12	J
	unknown hydrocarbon	3.175	4.8	J
	unknown hydrocarbon	3.198	6.8	J

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SW-1 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) SURFACE WATER Lab Sample ID: CI17294

Sample wt/vol: 1065 (g/mL) mL Lab File ID: 0503_17.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. 100 decanted:(Y/N) NA Date Extracted: 05/04/21

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 5/4/2021

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.022	4.5	JNA
	unknown hydrocarbon	2.246	40	J
	unknown hydrocarbon	2.422	34	J
	unknown hydrocarbon	3.004	13	J
	unknown hydrocarbon	3.175	4	J
	unknown hydrocarbon	3.204	6.6	J
000057-10-3	n-Hexadecanoic acid	7.980	5.4	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SW-2 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) SURFACE WATER Lab Sample ID: CI17295

Sample wt/vol: 1065 (g/mL) mL Lab File ID: 0503_18.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. 100 decanted:(Y/N) NA Date Extracted: 05/04/21

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 5/4/2021

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	unknown hydrocarbon	2.999	9.6	J
	unknown hydrocarbon	3.199	5.2	J

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SW-3 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) SURFACE WATER Lab Sample ID: CI17296

Sample wt/vol: 1065 (g/mL) mL Lab File ID: 0503_19.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. 100 decanted:(Y/N) NA Date Extracted: 05/04/21

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 5/4/2021

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 11 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	unknown hydrocarbon	2.022	5.4	J
	unknown hydrocarbon	2.246	14	J
	unknown hydrocarbon	2.287	3.8	J
	unknown hydrocarbon	2.422	8.6	J
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.534	6.5	JNA
	unknown hydrocarbon	2.787	4.6	J
	unknown hydrocarbon	2.998	16	J
	unknown hydrocarbon	3.093	4.9	J
	unknown hydrocarbon	3.175	5.9	J
	unknown hydrocarbon	3.198	8.5	J
	unknown hydrocarbon	3.434	4.2	J

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SW-4 4/28/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) SURFACE WATER Lab Sample ID: CI17297

Sample wt/vol: 1065 (g/mL) mL Lab File ID: 0503_20.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. 100 decanted:(Y/N) NA Date Extracted: 05/04/21

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 5/4/2021

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	unknown hydrocarbon	2.016	6	J
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.534	4.9	JNA
	unknown hydrocarbon	2.787	4.7	J
	unknown hydrocarbon	3.005	17	J
	unknown hydrocarbon	3.093	5.1	J
	unknown hydrocarbon	3.175	6.5	J
	unknown hydrocarbon	3.199	9.7	J

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SD-1 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) SEDIMENT Lab Sample ID: CI17298

Sample wt/vol: 7.34 (g/mL) g Lab File ID: 0428_15.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. 49 decanted:(Y/N) NA Date Extracted: 04/29/21

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 4/29/2021

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 11 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.143	1500	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.813	3700	JNC
018435-45-5	1-Nonadecene	6.842	2900	JN
	unknown hydrocarbon	10.466	1300	J
	unknown hydrocarbon	11.472	1500	J
000630-06-8	Hexatriacontane	11.919	3200	JN
	unknown hydrocarbon	13.289	2800	J
1000309-12-5	Sulfurous acid, 2-propyl tetradecy	13.842	2100	JN
007390-81-0	Oxirane, hexadecyl-	15.612	3000	JN
	unknown hydrocarbon	16.848	1600	J
	unknown hydrocarbon	18.030	1200	J

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SD-2 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) SEDIMENT Lab Sample ID: CI17299

Sample wt/vol: 7.37 (g/mL) g Lab File ID: 0428_16.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. 30 decanted:(Y/N) NA Date Extracted: 04/29/21

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 4/29/2021

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.813	2700	JNC
1000130-87-5	Z-8-Hexadecene	6.842	2400	JN
001599-67-3	1-Docosene	8.236	2400	JN

FORM I SEMIVOA-TIC

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1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SD-3 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) SEDIMENT Lab Sample ID: CI17300

Sample wt/vol: 7.45 (g/mL) g Lab File ID: 0428_17.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. 57 decanted:(Y/N) NA Date Extracted: 04/29/21

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 4/29/2021

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.149	3200	JNA
	unknown hydrocarbon	3.225	1700	J
	unknown hydrocarbon	4.625	1300	J
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.813	5000	JNC
1000130-97-9	E-15-Heptadecenal	6.842	5200	JN
007206-21-5	5-Octadecene, (E)-	7.572	1300	JN
1000351-87-0	Heptadecyl trifluoroacetate	8.242	5200	JN
007098-22-8	Tetratetracontane	11.919	2100	JN
	unknown hydrocarbon	13.289	1600	J
	unknown hydrocarbon	15.612	2300	J

FORM I SEMIVOA-TIC

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1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SD-4 4/28/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) SEDIMENT Lab Sample ID: CI17301

Sample wt/vol: 7.43 (g/mL) g Lab File ID: 0428_18.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. 32 decanted:(Y/N) NA Date Extracted: 04/29/21

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 4/29/2021

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.148	1100	JNA
023676-09-7	Benzoic acid, 4-ethoxy-, ethyl est	5.813	2100	JNC
074685-29-3	9-Eicosene, (E)-	6.842	2200	JN
003452-07-1	1-Eicosene	8.242	2100	JN

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: GW-DUP 4/27/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) GROUND WATER Lab Sample ID: CI17302

Sample wt/vol: 1065 (g/mL) mL Lab File ID: 0503_21.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. 100 decanted:(Y/N) NA Date Extracted: 05/04/21

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 5/4/2021

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	unknown hydrocarbon	2.022	4.3	J
	unknown hydrocarbon	2.787	4.3	J
	unknown hydrocarbon	3.004	16	J
	unknown hydrocarbon	3.093	4.8	J
	unknown hydrocarbon	3.175	6.1	J
	unknown hydrocarbon	3.198	9	J

FORM I SEMIVOA-TIC

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

C - Indicates that the tentatively identified compound is a suspected prep artifact produced during extraction process.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: FIELD BLANK 4/28/21

Lab Name: Phoenix Environmental Labs Client: CASHIN-NYDOT

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI17289

Matrix:(soil/water) LIQUID Lab Sample ID: CI17303

Sample wt/vol: 1065 (g/mL) mL Lab File ID: 0503_22.D

Level: (low/med) Low Date Received: 04/28/21

% Moisture: not dec. 100 decanted:(Y/N) NA Date Extracted: 05/04/21

GPC Cleanup (Y/N): N pH: NA Date Analyzed: 5/4/2021

Conc. Extract Volume: 1000 (uL) Dilution Factor 1

Injection Volume: 1 (uL)

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	unknown hydrocarbon	2.022	4.6	J
004914-92-5	2-Pentene, 3,4-dimethyl-, (E)-	2.287	4.3	JN
	unknown hydrocarbon	3.004	13	J
	unknown hydrocarbon	3.198	5.9	J
000111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	3.510	6	JN

FORM I SEMIVOA-TIC

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PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

June 25, 2021

QA/QC Data

SDG I.D.: GCI17289

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 573221 (mg/L), QC Sample No: CI17303 (CI17303)														
Antimony - Water	BRL	0.003	<0.002	<0.003	NC	111			110			75 - 125	20	
QA/QC Batch 573221 (mg/L), QC Sample No: CI17303 (CI17303)														
Selenium - Water	BRL	0.005	<0.002	<0.005	NC	115			117			75 - 125	20	
QA/QC Batch 573221 (mg/L), QC Sample No: CI17303 (CI17303)														
Thallium - Water	BRL	0.001	<0.001	<0.001	NC	111			110			75 - 125	20	
QA/QC Batch 573138 (mg/kg), QC Sample No: CI16495 2X (CI17298, CI17299, CI17300, CI17301)														
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	104	106	1.9	111	110	0.9	75 - 125	30	
QA/QC Batch 573344 (mg/L), QC Sample No: CI17291 (CI17289, CI17290, CI17291, CI17292, CI17293, CI17302)														
Mercury (Dissolved)	BRL	0.0002	<0.0002	<0.0002	NC	98.8			93.1			75 - 125	20	
QA/QC Batch 573150 (mg/L), QC Sample No: CI17665 (CI17289, CI17290, CI17291, CI17292, CI17293, CI17294, CI17295, CI17296, CI17297, CI17302, CI17303)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	108			108			75 - 125	20	
QA/QC Batch 573259 (mg/L), QC Sample No: CI17292 (CI17289, CI17290, CI17291, CI17292, CI17293, CI17302)														
ICP Metals - Dissolved														
Aluminum	BRL	0.011	0.021	0.021	NC	75.9	77.3	1.8	79.2			80 - 120	20	I
Arsenic	BRL	0.004	<0.003	0.001	NC	80.7	77.0	4.7	80.5			80 - 120	20	I
Barium	BRL	0.002	0.106	0.105	0.90	78.4	80.2	2.3	83.0			80 - 120	20	I
Beryllium	BRL	0.001	<0.001	<0.001	NC	79.9	82.5	3.2	84.7			80 - 120	20	
Cadmium	BRL	0.001	<0.004	<0.001	NC	79.6	81.9	2.8	82.2			80 - 120	20	
Calcium	BRL	0.01	73.8	75.2	1.90	79.9	82.2	2.8	NC			80 - 120	20	
Chromium	BRL	0.001	<0.001	<0.001	NC	80.6	83.8	3.9	83.7			80 - 120	20	
Cobalt	BRL	0.001	<0.005	<0.001	NC	78.4	80.5	2.6	81.5			80 - 120	20	I
Copper	BRL	0.005	0.003 J	0.003	NC	77.8	78.7	1.2	81.6			80 - 120	20	I
Iron	BRL	0.011	<0.01	<0.011	NC	79.2	81.7	3.1	82.2			80 - 120	20	I
Lead	BRL	0.002	0.001 J	<0.002	NC	77.6	80.9	4.2	80.9			80 - 120	20	I
Magnesium	BRL	0.01	24.9	24.8	0.40	79.8	82.0	2.7	NC			80 - 120	20	
Manganese	BRL	0.001	0.103	0.102	1.00	80.0	82.6	3.2	83.8			80 - 120	20	
Nickel	BRL	0.001	0.003 J	0.004	NC	77.8	80.1	2.9	80.5			80 - 120	20	I
Potassium	BRL	0.1	3.5	3.4	2.90	79.8	82.6	3.4	80.7			80 - 120	20	
Silver	BRL	0.001	<0.005	<0.001	NC	76.3	78.0	2.2	81.2			70 - 130	30	
Sodium	BRL	0.11	22.1	21.8	1.40	82.8	85.3	3.0	NC			80 - 120	20	
Vanadium	BRL	0.002	<0.011	<0.002	NC	77.0	79.6	3.3	81.0			80 - 120	20	I
Zinc	BRL	0.002	0.002 J	0.002	NC	75.8	78.2	3.1	79.7			80 - 120	20	I
QA/QC Batch 573046 (mg/kg), QC Sample No: CI17298 (CI17298, CI17299, CI17300, CI17301)														
ICP Metals - Soil														
Aluminum	BRL	5.0	6880	5810	16.9	91.7	85.8	6.6	NC			80 - 120	30	
Antimony	BRL	3.3	<6.1	<6.4	NC	99.5	93.2	6.5	96.4			70 - 130	30	
Arsenic	BRL	0.67	2.4	2.0	NC	109	102	6.6	95.6			80 - 120	30	
Barium	BRL	0.33	190	176	7.70	106	99.3	6.5	110			80 - 120	30	
Beryllium	BRL	0.27	<0.49	<0.51	NC	102	96.5	5.5	97.6			80 - 120	30	

QA/QC Data

SDG I.D.: GCI17289

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Cadmium	BRL	0.33	0.93	0.92	NC	102	97.1	4.9	97.9			80 - 120	30	
Calcium	BRL	5.0	3590	3530	1.70	105	96.4	8.5	NC			80 - 120	30	
Chromium	BRL	0.33	14.0	12.6	10.5	107	101	5.8	98.3			80 - 120	30	
Cobalt	BRL	0.33	10.3	8.61	17.9	101	96.3	4.8	95.9			80 - 120	30	
Copper	BRL	0.67	12.0	11.3	6.00	101	95.2	5.9	95.3			80 - 120	30	
Iron	BRL	6.1	25700	23900	7.30	111	101	9.4	NC			80 - 120	30	
Lead	BRL	0.33	13.4	13.8	2.90	110	102	7.5	100			80 - 120	30	
Magnesium	BRL	5.0	2470	2120	15.3	113	107	5.5	NC			80 - 120	30	
Manganese	BRL	0.33	9180	7090	25.7	102	98.0	4.0	NC			80 - 120	30	
Nickel	BRL	0.33	12.5	11.6	7.50	106	106	0.0	97.8			80 - 120	30	
Potassium	BRL	5.0	1830 N	1390	27.3	111	107	3.7	>130			80 - 120	30	m
Selenium	BRL	1.3	<2.5	<2.5	NC	103	98.2	4.8	93.2			80 - 120	30	
Silver	BRL	0.33	<0.61	<0.64	NC	104	98.0	5.9	95.6			70 - 130	30	
Sodium	BRL	5.0	119 N	124	4.10	91.5	86.1	6.1	>130			80 - 120	30	m
Thallium	BRL	3.0	<3.0	<5.7	NC	105	99.1	5.8	94.1			80 - 120	30	
Vanadium	BRL	0.33	22.1	20.4	8.00	117	109	7.1	99.2			80 - 120	30	
Zinc	BRL	0.67	55.8	53.4	4.40	104	99.1	4.8	105			80 - 120	30	

QA/QC Batch 573085 (mg/L), QC Sample No: CI17363 (CI17289, CI17290, CI17291, CI17292, CI17293, CI17294, CI17295, CI17296, CI17297, CI17302, CI17303)

ICP Metals - Aqueous

Aluminum	BRL	0.020	1.31	1.33	1.50	93.1	92.1	1.1	>130			80 - 120	20	m
Arsenic	BRL	0.004	<0.004	<0.004	NC	104	103	1.0	102			80 - 120	20	
Barium	BRL	0.002	0.069	0.068	1.50	105	104	1.0	102			80 - 120	20	
Beryllium	BRL	0.001	<0.001	<0.001	NC	102	101	1.0	99.7			80 - 120	20	
Cadmium	BRL	0.001	<0.001	<0.001	NC	108	108	0.0	104			80 - 120	20	
Calcium	0.011	0.010	25.8	25.8	0	103	102	1.0	NC			80 - 120	20	
Chromium	BRL	0.001	0.009	0.009	0	108	107	0.9	104			80 - 120	20	
Cobalt	BRL	0.002	<0.002	<0.002	NC	105	104	1.0	101			80 - 120	20	
Copper	BRL	0.005	0.008	<0.005	NC	96.1	94.6	1.6	94.8			80 - 120	20	
Iron	BRL	0.010	1.78	1.80	1.10	104	103	1.0	112			80 - 120	20	
Lead	BRL	0.002	0.020	0.019	5.10	104	103	1.0	101			80 - 120	20	
Magnesium	BRL	0.010	2.86	2.88	0.70	102	102	0.0	97.8			80 - 120	20	
Manganese	BRL	0.001	0.041	0.042	2.40	104	104	0.0	101			80 - 120	20	
Nickel	BRL	0.001	0.007	0.007	0	104	103	1.0	95.5			80 - 120	20	
Potassium	BRL	0.1	6.8	6.9	1.50	94.9	94.3	0.6	102			80 - 120	20	
Silver	BRL	0.001	<0.001	<0.001	NC	96.2	95.3	0.9	95.0			70 - 130	30	
Sodium	BRL	0.10	41.7	41.6	0.20	93.5	92.9	0.6	NC			80 - 120	20	
Vanadium	BRL	0.002	0.002	0.003	NC	98.3	96.5	1.8	95.9			80 - 120	20	
Zinc	BRL	0.004	0.019	0.017	NC	101	99.7	1.3	98.4			80 - 120	20	

QA/QC Batch 573258 (mg/L), QC Sample No: CI17289 2X (CI17289, CI17290, CI17291, CI17292, CI17293, CI17302)

ICP Metals MS - Dissolved

Antimony	BRL	0.0003	<0.0030	0.0022	NC	82.5	79.7	3.5	81.4			80 - 120	20	
Selenium	BRL	0.002	<0.002	<0.002	NC	78.5	81.4	3.6	77.9			80 - 120	20	I
Thallium	BRL	0.0005	<0.0005	<0.0005	NC	80.5	80.8	0.4	76.1			80 - 120	20	

QA/QC Batch 573084 (mg/L), QC Sample No: CI17684 5X (CI17289, CI17290, CI17291, CI17292, CI17293, CI17294, CI17295, CI17296, CI17297, CI17302)

ICP MS Metals - Aqueous

Antimony	BRL	0.0030	<0.0030	<0.0030	NC	108	107	0.9	98.8			80 - 120	20	
Selenium	BRL	0.010	<0.010	<0.010	NC	119	117	1.7	110			80 - 120	20	
Thallium	BRL	0.0005	<0.0005	<0.0005	NC	110	106	3.7	104			80 - 120	20	

QA/QC Data

SDG I.D.: GCI17289

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

June 25, 2021

QA/QC Data

SDG I.D.: GCI17289

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 573039 (mg/L), QC Sample No: CI16854 (CI17289, CI17290, CI17291, CI17292, CI17293, CI17294)														
Total Cyanide	BRL	0.010	0.112	0.119	6.10	100			126			90 - 110	20	m
Comment:														
The cyanide blank spike recovery was 102 %.														
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils														
QA/QC Batch 573646 (mg/L), QC Sample No: CI17295 (CI17295, CI17296, CI17297, CI17302, CI17303)														
Total Cyanide	BRL	0.010	<0.010	<0.010	NC	97.1			108			90 - 110	20	
Comment:														
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils														
QA/QC Batch 573235 (mg/Kg), QC Sample No: CI17301 50X (CI17298, CI17299, CI17300, CI17301)														
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.74	<0.74	NC	89.8			108			80 - 120	30	
Comment:														
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils														
QA/QC Batch 573758 (mg/L), QC Sample No: CI17554 (CI17298, CI17299, CI17300, CI17301)														
Chloride	BRL	5.0	63.4	63.3	0.20	96.3			98.9			90 - 110	20	
QA/QC Batch 573264 (mg/L), QC Sample No: CI16840 (CI17289, CI17290, CI17291, CI17292, CI17293, CI17294, CI17295, CI17296, CI17297, CI17302)														
Chloride	BRL	3.0	6.7	6.5	NC	99.4			104			90 - 110	20	
QA/QC Batch 573265 (mg/L), QC Sample No: CI17319 (CI17303)														
Chloride	BRL	3.0	48.2	48.5	0.60	101			109			90 - 110	20	

m = This parameter is outside laboratory MS/MSD specified recovery limits.

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NY # 11301

QA/QC Report

June 25, 2021

QA/QC Data

SDG I.D.: GCI17289

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 573225 (ug/L), QC Sample No: CI17289 (CI17289, CI17290, CI17291, CI17292, CI17293, CI17294, CI17295, CI17296, CI17297, CI17302, CI17303)										
Semivolatiles - Ground Water, Surface Water, Liquid										
1,1-Biphenyl	ND	3.5	66	73	10.1				30 - 130	20
1,2,4,5-Tetrachlorobenzene	ND	3.5	60	71	16.8				30 - 130	20
2,3,4,6-tetrachlorophenol	ND	3.5	85	93	9.0				30 - 130	20
2,4,5-Trichlorophenol	ND	1.0	79	87	9.6				30 - 130	20
2,4,6-Trichlorophenol	ND	1.0	82	91	10.4				30 - 130	20
2,4-Dichlorophenol	ND	1.0	70	82	15.8				30 - 130	20
2,4-Dimethylphenol	ND	1.0	66	81	20.4				30 - 130	20
2,4-Dinitrophenol	ND	1.0	109	101	7.6				30 - 130	20
2,4-Dinitrotoluene	ND	3.5	82	84	2.4				30 - 130	20
2,6-Dinitrotoluene	ND	3.5	75	78	3.9				30 - 130	20
2-Chloronaphthalene	ND	3.5	68	76	11.1				30 - 130	20
2-Chlorophenol	ND	1.0	63	75	17.4				30 - 130	20
2-Methylnaphthalene	ND	3.5	63	73	14.7				30 - 130	20
2-Methylphenol (o-cresol)	ND	1.0	63	74	16.1				30 - 130	20
2-Nitroaniline	ND	3.5	104	112	7.4				30 - 130	20
2-Nitrophenol	ND	1.0	84	92	9.1				30 - 130	20
3&4-Methylphenol (m&p-cresol)	ND	1.0	67	79	16.4				30 - 130	20
3,3'-Dichlorobenzidine	ND	5.0	96	86	11.0				30 - 130	20
3-Nitroaniline	ND	5.0	103	105	1.9				30 - 130	20
4,6-Dinitro-2-methylphenol	ND	1.0	102	96	6.1				30 - 130	20
4-Bromophenyl phenyl ether	ND	3.5	74	82	10.3				30 - 130	20
4-Chloro-3-methylphenol	ND	1.0	77	87	12.2				30 - 130	20
4-Chloroaniline	ND	3.5	69	71	2.9				30 - 130	20
4-Chlorophenyl phenyl ether	ND	1.0	70	78	10.8				30 - 130	20
4-Nitroaniline	ND	5.0	72	77	6.7				30 - 130	20
4-Nitrophenol	ND	1.0	82	89	8.2				30 - 130	20
Acenaphthene	ND	1.5	72	80	10.5				30 - 130	20
Acetophenone	ND	3.5	61	71	15.2				30 - 130	20
Atrazine	ND	3.5	67	71	5.8				30 - 130	20
Benzaldehyde	ND	3.5	137	164	17.9				30 - 130	20
Benzyl butyl phthalate	ND	1.5	80	85	6.1				30 - 130	20
Bis(2-chloroethoxy)methane	ND	3.5	64	74	14.5				30 - 130	20
Bis(2-chloroisopropyl)ether	ND	1.0	51	60	16.2				30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	1.5	80	85	6.1				30 - 130	20
Caprolactam	ND	3.5	82	93	12.6				30 - 130	20
Carbazole	ND	5.0	81	86	6.0				30 - 130	20
Dibenzofuran	ND	3.5	69	77	11.0				30 - 130	20
Diethyl phthalate	ND	1.5	73	81	10.4				30 - 130	20
Dimethylphthalate	ND	1.5	73	81	10.4				30 - 130	20
Di-n-butylphthalate	ND	1.5	84	92	9.1				30 - 130	20

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Di-n-octylphthalate	ND	1.5	80	89	10.7				30 - 130	20	
Hexachlorocyclopentadiene	ND	3.5	26	31	17.5				30 - 130	20	l
Hexachloroethane	ND	3.5	59	69	15.6				30 - 130	20	
Isophorone	ND	3.5	59	70	17.1				30 - 130	20	
Naphthalene	ND	1.5	61	70	13.7				30 - 130	20	
N-Nitrosodi-n-propylamine	ND	3.5	61	71	15.2				30 - 130	20	
N-Nitrosodiphenylamine	ND	3.5	68	74	8.5				30 - 130	20	
Phenol	ND	1.0	61	72	16.5				30 - 130	20	
% 2,4,6-Tribromophenol	76	%	81	86	6.0				15 - 110	20	
% 2-Fluorobiphenyl	77	%	64	73	13.1				30 - 130	20	
% 2-Fluorophenol	51	%	51	61	17.9				15 - 110	20	
% Nitrobenzene-d5	60	%	63	72	13.3				30 - 130	20	
% Phenol-d5	16	%	55	67	19.7				15 - 110	20	
% Terphenyl-d14	84	%	77	86	11.0				30 - 130	20	

Comment:

Additional 8270 criteria: Four of the compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 10-110%, for soils 30-130%)

QA/QC Batch 573063 (ug/kg), QC Sample No: CI17437 (CI17298, CI17299, CI17300, CI17301)

Semivolatiles - Sediment

1,1-Biphenyl	ND	230	66	73	10.1	67	66	1.5	30 - 130	30	
1,2,4,5-Tetrachlorobenzene	ND	230	64	69	7.5	67	66	1.5	30 - 130	30	
2,3,4,6-tetrachlorophenol	ND	230	73	79	7.9	74	74	0.0	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	80	91	12.9	83	84	1.2	30 - 130	30	
2,4,6-Trichlorophenol	ND	130	81	87	7.1	84	82	2.4	30 - 130	30	
2,4-Dichlorophenol	ND	130	77	84	8.7	82	77	6.3	30 - 130	30	
2,4-Dimethylphenol	ND	230	76	81	6.4	81	76	6.4	30 - 130	30	
2,4-Dinitrophenol	ND	230	20	24	18.2	84	54	43.5	30 - 130	30	l,r
2,4-Dinitrotoluene	ND	130	80	87	8.4	76	76	0.0	30 - 130	30	
2,6-Dinitrotoluene	ND	130	75	83	10.1	75	74	1.3	30 - 130	30	
2-Chloronaphthalene	ND	230	72	77	6.7	71	71	0.0	30 - 130	30	
2-Chlorophenol	ND	230	66	72	8.7	69	65	6.0	30 - 130	30	
2-Methylnaphthalene	ND	230	66	71	7.3	70	65	7.4	30 - 130	30	
2-Methylphenol (o-cresol)	ND	230	73	81	10.4	76	77	1.3	30 - 130	30	
2-Nitroaniline	ND	330	119	134	11.9	111	109	1.8	30 - 130	30	l
2-Nitrophenol	ND	230	85	83	2.4	81	74	9.0	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	70	77	9.5	73	73	0.0	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	88	97	9.7	56	62	10.2	30 - 130	30	
3-Nitroaniline	ND	330	91	102	11.4	85	81	4.8	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	230	33	43	26.3	86	52	49.3	30 - 130	30	r
4-Bromophenyl phenyl ether	ND	230	74	84	12.7	83	76	8.8	30 - 130	30	
4-Chloro-3-methylphenol	ND	230	81	93	13.8	88	86	2.3	30 - 130	30	
4-Chloroaniline	ND	230	71	79	10.7	65	63	3.1	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	73	79	7.9	69	68	1.5	30 - 130	30	
4-Nitroaniline	ND	230	73	79	7.9	73	71	2.8	30 - 130	30	
4-Nitrophenol	ND	230	75	84	11.3	87	83	4.7	30 - 130	30	
Acenaphthene	ND	230	72	77	6.7	69	70	1.4	30 - 130	30	
Acenaphthylene	ND	130	69	75	8.3	71	68	4.3	30 - 130	30	
Acetophenone	ND	230	63	71	11.9	68	63	7.6	30 - 130	30	
Anthracene	ND	230	71	79	10.7	63	64	1.6	30 - 130	30	
Atrazine	ND	130	69	74	7.0	62	64	3.2	30 - 130	30	
Benz(a)anthracene	ND	230	73	81	10.4	60	59	1.7	30 - 130	30	
Benzaldehyde	ND	230	23	14	48.6	35	29	18.8	30 - 130	30	l,m,r

QA/QC Data

SDG I.D.: GCI17289

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzo(a)pyrene	ND	130	70	78	10.8	58	56	3.5	30 - 130	30	
Benzo(b)fluoranthene	ND	160	73	83	12.8	62	65	4.7	30 - 130	30	
Benzo(ghi)perylene	ND	230	73	82	11.6	62	51	19.5	30 - 130	30	
Benzo(k)fluoranthene	ND	230	71	77	8.1	53	53	0.0	30 - 130	30	
Benzyl butyl phthalate	ND	230	82	90	9.3	74	72	2.7	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	63	68	7.6	66	60	9.5	30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	48	55	13.6	52	47	10.1	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	48	53	9.9	52	48	8.0	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	81	89	9.4	72	77	6.7	30 - 130	30	
Caprolactam	ND	230	72	81	11.8	79	81	2.5	30 - 130	30	
Carbazole	ND	230	72	80	10.5	69	69	0.0	30 - 130	30	
Chrysene	ND	230	70	76	8.2	61	60	1.7	30 - 130	30	
Dibenz(a,h)anthracene	ND	130	74	82	10.3	75	70	6.9	30 - 130	30	
Dibenzofuran	ND	230	71	77	8.1	70	68	2.9	30 - 130	30	
Diethyl phthalate	ND	230	72	81	11.8	69	69	0.0	30 - 130	30	
Dimethylphthalate	ND	230	73	79	7.9	70	69	1.4	30 - 130	30	
Di-n-butylphthalate	ND	670	69	76	9.7	71	72	1.4	30 - 130	30	
Di-n-octylphthalate	ND	230	80	91	12.9	73	80	9.2	30 - 130	30	
Fluoranthene	ND	230	63	67	6.2	53	46	14.1	30 - 130	30	
Fluorene	ND	230	73	79	7.9	70	69	1.4	30 - 130	30	
Hexachlorobenzene	ND	130	71	80	11.9	76	74	2.7	30 - 130	30	
Hexachlorobutadiene	ND	230	68	71	4.3	71	65	8.8	30 - 130	30	
Hexachlorocyclopentadiene	ND	230	60	64	6.5	34	22	42.9	30 - 130	30	m,r
Hexachloroethane	ND	130	65	68	4.5	64	56	13.3	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	76	86	12.3	66	60	9.5	30 - 130	30	
Isophorone	ND	130	58	62	6.7	59	56	5.2	30 - 130	30	
Naphthalene	ND	230	63	66	4.7	64	60	6.5	30 - 130	30	
Nitrobenzene	ND	130	67	74	9.9	71	66	7.3	30 - 130	30	
N-Nitrosodimethylamine	ND	230	45	48	6.5	45	38	16.9	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	130	63	71	11.9	65	61	6.3	30 - 130	30	
N-Nitrosodiphenylamine	ND	130	70	79	12.1	68	69	1.5	30 - 130	30	
Pentachlorophenol	ND	230	78	86	9.8	89	94	5.5	30 - 130	30	
Phenanthrene	ND	130	71	77	8.1	59	57	3.4	30 - 130	30	
Phenol	ND	230	64	72	11.8	68	63	7.6	30 - 130	30	
Pyrene	ND	230	56	61	8.5	55	47	15.7	30 - 130	30	
% 2,4,6-Tribromophenol	98	%	76	83	8.8	89	97	8.6	30 - 130	30	
% 2-Fluorobiphenyl	80	%	66	73	10.1	65	65	0.0	30 - 130	30	
% 2-Fluorophenol	58	%	49	54	9.7	49	46	6.3	30 - 130	30	
% Nitrobenzene-d5	81	%	68	77	12.4	71	68	4.3	30 - 130	30	
% Phenol-d5	68	%	58	67	14.4	63	60	4.9	30 - 130	30	
% Terphenyl-d14	75	%	55	61	10.3	58	57	1.7	30 - 130	30	

Comment:

Additional 8270 criteria: Four of the compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 10-110%, for soils 30-130%)

QA/QC Batch 573225 (ug/L), QC Sample No: CI17289 (CI17289, CI17290, CI17291, CI17292, CI17293, CI17294, CI17295, CI17296, CI17297, CI17302, CI17303)

Semivolatiles (SIM) - Ground Water, Surface Water, Liquid

Acenaphthylene	ND	0.50	51	76	39.4				30 - 130	20	r
Anthracene	ND	0.50	85	90	5.7				30 - 130	20	
Benz(a)anthracene	ND	0.50	91	98	7.4				30 - 130	20	
Benzo(a)pyrene	ND	0.50	116	112	3.5				30 - 130	20	
Benzo(b)fluoranthene	ND	0.50	133	114	15.4				30 - 130	20	l

QA/QC Data

SDG I.D.: GCI17289

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzo(ghi)perylene	ND	0.50	128	116	9.8				30 - 130	20	
Benzo(k)fluoranthene	ND	0.50	142	122	15.2				30 - 130	20	I
Bis(2-chloroethyl)ether	ND	0.50	69	74	7.0				30 - 130	20	
Chrysene	ND	0.50	96	101	5.1				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.50	144	120	18.2				30 - 130	20	I
Fluoranthene	ND	0.50	86	92	6.7				30 - 130	20	
Fluorene	ND	0.50	83	87	4.7				30 - 130	20	
Hexachlorobenzene	ND	0.50	87	90	3.4				30 - 130	20	
Hexachlorobutadiene	ND	0.50	97	93	4.2				30 - 130	20	
Hexachlorocyclopentadiene	ND	0.50	28	30	6.9				30 - 130	20	I
Indeno(1,2,3-cd)pyrene	ND	0.50	95	86	9.9				30 - 130	20	
Nitrobenzene	ND	0.50	81	77	5.1				30 - 130	20	
N-Nitrosodimethylamine	ND	0.05	86	84	2.4				30 - 130	20	
Pentachlorophenol	ND	0.50	99	97	2.0				30 - 130	20	
Phenanthrene	ND	0.50	82	87	5.9				30 - 130	20	
Pyrene	ND	0.50	86	94	8.9				30 - 130	20	
% 2,4,6-Tribromophenol	67	%	102	106	3.8				15 - 110	20	
% 2-Fluorobiphenyl	70	%	92	96	4.3				30 - 130	20	
% 2-Fluorophenol	51	%	71	76	6.8				15 - 110	20	
% Nitrobenzene-d5	53	%	75	80	6.5				30 - 130	20	
% Phenol-d5	14	%	63	81	25.0				15 - 110	20	r,s
% Terphenyl-d14	79	%	98	104	5.9				30 - 130	20	

QA/QC Batch 573176 (ug/L), QC Sample No: CI17304 (CI17289, CI17291, CI17292, CI17293, CI17294, CI17295, CI17296, CI17297, CI17302, CI17303, CI17304)

Volatiles - Ground Water, Surface Water, Liquid

1,1,1-Trichloroethane	ND	1.0	94	96	2.1				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	94	96	2.1				70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	91	97	6.4				70 - 130	30	
1,1-Dichloroethane	ND	1.0	92	95	3.2				70 - 130	30	
1,1-Dichloroethene	ND	1.0	93	95	2.1				70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	102	108	5.7				70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	115	120	4.3				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	98	95	3.1				70 - 130	30	
1,2-Dibromoethane	ND	1.0	95	99	4.1				70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	97	98	1.0				70 - 130	30	
1,2-Dichloroethane	ND	1.0	87	91	4.5				70 - 130	30	
1,2-Dichloropropane	ND	1.0	95	99	4.1				70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	100	100	0.0				70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	96	96	0.0				70 - 130	30	
1,4-dioxane	ND	100	108	107	0.9				70 - 130	30	
2-Hexanone	ND	5.0	85	90	5.7				70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	84	88	4.7				70 - 130	30	
Acetone	ND	5.0	75	79	5.2				70 - 130	30	
Benzene	ND	0.70	98	103	5.0				70 - 130	30	
Bromochloromethane	ND	1.0	90	94	4.3				70 - 130	30	
Bromodichloromethane	ND	0.50	87	92	5.6				70 - 130	30	
Bromoform	ND	1.0	83	87	4.7				70 - 130	30	
Bromomethane	ND	1.0	81	86	6.0				70 - 130	30	
Carbon Disulfide	ND	1.0	102	105	2.9				70 - 130	30	
Carbon tetrachloride	ND	1.0	93	95	2.1				70 - 130	30	
Chlorobenzene	ND	1.0	97	99	2.0				70 - 130	30	
Chloroethane	ND	1.0	77	77	0.0				70 - 130	30	

QA/QC Data

SDG I.D.: GCI17289

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chloroform	ND	1.0	84	86	2.4				70 - 130	30
Chloromethane	ND	1.0	84	87	3.5				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	94	97	3.1				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	94	99	5.2				70 - 130	30
Cyclohexane	ND	5.0	109	112	2.7				70 - 130	30
Dibromochloromethane	ND	0.50	90	93	3.3				70 - 130	30
Dichlorodifluoromethane	ND	1.0	107	108	0.9				70 - 130	30
Ethylbenzene	ND	1.0	101	102	1.0				70 - 130	30
Isopropylbenzene	ND	1.0	107	107	0.0				70 - 130	30
m&p-Xylene	ND	1.0	101	102	1.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	82	87	5.9				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	91	95	4.3				70 - 130	30
Methylacetate	ND	2.5	86	92	6.7				70 - 130	30
Methylcyclohexane	ND	1.0	98	101	3.0				70 - 130	30
Methylene chloride	ND	1.0	82	83	1.2				70 - 130	30
o-Xylene	ND	1.0	102	103	1.0				70 - 130	30
Styrene	ND	1.0	101	104	2.9				70 - 130	30
Tetrachloroethene	ND	1.0	101	106	4.8				70 - 130	30
Toluene	ND	1.0	97	100	3.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	102	105	2.9				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	88	92	4.4				70 - 130	30
Trichloroethene	ND	1.0	101	105	3.9				70 - 130	30
Trichlorofluoromethane	ND	1.0	90	92	2.2				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	104	107	2.8				70 - 130	30
Vinyl chloride	ND	1.0	95	97	2.1				70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	99	98	1.0				70 - 130	30
% Bromofluorobenzene	91	%	100	101	1.0				70 - 130	30
% Dibromofluoromethane	93	%	93	101	8.2				70 - 130	30
% Toluene-d8	97	%	98	100	2.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 573320 (ug/L), QC Sample No: CI17708 (CI17290)

Volatiles - Ground Water

1,1,1-Trichloroethane	ND	1.0	98	97	1.0				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	105	99	5.9				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	101	95	6.1				70 - 130	30
1,1-Dichloroethane	ND	1.0	94	93	1.1				70 - 130	30
1,1-Dichloroethene	ND	1.0	93	93	0.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	106	100	5.8				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	106	98	7.8				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	107	102	4.8				70 - 130	30
1,2-Dibromoethane	ND	1.0	103	99	4.0				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	100	98	2.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	104	98	5.9				70 - 130	30
1,2-Dichloropropane	ND	1.0	102	98	4.0				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	95	95	0.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	96	95	1.0				70 - 130	30
1,4-dioxane	ND	100	100	103	3.0				70 - 130	30
2-Hexanone	ND	5.0	95	89	6.5				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	103	91	12.4				70 - 130	30
Acetone	ND	5.0	99	97	2.0				70 - 130	30
Benzene	ND	0.70	95	95	0.0				70 - 130	30

QA/QC Data

SDG I.D.: GCI17289

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bromochloromethane	ND	1.0	95	92	3.2				70 - 130	30	
Bromodichloromethane	ND	0.50	103	94	9.1				70 - 130	30	
Bromoform	ND	1.0	100	96	4.1				70 - 130	30	
Bromomethane	ND	1.0	94	92	2.2				70 - 130	30	
Carbon Disulfide	ND	1.0	102	103	1.0				70 - 130	30	
Carbon tetrachloride	ND	1.0	98	117	17.7				70 - 130	30	
Chlorobenzene	ND	1.0	97	98	1.0				70 - 130	30	
Chloroethane	ND	1.0	88	89	1.1				70 - 130	30	
Chloroform	ND	1.0	93	90	3.3				70 - 130	30	
Chloromethane	ND	1.0	100	102	2.0				70 - 130	30	
cis-1,2-Dichloroethene	ND	1.0	96	93	3.2				70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	105	98	6.9				70 - 130	30	
Cyclohexane	ND	5.0	101	99	2.0				70 - 130	30	
Dibromochloromethane	ND	0.50	106	101	4.8				70 - 130	30	
Dichlorodifluoromethane	ND	1.0	107	111	3.7				70 - 130	30	
Ethylbenzene	ND	1.0	96	97	1.0				70 - 130	30	
Isopropylbenzene	ND	1.0	95	97	2.1				70 - 130	30	
m&p-Xylene	ND	1.0	92	94	2.2				70 - 130	30	
Methyl ethyl ketone	ND	5.0	100	107	6.8				70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	103	92	11.3				70 - 130	30	
Methylacetate	ND	2.5	104	87	17.8				70 - 130	30	
Methylcyclohexane	ND	1.0	100	95	5.1				70 - 130	30	
Methylene chloride	ND	1.0	89	86	3.4				70 - 130	30	
o-Xylene	ND	1.0	95	96	1.0				70 - 130	30	
Styrene	ND	1.0	95	97	2.1				70 - 130	30	
Tetrachloroethene	ND	1.0	99	95	4.1				70 - 130	30	
Toluene	ND	1.0	99	97	2.0				70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	97	97	0.0				70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	102	95	7.1				70 - 130	30	
Trichloroethene	ND	1.0	98	98	0.0				70 - 130	30	
Trichlorofluoromethane	ND	1.0	98	98	0.0				70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	104	104	0.0				70 - 130	30	
Vinyl chloride	ND	1.0	96	98	2.1				70 - 130	30	
% 1,2-dichlorobenzene-d4	95	%	102	101	1.0				70 - 130	30	
% Bromofluorobenzene	102	%	101	100	1.0				70 - 130	30	
% Dibromofluoromethane	105	%	102	96	6.1				70 - 130	30	
% Toluene-d8	90	%	104	102	1.9				70 - 130	30	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 573984 (ug/kg), QC Sample No: CI22283 (CI17298, CI17299, CI17301)

Volatiles - Sediment (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	89	88	1.1	85	87	2.3	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	86	87	1.2	84	85	1.2	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	86	89	3.4	87	89	2.3	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	84	84	0.0	81	82	1.2	70 - 130	30	
1,1-Dichloroethane	ND	5.0	88	89	1.1	91	91	0.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0	86	87	1.2	90	89	1.1	70 - 130	30	
1,1-Dichloropropene	ND	5.0	86	86	0.0	80	83	3.7	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	91	92	1.1	68	76	11.1	70 - 130	30	m
1,2,3-Trichloropropane	ND	5.0	81	84	3.6	83	85	2.4	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	91	91	0.0	68	73	7.1	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	87	85	2.3	69	77	11.0	70 - 130	30	m

QA/QC Data

SDG I.D.: GCI17289

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dibromo-3-chloropropane	ND	5.0	94	96	2.1	86	90	4.5	70 - 130	30	
1,2-Dibromoethane	ND	5.0	84	85	1.2	80	81	1.2	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	88	88	0.0	78	82	5.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	86	87	1.2	83	84	1.2	70 - 130	30	
1,2-Dichloropropane	ND	5.0	87	88	1.1	87	91	4.5	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	86	84	2.4	85	87	2.3	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	87	85	2.3	77	81	5.1	70 - 130	30	
1,3-Dichloropropane	ND	5.0	85	85	0.0	85	84	1.2	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	87	85	2.3	75	79	5.2	70 - 130	30	
2,2-Dichloropropane	ND	5.0	86	86	0.0	85	84	1.2	70 - 130	30	
2-Chlorotoluene	ND	5.0	89	87	2.3	86	88	2.3	70 - 130	30	
2-Hexanone	ND	25	82	83	1.2	75	77	2.6	70 - 130	30	
2-Isopropyltoluene	ND	5.0	100	97	3.0	100	102	2.0	70 - 130	30	
4-Chlorotoluene	ND	5.0	87	85	2.3	81	84	3.6	70 - 130	30	
4-Methyl-2-pentanone	ND	25	88	92	4.4	86	89	3.4	70 - 130	30	
Acetone	ND	10	71	74	4.1	56	55	1.8	70 - 130	30	m
Acrylonitrile	ND	5.0	93	100	7.3	93	94	1.1	70 - 130	30	
Benzene	ND	1.0	84	84	0.0	85	86	1.2	70 - 130	30	
Bromobenzene	ND	5.0	88	87	1.1	83	84	1.2	70 - 130	30	
Bromochloromethane	ND	5.0	79	81	2.5	77	79	2.6	70 - 130	30	
Bromodichloromethane	ND	5.0	86	88	2.3	82	86	4.8	70 - 130	30	
Bromoform	ND	5.0	89	90	1.1	78	82	5.0	70 - 130	30	
Bromomethane	ND	5.0	97	98	1.0	92	92	0.0	70 - 130	30	
Carbon Disulfide	ND	5.0	109	109	0.0	106	107	0.9	70 - 130	30	
Carbon tetrachloride	ND	5.0	86	81	6.0	80	81	1.2	70 - 130	30	
Chlorobenzene	ND	5.0	86	85	1.2	81	82	1.2	70 - 130	30	
Chloroethane	ND	5.0	90	91	1.1	89	91	2.2	70 - 130	30	
Chloroform	ND	5.0	79	80	1.3	80	80	0.0	70 - 130	30	
Chloromethane	ND	5.0	93	92	1.1	92	89	3.3	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	83	84	1.2	83	84	1.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	88	88	0.0	77	81	5.1	70 - 130	30	
Dibromochloromethane	ND	3.0	94	94	0.0	85	88	3.5	70 - 130	30	
Dibromomethane	ND	5.0	83	85	2.4	77	80	3.8	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	103	104	1.0	96	96	0.0	70 - 130	30	
Ethylbenzene	ND	1.0	86	84	2.4	85	86	1.2	70 - 130	30	
Hexachlorobutadiene	ND	5.0	94	93	1.1	84	90	6.9	70 - 130	30	
Isopropylbenzene	ND	1.0	89	86	3.4	91	92	1.1	70 - 130	30	
m&p-Xylene	ND	2.0	84	83	1.2	79	81	2.5	70 - 130	30	
Methyl ethyl ketone	ND	5.0	81	88	8.3	57	60	5.1	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	1.0	90	94	4.3	92	90	2.2	70 - 130	30	
Methylene chloride	ND	5.0	73	75	2.7	75	74	1.3	70 - 130	30	
Naphthalene	ND	5.0	90	91	1.1	35	48	31.3	70 - 130	30	m,r
n-Butylbenzene	ND	1.0	90	87	3.4	72	78	8.0	70 - 130	30	
n-Propylbenzene	ND	1.0	88	87	1.1	86	89	3.4	70 - 130	30	
o-Xylene	ND	2.0	86	85	1.2	84	85	1.2	70 - 130	30	
p-Isopropyltoluene	ND	1.0	90	88	2.2	89	91	2.2	70 - 130	30	
sec-Butylbenzene	ND	1.0	94	93	1.1	92	96	4.3	70 - 130	30	
Styrene	ND	5.0	86	84	2.4	74	78	5.3	70 - 130	30	
tert-Butylbenzene	ND	1.0	87	87	0.0	90	92	2.2	70 - 130	30	
Tetrachloroethene	ND	5.0	86	85	1.2	85	88	3.5	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	93	87	6.7	78	78	0.0	70 - 130	30	
Toluene	ND	1.0	85	85	0.0	84	86	2.4	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	90	89	1.1	87	89	2.3	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
trans-1,3-Dichloropropene	ND	5.0	85	85	0.0	70	74	5.6	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	98	101	3.0	75	81	7.7	70 - 130	30
Trichloroethene	ND	5.0	87	86	1.2	85	87	2.3	70 - 130	30
Trichlorofluoromethane	ND	5.0	90	89	1.1	91	92	1.1	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	104	104	0.0	108	108	0.0	70 - 130	30
Vinyl chloride	ND	5.0	93	94	1.1	94	93	1.1	70 - 130	30
% 1,2-dichlorobenzene-d4	91	%	97	98	1.0	95	97	2.1	70 - 130	30
% Bromofluorobenzene	97	%	100	99	1.0	96	97	1.0	70 - 130	30
% Dibromofluoromethane	99	%	100	95	5.1	90	90	0.0	70 - 130	30
% Toluene-d8	92	%	99	100	1.0	98	100	2.0	70 - 130	30
QA/QC Batch 574201 (ug/kg), QC Sample No: CI22285 (CI17300)										
Volatiles - Sediment (Low Level)										
1,1,1,2-Tetrachloroethane	ND	5.0	79	90	13.0				70 - 130	30
1,1,1-Trichloroethane	ND	5.0	79	90	13.0				70 - 130	30
1,1,2-Trichloroethane	ND	5.0	77	86	11.0				70 - 130	30
1,1-Dichloroethane	ND	5.0	80	91	12.9				70 - 130	30
1,1-Dichloroethene	ND	5.0	81	90	10.5				70 - 130	30
1,1-Dichloropropene	ND	5.0	80	88	9.5				70 - 130	30
1,2-Dibromoethane	ND	5.0	78	87	10.9				70 - 130	30
1,2-Dichloroethane	ND	5.0	78	88	12.0				70 - 130	30
1,2-Dichloropropane	ND	5.0	80	90	11.8				70 - 130	30
1,3-Dichloropropane	ND	5.0	79	88	10.8				70 - 130	30
2,2-Dichloropropane	ND	5.0	79	87	9.6				70 - 130	30
2-Hexanone	ND	25	76	86	12.3				70 - 130	30
4-Methyl-2-pentanone	ND	25	85	93	9.0				70 - 130	30
Acetone	ND	10	71	76	6.8				70 - 130	30
Acrylonitrile	ND	5.0	93	101	8.2				70 - 130	30
Benzene	ND	1.0	78	87	10.9				70 - 130	30
Bromochloromethane	ND	5.0	71	83	15.6				70 - 130	30
Bromodichloromethane	ND	5.0	78	89	13.2				70 - 130	30
Bromoform	ND	5.0	79	90	13.0				70 - 130	30
Bromomethane	ND	5.0	89	101	12.6				70 - 130	30
Carbon Disulfide	ND	5.0	101	114	12.1				70 - 130	30
Carbon tetrachloride	ND	5.0	79	87	9.6				70 - 130	30
Chlorobenzene	ND	5.0	78	88	12.0				70 - 130	30
Chloroethane	ND	5.0	84	92	9.1				70 - 130	30
Chloroform	ND	5.0	71	81	13.2				70 - 130	30
Chloromethane	ND	5.0	88	99	11.8				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	77	87	12.2				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	81	90	10.5				70 - 130	30
Dibromochloromethane	ND	3.0	83	96	14.5				70 - 130	30
Dibromomethane	ND	5.0	77	85	9.9				70 - 130	30
Dichlorodifluoromethane	ND	5.0	93	102	9.2				70 - 130	30
Ethylbenzene	ND	1.0	79	88	10.8				70 - 130	30
m&p-Xylene	ND	2.0	78	86	9.8				70 - 130	30
Methyl ethyl ketone	ND	5.0	77	84	8.7				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	82	94	13.6				70 - 130	30
Methylene chloride	ND	5.0	67	76	12.6				70 - 130	30
o-Xylene	ND	2.0	78	88	12.0				70 - 130	30
Styrene	ND	5.0	78	87	10.9				70 - 130	30
Tetrachloroethene	ND	5.0	80	88	9.5				70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	93	101	8.2				70 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Toluene	ND	1.0	79	89	11.9				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	84	94	11.2				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	77	87	12.2				70 - 130	30
Trichloroethene	ND	5.0	80	89	10.7				70 - 130	30
Trichlorofluoromethane	ND	5.0	83	93	11.4				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	94	105	11.1				70 - 130	30
Vinyl chloride	ND	5.0	87	99	12.9				70 - 130	30
% 1,2-dichlorobenzene-d4	91	%	97	97	0.0				70 - 130	30
% Bromofluorobenzene	99	%	99	99	0.0				70 - 130	30
% Dibromofluoromethane	102	%	100	100	0.0				70 - 130	30
% Toluene-d8	90	%	100	100	0.0				70 - 130	30

Comment:

The Low Level MS/MSD are not reported for this batch.

QA/QC Batch 574201H (ug/kg), QC Sample No: CI22285 (CI17300 (50X))

Volatiles - Sediment (High Level)

1,1,2,2-Tetrachloroethane	ND	5.0	87	87	0.0	89	89	0.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	95	96	1.0	91	95	4.3	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	82	82	0.0	84	83	1.2	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	99	98	1.0	95	97	2.1	70 - 130	30
1,2,4-Trimethylbenzene	ND	5.0	87	88	1.1	88	87	1.1	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	90	88	2.2	92	91	1.1	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	91	91	0.0	90	91	1.1	70 - 130	30
1,3,5-Trimethylbenzene	ND	5.0	86	87	1.2	86	86	0.0	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	89	89	0.0	88	89	1.1	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	89	91	2.2	88	89	1.1	70 - 130	30
2-Chlorotoluene	ND	5.0	89	90	1.1	89	89	0.0	70 - 130	30
2-Isopropyltoluene	ND	5.0	100	101	1.0	100	101	1.0	70 - 130	30
4-Chlorotoluene	ND	5.0	89	90	1.1	88	89	1.1	70 - 130	30
Bromobenzene	ND	5.0	89	89	0.0	87	89	2.3	70 - 130	30
Hexachlorobutadiene	ND	5.0	98	98	0.0	97	97	0.0	70 - 130	30
Isopropylbenzene	ND	5.0	89	89	0.0	89	89	0.0	70 - 130	30
Naphthalene	ND	5.0	92	91	1.1	92	91	1.1	70 - 130	30
n-Butylbenzene	ND	5.0	92	93	1.1	92	93	1.1	70 - 130	30
n-Propylbenzene	ND	5.0	89	91	2.2	89	90	1.1	70 - 130	30
p-Isopropyltoluene	ND	5.0	91	92	1.1	91	92	1.1	70 - 130	30
sec-Butylbenzene	ND	5.0	95	96	1.0	96	96	0.0	70 - 130	30
tert-Butylbenzene	ND	5.0	87	88	1.1	88	88	0.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	98	97	1.0	96	96	0.0	70 - 130	30
% 1,2-dichlorobenzene-d4	92	%	96	97	1.0	97	96	1.0	70 - 130	30
% Bromofluorobenzene	98	%	98	98	0.0	99	100	1.0	70 - 130	30
% Dibromofluoromethane	98	%	88	92	4.4	87	87	0.0	70 - 130	30
% Toluene-d8	91	%	101	101	0.0	101	101	0.0	70 - 130	30

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.
s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

QA/QC Data

SDG I.D.: GCI17289

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
June 25, 2021

Friday, June 25, 2021

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCI17289 - CASHIN-NYDOT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CI17289	$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CI17289	$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CI17289	$DPWMSIM_T	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17289	$DPWMSIM_T	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17289	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17289	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17289	$DPWMSIM_T	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17289	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17289	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17289	$DPWMSIM_T	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17289	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17289	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17289	$DPWMSIM_T	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17289	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	0.169	0.020	0.1	0.1	mg/L
CI17289	CLD-WM	Chloride	NY / TOGS - Water Quality / GA Criteria	257	15.0	250	250	mg/L
CI17289	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.87	0.005	0.3	0.3	mg/L
CI17289	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	110	1.1	20	20	mg/L
CI17289	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	0.39	0.01	0.3	0.3	mg/L
CI17289	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	2.22	0.050	0.3	0.3	mg/L
CI17289	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	112	1.0	20	20	mg/L
CI17290	$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CI17290	$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CI17290	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17290	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17290	$DPWMSIM_T	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17290	$DPWMSIM_T	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17290	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17290	$DPWMSIM_T	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17290	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17290	$DPWMSIM_T	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17290	$DPWMSIM_T	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17290	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17290	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17290	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	8.05	0.020	0.1	0.1	mg/L
CI17290	DFE-WMDP	Iron, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	30.0	0.01	0.3	0.3	mg/L
CI17290	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	12.4	0.053	0.3	0.3	mg/L
CI17290	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	31.4	0.11	20	20	mg/L
CI17290	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	95.3	0.01	0.3	0.3	mg/L
CI17290	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	13.8	0.050	0.3	0.3	mg/L
CI17290	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	33.2	0.10	20	20	mg/L

Friday, June 25, 2021

Criteria: NY: GW

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Sample Criteria Exceedances Report

GCI17289 - CASHIN-NYDOT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CI17291	$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CI17291	$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CI17291	$DPWMSIM_T	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17291	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17291	$DPWMSIM_T	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17291	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17291	$DPWMSIM_T	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17291	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17291	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17291	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17291	$DPWMSIM_T	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17291	$DPWMSIM_T	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17291	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17291	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	3.19	0.020	0.1	0.1	mg/L
CI17291	CLD-WM	Chloride	NY / TOGS - Water Quality / GA Criteria	264	15.0	250	250	mg/L
CI17291	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.14	0.005	0.3	0.3	mg/L
CI17291	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	122	1.1	20	20	mg/L
CI17291	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	17.7	0.01	0.3	0.3	mg/L
CI17291	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	2.54	0.050	0.3	0.3	mg/L
CI17291	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	137	1.0	20	20	mg/L
CI17292	$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CI17292	$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CI17292	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17292	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17292	$DPWMSIM_T	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17292	$DPWMSIM_T	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17292	$DPWMSIM_T	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17292	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17292	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17292	$DPWMSIM_T	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17292	$DPWMSIM_T	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17292	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17292	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17292	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	3.80	0.020	0.1	0.1	mg/L
CI17292	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	22.1	0.11	20	20	mg/L
CI17292	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	6.22	0.01	0.3	0.3	mg/L
CI17292	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	1.02	0.005	0.3	0.3	mg/L
CI17292	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	23.4	0.10	20	20	mg/L
CI17293	$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CI17293	$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L

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Criteria: NY: GW

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Sample Criteria Exceedances Report

GCI17289 - CASHIN-NYDOT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CI17293	$DPWMSIM_T	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17293	$DPWMSIM_T	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17293	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17293	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17293	$DPWMSIM_T	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17293	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17293	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17293	$DPWMSIM_T	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17293	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17293	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17293	$DPWMSIM_T	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17293	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	2.22	0.020	0.1	0.1	mg/L
CI17293	DFE-WMDP	Iron, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	24.5	0.01	0.3	0.3	mg/L
CI17293	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	14.0	0.053	0.3	0.3	mg/L
CI17293	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	25.4	0.11	20	20	mg/L
CI17293	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	103	0.01	0.3	0.3	mg/L
CI17293	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	13.8	0.050	0.3	0.3	mg/L
CI17293	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	26.2	0.10	20	20	mg/L
CI17294	$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CI17294	$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CI17294	$DPWMSIM_T	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.10	0.02	0.002	0.002	ug/L
CI17294	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.11	0.02	0.002	0.002	ug/L
CI17294	$DPWMSIM_T	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.09	0.02	0.002	0.002	ug/L
CI17294	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.10	0.02	0.002	0.002	ug/L
CI17294	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.09	0.02	0.002	0.002	ug/L
CI17294	$DPWMSIM_T	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.08	0.02	0.002	0.002	ug/L
CI17294	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.09	0.02	0.002	0.002	ug/L
CI17294	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.10	0.02	0.002	0.002	ug/L
CI17294	$DPWMSIM_T	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.09	0.02	0.002	0.002	ug/L
CI17294	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.11	0.02	0.002	0.002	ug/L
CI17294	$DPWMSIM_T	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.08	0.02	0.002	0.002	ug/L
CI17294	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	1.66	0.020	0.1	0.1	mg/L
CI17294	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	15.1	0.01	0.3	0.3	mg/L
CI17294	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	3.88	0.050	0.3	0.3	mg/L
CI17295	$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CI17295	$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CI17295	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17295	$DPWMSIM_T	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17295	$DPWMSIM_T	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17295	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L

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Criteria: NY: GW

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SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CI17295	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17295	$DPWMSIM_T	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17295	$DPWMSIM_T	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17295	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17295	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17295	$DPWMSIM_T	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17295	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17295	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	0.47	0.01	0.3	0.3	mg/L
CI17296	$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CI17296	$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CI17296	$DPWMSIM_T	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17296	$DPWMSIM_T	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17296	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17296	$DPWMSIM_T	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17296	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17296	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17296	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17296	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17296	$DPWMSIM_T	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17296	$DPWMSIM_T	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17296	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17296	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	0.261	0.020	0.1	0.1	mg/L
CI17296	CLD-WM	Chloride	NY / TOGS - Water Quality / GA Criteria	278	15.0	250	250	mg/L
CI17296	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	1.59	0.01	0.3	0.3	mg/L
CI17296	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	1.75	0.005	0.3	0.3	mg/L
CI17296	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	132	1.0	20	20	mg/L
CI17297	$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CI17297	$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CI17297	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17297	$DPWMSIM_T	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17297	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17297	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17297	$DPWMSIM_T	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17297	$DPWMSIM_T	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17297	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17297	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17297	$DPWMSIM_T	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17297	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17297	$DPWMSIM_T	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17297	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	0.191	0.020	0.1	0.1	mg/L

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Criteria: NY: GW

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Sample Criteria Exceedances Report

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SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CI17297	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	0.86	0.01	0.3	0.3	mg/L
CI17297	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	0.418	0.005	0.3	0.3	mg/L
CI17297	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	21.6	0.10	20	20	mg/L
CI17302	$DP8260_TCL	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CI17302	$DP8260_TCL	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CI17302	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17302	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17302	$DPWMSIM_T	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17302	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17302	$DPWMSIM_T	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17302	$DPWMSIM_T	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CI17302	$DPWMSIM_T	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17302	$DPWMSIM_T	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17302	$DPWMSIM_T	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17302	$DPWMSIM_T	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17302	$DPWMSIM_T	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CI17302	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	3.66	0.020	0.1	0.1	mg/L
CI17302	DFE-WMDP	Iron, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	28.0	0.01	0.3	0.3	mg/L
CI17302	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	13.0	0.053	0.3	0.3	mg/L
CI17302	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	31.4	0.11	20	20	mg/L
CI17302	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	88.6	0.01	0.3	0.3	mg/L
CI17302	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	12.5	0.050	0.3	0.3	mg/L
CI17302	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	33.2	0.10	20	20	mg/L

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

June 25, 2021

SDG I.D.: GCI17289

The samples in this delivery group were received at 2.0°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

*use NYSDOT Pricing 1 of 2

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]
Temp 2° °C Pg 1 of 2

PHOENIX
Environmental Laboratories, Inc.

NY/NJ/PA CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[X] Phone: 631-348-7600
[X] Cell 631-236-7868
[X] Email: MCalifano@Ca-PC.com

Customer: Cashin Associates, P.C.
Address: 1200 Veterans Memorial Hwy Hauppauge, NY 11788

Project: NYSDOT Harrison Landfill Project P.O: D037853.01
Report to: Cashin Associates, P.C.
Invoice to: Cashin Associates, P.C.
QUOTE # : use NYSDOT Pricing

This section MUST be completed with Bottle Quantities.

Client Sample Information - Identification

Sampler's Signature: Marc Califano Date: 4/28/21

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	TCL VOC's	TCL SVOC's	Dissolved TAL metals*	Total Cyanide	Chloride	Total TAL metals	High Level VOC's	Low Level VOC's	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is 3 H2O	GL Amber 1000ml [ ] As is 3 HCl	PL As is [ ] 250ml [ ] As is [ ] H2SO4	PL H2SO4 [ ] 250ml [ ] 1500ml [ ] 1000ml	PL NaOH 250ml	PL HNO3 250ml	Bacteria Bottle as is	Bacteria Bottle PL120
17289	PC-1 4/27/21	GW	4/27/21	411	X	X	X	X	X	X							X	X	X		X		X	
17290	PC-2 4/27/21	GW	4/27/21	227	X	X	X	X	X	X							X	X	X		X		X	
17291	PC-3 4/28/21	GW	4/28/21	1047	X	X	X	X	X	X							X	X	X		X		X	
17292	LMW-2 4/27/21	GW	4/27/21	1043	X	X	X	X	X	X							X	X	X		X		X	
17293	LMW-4 4/27/21	GW	4/27/21	1235	X	X	X	X	X	X							X	X	X		X		X	
17294	SW-1 4/27/21	SW	4/27/21	950	X	X		X	X	X							X	X			X	X	X	
17295	SW-2 4/27/21	SW	4/27/21	1200	X	X		X	X	X							X	X			X	X	X	
17296	SW-3 4/27/21	SW	4/27/21	438	X	X		X	X	X							X	X			X	X	X	
17297	SW-4 4/28/21	SW	4/28/21	1145	X	X		X	X	X							X	X			X	X	X	
17298	SD-1 4/27/21	SE	4/27/21	1005		X		X	X	X	X	X			X	X								
17299	SD-2 4/27/21	SE	4/27/21	1212		X		X	X	X	X	X			X	X								

Relinquished by:	Accepted by:	Date:	Time:
Marc Califano		4/28/21	13:15
		4-28-21	1533

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[ ] 5 Days
[ ] 10 Days
[X] Other
* SURCHARGE APPLIES
STD

NJ
[ ] Res. Criteria
[ ] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] Impact to GW soil screen Criteria
[ ] GW Criteria

Data Package:
[ ] NJ Reduced Deliv. *
[ ] Other
[X] NY Enhanced (ASP B) *

NY
[X] TOGS GW
[ ] CP-51 SOIL
[ ] 375SCO Unrestricted Soil
[ ] 375SCO Residential Soil
[ ] 375SCO Residential Restricted Soil
[ ] 375SCO Commercial Soil
[ ] 375SCO Industrial Soil
[ ] Subpart 5 DW

PA
[ ] Clean Fill Limits
[ ] PA-GW
[ ] Reg Fill Limits
[ ] PA Soil Restricted
[ ] PA Soil non-restricted

State Samples Collected?

Comments, Special Requirements or Regulations:
*use NYSDOT Pricing
*Lab to filter sample for DiSSolved TAL metals

Data Format:
[X] Phoenix Std Report
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] NJ Hazsite EDD
[ ] NY EZ EDD (ASP)
[ ] Other

2 of 2 use NYSDOT Pricing

PHOENIX
Environmental Laboratories, Inc.

NY/NJ/PA CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]
Temp 2.0 °C Pg 2 of 2

Contact Options:
[X] Phone: 631-348-7600
[X] Cell 631-236-7868
[X] Email: MCalifano@Ca-PC.com

Customer: Cashin Associates, P.C.
Address: 1200 Veterans memorial Hwy Hauppauge, NY 11788

Project: NYSDOT Harrison Landfill
Report to: Cashin Associates, P.C.
Invoice to: Cashin Associates, P.C.
QUOTE # : use NYSDOT Pricing

Project P.O: D037853.11

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Marc Califano Date: 4/28/21

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
17300	SD-3 4/27/21	SE	4/27/21	457
17301	SD-4 4/28/21	SE	4/28/21	1155
17302	GW-DUP 4/27/21	GW	4/27/21	~~1111~~
** 17303	Field Blank 4/28/21	L	4/28/21	1207
* 17304	Trip Blank	L	/	/
*	Trip Blank only vocs per marc		RA	4/28/21

TCL VOC's; TCL SVOC's; Dissolved TAL metals*; Total Cyanide; Chloride; Total TAL metals; High Level VOC's; Low Level VOC's

GL Amber 8 oz. w/H3PO4; Soil VOA Vials [ ] methanol [2] H2O; GL Soil container (8) oz; GL Soil container ( ) oz; 40 ml VOA Vial [ ] As is [3] HCl; GL Amber 1000ml [2] As is [ ] H2SO4; PL As is [ ] 250ml [ ] 500ml [ ] 1000ml; PL H2SO4 [1] 250ml [ ] 500ml [ ] 1000ml; PL NaOH 250ml; PL HNO3 250ml; Bacteria Bottle as is

Relinquished by:	Accepted by:	Date:	Time:
		4/28/21	1515
		4-28-21	1533

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[ ] 5 Days
[ ] 10 Days
[X] Other
* SURCHARGE APPLIES
STD

NJ
[ ] Res. Criteria
[ ] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] Impact to GW soil screen Criteria
[ ] GW Criteria

NY
[X] TOGS GW
[ ] CP-51 SOIL
[ ] 375SCO Unrestricted Soil
[ ] 375SCO Residential Soil
[ ] 375SCO Residential Restricted Soil
[ ] 375SCO Commercial Soil
[ ] 375SCO Industrial Soil
[ ] Subpart 5 DW

PA
[ ] Clean Fill Limits
[ ] PA-GW
[ ] Reg Fill Limits
[ ] PA Soil Restricted
[ ] PA Soil non-restricted

State Samples Collected? _____

Comments, Special Requirements or Regulations:
* use NYSDOT Pricing
* Lab to filter sample for Dissolved TAL metals

Data Format:
[X] Phoenix Std Report [ ] EQuIS
[X] Excel [ ] NJ Hazsite EDD
[X] PDF [ ] NY EZ EDD (ASP)
[ ] GIS/Key [ ] Other

Data Package:
[ ] NJ Reduced Deliv. * [ ] Other
[X] NY Enhanced (ASP B) *

** NO 250ml Plastic As Is received (MJP)

Appendix B

Sampling Logs

GROUNDWATER SAMPLING LOG

Site Name: Harrison Landfill
Site Location: Harrison Subresidency, Harrison, NY
Date: 4/27/21
Purge Method: Whale Pump
Purge Start Time: 3:52 PM
Purge End Time: 4:10 PM
Well Casing Condition: Dummy lock on casing

Well/Sampling Point ID: PC-1
Well Diameter: 2”
Weather: 61°F Sunny

Water Level & Water Column Height (feet)

Depth to Water (DTW)	Depth to Well Bottom (DTB)	Water Column Height (DTB-DTW)	WELL CAPACITY (gal/ft):
3.45	16.73	13.28	2.12

Purge Volume Conversions

0.75”=0.02	1”=0.04	1.25”=0.06	2”=0.16	3”=0.37	4”=0.65	5”=1.02	6”=1.47	12”=5.88

*1 well volume = volume/linear foot x water column height

Well Purge Water Quality

VOLUME PURGED (gal)	PH	TEMP (°C)	COND (µmhos)	DO (mg/L)	TURB (FNUs)	ORP
3	7.57	11.07	1054	4.41	52.5	-36.6
6	7.27	10.20	1148	4.16	0.0	-43.5
9	7.22	10.31	1163	4.05	0.0	-49.5
Sample	7.60	10.92	1204	5.28	5.4	-1.4

Groundwater Sampling Data

SAMPLED BY:

Marc Califano & Rachel Lambert

SAMPLING METHOD:	SAMPLE COLLECTED AT:	REMARKS:
Dedicated bailer	4:11 PM	

ANALYSIS:

TCL VOCs, TCL SVOCs, TAL Metals (lab filtered), Cyanide, Chloride

GROUNDWATER SAMPLING LOG

Site Name: Harrison Landfill
Site Location: Harrison Subresidency, Harrison, NY
Date: 4/27/21
Purge Method: Whale Pump
Purge Start Time: 1:45 PM
Purge End Time: 2:26 PM
Well Casing Condition: Cut lock, bent riser

Well/Sampling Point ID: PC-2
Well Diameter: 2"
Weather: 61°F Sunny

Water Level & Water Column Height (feet)

Depth to Water (DTW)	Depth to Well Bottom (DTB)	Water Column Height (DTB-DTW)	WELL CAPACITY (gal/ft):
2.33	9.5	7.17	1.15

Purge Volume Conversions

0.75"=0.02	1"=0.04	1.25"=0.06	2"=0.16	3"=0.37	4"=0.65	5"=1.02	6"=1.47	12"=5.88

*1 well volume = volume/linear foot x water column height

Well Purge Water Quality

VOLUME PURGED (gal)	PH	TEMP (°C)	COND (µmhos)	DO (mg/L)	TURB (FNUs)	ORP
2	6.87	10.28	859	4.66	108	-74.5
4	6.56	9.86	742	4.57	44.3	-59.2
6	6.61	9.85	724	4.22	23.2	-66.1
Sample	6.86	10.48	721	4.65	85.1	-71.0

Groundwater Sampling Data

SAMPLED BY:

Marc Califano & Rachel Lambert

SAMPLING METHOD:	SAMPLE COLLECTED AT:	REMARKS:
Peristaltic Pump	2:27 PM	Blind Duplicate

ANALYSIS:

TCL VOCs, TCL SVOCs, TAL Metals (lab filtered), Cyanide, Chloride

GROUNDWATER SAMPLING LOG

Site Name: Harrison Landfill
Site Location: Harrison Subresidency, Harrison, NY
Date: 4/28/21
Purge Method: Whale Pump
Purge Start Time: 10:19 AM
Purge End Time: 10:45 AM
Well Casing Condition: Good; locked

Well/Sampling Point ID: PC-3
Well Diameter: 2"
Weather: 68° Sunny

Water Level & Water Column Height (feet)

Depth to Water (DTW)	Depth to Well Bottom (DTB)	Water Column Height (DTB-DTW)	WELL CAPACITY (gal/ft):
9.26	18.37	9.11	1.46

Purge Volume Conversions

0.75"=0.02	1"=0.04	1.25"=0.06	2"=0.16	3"=0.37	4"=0.65	5"=1.02	6"=1.47	12"=5.88

*1 well volume = volume/linear foot x water column height

Well Purge Water Quality

VOLUME PURGED (gal)	PH	TEMP (C)	COND (µmhos)	DO (mg/L)	TURB (FNUs)	ORP
4	6.73	9.23	898	4.46	51.1	145.1
7	6.76	8.98	938	4.27	10.1	83.1
10	6.74	8.97	1012	4.26	5.0	31.5
Sample	6.91	9.11	1076	4.92	82.3	7.4

Groundwater Sampling Data

SAMPLED BY:

Marc Califano & Rachel Lambert

SAMPLING METHOD:	SAMPLE COLLECTED AT:	REMARKS:
Dedicated bailer	10:47	

ANALYSIS:

TCL VOCs, TCL SVOCs, TAL Metals (lab filtered), Cyanide, Chloride

GROUNDWATER SAMPLING LOG

Site Name: Harrison Landfill
Site Location: Harrison Subresidency, Harrison, NY
Date: 4/27/21
Purge Method: Whale Pump
Purge Start Time: 9:44 AM
Purge End Time: 10:40 AM
Well Casing Condition: Good; locked

Well/Sampling Point ID: LMW-2
Well Diameter: 2"
Weather: 58°F Sunny

Water Level & Water Column Height (feet)

Depth to Water (DTW)	Depth to Well Bottom (DTB)	Water Column Height (DTB-DTW)	WELL CAPACITY (gal/ft):
9.87	20	10.22	1.635

Purge Volume Conversions

0.75"=0.02	1"=0.04	1.25"=0.06	2"=0.16	3"=0.37	4"=0.65	5"=1.02	6"=1.47	12"=5.88

*1 well volume = volume/linear foot x water column height

Well Purge Water Quality

VOLUME PURGED (gal)	PH	TEMP (C)	COND (µmhos)	DO (mg/L)	TURB (FNUs)	ORP
2.5	7.09	9.68	626	4.65	41.9	123.1
5	6.95	10.24	648	4.67	53.3	125.8
Sample	7.20	10.41	658	5.18	106	125.0

Groundwater Sampling Data

SAMPLED BY:

Marc Califano & Rachel Lambert

SAMPLING METHOD:	SAMPLE COLLECTED AT:	REMARKS:
Dedicated bailer	10:43 AM	Well slow to recharge

ANALYSIS:

TCL VOCs, TCL SVOCs, TAL Metals (lab filtered), Cyanide, Chloride

GROUNDWATER SAMPLING LOG

Site Name: Harrison Landfill
Site Location: Harrison Subresidency, Harrison, NY
Date: 4/27/21
Purge Method: Whale Pump
Purge Start Time: 11:50 AM
Purge End Time: 12:30 PM
Well Casing Condition: Good; cut lock

Well/Sampling Point ID: LMW-4
Well Diameter: 2"
Weather: 60°F Sunny

Water Level & Water Column Height (feet)

Depth to Water (DTW)	Depth to Well Bottom (DTB)	Water Column Height (DTB-DTW)	WELL CAPACITY (gal/ft):
2.76	12	9.24	1.48

Purge Volume Conversions

0.75"=0.02	1"=0.04	1.25"=0.06	2"=0.16	3"=0.37	4"=0.65	5"=1.02	6"=1.47	12"=5.88

*1 well volume = volume/linear foot x water column height

Well Purge Water Quality

VOLUME PURGED (gal)	PH	TEMP (C)	COND (µmhos)	DO (mg/L)	TURB (FNUs)	ORP
2	7.32	9.78	808	4.82	279	-83.8
4	6.70	8.88	820	4.52	111	-71.0
6	6.51	8.99	725	4.65	74.6	-55.0
Sample	6.65	10.29	649	5.32	190	-38.9

Groundwater Sampling Data

SAMPLED BY:

Marc Califano & Rachel Lambert

SAMPLING METHOD:	SAMPLE COLLECTED AT:	REMARKS:
Dedicated bailer	12:35 PM	

ANALYSIS:

TCL VOCs, TCL SVOCs, TAL Metals (lab filtered), Cyanide, Chloride

SOIL SAMPLING LOG

SITE NAME: Harrison Landfill

SITE LOCATION: Harrison, NY

WEATHER: Partly Cloudy, 55°F

Sample ID	Time	Depth (in)	Lat.	Long.	Date
SD-1	10:05 AM	4	41.06962	73.71482	4/27/2021
SD-2	12:12 PM	5	41.07018	73.71578	4/27/2021
SD-3	4:57 PM	4	41.06921	73.71629	4/27/2021
SD-4	11:55 AM	3	41.06995	73.71624	4/28/2021

Comments:

Sampled By: Marc Califano and Rachel Lambert

Sampling Method: Stainless steel ladle and dedicated soil sampling plunger

SURFACE WATER SAMPLING LOG

SITE NAME: Harrison Landfill
SITE LOCATION: Harrison, NY
WEATHER: Partly coudy, 55°F

Sample ID	Sample Time	Sample Depth (in)	Stream Depth (in)	Stream Width (in)	Temp °C	pH	Cond. (mS/cm)	Turbidity	DO (mg/L)	Flow	Latitude °N	Longitude °W	Date
SW-1	9:50 AM	3	3	127	9.84	7.78	357	16.4	5.94	0	41.06962	73.71482	4/27/2021
SW-2	12:00 PM	1	4	64	10.80	6.81	287	2.0	6.13	2.1	41.07018	73.71578	4/27/2021
SW-3	4:38 PM	3	3	110	16.29	7.31	1342	5.8	4.44	0	41.06921	73.71629	4/27/2021
SW-4	11:45 AM	3	4	49	13.91	7.54	334	0.0	6.30	1.5	41.06995	73.71624	4/28/2021

Comments: Organic sheen on surface water of SW-1 and SW-3

Sampled By: Marc Califano and Rachel Lambert

Sampling Method: Stainless Steel Ladle

Analysis: TCL VOCs, TCL SVOCs, TAL Metals, Cyanide, Chloride

GAS VENT SAMPLING LOG

SITE NAME: Harrison Landfill
SITE LOCATION: Harrison, NY
WEATHER: Sunny, 75°F
DATE: April 28, 2021

Sample ID	Time	PID (ppm)	FID (ppm)	CH_4 (%)	CO_2 (%)	O_2 (%)	H_2S (ppm)	CO (ppm)
GV-1	13:22	0.0	0.0	0.0	0.1	18.8	0.0	0.0
GV-2	13:24	0.0	0.0	0.0	0.1	19.7	0.0	0.0
GV-3	13:27	0.0	0.0	0.0	0.2	19.1	0.0	0.0
GV-4	13:31	0.0	0.0	0.0	0.2	19.6	0.0	0.0
Upwind Ambient Air	13:33	0.0	0.0	0.0	0.1	21.3	0.0	0.0
Downwind Ambient Air	13:35	0.0	0.0	0.0	0.2	21.4	0.0	0.0