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

November 28, 2022

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 August 2022 Monitoring Report**

**REF: Cashin Associates, P.C. PIN S000.19.101**
**Assignment No: D037853.16**
**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 August 2, 2022 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 March 23, 2022 and approved by NYSDOT on March 24, 2022. 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. No surface water sample was collected at on-site stream sample location SW-3; due to drought conditions, the stream was dry and there was no surface water at this location at the time of sampling.

## 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 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 (no sample)/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-1 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. 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. Caprolactam was detected in the field blank at 9.2 ug/L. 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 the GW-DUP sample, which was also taken from PC-1, which slightly exceeded the standard at 268 mg/L and 266 mg/L, respectively. Iron was detected at 23,200 ug/L in PC-2 and 32,100 ug/L in LMW-4 which exceeds the Class GA groundwater standard of 300 ug/L. Manganese exceeded the Class GA groundwater standard of 300 ug/L in three of the four downgradient wells (PC-1, PC-2, and LMW-4) at the following concentrations, respectively: 757 ug/L, 8,410 ug/L, 11,400 ug/L. The groundwater duplicate sample was also shown to exceed the Class GA groundwater standard for manganese at 732 ug/L which is comparable to sample PC-1. Sodium concentrations exceeded the Class GA standard in all five of the monitoring wells. Sodium was detected in LMW-2 at 22,000 ug/L, PC-1 at 152,000 ug/L, PC-2 at 38,600 ug/L, LMW-4 at 31,800 ug/L, and PC-3 at 97,600 ug/L. The groundwater duplicate sample result for sodium was reported at a similar concentration (150,000 ug/L) as PC-1.

The iron and manganese groundwater standards are both established for protection from aesthetic considerations. The sodium groundwater standard 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.



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**Surface Water Samples**

As noted above, samples were not taken from SW-3. Due to seasonal drought conditions, the location was dry and there was no water at this location.

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 down-gradient off site surface water sample SW-4 as shown in Table 2. SVOC's were not detected in surface water samples SW-1 and SW-2. Chloride was detected in low concentrations in surface water samples SW-1, SW-2, and SW-4, 4.8 mg/L, 5.8 mg/L and 6.3 mg/L, respectively. 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-2 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 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-2, and SW-4. Sodium was detected in all three samples but did not exceed 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 downgradient sample location SW-4. Sodium was also detected at the highest concentration at the this surface water station, SW-4. 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,



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calcium, chromium, cobalt, copper, lead, magnesium, nickel, potassium, vanadium, and zinc; however, none of these metals exceeded established criteria.

**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.

Two (2) VOC compounds were detected above the laboratory reporting limits but below the Class A SGV guidance values. Acetone was reported at .069 mg/kg in sediment sample SD-1. 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 .0084 mg/kg in sediment sample SD-1. There are no NYSDEC SGVs for these two VOC compounds. Trace amounts of SVOCs (specifically, Benz(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Fluoranthene, Phenanthrene and Pyrene) were detected above the laboratory reporting limits but below the SGVs within sediment sample SD-2 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. Cadmium was also detected at levels greater than the Class A SGVs in sediment sample SD-1 and SD-2. Additionally, lead was detected above the Class C SGV of 130 mg/kg in sediment sample SD-3 at 206 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 detected at low levels in the four gas vents. Methane (% $CH_4$) was detected in all but GV-4. Oxygen (% $O_2$) and carbon dioxide (% $CO_2$) readings were in the normal range for all but one gas vent. The use of a photoionization detector (PID) to measure volatile organic vapors was non-detect (0.0 ppm); the use of a flame ionization detector (FID) to measure hydrocarbons in the four gas vents had readings ranging from 1,750 ppm to 6,239 ppm. 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-1 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 August 2, 2022 at 2:40 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-1), and
$X_2$ is the duplicate value (GW-DUP)

For groundwater samples, the greatest calculated RPD was for Iron at 26%. Manganese also registered an elevated RPD of 3.5%. As a result, the manganese 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 field blank indicated presence of the SVOC caprolactam (9.2 ug/L). The trip blank was non-detect for VOCs and SVOCs. 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 the GW-DUP (PC-1) which slightly exceeded the standard at 268 mg/L and 266 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 in down-gradient off site surface water sample SW-4. Additionally, CA did observe organic sheens on the surface water during sample collection. SVOC's were not detected in surface water samples SW-1 and SW-2. Chloride was detected in low concentrations in surface water samples SW-1, SW-2, and SW-4, 4.8 mg/L, 5.8 mg/L and 6.3 mg/L, respectively. Cyanide was not detected in any of the surface water samples.

The highest aluminum, iron, and manganese surface water concentrations were detected at the downstream sample location SW-4 at 7,420 ug/L, 19,100 ug/L, and 8,960 ug/L, respectively. The highest concentration of sodium was found in downstream location SW-4 at 12,400 ug/L.



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In previous rounds of testing elevated levels were detected at the upstream sample location. The detection of these metals at the off-site, downgradient location may be attributable to any number of factors, including the extreme drought conditions experienced during the summer.

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 off-site downgradient during this round of sampling appears to be related to unique conditions and should be monitored.

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

**Sediment**

Two (2) VOC compounds were detected above the laboratory reporting limits but below the Class A SGV guidance values. Acetone was reported at .069 mg/kg in sediment sample SD-1. As noted, acetone is typically associated with laboratory contamination and is not a concern at the Site. Methyl ethyl ketone (MEK) was detected at a concentration of .0084 mg/kg in sediment sample SD-1. There are no NYSDEC SGVs for these two VOC compounds.

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, lead was also detected above the Class C SGV in sediment sample SD-3. Cadmium was also detected at levels greater than the Class A SGVs in sediment sample SD-1 and SD-2, Compared to the previous sampling rounds, overall metal concentrations have remained somewhat steady, within normal fluctuations.

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, after the next sampling round, 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) was detected at 1.0 ppm at the four gas vents, as well as in the upwind and downwind portions of the site. Hydrogen sulfide ($H_2S$) gases were detected at levels of 1.0 ppm, 3.0 ppm, 1.0 ppm and 2.0 ppm at gas vents 1-4, respectively. The levels were 1.0 ppm in the upwind and downwind portions of the site. Methane (% $CH_4$) levels were 5.4 ppm, 26.1 ppm, 0.0 ppm and 1.3 ppm at gas vents 1-4, respectively. Methane levels were 0.0 ppm upwind and



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downwind. Oxygen (% $O_2$) readings were in the normal range for GV-1, GV-3 and GV-4. The $O_2$ reading for GV-2 was 0.3%. Carbon dioxide readings (% $CO_2$) were 2.8, 12.9, 0.9 and 3.5 for locations 1-4, respectively.
Carbon dioxide (% $CO_2$) readings were in the normal range in the four gas vents. PID measuring hydrocarbons were also non-detect (0.0 ppm) in the four gas vents. FID readings from inside the vents ranged from 1,025 to 6,239. 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 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.

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 5th quarter monitoring round is anticipated to take place in November 2023.

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



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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: | 11.6 | 7.0 | 3.75 | 4.1 | 10.1 | 7.0 | NA | NA |
| 8/2/2022 | | Location: | upgradient background | downgradient | downgradient | downgradient | off-site downgradient | PC-1 Duplicate | DI Water | Sampling Cooler |
| | | Depth of Well: | 20 | 16.73 | 9.5 | 12.0 | 18.37 | 16.73 | DI Water | NA |
| **Analyte** | **Units** | **NYSDEC CLASS GA STD/GV[1]** | | | | | | | | |
| **Volatiles** | | | | | | | | | | |
| Toluene | ug/L | 5 | ND | ND | 0.33 J | ND | ND | ND | ND | ND |
| **SemiVolatiles** | | | | | | | | | | |
| Caprolactam | ug/L | NS | ND | ND | ND | ND | ND | ND | 9.2 | ND |
| **Metals (Dissolved)** | | | | | | | | | | |
| Mercury | ug/L | 0.7 | ND | ND | ND | ND | ND | ND | ND | NA |
| Aluminum | ug/L | 2,000 | ND | ND | ND | ND | ND | ND | ND | NA |
| Antimony | ug/L | 3 | ND | ND | ND | ND | ND | ND | ND | NA |
| Arsenic | ug/L | 25 | ND | ND | ND | 5 | ND | ND | ND | NA |
| Barium | ug/L | 1000 | 103 | 115 | 111 | 128 | 160 | 110 | ND | NA |
| Beryllium | ug/L | 3 | ND | ND | ND | ND | ND | ND | ND | NA |
| Cadmium | ug/L | 5 | ND | 1 | ND | ND | ND | ND | ND | NA |
| Calcium | ug/L | NS | 68,300 | 109,000 | 86,400 | 41,000 | 79,900 | 106,000 | 50 | NA |
| Chromium | ug/L | 50 | ND | ND | ND | ND | ND | ND | ND | NA |
| Cobalt | ug/L | NS | ND | ND | 1.0 J | 18 | ND | ND | ND | NA |
| Copper | ug/L | 200 | 3.0 J | 2 J | 1 J | ND | 1 J | 1 J | ND | NA |
| Iron | ug/L | 300 / 500[2] | ND | 100 | **23,200** | **32,100** | 20 | 130 | ND | NA |
| Lead | ug/L | 25 | ND | 1 J | 3 | 3 | ND | ND | ND | NA |
| Magnesium | ug/L | 35,000 | 24,100 | 15,900 | 20,500 | 17,800 | 20,500 | 15,500 | 10 | NA |
| Manganese | ug/L | 300 / 500[2] | 139 | **757** | **8,410** | **11,400** | 266 | **732** | 2.0 J | NA |
| Nickel | ug/L | 100 | 4 | 1.0 J | ND | 4 | ND | 1 J | ND | NA |
| Potassium | ug/L | NS | 3,600 | 3,900 | 5,200 | 3,400 | 6,700 | 3,800 | 0.0 J | NA |
| Selenium | ug/L | 10 | ND | ND | ND | ND | ND | 0.0 J | ND | NA |
| Silver | ug/L | 50 | ND | ND | ND | ND | ND | ND | ND | NA |
| Sodium | ug/L | 20,000 | **22,000** | **152,000** | **38,600** | **31,800** | **97,600** | **150,000** | 200 | NA |
| Thallium | ug/L | 0.5 | ND | ND | ND | ND | ND | ND | ND | NA |
| Vanadium | ug/L | NS | ND | 3 J | 1.0 J | ND | ND | ND | ND | NA |
| Zinc | ug/L | 2000 | 3 | 6 J | 3.0 J | 5 | ND | 2.0 J | 1 J | NA |
| Chloride | mg/L | 250 | 11.4 | **268** | 20.6 | 18.1 | 214 | **266** | 0.8 J | NA |
| Cyanide | mg/L | 200 | ND | ND | ND | ND | ND | ND | ND | NA |
| **Water Quality Parameters - At Time of Sampling** | | | | | | | | | | |
| pH | | | 6.78 | 7.21 | 6.7 | 6.75 | 7.21 | 7.21 | NA | NA |
| Temperature | Celsius | | 12.54 | 17.28 | 15.47 | 13.99 | 15.41 | 17.28 | NA | NA |
| Conductivity | ms/cm | | 0.507 | 1.313 | 0.748 | 0.631 | 0.862 | 1.313 | NA | NA |
| Dissolved Oxygen | mg/L | | 4.82 | 3.65 | 2.75 | 3.78 | 3.5 | 3.65 | NA | NA |
| Turbidity | NTUs | | 43.6 | 3.6 | 25 | 493 | 50 | 3.6 | 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**

| 8/2/2022 | | | Sample ID: | SW-1 | SW-2 | SW-3 | SW-4 | Field Blank |
|---|---|---|---|---|---|---|---|---|
| | | | Depth: | 0-4" | 0-3.5" | Dry | 0-3" | |
| Analyte | Units | NYSDEC Class GA GW Std.[7] | NYSDEC Class A Surface Water Std.[1] | | | | | |
| **Volatiles** | | | | | | | | |
| | ug/L | | | | | | | |
| **SemiVolatiles** | | | | | | | | |
| Benz(a)anthracene | ug/L | 0.002 | 0.002 [1], 0.03 [2], 0.23 [3] | ND | ND | | 0.04 | ND |
| Benzo(a)pyrene | ug/L | ND | 0.002 [1], .0012 [5] | ND | ND | | 0.05 | ND |
| Benzo(b)fluoranthene | ug/L | 0.002 | 0.002 [1] | ND | ND | | 0.06 | ND |
| Benzo(k)fluoranthene | ug/L | 0.002 | 0.002 [1] | ND | ND | | 0.06 | ND |
| Chrysene | ug/L | 0.002 | 0.002 [1] | ND | ND | | 0.06 | ND |
| Indeno(1,2,3-cd)pyrene | ug/L | 0.002 | 0.002 [1] | ND | ND | | 0.06 | 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 |
| Aluminum | ug/L | NS | 100[2] | 71 | 653 | | **7,420** | ND |
| Antimony | ug/L | 3 | 3[1] | 0.8 J | ND | | ND | ND |
| Arsenic | ug/L | 25 | 50[1], 150[2], 340[3] | ND | ND | | 3.0 J | ND |
| Barium | ug/L | 1,000 | 1,000[1] | 26 | 34 | | 190 | ND |
| Beryllium | ug/L | 3 | 3[1] | ND | ND | | ND | ND |
| Cadmium | ug/L | 5 | 5[1] | ND | ND | | 1.0 J | ND |
| Calcium | ug/L | NS | NS | 47,700 | 46,900 | | 52,700 | ND |
| Chromium | ug/L | 50 | 50[1] | ND | 1.0 | | 15 | ND |
| Cobalt | ug/L | NS | 5[2] | ND | 1.0 J | | 7.0 | ND |
| Copper | ug/L | 200 | 200[1] | ND | 2.0 J | | **14** | ND |
| Iron | ug/L | 300/500[8] | 300[2,4] | **480** | **2,680** | | **19,100** | ND |
| Lead | ug/L | 25 | 50[1] | ND | 3.0 | | 22 | ND |
| Magnesium | ug/L | 35,000 | 35,000[1] | 12,900 | 12,600 | | 14,200 | ND |
| Manganese | ug/L | 300/500[8] | 300[4] | **971** | **1,140** | | **8,960** | ND |
| Nickel | ug/L | 100 | 100[1] | ND | 1.0 J | | 15 | ND |
| Potassium | ug/L | NS | NS | 2,700 | 2,900 | | 3,600 | ND |
| Selenium | ug/L | 10 | 10[1], 4.6[2] | ND | ND | | ND | ND |
| Silver | ug/L | 50 | 50[1] | ND | ND | | ND | ND |
| Sodium | ug/L | 20,000 | NS | 9,020 | 11,000 | | 12,400 | ND |
| Thallium | ug/L | 0.5 | 0.5[1], 8[2] | ND | ND | | ND | ND |
| Vanadium | ug/L | NS | 14[2] | 3 | 5.0 J | | 21 | ND |
| Zinc | ug/L | 2,000 | 2,000[1], 5,000[4] | ND | 11 | | 81 | ND |
| Chloride | mg/L | 250 | 250,000[1] | 4.8 | 5.8 | | 6.3 | 0.8 J |
| Cyanide | mg/L | 200 | 200[1], 9000[5], 5.2[2], 22[3] | ND | ND | | ND | ND |
| **Water Quality Parameters - At Time of Sampling** | | | | | | | | |
| pH | | | | 7.27 | 7.71 | | 7.51 | NA |
| Temperature | Celsius | | | 17.97 | 19.47 | | 21.29 | NA |
| Conductivity | ms/cm | | | 290 | 65 | | 75 | NA |
| Dissolved Oxygen | mg/L | | | 5.16 | 5.52 | | 3.48 | NA |
| Turbidity | NTUs | | | 0.0 | 6.1 | | 0.0 | NA |
| Flow | CFS | | | 0 | 1 | | 0.25 | 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]

[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**

| 8/2/2022 | | | **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 | 0.02 J | ND | ND | ND |
| Aluminum | mg/Kg | NS | NS | 8,570 | 6,160 | 19,000 | 3,280 |
| Antimony | mg/Kg | NS | NS | ND | ND | ND | ND |
| Arsenic | mg/Kg | 10 | 33 | 1.13 | 1.7 | 4.2 | ND |
| Barium | mg/Kg | NS | NS | 58.9 | 64.4 | 118 | 45.9 |
| Beryllium | mg/Kg | NS | NS | 0.25 J | ND | 0.74 | ND |
| Cadmium | mg/Kg | 1 | 5 | **1.12** | **1.41** | **4.26** | 0.89 |
| Calcium | mg/Kg | NS | NS | 1,840 | 48,800 | 12,200 | 8,050 |
| Chromium | mg/Kg | 43 | 110 | 17.9 | 9.57 | 33.6 | 7.2 |
| Cobalt | mg/Kg | NS | NS | 7.43 | 6.49 | 12.6 | 3.15 |
| Copper | mg/Kg | 32 | 150 | 13.4 * | 16.6 * | **50** | 4.5* |
| Iron | mg/Kg | NS | NS | 18,700 | 20,300 | 20,000 | 9,310 |
| Lead | mg/Kg | 36 | 130 | 7.9 | 14.8 | **206** | 4.7 |
| Magnesium | mg/Kg | NS | NS | 3,090 | 28,100 | 5,940 | 5,320 |
| Manganese | mg/Kg | NS | NS | 328 N * | 2,420 N * | 865 N * | 1,210 N * |
| Nickel | mg/Kg | 23 | 49 | 11.7 | 11.2 | **36.2** | 7.12 |
| Potassium | mg/Kg | NS | NS | 1,830 N | 1,320 N | 2020 N | 461 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 | 101 N | 139 N | 740 N | 64 |
| Thallium | mg/Kg | NS | NS | ND | ND | ND | ND |
| Vanadium | mg/Kg | NS | NS | 27.1 | 16.6 | 50.7 | 9.44 |
| Zinc | mg/Kg | 120 | 460 | 40 | 52.4 | **183** | 25.7 |
| Chloride | mg/Kg | NS | NS | ND | ND | 464 | ND |
| Cyanide | mg/Kg | NS | 27 | 0.36 J | 0.75 J | 1.09 J | 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 | .069 S | ND | ND | ND |
| Methyl ethyl ketone (MEK) | NS | NS | .0084 J | ND | ND | ND |
| **Semi-Volatiles** | | | | | | |
| Benz(a)anthracene | 16.82 | 16.82 | ND | 0.220 J | ND | ND |
| Benzo(a)pyrene | 19.28 | 19.28 | ND | 0.210 J | ND | ND |
| Benzo(b)fluoranthene | 19.58 | 19.58 | ND | ND | ND | ND |
| Benzo(ghi)perylene | 21.9 | 21.9 | ND | ND | ND | ND |
| Benzo(k)fluoranthene | 19.6 | 19.6 | ND | ND | ND | ND |
| Chrysene | 16.86 | 16.86 | ND | 0.240 J | ND | ND |
| Fluoranthene | 14.16 | 14.16 | ND | 0.600 | .410 J | ND |
| Phenanthrene | 11.94 | 11.94 | ND | 0.610 | ND | ND |
| Pyrene * | 13.96 | 13.96 | ND | 0.580 | 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) | $CO_2$ (%) | $O_2$ (%) | $H_2S$ (ppm) | CO (ppm) |
|---|---|---|---|---|---|---|---|
| **GV-1** | 0.0 | 6239 | 5.4 | 2.8 | 16.4 | 1 | 1 |
| **GV-2** | 0.0 | 1750 | 26.1 | 12.9 | 0.3 | 3 | 1 |
| **GV-3** | 0.0 | 1025 | 0.0 | 0.9 | 18.6 | 1 | 1 |
| **GV-4** | 0.0 | 4436 | 1.3 | 3.5 | 17.2 | 2 | 1 |
| **Upwind Ambient Air** | 0.0 | 0.3 | 0.0 | 0.0 | 20.1 | 1 | 1 |
| **Downwind Ambient Air** | 0.0 | 0.0 | 0.0 | 0.0 | 19.9 | 1 | 1 |

Notes:
ppm – parts per million

Weather: 87º, Mostly Sunny, Wind SSW
(8/2/2022)



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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 | 8/2/2022 |
|---|---|---|---|---|---|---|
| **SW-1** | ND | ND | ND | ND | ND | ND |
| **SW-2** | ND | ND | ND | ND | ND | ND |
| **SW-3** | ND | * | ND | ND | ND | - |
| **SW-4** | ND | ND | ND | ND | ND | 1 J |
| **SD-1** | ND | ND | ND | 2.3 | 0.93 | 1.12 |
| **SD-2** | ND | ND | ND | 0.86 | 0.65 | 1.41 |
| **SD-3** | 2.6 | * | 1.2 | 2.1 | 2.37 | 4.26 |
| **SD-4** | ND | ND | 1.9 | 0.99 | 0.53 | 0.89 |

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 | 8/2/2022 |
|---|---|---|---|---|---|---|
| **SW-1** | ND | ND | ND | 3 | 4 J | ND |
| **SW-2** | ND | ND | ND | ND | ND | 2 J |
| **SW-3** | ND | * | ND | ND | 2 J | - |
| **SW-4** | ND | ND | ND | ND | 1 J | 14 |
| **SD-1** | 50 | 54 | 15 | 39.1 | 12 | 13.4 |
| **SD-2** | 97 | 80 | 45 | 22.1 | 11.6 | 16.6 |
| **SD-3** | 46 | * | 45 | 36.3 | 45 | 50.0 |
| **SD-4** | 11 | 11 | 45 | 15.1 | 5.8 | 4.5 |

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 | 8/2/2022 |
|---|---|---|---|---|---|---|
| **SW-1** | 200 | 1,400 | 1,800 | 26,700 | 15,100 | 480 |
| **SW-2** | ND | 650 | 330 | 390 | 470 | 2,680 |
| **SW-3** | 310 | * | 1200 | 580 | 1,590 | - |
| **SW-4** | 180 | 980 | 20000 | 260 | 860 | 19,100 |
| **SD-1** | 43,000 | 78,000 | 31,000 | 36,900 | 25,700 | 18,700 |
| **SD-2** | 110,000 | 110,000 | 34,000 | 20,800 | 18,300 | 20,300 |
| **SD-3** | 43,000 | * | 35000 | 20,300 | 25,100 | 20,000 |
| **SD-4** | 20,000 | 27,000 | 44,000 | 24,100 | 13,200 | 9,310 |

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 | 8/2/2022 |
|---|---|---|---|---|---|---|
| **SW-1** | ND | ND | ND | 6 | 6 | ND |
| **SW-2** | ND | ND | ND | ND | ND | 3 |
| **SW-3** | ND | * | ND | ND | 6 | - |
| **SW-4** | ND | ND | 24 | ND | 1 J | 22 |
| **SD-1** | 29 | 52 | 21 | 40.2 | 13.4 | 7.9 |
| **SD-2** | 120 | 100 | 51 | 13.8 | 18.4 | 14.8 |
| **SD-3** | 91 | * | 150 | 120 | 122 | 206 |
| **SD-4** | 13 | 13 | 73 | 32 | 10.3 | 4.7 |

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 | 8/2/2022 |
|---|---|---|---|---|---|---|
| **SW-1** | 400 | 1,300 | 1,500 | 16,100 | 3,880 | 971 |
| **SW-2** | 25 | 370 | 280 | 262 | 230 | 1,140 |
| **SW-3** | 280 | * | 1100 | 554 | 1,750 | - |
| **SW-4** | 60 | 700 | 4600 | 99 | 418 | 8,960 |
| **SD-1** | 110 | 5,800 | 17,000 | 15,000 | 9,180 | 328 N* |
| **SD-2** | 41,000 | 52,000 | 18,000 | 2,550 | 2,690 | 2,420 N* |
| **SD-3** | 870 | * | 430 | 797 | 651 | 865 N* |
| **SD-4** | 1,100 | 1,900 | 1,300 | 1,110 | 1,830 | 1,210 N* |

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 | 8/2/2022 |
|---|---|---|---|---|---|---|
| **SW-1** | ND | ND | ND | ND | 4 J | ND |
| **SW-2** | ND | ND | ND | ND | ND | 1 J |
| **SW-3** | ND | * | ND | ND | 2 J | - |
| **SW-4** | ND | ND | ND | ND | ND | 15 |
| **SD-1** | 40 | 47 | ND | 25.6 | 12.5 | 11.7 |
| **SD-2** | 65 | 45 | ND | 11.9 | 143 | 11.2 |
| **SD-3** | 39 | * | 35 | 22.2 | 23.7 | 36.2 |
| **SD-4** | 18 | 22 | 30 | 25 | 8.43 | 7.12 |

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 | 8/2/2022 |
|---|---|---|---|---|---|---|
| **SW-1** | ND | ND | ND | 45 | 20 | ND |
| **SW-2** | ND | ND | ND | 2 | ND | 111 |
| **SW-3** | ND | * | ND | ND | 12 | - |
| **SW-4** | ND | ND | 110 | ND | 3 J | 81 |
| **SD-1** | 130 | 180 | 69 | 137 | 55.8 | 40.0 |
| **SD-2** | 590 | 520 | 260 | 58.8 | 79.5 | 52.4 |
| **SD-3** | 170 | * | 200 | 131 | 137 | 183 |
| **SD-4** | 84 | 81 | 260 | 89.5 | 42.2 | 25.7 |

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

Cashin Associates, P.C.
ENGINEERING • PLANNING • CONSTRUCTION MANAGEMENT

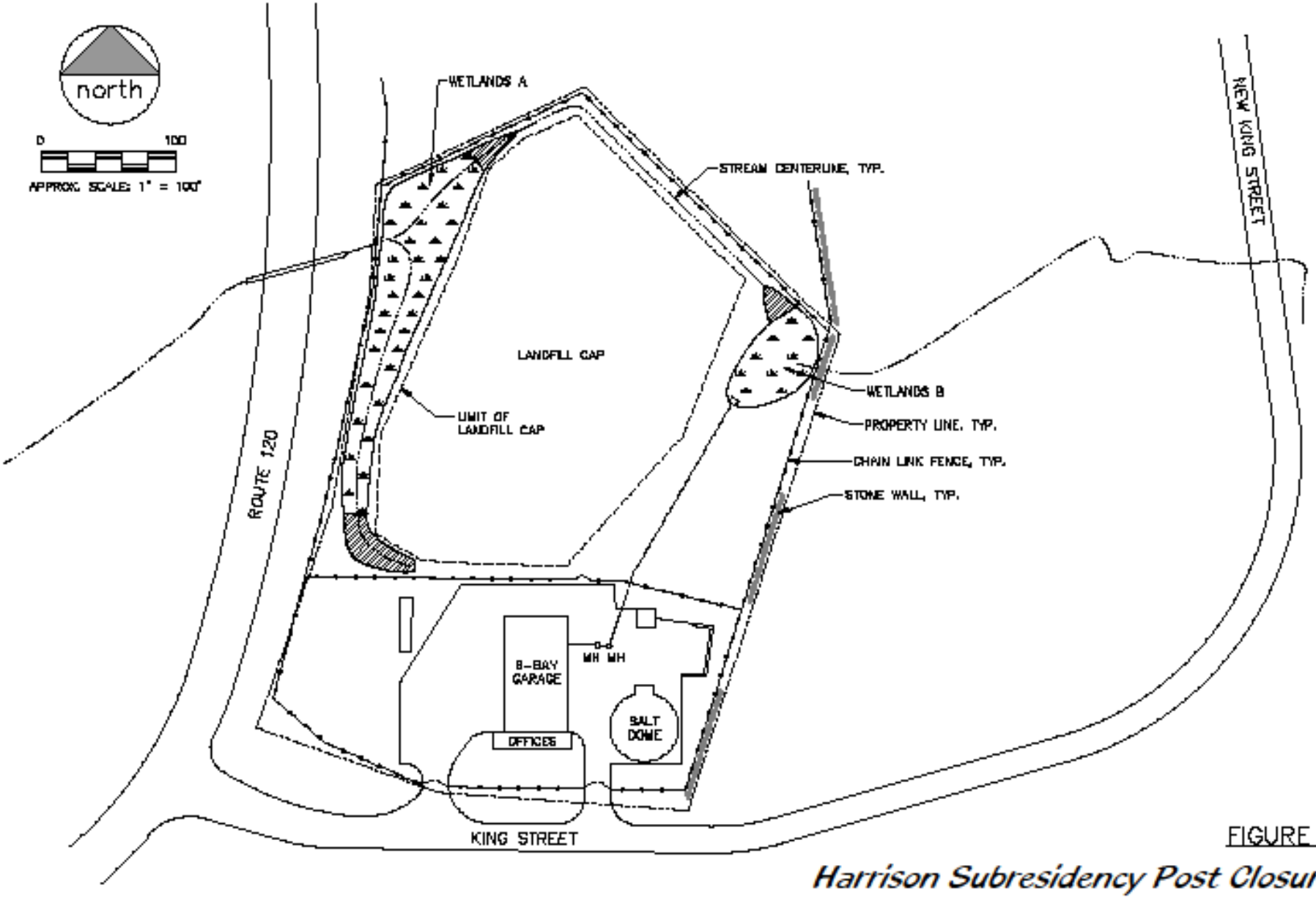


FIGURE 2

*Harrison Subresidency Post Closure*
*Quarterly Monitoring Report*
*Site Map*

NYSDOT PIN: 8806.51.101

Cashin Associates, P.C.
ENGINEERING • PLANNING • CONSTRUCTION MANAGEMENT

1001.003

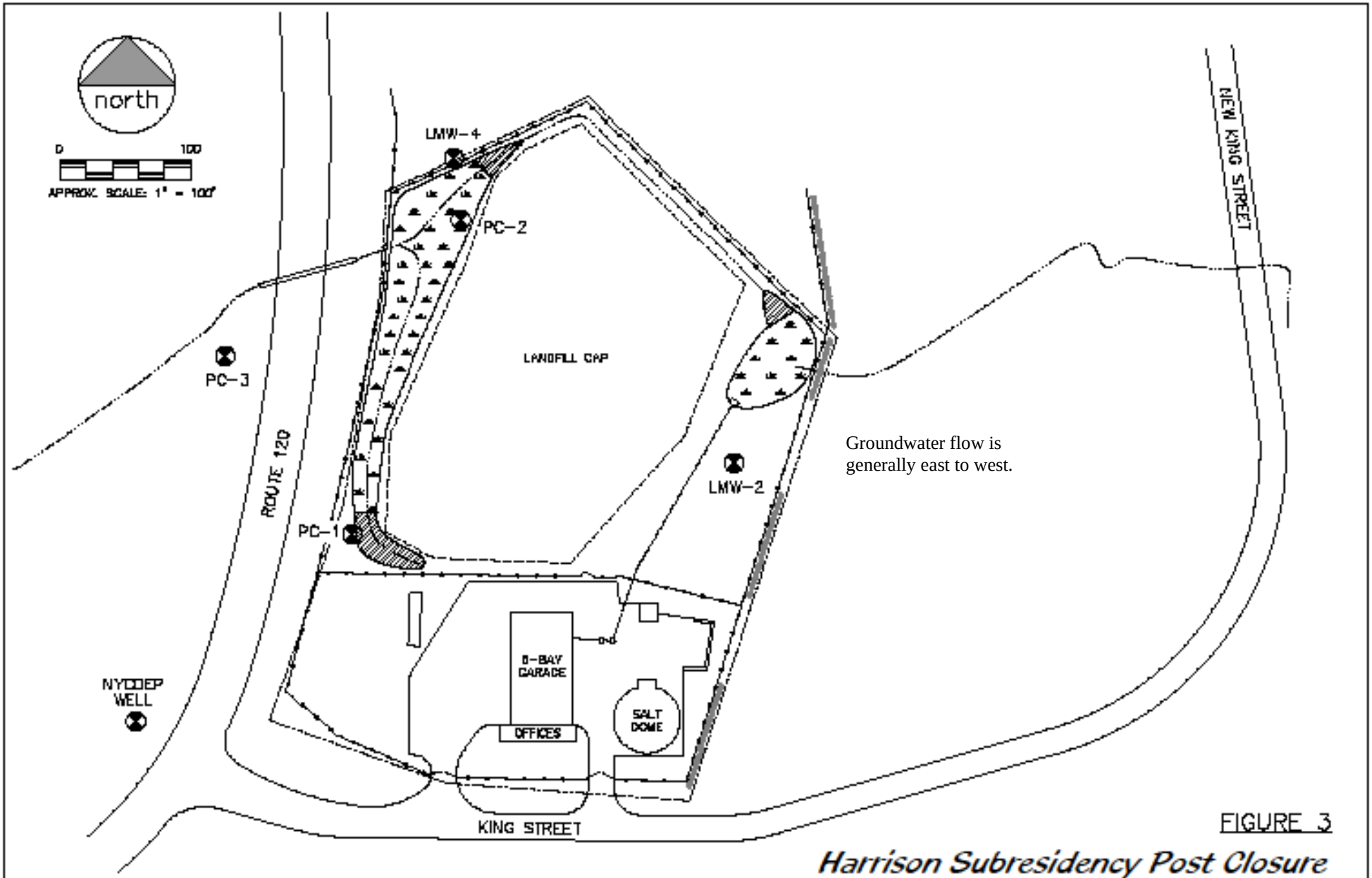


FIGURE 3

*Harrison Subresidency Post Closure*
*Quarterly Monitoring Report*
*Groudwater Monitoring Well Locations*

NYSDOT PIN: 8806.51.101

Cashin Associates, P.C.
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1001.003

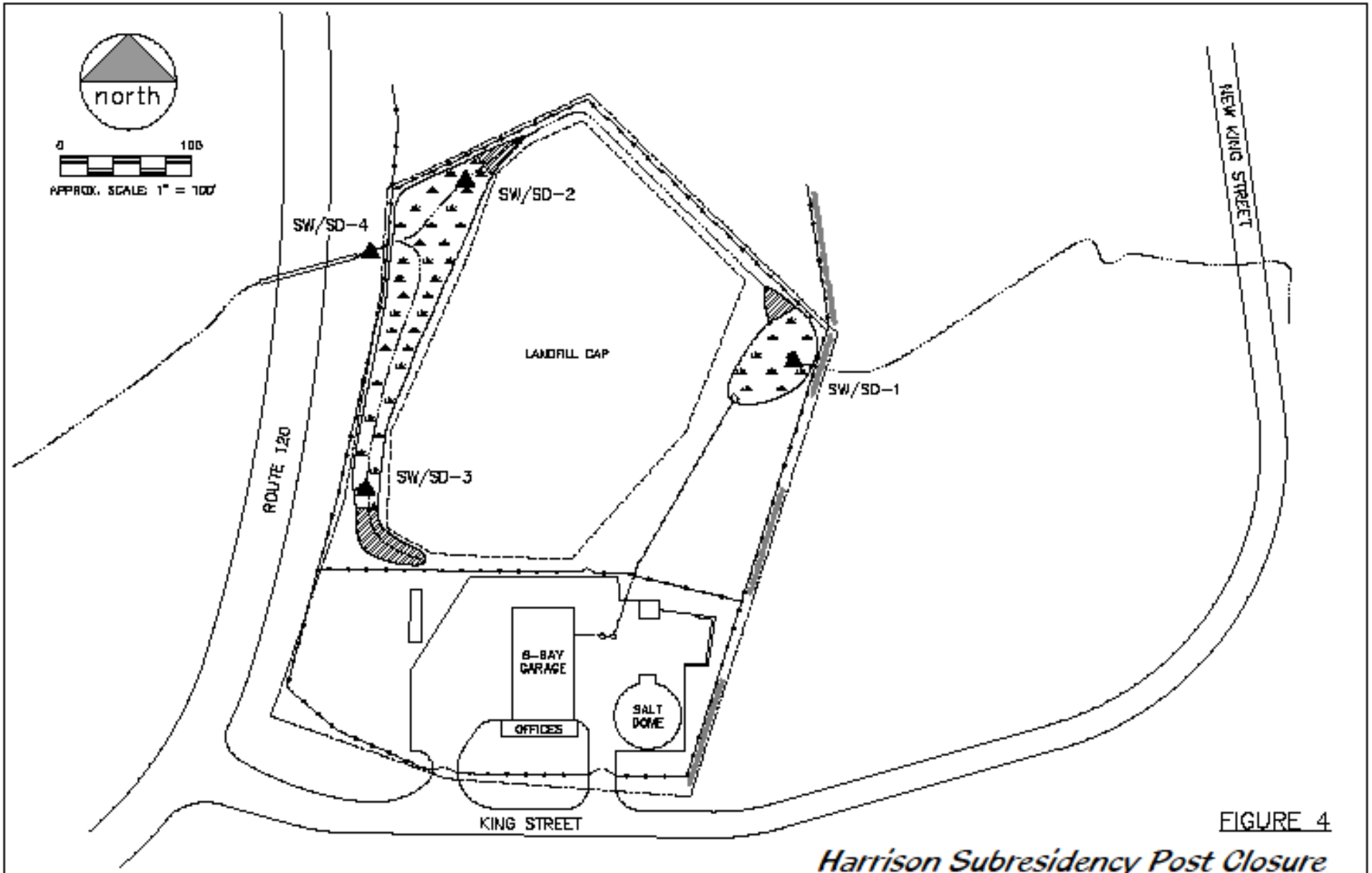


FIGURE 4

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

NYSDOT PIN: 8806.51.101

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1001.003

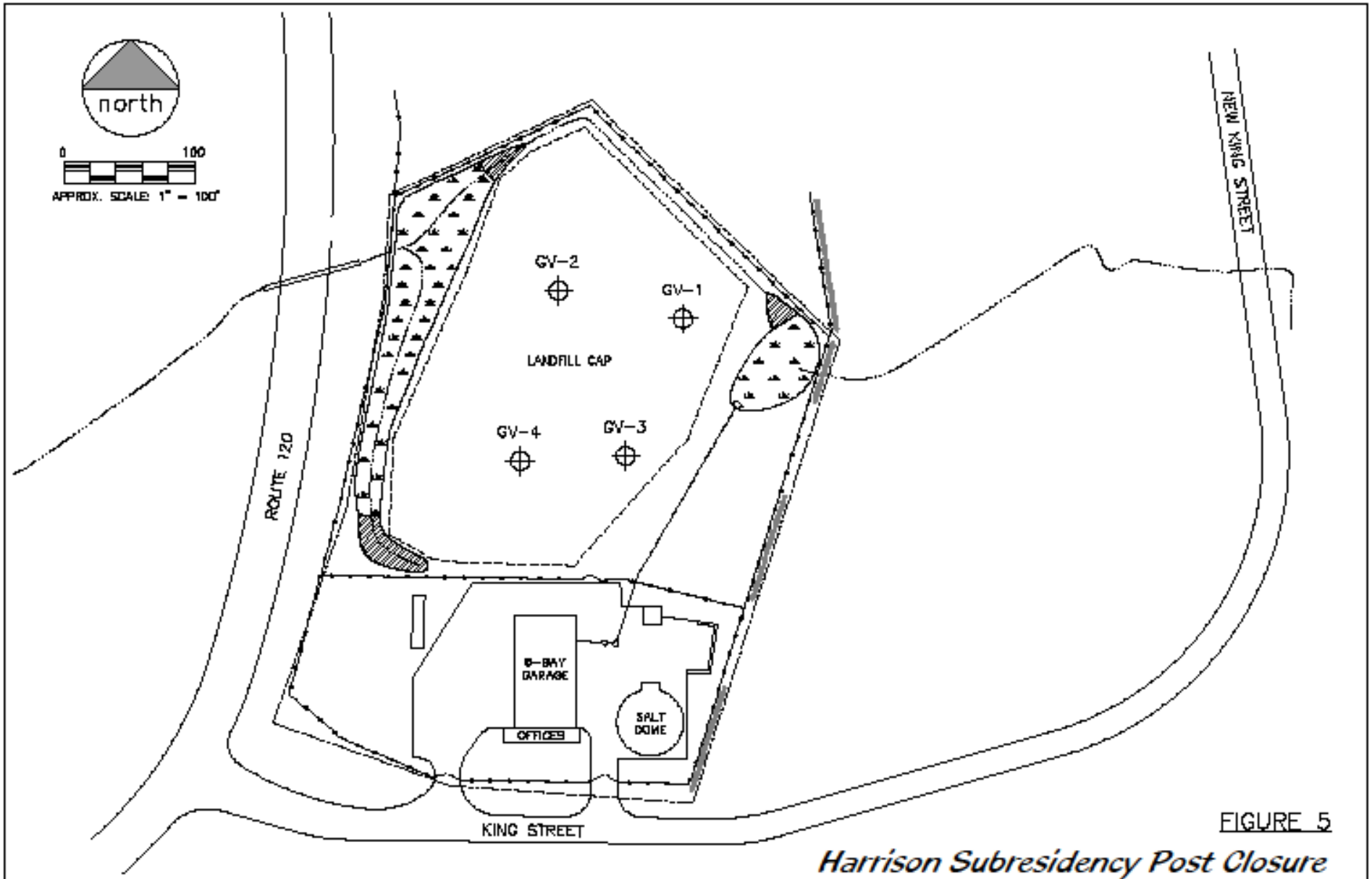


FIGURE 5

*Harrison Subresidency Post Closure*
*Quarterly Monitoring Report*
*Gas Vent Locations*

NYSDOT PIN: 8806.51.101

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1001.003

# Appendix A

## Analytical Data



1200 Veterans Memorial Highway • Hauppauge, NY 11788 • (631) 348-7600 • FAX (631) 348-7601

PHOENIX
Environmental Laboratories, Inc.

**Thursday, September 08, 2022**

**Attn: Paul J. DiMaria, PE**
**Cashin Associates, PC**
**1200 Veterans Memorial Highway**
**Hauppauge, NY 11788**

**Project ID:** HARRISON LANDFILL
**SDG ID:** GCL97028
**Sample ID#s:** CL97028 - CL97042

**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**
**VT Lab Registration #VT11301**

**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 ANALYTICAL SERVICES PROTOCOL
# DATA PACKAGE

**Client: Cashin Associates, PC**

**Project: HARRISON LANDFILL**

**Laboratory Project: GCL97028**

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

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# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC 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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**Tel. (860) 645-1102 Fax (860) 645-0823**

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# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

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.

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

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# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

## Laboratory Chronicle

**The samples in this delivery group were received at 1.0°C.**

| Sample | Analysis | Collection Date | Prep Date | Analysis Date | Analyst | Hold Time Met |
|---|---|---|---|---|---|---|
| CL97028 | 1,4-dioxane | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97028 | Aluminum | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97028 | Aluminum (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Antimony | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |
| CL97028 | Antimony (Dissolved)-LDL | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97028 | Arsenic - LDL | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97028 | Arsenic, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Barium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97028 | Barium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Beryllium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97028 | Beryllium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Cadmium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97028 | Cadmium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Calcium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97028 | Calcium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Chloride | 08/02/22 | 08/04/22 | 08/04/22 | CL | Y |
| CL97028 | Chromium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97028 | Chromium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Cobalt | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97028 | Cobalt, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Copper | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97028 | Copper, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Iron | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97028 | Iron, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Lead | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97028 | Lead (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Magnesium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97028 | Magnesium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Manganese | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97028 | Manganese, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Mercury | 08/02/22 | 08/05/22 | 08/05/22 | MGH | Y |
| CL97028 | Mercury (Dissolved) | 08/02/22 | 08/04/22 | 08/05/22 | MGH | 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

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

| | | | | | | |
|---|---|---|---|---|---|---|
| CL97028 | Nickel | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97028 | Nickel, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Potassium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97028 | Potassium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Selenium | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |
| CL97028 | Selenium (Dissolved)-LDL | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97028 | Semivolatiles | 08/02/22 | 08/04/22 | 08/08/22 | WB | Y |
| CL97028 | Silver | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97028 | Silver (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Sodium | 08/02/22 | 08/05/22 | 08/09/22 | EK | Y |
| CL97028 | Sodium (Dissolved) | 08/02/22 | 08/03/22 | 08/10/22 | EK | Y |
| CL97028 | Thallium | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |
| CL97028 | Thallium (Dissolved) | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97028 | Total Cyanide | 08/02/22 | 08/09/22 | 08/09/22 | CL/GD | Y |
| CL97028 | Vanadium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97028 | Vanadium, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97028 | Volatiles | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97028 | Zinc | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97028 | Zinc, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | 1,4-dioxane | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97029 | Aluminum | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97029 | Aluminum (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | Antimony | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |
| CL97029 | Antimony (Dissolved)-LDL | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97029 | Arsenic - LDL | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97029 | Arsenic, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | Barium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97029 | Barium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | Beryllium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97029 | Beryllium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | Cadmium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97029 | Cadmium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | Calcium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97029 | Calcium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | Chloride | 08/02/22 | 08/04/22 | 08/04/22 | CL | Y |
| CL97029 | Chromium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97029 | Chromium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |

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# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

| | | | | | | |
|---|---|---|---|---|---|---|
| CL97029 | Cobalt | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97029 | Cobalt, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | Copper | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97029 | Copper, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | Iron | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97029 | Iron, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | Lead | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97029 | Lead (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | Magnesium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97029 | Magnesium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | Manganese | 08/02/22 | 08/05/22 | 08/09/22 | EK | Y |
| CL97029 | Manganese, (Dissolved) | 08/02/22 | 08/03/22 | 08/10/22 | EK | Y |
| CL97029 | Mercury | 08/02/22 | 08/05/22 | 08/05/22 | MGH | Y |
| CL97029 | Mercury (Dissolved) | 08/02/22 | 08/04/22 | 08/05/22 | MGH | Y |
| CL97029 | Nickel | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97029 | Nickel, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | Potassium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97029 | Potassium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | Selenium | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |
| CL97029 | Selenium (Dissolved)-LDL | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97029 | Semivolatiles | 08/02/22 | 08/04/22 | 08/08/22 | WB | Y |
| CL97029 | Silver | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97029 | Silver (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | Sodium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97029 | Sodium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | Thallium | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |
| CL97029 | Thallium (Dissolved) | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97029 | Total Cyanide | 08/02/22 | 08/09/22 | 08/09/22 | CL/GD | Y |
| CL97029 | Vanadium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97029 | Vanadium, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97029 | Volatiles | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97029 | Zinc | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97029 | Zinc, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | 1,4-dioxane | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97030 | Aluminum | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97030 | Aluminum (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | Antimony | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |

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# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

| | | | | | | |
|---|---|---|---|---|---|---|
| CL97030 | Antimony (Dissolved)-LDL | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97030 | Arsenic - LDL | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97030 | Arsenic, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | Barium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97030 | Barium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | Beryllium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97030 | Beryllium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | Cadmium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97030 | Cadmium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | Calcium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97030 | Calcium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | Chloride | 08/02/22 | 08/04/22 | 08/04/22 | CL | Y |
| CL97030 | Chromium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97030 | Chromium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | Cobalt | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97030 | Cobalt, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | Copper | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97030 | Copper, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | Iron | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97030 | Iron, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | Lead | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97030 | Lead (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | Magnesium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97030 | Magnesium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | Manganese | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97030 | Manganese, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | Mercury | 08/02/22 | 08/05/22 | 08/05/22 | MGH | Y |
| CL97030 | Mercury (Dissolved) | 08/02/22 | 08/04/22 | 08/05/22 | MGH | Y |
| CL97030 | Nickel | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97030 | Nickel, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | Potassium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97030 | Potassium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | Selenium | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |
| CL97030 | Selenium (Dissolved)-LDL | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97030 | Semivolatiles | 08/02/22 | 08/04/22 | 08/08/22 | WB | Y |
| CL97030 | Silver | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97030 | Silver (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |

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# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

| | | | | | | |
|---|---|---|---|---|---|---|
| CL97030 | Sodium | 08/02/22 | 08/05/22 | 08/09/22 | EK | Y |
| CL97030 | Sodium (Dissolved) | 08/02/22 | 08/03/22 | 08/10/22 | EK | Y |
| CL97030 | Thallium | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |
| CL97030 | Thallium (Dissolved) | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97030 | Total Cyanide | 08/02/22 | 08/09/22 | 08/09/22 | CL/GD | Y |
| CL97030 | Vanadium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97030 | Vanadium, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97030 | Volatiles | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97030 | Zinc | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97030 | Zinc, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | 1,4-dioxane | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97031 | Aluminum | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97031 | Aluminum (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Antimony | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |
| CL97031 | Antimony (Dissolved)-LDL | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97031 | Arsenic - LDL | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97031 | Arsenic, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Barium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97031 | Barium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Beryllium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97031 | Beryllium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Cadmium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97031 | Cadmium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Calcium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97031 | Calcium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Chloride | 08/02/22 | 08/04/22 | 08/04/22 | CL | Y |
| CL97031 | Chromium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97031 | Chromium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Cobalt | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97031 | Cobalt, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Copper | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97031 | Copper, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Iron | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97031 | Iron, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Lead | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97031 | Lead (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Magnesium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |

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# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

| | | | | | | |
|---|---|---|---|---|---|---|
| CL97031 | Magnesium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Manganese | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97031 | Manganese, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Mercury | 08/02/22 | 08/05/22 | 08/05/22 | MGH | Y |
| CL97031 | Mercury (Dissolved) | 08/02/22 | 08/04/22 | 08/05/22 | MGH | Y |
| CL97031 | Nickel | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97031 | Nickel, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Potassium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97031 | Potassium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Selenium | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |
| CL97031 | Selenium (Dissolved)-LDL | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97031 | Semivolatiles | 08/02/22 | 08/04/22 | 08/08/22 | WB | Y |
| CL97031 | Silver | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97031 | Silver (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Sodium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97031 | Sodium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Thallium | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |
| CL97031 | Thallium (Dissolved) | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97031 | Total Cyanide | 08/02/22 | 08/09/22 | 08/09/22 | CL/GD | Y |
| CL97031 | Vanadium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97031 | Vanadium, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97031 | Volatiles | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97031 | Zinc | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97031 | Zinc, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | 1,4-dioxane | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97032 | Aluminum | 08/02/22 | 08/05/22 | 08/09/22 | EK | Y |
| CL97032 | Aluminum (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | Antimony | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |
| CL97032 | Antimony (Dissolved)-LDL | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97032 | Arsenic - LDL | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97032 | Arsenic, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | Barium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97032 | Barium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | Beryllium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97032 | Beryllium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | Cadmium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97032 | Cadmium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |

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# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

| | | | | | | |
|---|---|---|---|---|---|---|
| CL97032 | Calcium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97032 | Calcium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | Chloride | 08/02/22 | 08/04/22 | 08/04/22 | CL | Y |
| CL97032 | Chromium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97032 | Chromium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | Cobalt | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97032 | Cobalt, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | Copper | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97032 | Copper, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | Iron | 08/02/22 | 08/05/22 | 08/09/22 | EK | Y |
| CL97032 | Iron, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | Lead | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97032 | Lead (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | Magnesium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97032 | Magnesium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | Manganese | 08/02/22 | 08/05/22 | 08/09/22 | EK | Y |
| CL97032 | Manganese, (Dissolved) | 08/02/22 | 08/03/22 | 08/10/22 | EK | Y |
| CL97032 | Mercury | 08/02/22 | 08/05/22 | 08/05/22 | MGH | Y |
| CL97032 | Mercury (Dissolved) | 08/02/22 | 08/04/22 | 08/05/22 | MGH | Y |
| CL97032 | Nickel | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97032 | Nickel, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | Potassium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97032 | Potassium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | Selenium | 08/02/22 | 08/08/22 | 08/15/22 | TH | Y |
| CL97032 | Selenium (Dissolved)-LDL | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97032 | Semivolatiles | 08/02/22 | 08/04/22 | 08/08/22 | WB | Y |
| CL97032 | Silver | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97032 | Silver (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | Sodium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97032 | Sodium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | Thallium | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |
| CL97032 | Thallium (Dissolved) | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97032 | Total Cyanide | 08/02/22 | 08/09/22 | 08/09/22 | CL/GD | Y |
| CL97032 | Vanadium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97032 | Vanadium, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97032 | Volatiles | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97032 | Zinc | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |

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# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

| | | | | | | |
|---|---|---|---|---|---|---|
| CL97032 | Zinc, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97033 | 1,4-dioxane | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97033 | Aluminum | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97033 | Antimony | 08/02/22 | 08/04/22 | 08/08/22 | CPP | Y |
| CL97033 | Arsenic - LDL | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97033 | Barium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97033 | Beryllium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97033 | Cadmium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97033 | Calcium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97033 | Chloride | 08/02/22 | 08/04/22 | 08/04/22 | CL | Y |
| CL97033 | Chromium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97033 | Cobalt | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97033 | Copper | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97033 | Iron | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97033 | Lead | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97033 | Magnesium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97033 | Manganese | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97033 | Mercury | 08/02/22 | 08/04/22 | 08/05/22 | MGH | Y |
| CL97033 | Nickel | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97033 | Potassium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97033 | Selenium | 08/02/22 | 08/04/22 | 08/08/22 | CPP | Y |
| CL97033 | Semivolatiles | 08/02/22 | 08/04/22 | 08/08/22 | WB | Y |
| CL97033 | Silver | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97033 | Sodium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97033 | Thallium | 08/02/22 | 08/04/22 | 08/08/22 | CPP | Y |
| CL97033 | Total Cyanide | 08/02/22 | 08/09/22 | 08/09/22 | CL/GD | Y |
| CL97033 | Vanadium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97033 | Volatiles | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97033 | Zinc | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97034 | 1,4-dioxane | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97034 | Aluminum | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97034 | Antimony | 08/02/22 | 08/04/22 | 08/08/22 | CPP | Y |
| CL97034 | Arsenic - LDL | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97034 | Barium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97034 | Beryllium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97034 | Cadmium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97034 | Calcium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |

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# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

| | | | | | | |
|---|---|---|---|---|---|---|
| CL97034 | Chloride | 08/02/22 | 08/04/22 | 08/04/22 | CL | Y |
| CL97034 | Chromium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97034 | Cobalt | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97034 | Copper | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97034 | Iron | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97034 | Lead | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97034 | Magnesium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97034 | Manganese | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97034 | Mercury | 08/02/22 | 08/04/22 | 08/05/22 | MGH | Y |
| CL97034 | Nickel | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97034 | Potassium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97034 | Selenium | 08/02/22 | 08/04/22 | 08/08/22 | CPP | Y |
| CL97034 | Semivolatiles | 08/02/22 | 08/04/22 | 08/08/22 | WB | Y |
| CL97034 | Silver | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97034 | Sodium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97034 | Thallium | 08/02/22 | 08/04/22 | 08/08/22 | CPP | Y |
| CL97034 | Total Cyanide | 08/02/22 | 08/09/22 | 08/09/22 | CL/GD | Y |
| CL97034 | Vanadium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97034 | Volatiles | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97034 | Zinc | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97035 | 1,4-dioxane | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97035 | Aluminum | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97035 | Antimony | 08/02/22 | 08/04/22 | 08/08/22 | CPP | Y |
| CL97035 | Arsenic - LDL | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97035 | Barium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97035 | Beryllium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97035 | Cadmium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97035 | Calcium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97035 | Chloride | 08/02/22 | 08/04/22 | 08/04/22 | CL | Y |
| CL97035 | Chromium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97035 | Cobalt | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97035 | Copper | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97035 | Iron | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97035 | Lead | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97035 | Magnesium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97035 | Manganese | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97035 | Mercury | 08/02/22 | 08/04/22 | 08/05/22 | MGH | Y |

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# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

| | | | | | | |
|---|---|---|---|---|---|---|
| CL97035 | Nickel | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97035 | Potassium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97035 | Selenium | 08/02/22 | 08/04/22 | 08/08/22 | CPP | Y |
| CL97035 | Semivolatiles | 08/02/22 | 08/04/22 | 08/08/22 | WB | Y |
| CL97035 | Silver | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97035 | Sodium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97035 | Thallium | 08/02/22 | 08/04/22 | 08/08/22 | CPP | Y |
| CL97035 | Total Cyanide | 08/02/22 | 08/09/22 | 08/09/22 | CL/GD | Y |
| CL97035 | Vanadium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97035 | Volatiles | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97035 | Zinc | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97036 | 1,4-dioxane | 08/02/22 | 08/05/22 | 08/05/22 | JLI | Y |
| CL97036 | Aluminum | 08/02/22 | 08/03/22 | 08/04/22 | EK | Y |
| CL97036 | Antimony | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97036 | Arsenic | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97036 | Barium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97036 | Beryllium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97036 | Cadmium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97036 | Calcium | 08/02/22 | 08/03/22 | 08/04/22 | EK | Y |
| CL97036 | Chloride | 08/02/22 | 08/05/22 | 08/05/22 | BS/GD | Y |
| CL97036 | Chromium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97036 | Cobalt | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97036 | Copper | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97036 | Iron | 08/02/22 | 08/03/22 | 08/04/22 | EK | Y |
| CL97036 | Lead | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97036 | Magnesium | 08/02/22 | 08/03/22 | 08/04/22 | EK | Y |
| CL97036 | Manganese | 08/02/22 | 08/03/22 | 08/04/22 | EK | Y |
| CL97036 | Mercury | 08/02/22 | 08/04/22 | 08/04/22 | MGH | Y |
| CL97036 | Nickel | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97036 | Percent Solid | 08/02/22 | 08/03/22 | 08/03/22 | ae | Y |
| CL97036 | Potassium | 08/02/22 | 08/03/22 | 08/04/22 | EK | Y |
| CL97036 | Selenium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97036 | Semivolatiles | 08/02/22 | 08/03/22 | 08/04/22 | WB | Y |
| CL97036 | Silver | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97036 | Sodium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97036 | Thallium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97036 | Total Cyanide (SW9010C Distill.) | 08/02/22 | 08/08/22 | 08/08/22 | M/C/B/G | Y |

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# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

| | | | | | | |
|---|---|---|---|---|---|---|
| CL97036 | Vanadium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97036 | Volatiles | 08/02/22 | 08/05/22 | 08/05/22 | JLI | Y |
| CL97036 | Zinc | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97037 | 1,4-dioxane | 08/02/22 | 08/05/22 | 08/05/22 | JLI | Y |
| CL97037 | Aluminum | 08/02/22 | 08/03/22 | 08/04/22 | EK | Y |
| CL97037 | Antimony | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97037 | Arsenic | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97037 | Barium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97037 | Beryllium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97037 | Cadmium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97037 | Calcium | 08/02/22 | 08/03/22 | 08/04/22 | EK | Y |
| CL97037 | Chloride | 08/02/22 | 08/05/22 | 08/05/22 | BS/GD | Y |
| CL97037 | Chromium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97037 | Cobalt | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97037 | Copper | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97037 | Iron | 08/02/22 | 08/03/22 | 08/04/22 | EK | Y |
| CL97037 | Lead | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97037 | Magnesium | 08/02/22 | 08/03/22 | 08/04/22 | EK | Y |
| CL97037 | Manganese | 08/02/22 | 08/03/22 | 08/05/22 | CPP | Y |
| CL97037 | Mercury | 08/02/22 | 08/04/22 | 08/04/22 | MGH | Y |
| CL97037 | Nickel | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97037 | Percent Solid | 08/02/22 | 08/03/22 | 08/03/22 | ae | Y |
| CL97037 | Potassium | 08/02/22 | 08/03/22 | 08/04/22 | EK | Y |
| CL97037 | Selenium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97037 | Semivolatiles | 08/02/22 | 08/03/22 | 08/04/22 | WB | Y |
| CL97037 | Silver | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97037 | Sodium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97037 | Thallium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97037 | Total Cyanide (SW9010C Distill.) | 08/02/22 | 08/08/22 | 08/08/22 | M/C/B/G | Y |
| CL97037 | Vanadium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97037 | Volatiles | 08/02/22 | 08/05/22 | 08/05/22 | JLI | Y |
| CL97037 | Zinc | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | 1,4-dioxane | 08/02/22 | 08/05/22 | 08/05/22 | JLI | Y |
| CL97038 | Aluminum | 08/02/22 | 08/03/22 | 08/04/22 | EK | Y |
| CL97038 | Antimony | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Arsenic | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Barium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |

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# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

| | | | | | | |
|---|---|---|---|---|---|---|
| CL97038 | Beryllium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Cadmium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Calcium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Chloride | 08/02/22 | 08/05/22 | 08/05/22 | BS/GD | Y |
| CL97038 | Chromium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Cobalt | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Copper | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Iron | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Lead | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Magnesium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Manganese | 08/02/22 | 08/03/22 | 08/04/22 | EK | Y |
| CL97038 | Mercury | 08/02/22 | 08/04/22 | 08/04/22 | MGH | Y |
| CL97038 | Nickel | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Percent Solid | 08/02/22 | 08/03/22 | 08/03/22 | ae | Y |
| CL97038 | Potassium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Selenium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Semivolatiles | 08/02/22 | 08/03/22 | 08/04/22 | WB | Y |
| CL97038 | Silver | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Sodium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Thallium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Total Cyanide (SW9010C Distill.) | 08/02/22 | 08/09/22 | 08/09/22 | CL/GD | Y |
| CL97038 | Vanadium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97038 | Volatiles | 08/02/22 | 08/05/22 | 08/05/22 | JLI | Y |
| CL97038 | Zinc | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | 1,4-dioxane | 08/02/22 | 08/05/22 | 08/05/22 | JLI | Y |
| CL97039 | Aluminum | 08/02/22 | 08/03/22 | 08/04/22 | EK | Y |
| CL97039 | Antimony | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Arsenic | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Barium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Beryllium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Cadmium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Calcium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Chloride | 08/02/22 | 08/05/22 | 08/05/22 | BS/GD | Y |
| CL97039 | Chromium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Cobalt | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Copper | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Iron | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |

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# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

| | | | | | | |
|---|---|---|---|---|---|---|
| CL97039 | Lead | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Magnesium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Manganese | 08/02/22 | 08/03/22 | 08/04/22 | EK | Y |
| CL97039 | Mercury | 08/02/22 | 08/04/22 | 08/04/22 | MGH | Y |
| CL97039 | Nickel | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Percent Solid | 08/02/22 | 08/03/22 | 08/03/22 | ae | Y |
| CL97039 | Potassium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Selenium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Semivolatiles | 08/02/22 | 08/03/22 | 08/04/22 | WB | Y |
| CL97039 | Silver | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Sodium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Thallium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Total Cyanide (SW9010C Distill.) | 08/02/22 | 08/09/22 | 08/09/22 | CL/GD | Y |
| CL97039 | Vanadium | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97039 | Volatiles | 08/02/22 | 08/05/22 | 08/05/22 | JLI | Y |
| CL97039 | Zinc | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | 1,4-dioxane | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97040 | Aluminum | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97040 | Aluminum (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Antimony | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |
| CL97040 | Antimony (Dissolved)-LDL | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97040 | Arsenic - LDL | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97040 | Arsenic, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Barium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97040 | Barium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Beryllium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97040 | Beryllium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Cadmium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97040 | Cadmium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Calcium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97040 | Calcium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Chloride | 08/02/22 | 08/04/22 | 08/04/22 | CL | Y |
| CL97040 | Chromium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97040 | Chromium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Cobalt | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97040 | Cobalt, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Copper | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

| | | | | | | |
|---|---|---|---|---|---|---|
| CL97040 | Copper, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Iron | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97040 | Iron, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Lead | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97040 | Lead (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Magnesium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97040 | Magnesium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Manganese | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97040 | Manganese, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Mercury | 08/02/22 | 08/05/22 | 08/05/22 | MGH | Y |
| CL97040 | Mercury (Dissolved) | 08/02/22 | 08/04/22 | 08/05/22 | MGH | Y |
| CL97040 | Nickel | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97040 | Nickel, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Potassium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97040 | Potassium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Selenium | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |
| CL97040 | Selenium (Dissolved)-LDL | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97040 | Semivolatiles | 08/02/22 | 08/04/22 | 08/08/22 | WB | Y |
| CL97040 | Silver | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97040 | Silver (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Sodium | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97040 | Sodium (Dissolved) | 08/02/22 | 08/03/22 | 08/10/22 | EK | Y |
| CL97040 | Thallium | 08/02/22 | 08/08/22 | 08/11/22 | CPP | Y |
| CL97040 | Thallium (Dissolved) | 08/02/22 | 08/03/22 | 08/08/22 | CPP | Y |
| CL97040 | Total Cyanide | 08/02/22 | 08/09/22 | 08/09/22 | CL/GD | Y |
| CL97040 | Vanadium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97040 | Vanadium, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97040 | Volatiles | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97040 | Zinc | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97040 | Zinc, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | 1,4-dioxane | 08/02/22 | 08/07/22 | 08/07/22 | MH | Y |
| CL97041 | Aluminum | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Aluminum (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Antimony | 08/02/22 | 08/08/22 | 08/12/22 | TH | Y |
| CL97041 | Antimony, (Dissolved) | 08/02/22 | 08/03/22 | 08/12/22 | TH | Y |
| CL97041 | Arsenic - LDL | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Arsenic, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |

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# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

| | | | | | | |
|---|---|---|---|---|---|---|
| CL97041 | Barium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Barium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Beryllium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Beryllium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Cadmium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Cadmium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Calcium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Calcium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Chloride | 08/02/22 | 08/04/22 | 08/04/22 | CL | Y |
| CL97041 | Chromium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Chromium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Cobalt | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Cobalt, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Copper | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Copper, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Iron | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97041 | Iron, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Lead | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Lead (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Magnesium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Magnesium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Manganese | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Manganese, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Mercury | 08/02/22 | 08/05/22 | 08/05/22 | MGH | Y |
| CL97041 | Mercury (Dissolved) | 08/02/22 | 08/04/22 | 08/05/22 | MGH | Y |
| CL97041 | Nickel | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Nickel, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Potassium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Potassium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Selenium | 08/02/22 | 08/08/22 | 08/19/22 | IE | Y |
| CL97041 | Selenium, (Dissolved) | 08/02/22 | 08/03/22 | 08/08/22 | IE | Y |
| CL97041 | Semivolatiles | 08/02/22 | 08/04/22 | 08/08/22 | WB | Y |
| CL97041 | Silver | 08/02/22 | 08/05/22 | 08/10/22 | EK | Y |
| CL97041 | Silver (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Sodium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Sodium (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Thallium , (Dissolved) | 08/02/22 | 08/03/22 | 08/13/22 | IE | Y |

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# NY Analytical Services Protocol Format

**September 08, 2022** **SDG I.D.: GCL97028**

**Cashin Associates, PC HARRISON LANDFILL**

| | | | | | | |
|---|---|---|---|---|---|---|
| CL97041 | Thallium - LDL | 08/02/22 | 08/08/22 | 08/13/22 | IE | Y |
| CL97041 | Total Cyanide | 08/02/22 | 08/09/22 | 08/09/22 | CL/GD | Y |
| CL97041 | Vanadium | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Vanadium, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97041 | Volatiles | 08/02/22 | 08/07/22 | 08/07/22 | MH | Y |
| CL97041 | Zinc | 08/02/22 | 08/05/22 | 08/06/22 | CPP | Y |
| CL97041 | Zinc, (Dissolved) | 08/02/22 | 08/03/22 | 08/05/22 | EK | Y |
| CL97042 | 1,4-dioxane | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |
| CL97042 | Volatiles | 08/02/22 | 08/06/22 | 08/06/22 | MH | Y |

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NY # 11301

# SDG Comments

September 08, 2022

SDG I.D.: GCL97028

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1,4-dioxane:
1,4-dioxane does not meet GW criteria, this compound is analyzed by GC/MS method 522 or 8270SIM when this criteria needs to be met.

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.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

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.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Sample Id Cross Reference

September 08, 2022

SDG I.D.: GCL97028

Project ID: HARRISON LANDFILL

| Client Id | Lab Id | Matrix |
|---|---|---|
| PC-1 8-2-22 | CL97028 | GROUND WATER |
| PC-2 8-2-22 | CL97029 | GROUND WATER |
| PC-3 8-2-22 | CL97030 | GROUND WATER |
| LMW-2 8-2-22 | CL97031 | GROUND WATER |
| LMW-4 8-2-22 | CL97032 | GROUND WATER |
| SW-1 8-2-22 | CL97033 | SURFACE WATER |
| SW-2 8-2-22 | CL97034 | SURFACE WATER |
| SW-4 8-2-22 | CL97035 | SURFACE WATER |
| SD-1 8-2-22 | CL97036 | SEDIMENT |
| SD-2 8-2-22 | CL97037 | SEDIMENT |
| SD-3 8-2-22 | CL97038 | SEDIMENT |
| SD-4 8-2-22 | CL97039 | SEDIMENT |
| GW-DUPLICATE 8-2-22 | CL97040 | GROUND WATER |
| FIELD BLANK 8-2-22 | CL97041 | LIQUID |
| TRIP BLANK 8-2-22 | CL97042 | LIQUID |

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# Analysis Report

September 08, 2022

FOR: Attn: Paul J. DiMaria, PE
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | | 08/02/22 | 11:55 |
| Location Code: | CASHIN-NYDOT | Received by: | CP | 08/03/22 | 17:50 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCL97028
Phoenix ID: CL97028

Project ID: HARRISON LANDFILL
Client ID: PC-1 8-2-22

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|---|
| Silver | ND | | 0.005 | 0.002 | mg/L | 1 | 08/10/22 | EK | SW6010D |
| Aluminum | 0.225 | | 0.020 | 0.0024 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Arsenic - LDL | 0.001 | J | 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Barium | 0.132 | | 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Beryllium | ND | | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Calcium | 124 | | 0.010 | 0.003 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cadmium | 0.001 | J | 0.004 | 0.0005 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cobalt | ND | | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chromium | ND | | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Copper | 0.003 | J | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Silver (Dissolved) | ND | | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Aluminum (Dissolved) | ND | | 0.011 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Arsenic, (Dissolved) | ND | | 0.003 | 0.004 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Barium (Dissolved) | 0.115 | | 0.011 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Beryllium (Dissolved) | ND | | 0.001 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Calcium (Dissolved) | 109 | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Cadmium (Dissolved) | ND | | 0.004 | 0.0005 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Cobalt, (Dissolved) | ND | | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Chromium (Dissolved) | ND | | 0.001 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Copper, (Dissolved) | 0.002 | J | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Iron, (Dissolved) | 0.10 | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Mercury (Dissolved) | ND | | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium (Dissolved) | 3.9 | | 0.1 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Magnesium (Dissolved) | 15.9 | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Manganese, (Dissolved) | 0.757 | | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Sodium (Dissolved) | 152 | | 1.1 | 1.1 | mg/L | 10 | 08/10/22 | EK | SW6010D |
| Nickel, (Dissolved) | 0.002 | J | 0.004 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Lead (Dissolved) | ND | | 0.002 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: PC-1 8-2-22

Phoenix I.D.: CL97028

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Antimony (Dissolved)-LDL | ND | 0.0006 | 0.0002 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Selenium (Dissolved)-LDL | ND | 0.004 | 0.004 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Thallium (Dissolved) | ND | 0.0005 | 0.0002 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Vanadium, (Dissolved) | 0.001 | J 0.011 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Zinc, (Dissolved) | 0.002 | J 0.011 | 0.0012 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Iron | 1.26 | 0.01 | 0.01 | mg/L | 1 | 08/10/22 | EK | SW6010D |
| Mercury | ND | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium | 3.9 | 0.1 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Magnesium | 16.8 | 0.010 | 0.01 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Manganese | 0.774 | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Sodium | 169 | 1.0 | 1.0 | mg/L | 10 | 08/09/22 | EK | SW6010D |
| Nickel | 0.001 | J 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Lead | 0.001 | J 0.002 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Antimony | ND | 0.0030 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Selenium | ND | 0.010 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Thallium | ND | 0.0005 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Vanadium | 0.003 | J 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Zinc | 0.006 | J 0.010 | 0.002 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chloride | 268 | 6.0 | 0.02 | mg/L | 2 | 08/04/22 | CL | SM4500CLE-11 |
| Total Cyanide | ND | 0.010 | 0.005 | mg/L | 1 | 08/09/22 | CL/GD | SW9010C/SW9012B |
| | | | | | | | | |
| Filtration | Completed | | | | | 08/03/22 | AG | 0.45um Filter |
| Dissolved Mercury Digestion | Completed | | | | | 08/04/22 | AB/AB | SW7470A |
| Mercury Digestion | Completed | | | | | 08/05/22 | AB/AB | SW7470A |
| Semi-Volatile Extraction | Completed | | | | | 08/04/22 | X/MQ | SW3520C |
| Dissolved Metals Preparation | Completed | | | | | 08/03/22 | AG | SW3005A |
| Dissolved Metals Preparation | Completed | | | | | 08/03/22 | AG | SW3005A |
| Total Metals Digestion | Completed | | | | | 08/05/22 | AG | |
| Total Metals Digestion MS | Completed | | | | | 08/08/22 | AG | |
| **1,4-dioxane** | | | | | | | | |
| 1,4-dioxane | ND | 100 | 50 | ug/l | 1 | 08/06/22 | MH | SW8260C |
| **Volatiles** | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,3-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromoethane | ND | 0.25 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloroethane | ND | 0.60 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloropropane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,3-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,4-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 2-Hexanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 4-Methyl-2-pentanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |

Project ID: HARRISON LANDFILL
Client ID: PC-1 8-2-22

Phoenix I.D.: CL97028

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Benzene | ND | 0.70 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromodichloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromoform | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromomethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Carbon Disulfide | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Carbon tetrachloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloroform | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloromethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| cis-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Cyclohexane | ND | 5.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Dibromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Dichlorodifluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Ethylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Isopropylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| m&p-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methyl ethyl ketone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylacetate | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylcyclohexane | ND | 2.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylene chloride | ND | 3.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| o-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Styrene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Tetrachloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Toluene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Total Xylenes | ND | 1.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,2-Dichloroethene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorofluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorotrifluoroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Vinyl chloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 99 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Bromofluorobenzene | 94 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Dibromofluoromethane | 101 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Toluene-d8 | 101 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| Volatile Library Search Top 10 | Completed | | | | | 08/08/22 | MH | | |

## Semivolatiles

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Biphenyl | ND | 3.3 | 3.3 | ug/L | 1 | 08/08/22 | WB | SW8270D | |
| 1,2,4,5-Tetrachlorobenzene | ND | 3.3 | 3.3 | ug/L | 1 | 08/08/22 | WB | SW8270D | |
| 2,2'-Oxybis(1-Chloropropane) | ND | 4.7 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D | 1 |
| 2,3,4,6-tetrachlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D | |
| 2,4,5-Trichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D | |

Project ID: HARRISON LANDFILL
Client ID: PC-1 8-2-22

Phoenix I.D.: CL97028

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,4-Dichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,4-Dimethylphenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,4-Dinitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,4-Dinitrotoluene | ND | 4.7 | 1.9 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,6-Dinitrotoluene | ND | 4.7 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Chloronaphthalene | ND | 4.7 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Chlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Methylnaphthalene | ND | 4.7 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Methylphenol (o-cresol) | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Nitroaniline | ND | 4.7 | 0.94 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Nitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 3&4-Methylphenol (m&p-cresol) | ND | 4.7 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 4.7 | 2.2 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 3-Nitroaniline | ND | 4.7 | 1.8 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 1.0 | 0.94 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 4.7 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Chloro-3-methylphenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Chloroaniline | ND | 4.7 | 2.2 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 4.7 | 1.6 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Nitroaniline | ND | 4.7 | 1.6 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Nitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Acenaphthene | ND | 4.7 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Acetophenone | ND | 4.7 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Atrazine | ND | 0.94 | 0.94 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Benzaldehyde | ND | 4.7 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Benzyl butyl phthalate | ND | 4.7 | 1.2 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 4.7 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 0.94 | 0.94 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Caprolactam | ND | 4.7 | 0.94 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Carbazole | ND | 4.7 | 0.94 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Dibenzofuran | ND | 4.7 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Diethyl phthalate | ND | 4.7 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Dimethylphthalate | ND | 4.7 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Di-n-butylphthalate | ND | 4.7 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Di-n-octylphthalate | ND | 4.7 | 1.2 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Hexachlorocyclopentadiene | ND | 4.7 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Hexachloroethane | ND | 0.94 | 0.94 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Isophorone | ND | 4.7 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Naphthalene | ND | 4.7 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 4.7 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| N-Nitrosodiphenylamine | ND | 4.7 | 1.8 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Phenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 105 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % 2-Fluorobiphenyl | 76 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 80 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % Nitrobenzene-d5 | 87 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % Phenol-d5 | 68 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: PC-1 8-2-22

Phoenix I.D.: CL97028

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 72 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| **Semivolatiles** | | | | | | | | | |
| Acenaphthylene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Anthracene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benz(a)anthracene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(a)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(b)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(ghi)perylene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(k)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Bis(2-chloroethyl)ether | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Chrysene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Dibenz(a,h)anthracene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Fluoranthene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Fluorene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Hexachlorobenzene | ND | 0.04 | 0.04 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Hexachlorobutadiene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Hexachlorocyclopentadiene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Indeno(1,2,3-cd)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Nitrobenzene | ND | 0.38 | 0.38 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| N-Nitrosodimethylamine | ND | 0.19 | 0.19 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Pentachlorophenol | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Phenanthrene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Pyrene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 2,4,6-Tribromophenol | 125 | | | % | 1 | 08/08/22 | WB | 15 - 110 % | 3 |
| % 2-Fluorobiphenyl | 70 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| % 2-Fluorophenol | 86 | | | % | 1 | 08/08/22 | WB | 15 - 110 % | |
| % Nitrobenzene-d5 | 97 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| % Phenol-d5 | 90 | | | % | 1 | 08/08/22 | WB | 15 - 110 % | |
| % Terphenyl-d14 | 80 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| SVOA Library Search Top 15 | Completed | | | | | 08/09/22 | 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.

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:
One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is 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**
**September 08, 2022**
**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

September 08, 2022

FOR: Attn: Paul J. DiMaria, PE
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | | 08/02/22 | 10:32 |
| Location Code: | CASHIN-NYDOT | Received by: | CP | 08/03/22 | 17:50 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCL97028
Phoenix ID: CL97029

Project ID: HARRISON LANDFILL
Client ID: PC-2 8-2-22

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|---|
| Silver | ND | | 0.005 | 0.002 | mg/L | 1 | 08/10/22 | EK | SW6010D |
| Aluminum | 1.15 | | 0.020 | 0.0024 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Arsenic - LDL | 0.002 | J | 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Barium | 0.220 | | 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Beryllium | ND | | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Calcium | 92.6 | | 0.010 | 0.003 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cadmium | 0.002 | J | 0.004 | 0.0005 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cobalt | 0.004 | J | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chromium | 0.003 | | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Copper | 0.002 | J | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Silver (Dissolved) | ND | | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Aluminum (Dissolved) | ND | | 0.011 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Arsenic, (Dissolved) | ND | | 0.003 | 0.004 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Barium (Dissolved) | 0.111 | | 0.011 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Beryllium (Dissolved) | ND | | 0.001 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Calcium (Dissolved) | 86.4 | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Cadmium (Dissolved) | ND | | 0.004 | 0.0005 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Cobalt, (Dissolved) | 0.001 | J | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Chromium (Dissolved) | ND | | 0.001 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Copper, (Dissolved) | 0.001 | J | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Iron, (Dissolved) | 23.2 | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Mercury (Dissolved) | ND | | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium (Dissolved) | 5.2 | | 0.1 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Magnesium (Dissolved) | 20.5 | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Manganese, (Dissolved) | 8.41 | | 0.053 | 0.011 | mg/L | 10 | 08/10/22 | EK | SW6010D |
| Sodium (Dissolved) | 38.6 | | 0.11 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Nickel, (Dissolved) | ND | | 0.004 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Lead (Dissolved) | 0.003 | | 0.002 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: PC-2 8-2-22

Phoenix I.D.: CL97029

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Antimony (Dissolved)-LDL | ND | 0.0006 | 0.0002 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Selenium (Dissolved)-LDL | ND | 0.004 | 0.004 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Thallium (Dissolved) | ND | 0.0005 | 0.0002 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Vanadium, (Dissolved) | 0.001 | J 0.011 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Zinc, (Dissolved) | 0.003 | J 0.011 | 0.0012 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Iron | 76.2 | 0.01 | 0.01 | mg/L | 1 | 08/10/22 | EK | SW6010D |
| Mercury | ND | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium | 5.3 | 0.1 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Magnesium | 20.6 | 0.010 | 0.01 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Manganese | 9.35 | 0.050 | 0.010 | mg/L | 10 | 08/09/22 | EK | SW6010D |
| Sodium | 38.8 | 0.10 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Nickel | 0.002 | J 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Lead | 0.003 | 0.002 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Antimony | ND | 0.0030 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Selenium | ND | 0.010 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Thallium | ND | 0.0005 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Vanadium | 0.005 | J 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Zinc | 0.013 | 0.010 | 0.002 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chloride | 20.6 | 3.0 | 0.01 | mg/L | 1 | 08/04/22 | CL | SM4500CLE-11 |
| Total Cyanide | ND | 0.010 | 0.005 | mg/L | 1 | 08/09/22 | CL/GD | SW9010C/SW9012B |
| | | | | | | | | |
| Filtration | Completed | | | | | 08/03/22 | AG | 0.45um Filter |
| Dissolved Mercury Digestion | Completed | | | | | 08/04/22 | AB/AB | SW7470A |
| Mercury Digestion | Completed | | | | | 08/05/22 | AB/AB | SW7470A |
| Semi-Volatile Extraction | Completed | | | | | 08/04/22 | X/MQ | SW3520C |
| Dissolved Metals Preparation | Completed | | | | | 08/03/22 | AG | SW3005A |
| Dissolved Metals Preparation | Completed | | | | | 08/03/22 | AG | SW3005A |
| Total Metals Digestion | Completed | | | | | 08/05/22 | AG | |
| Total Metals Digestion MS | Completed | | | | | 08/08/22 | AG | |
| **1,4-dioxane** | | | | | | | | |
| 1,4-dioxane | ND | 100 | 50 | ug/l | 1 | 08/06/22 | MH | SW8260C |
| **Volatiles** | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,3-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromoethane | ND | 0.25 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloroethane | ND | 0.60 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloropropane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,3-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,4-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 2-Hexanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 4-Methyl-2-pentanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |

Project ID: HARRISON LANDFILL
Client ID: PC-2 8-2-22

Phoenix I.D.: CL97029

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Benzene | ND | | 0.70 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromochloromethane | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromodichloromethane | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromoform | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromomethane | ND | | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Carbon Disulfide | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Carbon tetrachloride | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chlorobenzene | ND | | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloroethane | ND | | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloroform | ND | | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloromethane | ND | | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| cis-1,3-Dichloropropene | ND | | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Cyclohexane | ND | | 5.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Dibromochloromethane | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Dichlorodifluoromethane | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Ethylbenzene | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Isopropylbenzene | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| m&p-Xylene | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methyl ethyl ketone | ND | | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methyl t-butyl ether (MTBE) | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylacetate | ND | | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylcyclohexane | ND | | 2.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylene chloride | ND | | 3.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| o-Xylene | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Styrene | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Tetrachloroethene | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Toluene | 0.33 | J | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Total Xylenes | ND | | 1.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,2-Dichloroethene | ND | | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,3-Dichloropropene | ND | | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichloroethene | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorofluoromethane | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorotrifluoroethane | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Vinyl chloride | ND | | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| **QA/QC Surrogates** | | | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 96 | | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Bromofluorobenzene | 92 | | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Dibromofluoromethane | 96 | | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Toluene-d8 | 101 | | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| Volatile Library Search Top 10 | Completed | | | | | | 08/08/22 | MH | | |

## Semivolatiles

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Biphenyl | ND | | 3.4 | 3.4 | ug/L | 1 | 08/08/22 | WB | SW8270D | |
| 1,2,4,5-Tetrachlorobenzene | ND | | 3.4 | 3.4 | ug/L | 1 | 08/08/22 | WB | SW8270D | |
| 2,2'-Oxybis(1-Chloropropane) | ND | | 4.8 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D | 1 |
| 2,3,4,6-tetrachlorophenol | ND | | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D | |
| 2,4,5-Trichlorophenol | ND | | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D | |

Project ID: HARRISON LANDFILL
Client ID: PC-2 8-2-22

Phoenix I.D.: CL97029

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,4-Dichlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,4-Dimethylphenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,4-Dinitrophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,4-Dinitrotoluene | ND | 4.8 | 1.9 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,6-Dinitrotoluene | ND | 4.8 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Chloronaphthalene | ND | 4.8 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Chlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Methylnaphthalene | ND | 4.8 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Methylphenol (o-cresol) | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Nitroaniline | ND | 4.8 | 0.96 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Nitrophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 3&4-Methylphenol (m&p-cresol) | ND | 4.8 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 4.8 | 2.3 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 3-Nitroaniline | ND | 4.8 | 1.8 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 1.0 | 0.96 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 4.8 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Chloro-3-methylphenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Chloroaniline | ND | 4.8 | 2.2 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 4.8 | 1.6 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Nitroaniline | ND | 4.8 | 1.6 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Nitrophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Acenaphthene | ND | 4.8 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Acetophenone | ND | 4.8 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Atrazine | ND | 0.96 | 0.96 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Benzaldehyde | ND | 4.8 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Benzyl butyl phthalate | ND | 4.8 | 1.2 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 4.8 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 0.96 | 0.96 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Caprolactam | ND | 4.8 | 0.96 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Carbazole | ND | 4.8 | 0.96 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Dibenzofuran | ND | 4.8 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Diethyl phthalate | ND | 4.8 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Dimethylphthalate | ND | 4.8 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Di-n-butylphthalate | ND | 4.8 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Di-n-octylphthalate | ND | 4.8 | 1.2 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Hexachlorocyclopentadiene | ND | 4.8 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Hexachloroethane | ND | 0.96 | 0.96 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Isophorone | ND | 4.8 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Naphthalene | ND | 4.8 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 4.8 | 1.6 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| N-Nitrosodiphenylamine | ND | 4.8 | 1.8 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Phenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 94 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % 2-Fluorobiphenyl | 72 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 71 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % Nitrobenzene-d5 | 76 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % Phenol-d5 | 66 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: PC-2 8-2-22

Phoenix I.D.: CL97029

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 69 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| **Semivolatiles** | | | | | | | | | |
| Acenaphthylene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Anthracene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benz(a)anthracene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(a)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(b)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(ghi)perylene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(k)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Bis(2-chloroethyl)ether | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Chrysene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Dibenz(a,h)anthracene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Fluoranthene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Fluorene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Hexachlorobenzene | ND | 0.04 | 0.04 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Hexachlorobutadiene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Hexachlorocyclopentadiene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Indeno(1,2,3-cd)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Nitrobenzene | ND | 0.38 | 0.38 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| N-Nitrosodimethylamine | ND | 0.19 | 0.19 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Pentachlorophenol | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Phenanthrene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Pyrene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 2,4,6-Tribromophenol | 121 | | | % | 1 | 08/08/22 | WB | 15 - 110 % | 3 |
| % 2-Fluorobiphenyl | 63 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| % 2-Fluorophenol | 75 | | | % | 1 | 08/08/22 | WB | 15 - 110 % | |
| % Nitrobenzene-d5 | 87 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| % Phenol-d5 | 83 | | | % | 1 | 08/08/22 | WB | 15 - 110 % | |
| % Terphenyl-d14 | 78 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| SVOA Library Search Top 15 | Completed | | | | | 08/09/22 | 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.

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:
One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is 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**
**September 08, 2022**
**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

September 08, 2022

FOR: Attn: Paul J. DiMaria, PE
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | | 08/02/22 | 14:10 |
| Location Code: | CASHIN-NYDOT | Received by: | CP | 08/03/22 | 17:50 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCL97028
Phoenix ID: CL97030

Project ID: HARRISON LANDFILL
Client ID: PC-3 8-2-22

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|---|
| Silver | ND | | 0.005 | 0.002 | mg/L | 1 | 08/10/22 | EK | SW6010D |
| Aluminum | 1.32 | | 0.020 | 0.0024 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Arsenic - LDL | 0.005 | | 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Barium | 0.234 | | 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Beryllium | ND | | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Calcium | 85.2 | | 0.010 | 0.003 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cadmium | ND | | 0.004 | 0.0005 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cobalt | 0.005 | J | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chromium | 0.003 | | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Copper | 0.004 | J | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Silver (Dissolved) | ND | | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Aluminum (Dissolved) | ND | | 0.011 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Arsenic, (Dissolved) | ND | | 0.003 | 0.004 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Barium (Dissolved) | 0.160 | | 0.011 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Beryllium (Dissolved) | ND | | 0.001 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Calcium (Dissolved) | 79.9 | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Cadmium (Dissolved) | ND | | 0.004 | 0.0005 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Cobalt, (Dissolved) | ND | | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Chromium (Dissolved) | ND | | 0.001 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Copper, (Dissolved) | 0.001 | J | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Iron, (Dissolved) | 0.02 | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Mercury (Dissolved) | ND | | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium (Dissolved) | 6.7 | | 0.1 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Magnesium (Dissolved) | 20.5 | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Manganese, (Dissolved) | 0.266 | | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Sodium (Dissolved) | 97.6 | | 1.1 | 1.1 | mg/L | 10 | 08/10/22 | EK | SW6010D |
| Nickel, (Dissolved) | ND | | 0.004 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Lead (Dissolved) | ND | | 0.002 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: PC-3 8-2-22

Phoenix I.D.: CL97030

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Antimony (Dissolved)-LDL | ND | 0.0006 | 0.0002 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Selenium (Dissolved)-LDL | ND | 0.004 | 0.004 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Thallium (Dissolved) | ND | 0.0005 | 0.0002 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Vanadium, (Dissolved) | ND | 0.011 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Zinc, (Dissolved) | ND | 0.011 | 0.0012 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Iron | 19.0 | 0.01 | 0.01 | mg/L | 1 | 08/10/22 | EK | SW6010D |
| Mercury | ND | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium | 6.6 | 0.1 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Magnesium | 20.5 | 0.010 | 0.01 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Manganese | 1.05 | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Sodium | 106 | 1.0 | 1.0 | mg/L | 10 | 08/09/22 | EK | SW6010D |
| Nickel | 0.002 | J 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Lead | 0.003 | 0.002 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Antimony | ND | 0.0030 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Selenium | ND | 0.010 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Thallium | ND | 0.0005 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Vanadium | 0.006 | J 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Zinc | 0.008 | J 0.010 | 0.002 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chloride | 214 | 6.0 | 0.02 | mg/L | 2 | 08/04/22 | CL | SM4500CLE-11 |
| Total Cyanide | ND | 0.010 | 0.005 | mg/L | 1 | 08/09/22 | CL/GD | SW9010C/SW9012B |
| | | | | | | | | |
| Filtration | Completed | | | | | 08/03/22 | AG | 0.45um Filter |
| Dissolved Mercury Digestion | Completed | | | | | 08/04/22 | AB/AB | SW7470A |
| Mercury Digestion | Completed | | | | | 08/05/22 | AB/AB | SW7470A |
| Semi-Volatile Extraction | Completed | | | | | 08/04/22 | X/MQ | SW3520C |
| Dissolved Metals Preparation | Completed | | | | | 08/03/22 | AG | SW3005A |
| Dissolved Metals Preparation | Completed | | | | | 08/03/22 | AG | SW3005A |
| Total Metals Digestion | Completed | | | | | 08/05/22 | AG | |
| Total Metals Digestion MS | Completed | | | | | 08/08/22 | AG | |
| **1,4-dioxane** | | | | | | | | |
| 1,4-dioxane | ND | 100 | 50 | ug/l | 1 | 08/06/22 | MH | SW8260C |
| **Volatiles** | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,3-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromoethane | ND | 0.25 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloroethane | ND | 0.60 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloropropane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,3-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,4-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 2-Hexanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 4-Methyl-2-pentanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |

Project ID: HARRISON LANDFILL
Client ID: PC-3 8-2-22

Phoenix I.D.: CL97030

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Benzene | ND | 0.70 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromodichloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromoform | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromomethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Carbon Disulfide | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Carbon tetrachloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloroform | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloromethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| cis-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Cyclohexane | ND | 5.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Dibromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Dichlorodifluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Ethylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Isopropylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| m&p-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methyl ethyl ketone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylacetate | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylcyclohexane | ND | 2.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylene chloride | ND | 3.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| o-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Styrene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Tetrachloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Toluene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Total Xylenes | ND | 1.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,2-Dichloroethene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorofluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorotrifluoroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Vinyl chloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 99 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Bromofluorobenzene | 94 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Dibromofluoromethane | 102 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Toluene-d8 | 102 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| Volatile Library Search Top 10 | Completed | | | | | 08/08/22 | MH | | |
| **Semivolatiles** | | | | | | | | | |
| 1,1-Biphenyl | ND | 3.3 | 3.3 | ug/L | 1 | 08/08/22 | WB | SW8270D | |
| 1,2,4,5-Tetrachlorobenzene | ND | 3.3 | 3.3 | ug/L | 1 | 08/08/22 | WB | SW8270D | |
| 2,2'-Oxybis(1-Chloropropane) | ND | 4.7 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D | 1 |
| 2,3,4,6-tetrachlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D | |
| 2,4,5-Trichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D | |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: PC-3 8-2-22

Phoenix I.D.: CL97030

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,4-Dichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,4-Dimethylphenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,4-Dinitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,4-Dinitrotoluene | ND | 4.7 | 1.9 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,6-Dinitrotoluene | ND | 4.7 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Chloronaphthalene | ND | 4.7 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Chlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Methylnaphthalene | ND | 4.7 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Methylphenol (o-cresol) | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Nitroaniline | ND | 4.7 | 0.94 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Nitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 3&4-Methylphenol (m&p-cresol) | ND | 4.7 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 4.7 | 2.2 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 3-Nitroaniline | ND | 4.7 | 1.8 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 1.0 | 0.94 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 4.7 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Chloro-3-methylphenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Chloroaniline | ND | 4.7 | 2.2 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 4.7 | 1.6 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Nitroaniline | ND | 4.7 | 1.6 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Nitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Acenaphthene | ND | 4.7 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Acetophenone | ND | 4.7 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Atrazine | ND | 0.94 | 0.94 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Benzaldehyde | ND | 4.7 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Benzyl butyl phthalate | ND | 4.7 | 1.2 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 4.7 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 0.94 | 0.94 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Caprolactam | ND | 4.7 | 0.94 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Carbazole | ND | 4.7 | 0.94 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Dibenzofuran | ND | 4.7 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Diethyl phthalate | ND | 4.7 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Dimethylphthalate | ND | 4.7 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Di-n-butylphthalate | ND | 4.7 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Di-n-octylphthalate | ND | 4.7 | 1.2 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Hexachlorocyclopentadiene | ND | 4.7 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Hexachloroethane | ND | 0.94 | 0.94 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Isophorone | ND | 4.7 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Naphthalene | ND | 4.7 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 4.7 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| N-Nitrosodiphenylamine | ND | 4.7 | 1.8 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Phenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 45 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % 2-Fluorobiphenyl | 73 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 53 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % Nitrobenzene-d5 | 84 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % Phenol-d5 | 48 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 71 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| **Semivolatiles** | | | | | | | | |
| Acenaphthylene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Anthracene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benz(a)anthracene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(a)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(b)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(ghi)perylene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(k)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Bis(2-chloroethyl)ether | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Chrysene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Dibenz(a,h)anthracene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Fluoranthene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Fluorene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Hexachlorobenzene | ND | 0.04 | 0.04 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Hexachlorobutadiene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Hexachlorocyclopentadiene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Indeno(1,2,3-cd)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Nitrobenzene | ND | 0.38 | 0.38 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| N-Nitrosodimethylamine | ND | 0.19 | 0.19 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Pentachlorophenol | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Phenanthrene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Pyrene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 56 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % 2-Fluorobiphenyl | 68 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 55 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % Nitrobenzene-d5 | 98 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % Phenol-d5 | 62 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % Terphenyl-d14 | 81 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| SVOA Library Search Top 15 | Completed | | | | | 08/22/22 | 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.

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**

**September 08, 2022**

**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

September 08, 2022

FOR: Attn: Paul J. DiMaria, PE
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | | 08/02/22 | 8:35 |
| Location Code: | CASHIN-NYDOT | Received by: | CP | 08/03/22 | 17:50 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCL97028
Phoenix ID: CL97031

Project ID: HARRISON LANDFILL
Client ID: LMW-2 8-2-22

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|---|
| Silver | ND | | 0.005 | 0.002 | mg/L | 1 | 08/10/22 | EK | SW6010D |
| Aluminum | 0.256 | | 0.020 | 0.0024 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Arsenic - LDL | ND | | 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Barium | 0.113 | | 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Beryllium | ND | | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Calcium | 72.7 | | 0.010 | 0.003 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cadmium | ND | | 0.004 | 0.0005 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cobalt | 0.004 | J | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chromium | ND | | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Copper | 0.005 | J | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Silver (Dissolved) | ND | | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Aluminum (Dissolved) | ND | | 0.011 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Arsenic, (Dissolved) | ND | | 0.003 | 0.004 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Barium (Dissolved) | 0.103 | | 0.011 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Beryllium (Dissolved) | ND | | 0.001 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Calcium (Dissolved) | 68.3 | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Cadmium (Dissolved) | ND | | 0.004 | 0.0005 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Cobalt, (Dissolved) | ND | | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Chromium (Dissolved) | ND | | 0.001 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Copper, (Dissolved) | 0.003 | J | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Iron, (Dissolved) | ND | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Mercury (Dissolved) | ND | | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium (Dissolved) | 3.6 | | 0.1 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Magnesium (Dissolved) | 24.1 | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Manganese, (Dissolved) | 0.139 | | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Sodium (Dissolved) | 22.0 | | 0.11 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Nickel, (Dissolved) | 0.004 | | 0.004 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Lead (Dissolved) | ND | | 0.002 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: LMW-2 8-2-22

Phoenix I.D.: CL97031

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Antimony (Dissolved)-LDL | ND | 0.0006 | 0.0002 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Selenium (Dissolved)-LDL | ND | 0.004 | 0.004 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Thallium (Dissolved) | ND | 0.0005 | 0.0002 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Vanadium, (Dissolved) | ND | 0.011 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Zinc, (Dissolved) | 0.003 | J 0.011 | 0.0012 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Iron | 0.55 | 0.01 | 0.01 | mg/L | 1 | 08/10/22 | EK | SW6010D |
| Mercury | ND | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium | 3.6 | 0.1 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Magnesium | 24.3 | 0.010 | 0.01 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Manganese | 0.450 | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Sodium | 21.4 | 0.10 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Nickel | 0.005 | 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Lead | ND | 0.002 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Antimony | ND | 0.0030 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Selenium | ND | 0.010 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Thallium | ND | 0.0005 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Vanadium | 0.002 | J 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Zinc | 0.005 | J 0.010 | 0.002 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chloride | 11.4 | 3.0 | 0.01 | mg/L | 1 | 08/04/22 | CL | SM4500CLE-11 |
| Total Cyanide | ND | 0.010 | 0.005 | mg/L | 1 | 08/09/22 | CL/GD | SW9010C/SW9012B |
| | | | | | | | | |
| Filtration | Completed | | | | | 08/03/22 | AG | 0.45um Filter |
| Dissolved Mercury Digestion | Completed | | | | | 08/04/22 | AB/AB | SW7470A |
| Mercury Digestion | Completed | | | | | 08/05/22 | AB/AB | SW7470A |
| Semi-Volatile Extraction | Completed | | | | | 08/04/22 | X/MQ | SW3520C |
| Dissolved Metals Preparation | Completed | | | | | 08/03/22 | AG | SW3005A |
| Dissolved Metals Preparation | Completed | | | | | 08/03/22 | AG | SW3005A |
| Total Metals Digestion | Completed | | | | | 08/05/22 | AG | |
| Total Metals Digestion MS | Completed | | | | | 08/08/22 | AG | |
| **1,4-dioxane** | | | | | | | | |
| 1,4-dioxane | ND | 100 | 50 | ug/l | 1 | 08/06/22 | MH | SW8260C |
| **Volatiles** | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,3-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromoethane | ND | 0.25 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloroethane | ND | 0.60 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloropropane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,3-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,4-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 2-Hexanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 4-Methyl-2-pentanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |

Project ID: HARRISON LANDFILL
Client ID: LMW-2 8-2-22

Phoenix I.D.: CL97031

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Benzene | ND | 0.70 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromodichloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromoform | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromomethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Carbon Disulfide | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Carbon tetrachloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloroform | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloromethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| cis-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Cyclohexane | ND | 5.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Dibromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Dichlorodifluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Ethylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Isopropylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| m&p-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methyl ethyl ketone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylacetate | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylcyclohexane | ND | 2.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylene chloride | ND | 3.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| o-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Styrene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Tetrachloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Toluene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Total Xylenes | ND | 1.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,2-Dichloroethene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorofluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorotrifluoroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Vinyl chloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 96 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Bromofluorobenzene | 92 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Dibromofluoromethane | 98 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Toluene-d8 | 101 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| Volatile Library Search Top 10 | Completed | | | | | 08/08/22 | MH | | |
| **Semivolatiles** | | | | | | | | | |
| 1,1-Biphenyl | ND | 3.3 | 3.3 | ug/L | 1 | 08/08/22 | WB | SW8270D | |
| 1,2,4,5-Tetrachlorobenzene | ND | 3.3 | 3.3 | ug/L | 1 | 08/08/22 | WB | SW8270D | |
| 2,2'-Oxybis(1-Chloropropane) | ND | 4.8 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D | 1 |
| 2,3,4,6-tetrachlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D | |
| 2,4,5-Trichlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D | |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: LMW-2 8-2-22

Phoenix I.D.: CL97031

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,4-Dichlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,4-Dimethylphenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,4-Dinitrophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,4-Dinitrotoluene | ND | 4.8 | 1.9 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2,6-Dinitrotoluene | ND | 4.8 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Chloronaphthalene | ND | 4.8 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Chlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Methylnaphthalene | ND | 4.8 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Methylphenol (o-cresol) | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Nitroaniline | ND | 4.8 | 0.95 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 2-Nitrophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 3&4-Methylphenol (m&p-cresol) | ND | 4.8 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 4.8 | 2.2 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 3-Nitroaniline | ND | 4.8 | 1.8 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 1.0 | 0.95 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 4.8 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Chloro-3-methylphenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Chloroaniline | ND | 4.8 | 2.2 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 4.8 | 1.6 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Nitroaniline | ND | 4.8 | 1.6 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| 4-Nitrophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Acenaphthene | ND | 4.8 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Acetophenone | ND | 4.8 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Atrazine | ND | 0.95 | 0.95 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Benzaldehyde | ND | 4.8 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Benzyl butyl phthalate | ND | 4.8 | 1.2 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 4.8 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 0.95 | 0.95 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Caprolactam | ND | 4.8 | 0.95 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Carbazole | ND | 4.8 | 0.95 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Dibenzofuran | ND | 4.8 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Diethyl phthalate | ND | 4.8 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Dimethylphthalate | ND | 4.8 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Di-n-butylphthalate | ND | 4.8 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Di-n-octylphthalate | ND | 4.8 | 1.2 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Hexachlorocyclopentadiene | ND | 4.8 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Hexachloroethane | ND | 0.95 | 0.95 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Isophorone | ND | 4.8 | 1.3 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Naphthalene | ND | 4.8 | 1.4 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 4.8 | 1.5 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| N-Nitrosodiphenylamine | ND | 4.8 | 1.8 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| Phenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/08/22 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 78 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % 2-Fluorobiphenyl | 67 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 62 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % Nitrobenzene-d5 | 71 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % Phenol-d5 | 56 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 73 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| **Semivolatiles** | | | | | | | | |
| Acenaphthylene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Anthracene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benz(a)anthracene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(a)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(b)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(ghi)perylene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(k)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Bis(2-chloroethyl)ether | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Chrysene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Dibenz(a,h)anthracene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Fluoranthene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Fluorene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Hexachlorobenzene | ND | 0.04 | 0.04 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Hexachlorobutadiene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Hexachlorocyclopentadiene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Indeno(1,2,3-cd)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Nitrobenzene | ND | 0.38 | 0.38 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| N-Nitrosodimethylamine | ND | 0.19 | 0.19 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Pentachlorophenol | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Phenanthrene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Pyrene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 102 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % 2-Fluorobiphenyl | 61 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 71 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % Nitrobenzene-d5 | 88 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % Phenol-d5 | 73 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % Terphenyl-d14 | 80 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| SVOA Library Search Top 15 | Completed | | | | | 08/09/22 | 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.

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**

**September 08, 2022**

**Reviewed and Released by: Maryam Taylor, Project Manager**

PHOENIX

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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

September 08, 2022

FOR: Attn: Paul J. DiMaria, PE
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | | 08/02/22 | 9:50 |
| Location Code: | CASHIN-NYDOT | Received by: | CP | 08/03/22 | 17:50 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCL97028
Phoenix ID: CL97032

Project ID: HARRISON LANDFILL
Client ID: LMW-4 8-2-22

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Silver | ND | 0.005 | 0.002 | mg/L | 1 | 08/10/22 | EK | SW6010D |
| Aluminum | 32.8 | 0.20 | 0.024 | mg/L | 10 | 08/09/22 | EK | SW6010D |
| Arsenic - LDL | 0.169 | 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Barium | 1.51 | 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Beryllium | 0.002 | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Calcium | 60.3 | 0.010 | 0.003 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cadmium | 0.018 | 0.004 | 0.0005 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cobalt | 0.262 | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chromium | 0.119 | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Copper | 0.155 | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Silver (Dissolved) | ND | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Aluminum (Dissolved) | ND | 0.011 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Arsenic, (Dissolved) | 0.005 | 0.003 | 0.004 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Barium (Dissolved) | 0.128 | 0.011 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Beryllium (Dissolved) | ND | 0.001 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Calcium (Dissolved) | 41.0 | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Cadmium (Dissolved) | ND | 0.004 | 0.0005 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Cobalt, (Dissolved) | 0.018 | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Chromium (Dissolved) | ND | 0.001 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Copper, (Dissolved) | ND | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Iron, (Dissolved) | 32.1 | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Mercury (Dissolved) | ND | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium (Dissolved) | 3.4 | 0.1 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Magnesium (Dissolved) | 17.8 | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Manganese, (Dissolved) | 11.4 | 0.053 | 0.011 | mg/L | 10 | 08/10/22 | EK | SW6010D |
| Sodium (Dissolved) | 31.8 | 0.11 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Nickel, (Dissolved) | 0.004 | 0.004 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Lead (Dissolved) | 0.003 | 0.002 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: LMW-4 8-2-22

Phoenix I.D.: CL97032

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Antimony (Dissolved)-LDL | ND | 0.0006 | 0.0002 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Selenium (Dissolved)-LDL | ND | 0.004 | 0.004 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Thallium (Dissolved) | ND | 0.0005 | 0.0002 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Vanadium, (Dissolved) | ND | 0.011 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Zinc, (Dissolved) | 0.005 J | 0.011 | 0.0012 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Iron | 637 | 0.10 | 0.10 | mg/L | 10 | 08/09/22 | EK | SW6010D |
| Mercury | ND | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium | 9.2 | 0.1 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Magnesium | 29.2 | 0.010 | 0.01 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Manganese | 35.1 | 0.50 | 0.10 | mg/L | 100 | 08/09/22 | EK | SW6010D |
| Sodium | 30.6 | 0.10 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Nickel | 0.129 | 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Lead | 0.033 | 0.002 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Antimony | 0.0039 | 0.0030 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Selenium | ND | 0.010 | 0.002 | mg/L | 10 | 08/15/22 | TH | SW6020B |
| Thallium | ND | 0.0005 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Vanadium | 0.189 | 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Zinc | 0.336 | 0.010 | 0.002 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chloride | 18.1 | 3.0 | 0.01 | mg/L | 1 | 08/04/22 | CL | SM4500CLE-11 |
| Total Cyanide | ND | 0.010 | 0.005 | mg/L | 1 | 08/09/22 | CL/GD | SW9010C/SW9012B |
| | | | | | | | | |
| Filtration | Completed | | | | | 08/03/22 | AG | 0.45um Filter |
| Dissolved Mercury Digestion | Completed | | | | | 08/04/22 | AB/AB | SW7470A |
| Mercury Digestion | Completed | | | | | 08/05/22 | AB/AB | SW7470A |
| Semi-Volatile Extraction | Completed | | | | | 08/04/22 | X/MQ | SW3520C |
| Dissolved Metals Preparation | Completed | | | | | 08/03/22 | AG | SW3005A |
| Dissolved Metals Preparation | Completed | | | | | 08/03/22 | AG | SW3005A |
| Total Metals Digestion | Completed | | | | | 08/05/22 | AG | |
| Total Metals Digestion MS | Completed | | | | | 08/08/22 | AG | |
| **1,4-dioxane** | | | | | | | | |
| 1,4-dioxane | ND | 100 | 50 | ug/l | 1 | 08/06/22 | MH | SW8260C |
| **Volatiles** | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,3-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromoethane | ND | 0.25 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloroethane | ND | 0.60 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloropropane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,3-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,4-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 2-Hexanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 4-Methyl-2-pentanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |

Project ID: HARRISON LANDFILL
Client ID: LMW-4 8-2-22

Phoenix I.D.: CL97032

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Benzene | ND | 0.70 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromodichloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromoform | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromomethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Carbon Disulfide | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Carbon tetrachloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloroform | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloromethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| cis-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Cyclohexane | ND | 5.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Dibromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Dichlorodifluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Ethylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Isopropylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| m&p-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methyl ethyl ketone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylacetate | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylcyclohexane | ND | 2.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylene chloride | ND | 3.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| o-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Styrene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Tetrachloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Toluene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Total Xylenes | ND | 1.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,2-Dichloroethene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorofluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorotrifluoroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Vinyl chloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 96 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Bromofluorobenzene | 91 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Dibromofluoromethane | 100 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Toluene-d8 | 102 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| Volatile Library Search Top 10 | Completed | | | | | 08/08/22 | MH | | |

## Semivolatiles

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Biphenyl | ND | 3.3 | 3.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 1,2,4,5-Tetrachlorobenzene | ND | 3.3 | 3.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,2'-Oxybis(1-Chloropropane) | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | 1 |
| 2,3,4,6-tetrachlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4,5-Trichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: LMW-4 8-2-22

Phoenix I.D.: CL97032

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2,4-Dichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2,4-Dimethylphenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2,4-Dinitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2,4-Dinitrotoluene | ND | 4.7 | 1.9 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2,6-Dinitrotoluene | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Chloronaphthalene | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Chlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Methylnaphthalene | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Methylphenol (o-cresol) | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Nitroaniline | ND | 4.7 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Nitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 3&4-Methylphenol (m&p-cresol) | ND | 4.7 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 4.7 | 2.2 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 3-Nitroaniline | ND | 4.7 | 1.8 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 1.0 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Chloro-3-methylphenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Chloroaniline | ND | 4.7 | 2.2 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 4.7 | 1.6 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Nitroaniline | ND | 4.7 | 1.6 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Nitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Acenaphthene | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Acetophenone | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Atrazine | ND | 0.94 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Benzaldehyde | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Benzyl butyl phthalate | ND | 4.7 | 1.2 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 0.94 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Caprolactam | ND | 4.7 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Carbazole | ND | 4.7 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Dibenzofuran | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Diethyl phthalate | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Dimethylphthalate | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Di-n-butylphthalate | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Di-n-octylphthalate | ND | 4.7 | 1.2 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Hexachlorocyclopentadiene | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Hexachloroethane | ND | 0.94 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Isophorone | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Naphthalene | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| N-Nitrosodiphenylamine | ND | 4.7 | 1.8 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Phenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 89 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |
| % 2-Fluorobiphenyl | 67 | | | % | 1 | 08/09/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 68 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |
| % Nitrobenzene-d5 | 79 | | | % | 1 | 08/09/22 | WB | 30 - 130 % |
| % Phenol-d5 | 62 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |

Project ID: HARRISON LANDFILL
Client ID: LMW-4 8-2-22

Phoenix I.D.: CL97032

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 36 | | | % | 1 | 08/09/22 | WB | 30 - 130 % | |
| **Semivolatiles** | | | | | | | | | |
| Acenaphthylene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Anthracene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benz(a)anthracene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(a)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(b)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(ghi)perylene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(k)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Bis(2-chloroethyl)ether | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Chrysene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Dibenz(a,h)anthracene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Fluoranthene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Fluorene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Hexachlorobenzene | ND | 0.04 | 0.04 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Hexachlorobutadiene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Hexachlorocyclopentadiene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Indeno(1,2,3-cd)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Nitrobenzene | ND | 0.38 | 0.38 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| N-Nitrosodimethylamine | ND | 0.19 | 0.19 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Pentachlorophenol | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Phenanthrene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Pyrene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 2,4,6-Tribromophenol | 115 | | | % | 1 | 08/08/22 | WB | 15 - 110 % | 3 |
| % 2-Fluorobiphenyl | 60 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| % 2-Fluorophenol | 73 | | | % | 1 | 08/08/22 | WB | 15 - 110 % | |
| % Nitrobenzene-d5 | 85 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| % Phenol-d5 | 78 | | | % | 1 | 08/08/22 | WB | 15 - 110 % | |
| % Terphenyl-d14 | 40 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| SVOA Library Search Top 15 | Completed | | | | | 08/09/22 | 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.

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:
One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is 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**
**September 08, 2022**
**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

September 08, 2022

FOR: Attn: Paul J. DiMaria, PE
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SURFACE WATER | Collected by: | | 08/02/22 | 8:06 |
| Location Code: | CASHIN-NYDOT | Received by: | CP | 08/03/22 | 17:50 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCL97028
Phoenix ID: CL97033

Project ID: HARRISON LANDFILL
Client ID: SW-1 8-2-22

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Silver | ND | 0.005 | 0.002 | mg/L | 1 | 08/10/22 | EK | SW6010D |
| Aluminum | 0.071 | 0.020 | 0.0024 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Arsenic - LDL | ND | 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Barium | 0.026 | 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Beryllium | ND | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Calcium | 47.7 | 0.010 | 0.003 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cadmium | ND | 0.004 | 0.0005 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cobalt | ND | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chromium | ND | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Copper | ND | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Iron | 0.48 | 0.01 | 0.01 | mg/L | 1 | 08/10/22 | EK | E200.7 |
| Mercury | ND | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium | 2.7 | 0.1 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Magnesium | 12.9 | 0.010 | 0.01 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Manganese | 0.971 | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Sodium | 9.02 | 0.10 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Nickel | ND | 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Lead | ND | 0.002 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Antimony | 0.0008 | J 0.0030 | 0.0005 | mg/L | 5 | 08/08/22 | CPP | SW6020B |
| Selenium | ND | 0.010 | 0.0005 | mg/L | 5 | 08/08/22 | CPP | SW6020B |
| Thallium | ND | 0.0005 | 0.0005 | mg/L | 5 | 08/08/22 | CPP | SW6020B |
| Vanadium | 0.003 | J 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Zinc | ND | 0.010 | 0.002 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chloride | 4.8 | 3.0 | 0.01 | mg/L | 1 | 08/04/22 | CL | SM4500CLE-11 |
| Total Cyanide | ND | 0.010 | 0.005 | mg/L | 1 | 08/09/22 | CL/GD | SW9010C/SW9012B |
| Mercury Digestion | Completed | | | | | 08/04/22 | AB/AB | SW7470A |
| Semi-Volatile Extraction | Completed | | | | | 08/04/22 | X/MQ | SW3520C |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: SW-1 8-2-22

Phoenix I.D.: CL97033

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Total Metals Digestion | Completed | | | | | 08/05/22 | AG | |
| Total Metals Digestion MS | Completed | | | | | 08/04/22 | AG | |
| **1,4-dioxane** | | | | | | | | |
| 1,4-dioxane | ND | 100 | 50 | ug/l | 1 | 08/06/22 | MH | SW8260C |
| **Volatiles** | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,3-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromoethane | ND | 0.25 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloroethane | ND | 0.60 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloropropane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,3-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,4-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 2-Hexanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 4-Methyl-2-pentanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Acetone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Benzene | ND | 0.70 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Bromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Bromodichloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Bromoform | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Bromomethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Carbon Disulfide | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Carbon tetrachloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Chlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Chloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Chloroform | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Chloromethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| cis-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Cyclohexane | ND | 5.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Dibromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Dichlorodifluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Ethylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Isopropylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| m&p-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methyl ethyl ketone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methylacetate | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methylcyclohexane | ND | 2.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methylene chloride | ND | 3.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| o-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Styrene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |

Project ID: HARRISON LANDFILL
Client ID: SW-1 8-2-22

Phoenix I.D.: CL97033

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Toluene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Total Xylenes | ND | 1.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,2-Dichloroethene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorofluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorotrifluoroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Vinyl chloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 99 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Bromofluorobenzene | 91 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Dibromofluoromethane | 96 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Toluene-d8 | 101 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| Volatile Library Search Top 10 | Completed | | | | | 08/08/22 | MH | | |
| **Semivolatiles** | | | | | | | | | |
| 1,1-Biphenyl | ND | 3.3 | 3.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 1,2,4,5-Tetrachlorobenzene | ND | 3.3 | 3.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,2'-Oxybis(1-Chloropropane) | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | 1 |
| 2,3,4,6-tetrachlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4,5-Trichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4,6-Trichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4-Dichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4-Dimethylphenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4-Dinitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4-Dinitrotoluene | ND | 4.7 | 1.9 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,6-Dinitrotoluene | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Chloronaphthalene | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Chlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Methylnaphthalene | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Methylphenol (o-cresol) | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Nitroaniline | ND | 4.7 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Nitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 3&4-Methylphenol (m&p-cresol) | ND | 4.7 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 3,3'-Dichlorobenzidine | ND | 4.7 | 2.2 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 3-Nitroaniline | ND | 4.7 | 1.8 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4,6-Dinitro-2-methylphenol | ND | 1.0 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Bromophenyl phenyl ether | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Chloro-3-methylphenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Chloroaniline | ND | 4.7 | 2.2 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Chlorophenyl phenyl ether | ND | 4.7 | 1.6 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Nitroaniline | ND | 4.7 | 1.6 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Nitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| Acenaphthene | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| Acetophenone | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| Atrazine | ND | 0.94 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| Benzaldehyde | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| Benzyl butyl phthalate | ND | 4.7 | 1.2 | ug/L | 1 | 08/09/22 | WB | SW8270D | |

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Bis(2-chloroethoxy)methane | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 0.94 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Caprolactam | ND | 4.7 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Carbazole | ND | 4.7 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Dibenzofuran | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Diethyl phthalate | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Dimethylphthalate | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Di-n-butylphthalate | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Di-n-octylphthalate | ND | 4.7 | 1.2 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Hexachlorocyclopentadiene | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Hexachloroethane | ND | 0.94 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Isophorone | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Naphthalene | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| N-Nitrosodiphenylamine | ND | 4.7 | 1.8 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Phenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 87 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |
| % 2-Fluorobiphenyl | 68 | | | % | 1 | 08/09/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 69 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |
| % Nitrobenzene-d5 | 73 | | | % | 1 | 08/09/22 | WB | 30 - 130 % |
| % Phenol-d5 | 69 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |
| % Terphenyl-d14 | 75 | | | % | 1 | 08/09/22 | WB | 30 - 130 % |

## Semivolatiles

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Acenaphthylene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Anthracene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benz(a)anthracene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(a)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(b)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(ghi)perylene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(k)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Bis(2-chloroethyl)ether | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Chrysene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Dibenz(a,h)anthracene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Fluoranthene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Fluorene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Hexachlorobenzene | ND | 0.04 | 0.04 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Hexachlorobutadiene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Hexachlorocyclopentadiene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Indeno(1,2,3-cd)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Nitrobenzene | ND | 0.38 | 0.38 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| N-Nitrosodimethylamine | ND | 0.19 | 0.19 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Pentachlorophenol | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Phenanthrene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Pyrene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 114 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % 2-Fluorobiphenyl | 61 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 68 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |

3

Project ID: HARRISON LANDFILL
Client ID: SW-1 8-2-22

Phoenix I.D.: CL97033

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| % Nitrobenzene-d5 | 82 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % Phenol-d5 | 79 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % Terphenyl-d14 | 80 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| SVOA Library Search Top 15 | Completed | | | | | 08/09/22 | 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.
3 = This parameter exceeds laboratory specified limits.

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:
One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is 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.

Total Cyanide:
Chlorine was present; Sample was de-chlorinated prior to digestion/analysis. (EPA requires dechlorination at time of sampling.) A sample bias can not be ruled out.

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**
**September 08, 2022**
**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

September 08, 2022

FOR: Attn: Paul J. DiMaria, PE
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SURFACE WATER | Collected by: | | 08/02/22 | 10:55 |
| Location Code: | CASHIN-NYDOT | Received by: | CP | 08/03/22 | 17:50 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCL97028
Phoenix ID: CL97034

Project ID: HARRISON LANDFILL
Client ID: SW-2 8-2-22

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Silver | ND | 0.005 | 0.002 | mg/L | 1 | 08/10/22 | EK | SW6010D |
| Aluminum | 0.653 | 0.020 | 0.0024 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Arsenic - LDL | ND | 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Barium | 0.034 | 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Beryllium | ND | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Calcium | 46.9 | 0.010 | 0.003 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cadmium | ND | 0.004 | 0.0005 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cobalt | 0.001 J | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chromium | 0.001 | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Copper | 0.002 J | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Iron | 2.68 | 0.01 | 0.01 | mg/L | 1 | 08/10/22 | EK | E200.7 |
| Mercury | ND | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium | 2.9 | 0.1 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Magnesium | 12.6 | 0.010 | 0.01 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Manganese | 1.14 | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Sodium | 11.0 | 0.10 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Nickel | 0.001 J | 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Lead | 0.003 | 0.002 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Antimony | ND | 0.0030 | 0.0005 | mg/L | 5 | 08/08/22 | CPP | SW6020B |
| Selenium | ND | 0.010 | 0.0005 | mg/L | 5 | 08/08/22 | CPP | SW6020B |
| Thallium | ND | 0.0005 | 0.0005 | mg/L | 5 | 08/08/22 | CPP | SW6020B |
| Vanadium | 0.005 J | 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Zinc | 0.011 | 0.010 | 0.002 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chloride | 5.8 | 3.0 | 0.01 | mg/L | 1 | 08/04/22 | CL | SM4500CLE-11 |
| Total Cyanide | ND | 0.010 | 0.005 | mg/L | 1 | 08/09/22 | CL/GD | SW9010C/SW9012B |
| Mercury Digestion | Completed | | | | | 08/04/22 | AB/AB | SW7470A |
| Semi-Volatile Extraction | Completed | | | | | 08/04/22 | X/MQ | SW3520C |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: SW-2 8-2-22

Phoenix I.D.: CL97034

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Total Metals Digestion | Completed | | | | | 08/05/22 | AG | |
| Total Metals Digestion MS | Completed | | | | | 08/04/22 | AG | |
| **1,4-dioxane** | | | | | | | | |
| 1,4-dioxane | ND | 100 | 50 | ug/l | 1 | 08/06/22 | MH | SW8260C |
| **Volatiles** | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,3-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromoethane | ND | 0.25 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloroethane | ND | 0.60 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloropropane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,3-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,4-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 2-Hexanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 4-Methyl-2-pentanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Acetone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Benzene | ND | 0.70 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Bromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Bromodichloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Bromoform | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Bromomethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Carbon Disulfide | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Carbon tetrachloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Chlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Chloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Chloroform | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Chloromethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| cis-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Cyclohexane | ND | 5.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Dibromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Dichlorodifluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Ethylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Isopropylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| m&p-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methyl ethyl ketone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methylacetate | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methylcyclohexane | ND | 2.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methylene chloride | ND | 3.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| o-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Styrene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Toluene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Total Xylenes | ND | 1.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,2-Dichloroethene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorofluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorotrifluoroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Vinyl chloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 98 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Bromofluorobenzene | 92 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Dibromofluoromethane | 103 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Toluene-d8 | 101 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| Volatile Library Search Top 10 | Completed | | | | | 08/08/22 | MH | | |

## Semivolatiles

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Biphenyl | ND | 3.3 | 3.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 1,2,4,5-Tetrachlorobenzene | ND | 3.3 | 3.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,2'-Oxybis(1-Chloropropane) | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | 1 |
| 2,3,4,6-tetrachlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4,5-Trichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4,6-Trichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4-Dichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4-Dimethylphenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4-Dinitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4-Dinitrotoluene | ND | 4.7 | 1.9 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,6-Dinitrotoluene | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Chloronaphthalene | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Chlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Methylnaphthalene | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Methylphenol (o-cresol) | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Nitroaniline | ND | 4.7 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Nitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 3&4-Methylphenol (m&p-cresol) | ND | 4.7 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 3,3'-Dichlorobenzidine | ND | 4.7 | 2.2 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 3-Nitroaniline | ND | 4.7 | 1.8 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4,6-Dinitro-2-methylphenol | ND | 1.0 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Bromophenyl phenyl ether | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Chloro-3-methylphenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Chloroaniline | ND | 4.7 | 2.2 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Chlorophenyl phenyl ether | ND | 4.7 | 1.6 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Nitroaniline | ND | 4.7 | 1.6 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Nitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| Acenaphthene | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| Acetophenone | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| Atrazine | ND | 0.94 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| Benzaldehyde | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| Benzyl butyl phthalate | ND | 4.7 | 1.2 | ug/L | 1 | 08/09/22 | WB | SW8270D | |

Project ID: HARRISON LANDFILL
Client ID: SW-2 8-2-22

Phoenix I.D.: CL97034

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Bis(2-chloroethoxy)methane | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 0.94 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Caprolactam | ND | 4.7 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Carbazole | ND | 4.7 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Dibenzofuran | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Diethyl phthalate | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Dimethylphthalate | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Di-n-butylphthalate | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Di-n-octylphthalate | ND | 4.7 | 1.2 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Hexachlorocyclopentadiene | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Hexachloroethane | ND | 0.94 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Isophorone | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Naphthalene | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| N-Nitrosodiphenylamine | ND | 4.7 | 1.8 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Phenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 72 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |
| % 2-Fluorobiphenyl | 67 | | | % | 1 | 08/09/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 59 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |
| % Nitrobenzene-d5 | 63 | | | % | 1 | 08/09/22 | WB | 30 - 130 % |
| % Phenol-d5 | 52 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |
| % Terphenyl-d14 | 67 | | | % | 1 | 08/09/22 | WB | 30 - 130 % |

## Semivolatiles

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Acenaphthylene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Anthracene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benz(a)anthracene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(a)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(b)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(ghi)perylene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(k)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Bis(2-chloroethyl)ether | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Chrysene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Dibenz(a,h)anthracene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Fluoranthene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Fluorene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Hexachlorobenzene | ND | 0.04 | 0.04 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Hexachlorobutadiene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Hexachlorocyclopentadiene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Indeno(1,2,3-cd)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Nitrobenzene | ND | 0.38 | 0.38 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| N-Nitrosodimethylamine | ND | 0.19 | 0.19 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Pentachlorophenol | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Phenanthrene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Pyrene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 94 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % 2-Fluorobiphenyl | 60 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 65 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: SW-2 8-2-22

Phoenix I.D.: CL97034

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| % Nitrobenzene-d5 | 84 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % Phenol-d5 | 71 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % Terphenyl-d14 | 76 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| SVOA Library Search Top 15 | Completed | | | | | 08/09/22 | 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:
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**
**September 08, 2022**
**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

September 08, 2022

FOR: Attn: Paul J. DiMaria, PE
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SURFACE WATER | Collected by: | | 08/02/22 | 14:55 |
| Location Code: | CASHIN-NYDOT | Received by: | CP | 08/03/22 | 17:50 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCL97028
Phoenix ID: CL97035

Project ID: HARRISON LANDFILL
Client ID: SW-4 8-2-22

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|---|
| Silver | ND | | 0.005 | 0.002 | mg/L | 1 | 08/10/22 | EK | SW6010D |
| Aluminum | 7.42 | | 0.020 | 0.0024 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Arsenic - LDL | 0.003 | J | 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Barium | 0.190 | | 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Beryllium | ND | | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Calcium | 52.7 | | 0.010 | 0.003 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cadmium | 0.001 | J | 0.004 | 0.0005 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cobalt | 0.007 | | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chromium | 0.015 | | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Copper | 0.014 | | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Iron | 19.1 | | 0.01 | 0.01 | mg/L | 1 | 08/10/22 | EK | E200.7 |
| Mercury | ND | | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium | 3.6 | | 0.1 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Magnesium | 14.2 | | 0.010 | 0.01 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Manganese | 8.96 | | 0.050 | 0.010 | mg/L | 10 | 08/10/22 | EK | SW6010D |
| Sodium | 12.4 | | 0.10 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Nickel | 0.015 | | 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Lead | 0.022 | | 0.002 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Antimony | ND | | 0.0030 | 0.0005 | mg/L | 5 | 08/08/22 | CPP | SW6020B |
| Selenium | ND | | 0.010 | 0.001 | mg/L | 5 | 08/08/22 | CPP | SW6020B |
| Thallium | ND | | 0.0005 | 0.0005 | mg/L | 5 | 08/08/22 | CPP | SW6020B |
| Vanadium | 0.021 | | 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Zinc | 0.081 | | 0.010 | 0.002 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chloride | 6.3 | | 3.0 | 0.01 | mg/L | 1 | 08/04/22 | CL | SM4500CLE-11 |
| Total Cyanide | ND | | 0.010 | 0.005 | mg/L | 1 | 08/09/22 | CL/GD | SW9010C/SW9012B |
| Mercury Digestion | Completed | | | | | | 08/04/22 | AB/AB | SW7470A |
| Semi-Volatile Extraction | Completed | | | | | | 08/04/22 | X/MQ | SW3520C |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: SW-4 8-2-22

Phoenix I.D.: CL97035

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Total Metals Digestion | Completed | | | | | 08/05/22 | AG | |
| Total Metals Digestion MS | Completed | | | | | 08/04/22 | AG | |
| **1,4-dioxane** | | | | | | | | |
| 1,4-dioxane | ND | 100 | 50 | ug/l | 1 | 08/06/22 | MH | SW8260C |
| **Volatiles** | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,3-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromoethane | ND | 0.25 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloroethane | ND | 0.60 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloropropane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,3-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,4-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 2-Hexanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 4-Methyl-2-pentanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Acetone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Benzene | ND | 0.70 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Bromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Bromodichloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Bromoform | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Bromomethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Carbon Disulfide | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Carbon tetrachloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Chlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Chloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Chloroform | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Chloromethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| cis-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Cyclohexane | ND | 5.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Dibromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Dichlorodifluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Ethylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Isopropylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| m&p-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methyl ethyl ketone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methylacetate | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methylcyclohexane | ND | 2.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methylene chloride | ND | 3.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| o-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Styrene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Toluene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Total Xylenes | ND | 1.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,2-Dichloroethene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorofluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorotrifluoroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Vinyl chloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 97 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Bromofluorobenzene | 93 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Dibromofluoromethane | 99 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Toluene-d8 | 101 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| Volatile Library Search Top 10 | Completed | | | | | 08/08/22 | MH | | |

## Semivolatiles

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Biphenyl | ND | 3.4 | 3.4 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 1,2,4,5-Tetrachlorobenzene | ND | 3.4 | 3.4 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,2'-Oxybis(1-Chloropropane) | ND | 4.8 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | 1 |
| 2,3,4,6-tetrachlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4,5-Trichlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4,6-Trichlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4-Dichlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4-Dimethylphenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4-Dinitrophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4-Dinitrotoluene | ND | 4.8 | 1.9 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,6-Dinitrotoluene | ND | 4.8 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Chloronaphthalene | ND | 4.8 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Chlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Methylnaphthalene | ND | 4.8 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Methylphenol (o-cresol) | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Nitroaniline | ND | 4.8 | 0.96 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2-Nitrophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 3&4-Methylphenol (m&p-cresol) | ND | 4.8 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 3,3'-Dichlorobenzidine | ND | 4.8 | 2.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 3-Nitroaniline | ND | 4.8 | 1.8 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4,6-Dinitro-2-methylphenol | ND | 1.0 | 0.96 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Bromophenyl phenyl ether | ND | 4.8 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Chloro-3-methylphenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Chloroaniline | ND | 4.8 | 2.2 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Chlorophenyl phenyl ether | ND | 4.8 | 1.6 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Nitroaniline | ND | 4.8 | 1.6 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 4-Nitrophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| Acenaphthene | ND | 4.8 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| Acetophenone | ND | 4.8 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| Atrazine | ND | 0.96 | 0.96 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| Benzaldehyde | ND | 4.8 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| Benzyl butyl phthalate | ND | 4.8 | 1.2 | ug/L | 1 | 08/09/22 | WB | SW8270D | |

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Bis(2-chloroethoxy)methane | ND | 4.8 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 0.96 | 0.96 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Caprolactam | ND | 4.8 | 0.96 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Carbazole | ND | 4.8 | 0.96 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Dibenzofuran | ND | 4.8 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Diethyl phthalate | ND | 4.8 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Dimethylphthalate | ND | 4.8 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Di-n-butylphthalate | ND | 4.8 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Di-n-octylphthalate | ND | 4.8 | 1.2 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Hexachlorocyclopentadiene | ND | 4.8 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Hexachloroethane | ND | 0.96 | 0.96 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Isophorone | ND | 4.8 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Naphthalene | ND | 4.8 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 4.8 | 1.6 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| N-Nitrosodiphenylamine | ND | 4.8 | 1.8 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Phenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 29 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |
| % 2-Fluorobiphenyl | 73 | | | % | 1 | 08/09/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 32 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |
| % Nitrobenzene-d5 | 75 | | | % | 1 | 08/09/22 | WB | 30 - 130 % |
| % Phenol-d5 | 28 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |
| % Terphenyl-d14 | 52 | | | % | 1 | 08/09/22 | WB | 30 - 130 % |
| **Semivolatiles** | | | | | | | | |
| Acenaphthylene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Anthracene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benz(a)anthracene | 0.04 | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(a)pyrene | 0.05 | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(b)fluoranthene | 0.06 | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(ghi)perylene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Benzo(k)fluoranthene | 0.06 | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Bis(2-chloroethyl)ether | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Chrysene | 0.06 | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Dibenz(a,h)anthracene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Fluoranthene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Fluorene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Hexachlorobenzene | ND | 0.04 | 0.04 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Hexachlorobutadiene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Hexachlorocyclopentadiene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Indeno(1,2,3-cd)pyrene | 0.06 | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Nitrobenzene | ND | 0.38 | 0.38 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| N-Nitrosodimethylamine | ND | 0.19 | 0.19 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Pentachlorophenol | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Phenanthrene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| Pyrene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 38 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % 2-Fluorobiphenyl | 63 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 34 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |

Project ID: HARRISON LANDFILL
Client ID: SW-4 8-2-22

Phoenix I.D.: CL97035

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| % Nitrobenzene-d5 | 90 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| % Phenol-d5 | 37 | | | % | 1 | 08/08/22 | WB | 15 - 110 % |
| % Terphenyl-d14 | 60 | | | % | 1 | 08/08/22 | WB | 30 - 130 % |
| SVOA Library Search Top 15 | Completed | | | | | 08/09/22 | 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:
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**
**September 08, 2022**
**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

September 08, 2022

FOR: Attn: Paul J. DiMaria, PE
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SEDIMENT | Collected by: | | 08/02/22 | 8:10 |
| Location Code: | CASHIN-NYDOT | Received by: | CP | 08/03/22 | 17:50 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCL97028
Phoenix ID: CL97036

Project ID: HARRISON LANDFILL
Client ID: SD-1 8-2-22

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|---|
| Silver | ND | | 0.48 | 0.48 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Aluminum | 8570 | | 48 | 9.5 | mg/Kg | 10 | 08/04/22 | EK | SW6010D |
| Arsenic | 1.13 | | 0.95 | 0.95 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Barium | 58.9 | | 1.0 | 0.48 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Beryllium | 0.25 | J | 0.38 | 0.19 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Calcium | 1840 | | 48 | 44 | mg/Kg | 10 | 08/04/22 | EK | SW6010D |
| Cadmium | 1.12 | | 0.48 | 0.48 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Cobalt | 7.43 | | 0.48 | 0.48 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Chromium | 17.9 | | 0.48 | 0.48 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Copper | 13.4 | * | 1.0 | 0.48 | mg/kg | 1 | 08/05/22 | EK | SW6010D |
| Iron | 18700 | | 48 | 48 | mg/Kg | 10 | 08/04/22 | EK | SW6010D |
| Mercury | 0.02 | J | 0.03 | 0.02 | mg/Kg | 2 | 08/04/22 | MGH | SW7471B |
| Potassium | 1830 | N | 95 | 37 | mg/Kg | 10 | 08/04/22 | EK | SW6010D |
| Magnesium | 3090 | | 48 | 48 | mg/Kg | 10 | 08/04/22 | EK | SW6010D |
| Manganese | 328 | N, * | 4.8 | 4.8 | mg/Kg | 10 | 08/04/22 | EK | SW6010D |
| Sodium | 101 | N | 10 | 4.1 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Nickel | 11.7 | | 0.48 | 0.48 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Lead | 7.9 | | 1.0 | 0.48 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Antimony | ND | | 4.8 | 4.8 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Selenium | ND | | 1.9 | 1.6 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Thallium | ND | | 1.9 | 1.9 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Vanadium | 27.1 | | 0.48 | 0.48 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Zinc | 40.0 | | 1.0 | 0.48 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Percent Solid | 73 | | | | % | | 08/03/22 | ae | SW846-%Solid |
| Chloride | ND | | 68 | 41 | mg/kg | 10 | 08/05/22 | BS/GD | SW9056A |
| Total Cyanide (SW9010C Distill.) | 0.36 | J | 0.68 | 0.342 | mg/Kg | 1 | 08/08/22 | M/C/B/G | SW9012B |
| Mercury Digestion | Completed | | | | | | 08/04/22 | AB/AB | SW7471B |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: SD-1 8-2-22

Phoenix I.D.: CL97036

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|---|
| Soil Extraction for SVOA | Completed | | | | | | 08/03/22 | B/MO | SW3546 |
| Total Metals Digest | Completed | | | | | | 08/03/22 | L/AG/N | SW3050B |
| **1,4-dioxane** | | | | | | | | | |
| 1,4-dioxane | ND | | 87 | 47 | ug/kg | 1 | 08/05/22 | JLI | SW8260C |
| **Volatiles** | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,1,2,2-Tetrachloroethane | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,1,2-Trichloroethane | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,1-Dichloroethane | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,1-Dichloroethene | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2,3-Trichlorobenzene | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2,4-Trichlorobenzene | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dibromo-3-chloropropane | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dibromoethane | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dichlorobenzene | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dichloroethane | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dichloropropane | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,3-Dichlorobenzene | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,4-Dichlorobenzene | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 2-Hexanone | ND | | 29 | 5.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 4-Methyl-2-pentanone | ND | | 29 | 5.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Acetone | 69 | S | 29 | 5.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Benzene | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Bromochloromethane | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Bromodichloromethane | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Bromoform | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Bromomethane | ND | | 5.8 | 2.3 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Carbon Disulfide | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Carbon tetrachloride | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Chlorobenzene | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Chloroethane | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Chloroform | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Chloromethane | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| cis-1,2-Dichloroethene | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| cis-1,3-Dichloropropene | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Cyclohexane | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Dibromochloromethane | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Dichlorodifluoromethane | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Ethylbenzene | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Isopropylbenzene | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| m&p-Xylene | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methyl ethyl ketone | 8.4 | J | 35 | 5.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | | 12 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methylacetate | ND | | 5.8 | 5.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methylcyclohexane | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methylene chloride | ND | | 5.8 | 5.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| o-Xylene | ND | | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Styrene | ND | | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Toluene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Total Xylenes | ND | 5.8 | 5.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| trans-1,2-Dichloroethene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| trans-1,3-Dichloropropene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Trichloroethene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Trichlorofluoromethane | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Trichlorotrifluoroethane | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Vinyl chloride | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 102 | | | % | 1 | 08/05/22 | JLI | 70 - 130 % | |
| % Bromofluorobenzene | 94 | | | % | 1 | 08/05/22 | JLI | 70 - 130 % | |
| % Dibromofluoromethane | 100 | | | % | 1 | 08/05/22 | JLI | 70 - 130 % | |
| % Toluene-d8 | 97 | | | % | 1 | 08/05/22 | JLI | 70 - 130 % | |
| Volatile Library Search Top 10 | Completed | | | | | 08/06/22 | JLI | | |

## Semivolatiles

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Biphenyl | ND | 400 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 1,2,4,5-Tetrachlorobenzene | ND | 400 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,2'-Oxybis(1-Chloropropane) | ND | 400 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | 1 |
| 2,3,4,6-tetrachlorophenol | ND | 400 | 270 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4,5-Trichlorophenol | ND | 400 | 310 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4,6-Trichlorophenol | ND | 230 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4-Dichlorophenol | ND | 230 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4-Dimethylphenol | ND | 400 | 140 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4-Dinitrophenol | ND | 400 | 400 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4-Dinitrotoluene | ND | 230 | 220 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,6-Dinitrotoluene | ND | 230 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Chloronaphthalene | ND | 400 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Chlorophenol | ND | 400 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Methylnaphthalene | ND | 400 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Methylphenol (o-cresol) | ND | 400 | 270 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Nitroaniline | ND | 400 | 400 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Nitrophenol | ND | 400 | 360 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 3&4-Methylphenol (m&p-cresol) | ND | 400 | 220 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 3,3'-Dichlorobenzidine | ND | 230 | 230 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 3-Nitroaniline | ND | 1100 | 400 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4,6-Dinitro-2-methylphenol | ND | 400 | 400 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Bromophenyl phenyl ether | ND | 400 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Chloro-3-methylphenol | ND | 400 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Chloroaniline | ND | 1100 | 260 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Chlorophenyl phenyl ether | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Nitroaniline | ND | 2800 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Nitrophenol | ND | 400 | 260 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Acenaphthene | ND | 400 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Acenaphthylene | ND | 230 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Acetophenone | ND | 400 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Anthracene | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Atrazine | ND | 400 | 150 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |

Project ID: HARRISON LANDFILL
Client ID: SD-1 8-2-22

Phoenix I.D.: CL97036

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Benz(a)anthracene | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzaldehyde | ND | 400 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzo(a)pyrene | ND | 230 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzo(b)fluoranthene | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzo(ghi)perylene | ND | 400 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzo(k)fluoranthene | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzyl butyl phthalate | ND | 400 | 150 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 400 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Bis(2-chloroethyl)ether | ND | 230 | 150 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 400 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Caprolactam | ND | 400 | 400 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Carbazole | ND | 400 | 280 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Chrysene | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Dibenz(a,h)anthracene | ND | 230 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Dibenzofuran | ND | 400 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Diethyl phthalate | ND | 400 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Dimethylphthalate | ND | 400 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Di-n-butylphthalate | ND | 400 | 150 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Di-n-octylphthalate | ND | 400 | 150 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Fluoranthene | ND | 400 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Fluorene | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Hexachlorobenzene | ND | 230 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Hexachlorobutadiene | ND | 400 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Hexachlorocyclopentadiene | ND | 400 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Hexachloroethane | ND | 230 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Indeno(1,2,3-cd)pyrene | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Isophorone | ND | 230 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Naphthalene | ND | 400 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Nitrobenzene | ND | 230 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| N-Nitrosodimethylamine | ND | 400 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 230 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| N-Nitrosodiphenylamine | ND | 230 | 220 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Pentachlorophenol | ND | 400 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Phenanthrene | ND | 230 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Phenol | ND | 400 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Pyrene | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 90 | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % 2-Fluorobiphenyl | 73 | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 77 | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % Nitrobenzene-d5 | 68 | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % Phenol-d5 | 77 | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % Terphenyl-d14 | 84 | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| SVOA Library Search Top 15 | Completed | | | | | 08/04/22 | WB | |

Project ID: HARRISON LANDFILL
Client ID: SD-1 8-2-22

Phoenix I.D.: CL97036

| 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.

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:

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

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**

**September 08, 2022**

**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

September 08, 2022

FOR: Attn: Paul J. DiMaria, PE
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SEDIMENT | Collected by: | | 08/02/22 | 11:00 |
| Location Code: | CASHIN-NYDOT | Received by: | CP | 08/03/22 | 17:50 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCL97028
Phoenix ID: CL97037

Project ID: HARRISON LANDFILL
Client ID: SD-2 8-2-22

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|---|
| Silver | ND | | 0.52 | 0.52 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Aluminum | 6160 | | 52 | 10 | mg/Kg | 10 | 08/04/22 | EK | SW6010D |
| Arsenic | 1.7 | | 1.0 | 1.0 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Barium | 64.4 | | 1.0 | 0.52 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Beryllium | ND | | 0.42 | 0.21 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Calcium | 48800 | | 52 | 48 | mg/Kg | 10 | 08/04/22 | EK | SW6010D |
| Cadmium | 1.41 | | 0.52 | 0.52 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Cobalt | 6.49 | | 0.52 | 0.52 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Chromium | 9.57 | | 0.52 | 0.52 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Copper | 16.6 | * | 1.0 | 0.52 | mg/kg | 1 | 08/05/22 | EK | SW6010D |
| Iron | 20300 | | 52 | 52 | mg/Kg | 10 | 08/04/22 | EK | SW6010D |
| Mercury | ND | | 0.04 | 0.02 | mg/Kg | 2 | 08/04/22 | MGH | SW7471B |
| Potassium | 1320 | N | 100 | 41 | mg/Kg | 10 | 08/04/22 | EK | SW6010D |
| Magnesium | 28100 | | 52 | 52 | mg/Kg | 10 | 08/04/22 | EK | SW6010D |
| Manganese | 2420 | N, * | 52 | 52 | mg/Kg | 100 | 08/05/22 | CPP | SW6010D |
| Sodium | 139 | N | 10 | 4.5 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Nickel | 11.2 | | 0.52 | 0.52 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Lead | 14.8 | | 1.0 | 0.52 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Antimony | ND | | 5.2 | 5.2 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Selenium | ND | | 2.1 | 1.8 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Thallium | ND | | 2.1 | 2.1 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Vanadium | 16.6 | | 0.52 | 0.52 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Zinc | 52.4 | | 1.0 | 0.52 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Percent Solid | 65 | | | | % | | 08/03/22 | ae | SW846-%Solid |
| Chloride | ND | | 77 | 46 | mg/kg | 10 | 08/05/22 | BS/GD | SW9056A |
| Total Cyanide (SW9010C Distill.) | 0.75 | J | 0.77 | 0.385 | mg/Kg | 1 | 08/08/22 | M/C/B/G | SW9012B |
| Mercury Digestion | Completed | | | | | | 08/04/22 | AB/AB | SW7471B |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: SD-2 8-2-22

Phoenix I.D.: CL97037

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Soil Extraction for SVOA | Completed | | | | | 08/03/22 | B/MO | SW3546 |
| Total Metals Digest | Completed | | | | | 08/03/22 | L/AG/N | SW3050B |
| **1,4-dioxane** | | | | | | | | |
| 1,4-dioxane | ND | 87 | 46 | ug/kg | 1 | 08/05/22 | JLI | SW8260C |
| **Volatiles** | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,1,2,2-Tetrachloroethane | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,1,2-Trichloroethane | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,1-Dichloroethane | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,1-Dichloroethene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2,3-Trichlorobenzene | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2,4-Trichlorobenzene | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dibromo-3-chloropropane | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dibromoethane | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dichlorobenzene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dichloroethane | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dichloropropane | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,3-Dichlorobenzene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,4-Dichlorobenzene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 2-Hexanone | ND | 29 | 5.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 4-Methyl-2-pentanone | ND | 29 | 5.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Acetone | ND | 29 | 5.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Benzene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Bromochloromethane | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Bromodichloromethane | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Bromoform | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Bromomethane | ND | 5.8 | 2.3 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Carbon Disulfide | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Carbon tetrachloride | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Chlorobenzene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Chloroethane | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Chloroform | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Chloromethane | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| cis-1,2-Dichloroethene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| cis-1,3-Dichloropropene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Cyclohexane | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Dibromochloromethane | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Dichlorodifluoromethane | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Ethylbenzene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Isopropylbenzene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| m&p-Xylene | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methyl ethyl ketone | ND | 35 | 5.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 12 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methylacetate | ND | 5.8 | 5.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methylcyclohexane | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methylene chloride | ND | 5.8 | 5.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| o-Xylene | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Styrene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Toluene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Total Xylenes | ND | 5.8 | 5.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| trans-1,2-Dichloroethene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| trans-1,3-Dichloropropene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Trichloroethene | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Trichlorofluoromethane | ND | 5.8 | 1.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Trichlorotrifluoroethane | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Vinyl chloride | ND | 5.8 | 0.58 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 102 | | | % | 1 | 08/05/22 | JLI | 70 - 130 % | |
| % Bromofluorobenzene | 93 | | | % | 1 | 08/05/22 | JLI | 70 - 130 % | |
| % Dibromofluoromethane | 99 | | | % | 1 | 08/05/22 | JLI | 70 - 130 % | |
| % Toluene-d8 | 98 | | | % | 1 | 08/05/22 | JLI | 70 - 130 % | |
| Volatile Library Search Top 10 | Completed | | | | | 08/06/22 | JLI | | |

## Semivolatiles

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Biphenyl | ND | 450 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 1,2,4,5-Tetrachlorobenzene | ND | 450 | 220 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,2'-Oxybis(1-Chloropropane) | ND | 450 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | 1 |
| 2,3,4,6-tetrachlorophenol | ND | 450 | 300 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4,5-Trichlorophenol | ND | 450 | 350 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4,6-Trichlorophenol | ND | 250 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4-Dichlorophenol | ND | 250 | 220 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4-Dimethylphenol | ND | 450 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4-Dinitrophenol | ND | 450 | 450 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4-Dinitrotoluene | ND | 250 | 250 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,6-Dinitrotoluene | ND | 250 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Chloronaphthalene | ND | 450 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Chlorophenol | ND | 450 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Methylnaphthalene | ND | 450 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Methylphenol (o-cresol) | ND | 450 | 300 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Nitroaniline | ND | 450 | 450 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Nitrophenol | ND | 450 | 400 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 3&4-Methylphenol (m&p-cresol) | ND | 450 | 250 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 3,3'-Dichlorobenzidine | ND | 250 | 250 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 3-Nitroaniline | ND | 1300 | 450 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4,6-Dinitro-2-methylphenol | ND | 450 | 450 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Bromophenyl phenyl ether | ND | 450 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Chloro-3-methylphenol | ND | 450 | 220 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Chloroaniline | ND | 1300 | 300 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Chlorophenyl phenyl ether | ND | 450 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Nitroaniline | ND | 3200 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Nitrophenol | ND | 450 | 290 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Acenaphthene | ND | 450 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Acenaphthylene | ND | 250 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Acetophenone | ND | 450 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Anthracene | ND | 450 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Atrazine | ND | 450 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |

Project ID: HARRISON LANDFILL
Client ID: SD-2 8-2-22

Phoenix I.D.: CL97037

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|---|
| Benz(a)anthracene | 220 | J | 450 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzaldehyde | ND | | 450 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzo(a)pyrene | 210 | J | 250 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzo(b)fluoranthene | ND | | 450 | 220 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzo(ghi)perylene | ND | | 450 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzo(k)fluoranthene | ND | | 450 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzyl butyl phthalate | ND | | 450 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Bis(2-chloroethoxy)methane | ND | | 450 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Bis(2-chloroethyl)ether | ND | | 250 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | | 450 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Caprolactam | ND | | 450 | 450 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Carbazole | ND | | 450 | 320 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Chrysene | 240 | J | 450 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Dibenz(a,h)anthracene | ND | | 250 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Dibenzofuran | ND | | 450 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Diethyl phthalate | ND | | 450 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Dimethylphthalate | ND | | 450 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Di-n-butylphthalate | ND | | 450 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Di-n-octylphthalate | ND | | 450 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Fluoranthene | 600 | | 450 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Fluorene | ND | | 450 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Hexachlorobenzene | ND | | 250 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Hexachlorobutadiene | ND | | 450 | 230 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Hexachlorocyclopentadiene | ND | | 450 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Hexachloroethane | ND | | 250 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Indeno(1,2,3-cd)pyrene | ND | | 450 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Isophorone | ND | | 250 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Naphthalene | ND | | 450 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Nitrobenzene | ND | | 250 | 220 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| N-Nitrosodimethylamine | ND | | 450 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| N-Nitrosodi-n-propylamine | ND | | 250 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| N-Nitrosodiphenylamine | ND | | 250 | 240 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Pentachlorophenol | ND | | 450 | 240 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Phenanthrene | 610 | | 250 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Phenol | ND | | 450 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Pyrene | 580 | | 450 | 220 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | | | |
| % 2,4,6-Tribromophenol | 92 | | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % 2-Fluorobiphenyl | 75 | | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 71 | | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % Nitrobenzene-d5 | 65 | | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % Phenol-d5 | 77 | | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % Terphenyl-d14 | 88 | | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| SVOA Library Search Top 15 | Completed | | | | | | 08/04/22 | WB | |

Project ID: HARRISON LANDFILL
Client ID: SD-2 8-2-22

Phoenix I.D.: CL97037

| 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.

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:

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

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**
**September 08, 2022**
**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

September 08, 2022

FOR: Attn: Paul J. DiMaria, PE
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SEDIMENT | Collected by: | | 08/02/22 | 12:10 |
| Location Code: | CASHIN-NYDOT | Received by: | CP | 08/03/22 | 17:50 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCL97028
Phoenix ID: CL97038

Project ID: HARRISON LANDFILL
Client ID: SD-3 8-2-22

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|---|
| Silver | ND | | 0.77 | 0.77 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Aluminum | 19000 | | 77 | 15 | mg/Kg | 10 | 08/04/22 | EK | SW6010D |
| Arsenic | 4.2 | | 1.5 | 1.5 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Barium | 118 | | 1.5 | 0.77 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Beryllium | 0.74 | | 0.62 | 0.31 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Calcium | 12200 | | 7.7 | 7.1 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Cadmium | 4.26 | | 0.77 | 0.77 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Cobalt | 12.6 | | 0.77 | 0.77 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Chromium | 33.6 | | 0.77 | 0.77 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Copper | 50.0 | * | 1.5 | 0.77 | mg/kg | 1 | 08/05/22 | EK | SW6010D |
| Iron | 20000 | | 7.7 | 7.7 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Mercury | ND | | 0.14 | 0.08 | mg/Kg | 5 | 08/04/22 | MGH | SW7471B |
| Potassium | 2020 | N | 15 | 6.0 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Magnesium | 5940 | | 7.7 | 7.7 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Manganese | 865 | N, * | 7.7 | 7.7 | mg/Kg | 10 | 08/04/22 | EK | SW6010D |
| Sodium | 740 | N | 15 | 6.6 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Nickel | 36.2 | | 0.77 | 0.77 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Lead | 206 | | 1.5 | 0.77 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Antimony | ND | | 7.7 | 7.7 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Selenium | ND | | 3.1 | 2.6 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Thallium | ND | | 3.1 | 3.1 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Vanadium | 50.7 | | 0.77 | 0.77 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Zinc | 183 | | 1.5 | 0.77 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Percent Solid | 45 | | | | % | | 08/03/22 | ae | SW846-%Solid |
| Chloride | 464 | | 111 | 67 | mg/kg | 10 | 08/05/22 | BS/GD | SW9056A |
| Total Cyanide (SW9010C Distill.) | 1.09 | J | 1.11 | 0.556 | mg/Kg | 1 | 08/09/22 | CL/GD | SW9012B |
| Mercury Digestion | Completed | | | | | | 08/04/22 | AB/AB | SW7471B |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: SD-3 8-2-22

Phoenix I.D.: CL97038

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Soil Extraction for SVOA | Completed | | | | | 08/03/22 | B/MO | SW3546 |
| Total Metals Digest | Completed | | | | | 08/03/22 | L/AG/N | SW3050B |
| **1,4-dioxane** | | | | | | | | |
| 1,4-dioxane | ND | 270 | 150 | ug/kg | 1 | 08/05/22 | JLI | SW8260C |
| **Volatiles** | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,1,2,2-Tetrachloroethane | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,1,2-Trichloroethane | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,1-Dichloroethane | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,1-Dichloroethene | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2,3-Trichlorobenzene | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2,4-Trichlorobenzene | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dibromo-3-chloropropane | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dibromoethane | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dichlorobenzene | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dichloroethane | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dichloropropane | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,3-Dichlorobenzene | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,4-Dichlorobenzene | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 2-Hexanone | ND | 91 | 18 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 4-Methyl-2-pentanone | ND | 91 | 18 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Acetone | ND | 91 | 18 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Benzene | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Bromochloromethane | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Bromodichloromethane | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Bromoform | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Bromomethane | ND | 18 | 7.3 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Carbon Disulfide | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Carbon tetrachloride | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Chlorobenzene | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Chloroethane | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Chloroform | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Chloromethane | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| cis-1,2-Dichloroethene | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| cis-1,3-Dichloropropene | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Cyclohexane | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Dibromochloromethane | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Dichlorodifluoromethane | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Ethylbenzene | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Isopropylbenzene | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| m&p-Xylene | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methyl ethyl ketone | ND | 110 | 18 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 36 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methylacetate | ND | 18 | 18 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methylcyclohexane | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methylene chloride | ND | 18 | 18 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| o-Xylene | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Styrene | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Toluene | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Total Xylenes | ND | 18 | 18 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| trans-1,2-Dichloroethene | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| trans-1,3-Dichloropropene | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Trichloroethene | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Trichlorofluoromethane | ND | 18 | 3.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Trichlorotrifluoroethane | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Vinyl chloride | ND | 18 | 1.8 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 104 | | | % | 1 | 08/05/22 | JLI | 70 - 130 % | |
| % Bromofluorobenzene | 92 | | | % | 1 | 08/05/22 | JLI | 70 - 130 % | |
| % Dibromofluoromethane | 103 | | | % | 1 | 08/05/22 | JLI | 70 - 130 % | |
| % Toluene-d8 | 95 | | | % | 1 | 08/05/22 | JLI | 70 - 130 % | |
| Volatile Library Search Top 10 | Completed | | | | | 08/06/22 | JLI | | |

## Semivolatiles

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Biphenyl | ND | 770 | 340 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 1,2,4,5-Tetrachlorobenzene | ND | 770 | 390 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,2'-Oxybis(1-Chloropropane) | ND | 770 | 310 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | 1 |
| 2,3,4,6-tetrachlorophenol | ND | 770 | 520 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4,5-Trichlorophenol | ND | 770 | 610 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4,6-Trichlorophenol | ND | 440 | 350 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4-Dichlorophenol | ND | 440 | 390 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4-Dimethylphenol | ND | 770 | 270 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4-Dinitrophenol | ND | 770 | 770 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4-Dinitrotoluene | ND | 440 | 440 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,6-Dinitrotoluene | ND | 440 | 350 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Chloronaphthalene | ND | 770 | 310 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Chlorophenol | ND | 770 | 310 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Methylnaphthalene | ND | 770 | 330 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Methylphenol (o-cresol) | ND | 770 | 520 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Nitroaniline | ND | 770 | 770 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Nitrophenol | ND | 770 | 700 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 3&4-Methylphenol (m&p-cresol) | ND | 770 | 440 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 3,3'-Dichlorobenzidine | ND | 440 | 440 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 3-Nitroaniline | ND | 2200 | 770 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4,6-Dinitro-2-methylphenol | ND | 770 | 770 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Bromophenyl phenyl ether | ND | 770 | 320 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Chloro-3-methylphenol | ND | 770 | 390 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Chloroaniline | ND | 2200 | 510 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Chlorophenyl phenyl ether | ND | 770 | 370 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Nitroaniline | ND | 5500 | 370 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Nitrophenol | ND | 770 | 500 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Acenaphthene | ND | 770 | 340 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Acenaphthylene | ND | 440 | 310 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Acetophenone | ND | 770 | 340 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Anthracene | ND | 770 | 360 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Atrazine | ND | 770 | 290 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |

Project ID: HARRISON LANDFILL
Client ID: SD-3 8-2-22

Phoenix I.D.: CL97038

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|---|
| Benz(a)anthracene | ND | | 770 | 370 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzaldehyde | ND | | 770 | 330 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzo(a)pyrene | ND | | 440 | 360 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzo(b)fluoranthene | ND | | 770 | 380 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzo(ghi)perylene | ND | | 770 | 360 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzo(k)fluoranthene | ND | | 770 | 370 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzyl butyl phthalate | ND | | 770 | 280 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Bis(2-chloroethoxy)methane | ND | | 770 | 300 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Bis(2-chloroethyl)ether | ND | | 440 | 300 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | | 770 | 320 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Caprolactam | ND | | 770 | 770 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Carbazole | ND | | 770 | 550 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Chrysene | ND | | 770 | 370 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Dibenz(a,h)anthracene | ND | | 440 | 360 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Dibenzofuran | ND | | 770 | 320 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Diethyl phthalate | ND | | 770 | 350 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Dimethylphthalate | ND | | 770 | 340 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Di-n-butylphthalate | ND | | 770 | 290 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Di-n-octylphthalate | ND | | 770 | 280 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Fluoranthene | 410 | J | 770 | 360 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Fluorene | ND | | 770 | 360 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Hexachlorobenzene | ND | | 440 | 320 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Hexachlorobutadiene | ND | | 770 | 400 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Hexachlorocyclopentadiene | ND | | 770 | 340 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Hexachloroethane | ND | | 440 | 330 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Indeno(1,2,3-cd)pyrene | ND | | 770 | 370 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Isophorone | ND | | 440 | 310 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Naphthalene | ND | | 770 | 320 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Nitrobenzene | ND | | 440 | 390 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| N-Nitrosodimethylamine | ND | | 770 | 310 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| N-Nitrosodi-n-propylamine | ND | | 440 | 360 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| N-Nitrosodiphenylamine | ND | | 440 | 420 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Pentachlorophenol | ND | | 770 | 420 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Phenanthrene | ND | | 440 | 320 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Phenol | ND | | 770 | 350 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Pyrene | ND | | 770 | 380 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | | | |
| % 2,4,6-Tribromophenol | 88 | | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % 2-Fluorobiphenyl | 72 | | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 76 | | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % Nitrobenzene-d5 | 73 | | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % Phenol-d5 | 79 | | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % Terphenyl-d14 | 79 | | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| SVOA Library Search Top 15 | Completed | | | | | | 08/22/22 | WB | |

Project ID: HARRISON LANDFILL
Client ID: SD-3 8-2-22

Phoenix I.D.: CL97038

| 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.

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:

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

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**
**September 08, 2022**
**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

September 08, 2022

FOR: Attn: Paul J. DiMaria, PE
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SEDIMENT | Collected by: | | 08/02/22 | 15:00 |
| Location Code: | CASHIN-NYDOT | Received by: | CP | 08/03/22 | 17:50 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCL97028
Phoenix ID: CL97039

Project ID: HARRISON LANDFILL
Client ID: SD-4 8-2-22

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|---|
| Silver | ND | | 0.46 | 0.46 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Aluminum | 3280 | | 46 | 9.1 | mg/Kg | 10 | 08/04/22 | EK | SW6010D |
| Arsenic | ND | | 0.91 | 0.91 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Barium | 45.9 | | 0.9 | 0.46 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Beryllium | ND | | 0.37 | 0.18 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Calcium | 8050 | | 4.6 | 4.2 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Cadmium | 0.89 | | 0.46 | 0.46 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Cobalt | 3.15 | | 0.46 | 0.46 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Chromium | 7.20 | | 0.46 | 0.46 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Copper | 4.5 | * | 0.9 | 0.46 | mg/kg | 1 | 08/05/22 | EK | SW6010D |
| Iron | 9310 | | 4.6 | 4.6 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Mercury | ND | | 0.04 | 0.02 | mg/Kg | 2 | 08/04/22 | MGH | SW7471B |
| Potassium | 461 | N | 9 | 3.6 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Magnesium | 5230 | | 4.6 | 4.6 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Manganese | 1210 | N, * | 4.6 | 4.6 | mg/Kg | 10 | 08/04/22 | EK | SW6010D |
| Sodium | 64 | N | 9 | 3.9 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Nickel | 7.12 | | 0.46 | 0.46 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Lead | 4.7 | | 0.9 | 0.46 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Antimony | ND | | 4.6 | 4.6 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Selenium | ND | | 1.8 | 1.6 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Thallium | ND | | 1.8 | 1.8 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Vanadium | 9.44 | | 0.46 | 0.46 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Zinc | 25.7 | | 0.9 | 0.46 | mg/Kg | 1 | 08/05/22 | EK | SW6010D |
| Percent Solid | 72 | | | | % | | 08/03/22 | ae | SW846-%Solid |
| Chloride | ND | | 69 | 42 | mg/kg | 10 | 08/05/22 | BS/GD | SW9056A |
| Total Cyanide (SW9010C Distill.) | ND | | 0.69 | 0.347 | mg/Kg | 1 | 08/09/22 | CL/GD | SW9012B |
| Mercury Digestion | Completed | | | | | | 08/04/22 | AB/AB | SW7471B |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: SD-4 8-2-22

Phoenix I.D.: CL97039

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Soil Extraction for SVOA | Completed | | | | | 08/03/22 | B/MO | SW3546 |
| Total Metals Digest | Completed | | | | | 08/03/22 | L/AG/N | SW3050B |
| **1,4-dioxane** | | | | | | | | |
| 1,4-dioxane | ND | 83 | 44 | ug/kg | 1 | 08/05/22 | JLI | SW8260C |
| **Volatiles** | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,1,2,2-Tetrachloroethane | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,1,2-Trichloroethane | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,1-Dichloroethane | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,1-Dichloroethene | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2,3-Trichlorobenzene | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2,4-Trichlorobenzene | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dibromo-3-chloropropane | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dibromoethane | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dichlorobenzene | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dichloroethane | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,2-Dichloropropane | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,3-Dichlorobenzene | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 1,4-Dichlorobenzene | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 2-Hexanone | ND | 28 | 5.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| 4-Methyl-2-pentanone | ND | 28 | 5.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Acetone | ND | 28 | 5.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Benzene | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Bromochloromethane | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Bromodichloromethane | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Bromoform | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Bromomethane | ND | 5.6 | 2.2 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Carbon Disulfide | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Carbon tetrachloride | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Chlorobenzene | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Chloroethane | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Chloroform | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Chloromethane | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| cis-1,2-Dichloroethene | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| cis-1,3-Dichloropropene | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Cyclohexane | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Dibromochloromethane | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Dichlorodifluoromethane | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Ethylbenzene | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Isopropylbenzene | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| m&p-Xylene | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methyl ethyl ketone | ND | 33 | 5.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 11 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methylacetate | ND | 5.6 | 5.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methylcyclohexane | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Methylene chloride | ND | 5.6 | 5.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| o-Xylene | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |
| Styrene | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C |

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Toluene | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Total Xylenes | ND | 5.6 | 5.6 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| trans-1,2-Dichloroethene | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| trans-1,3-Dichloropropene | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Trichloroethene | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Trichlorofluoromethane | ND | 5.6 | 1.1 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Trichlorotrifluoroethane | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| Vinyl chloride | ND | 5.6 | 0.56 | ug/Kg | 1 | 08/05/22 | JLI | SW8260C | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 101 | | | % | 1 | 08/05/22 | JLI | 70 - 130 % | |
| % Bromofluorobenzene | 93 | | | % | 1 | 08/05/22 | JLI | 70 - 130 % | |
| % Dibromofluoromethane | 100 | | | % | 1 | 08/05/22 | JLI | 70 - 130 % | |
| % Toluene-d8 | 97 | | | % | 1 | 08/05/22 | JLI | 70 - 130 % | |
| Volatile Library Search Top 10 | Completed | | | | | 08/06/22 | JLI | | |

## Semivolatiles

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Biphenyl | ND | 400 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 1,2,4,5-Tetrachlorobenzene | ND | 400 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,2'-Oxybis(1-Chloropropane) | ND | 400 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | 1 |
| 2,3,4,6-tetrachlorophenol | ND | 400 | 270 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4,5-Trichlorophenol | ND | 400 | 310 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4,6-Trichlorophenol | ND | 230 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4-Dichlorophenol | ND | 230 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4-Dimethylphenol | ND | 400 | 140 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4-Dinitrophenol | ND | 400 | 400 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,4-Dinitrotoluene | ND | 230 | 220 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2,6-Dinitrotoluene | ND | 230 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Chloronaphthalene | ND | 400 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Chlorophenol | ND | 400 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Methylnaphthalene | ND | 400 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Methylphenol (o-cresol) | ND | 400 | 270 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Nitroaniline | ND | 400 | 400 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 2-Nitrophenol | ND | 400 | 360 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 3&4-Methylphenol (m&p-cresol) | ND | 400 | 220 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 3,3'-Dichlorobenzidine | ND | 230 | 230 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 3-Nitroaniline | ND | 1100 | 400 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4,6-Dinitro-2-methylphenol | ND | 400 | 400 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Bromophenyl phenyl ether | ND | 400 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Chloro-3-methylphenol | ND | 400 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Chloroaniline | ND | 1100 | 260 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Chlorophenyl phenyl ether | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Nitroaniline | ND | 2800 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| 4-Nitrophenol | ND | 400 | 260 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Acenaphthene | ND | 400 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Acenaphthylene | ND | 230 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Acetophenone | ND | 400 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Anthracene | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |
| Atrazine | ND | 400 | 150 | ug/Kg | 1 | 08/04/22 | WB | SW8270D | |

Project ID: HARRISON LANDFILL
Client ID: SD-4 8-2-22

Phoenix I.D.: CL97039

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Benz(a)anthracene | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzaldehyde | ND | 400 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzo(a)pyrene | ND | 230 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzo(b)fluoranthene | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzo(ghi)perylene | ND | 400 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzo(k)fluoranthene | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Benzyl butyl phthalate | ND | 400 | 150 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 400 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Bis(2-chloroethyl)ether | ND | 230 | 150 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 400 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Caprolactam | ND | 400 | 400 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Carbazole | ND | 400 | 280 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Chrysene | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Dibenz(a,h)anthracene | ND | 230 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Dibenzofuran | ND | 400 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Diethyl phthalate | ND | 400 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Dimethylphthalate | ND | 400 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Di-n-butylphthalate | ND | 400 | 150 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Di-n-octylphthalate | ND | 400 | 150 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Fluoranthene | ND | 400 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Fluorene | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Hexachlorobenzene | ND | 230 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Hexachlorobutadiene | ND | 400 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Hexachlorocyclopentadiene | ND | 400 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Hexachloroethane | ND | 230 | 170 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Indeno(1,2,3-cd)pyrene | ND | 400 | 190 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Isophorone | ND | 230 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Naphthalene | ND | 400 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Nitrobenzene | ND | 230 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| N-Nitrosodimethylamine | ND | 400 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 230 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| N-Nitrosodiphenylamine | ND | 230 | 220 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Pentachlorophenol | ND | 400 | 210 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Phenanthrene | ND | 230 | 160 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Phenol | ND | 400 | 180 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| Pyrene | ND | 400 | 200 | ug/Kg | 1 | 08/04/22 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 99 | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % 2-Fluorobiphenyl | 80 | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 81 | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % Nitrobenzene-d5 | 73 | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % Phenol-d5 | 83 | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| % Terphenyl-d14 | 92 | | | % | 1 | 08/04/22 | WB | 30 - 130 % |
| SVOA Library Search Top 15 | Completed | | | | | 08/22/22 | WB | |

| 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.

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:

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

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**
**September 08, 2022**
**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

September 08, 2022

FOR: Attn: Paul J. DiMaria, PE
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | | 08/02/22 | |
| Location Code: | CASHIN-NYDOT | Received by: | CP | 08/03/22 | 17:50 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCL97028
Phoenix ID: CL97040

Project ID: HARRISON LANDFILL
Client ID: GW-DUPLICATE 8-2-22

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|---|
| Silver | ND | | 0.005 | 0.002 | mg/L | 1 | 08/10/22 | EK | SW6010D |
| Aluminum | 0.177 | | 0.020 | 0.0024 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Arsenic - LDL | ND | | 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Barium | 0.112 | | 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Beryllium | ND | | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Calcium | 114 | | 0.010 | 0.003 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cadmium | 0.001 | J | 0.004 | 0.0005 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cobalt | ND | | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chromium | ND | | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Copper | 0.003 | J | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Silver (Dissolved) | ND | | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Aluminum (Dissolved) | ND | | 0.011 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Arsenic, (Dissolved) | ND | | 0.003 | 0.004 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Barium (Dissolved) | 0.110 | | 0.011 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Beryllium (Dissolved) | ND | | 0.001 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Calcium (Dissolved) | 106 | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Cadmium (Dissolved) | ND | | 0.004 | 0.0005 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Cobalt, (Dissolved) | ND | | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Chromium (Dissolved) | ND | | 0.001 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Copper, (Dissolved) | 0.001 | J | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Iron, (Dissolved) | 0.13 | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Mercury (Dissolved) | ND | | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium (Dissolved) | 3.8 | | 0.1 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Magnesium (Dissolved) | 15.5 | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Manganese, (Dissolved) | 0.732 | | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Sodium (Dissolved) | 150 | | 1.1 | 1.1 | mg/L | 10 | 08/10/22 | EK | SW6010D |
| Nickel, (Dissolved) | 0.001 | J | 0.004 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Lead (Dissolved) | ND | | 0.002 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: GW-DUPLICATE 8-2-22

Phoenix I.D.: CL97040

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Antimony (Dissolved)-LDL | ND | 0.0006 | 0.0002 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Selenium (Dissolved)-LDL | 0.000 | J 0.004 | 0.004 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Thallium (Dissolved) | ND | 0.0005 | 0.0002 | mg/L | 2 | 08/08/22 | CPP | SW6020B |
| Vanadium, (Dissolved) | ND | 0.011 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Zinc, (Dissolved) | 0.002 | J 0.011 | 0.0012 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Iron | 1.39 | 0.01 | 0.01 | mg/L | 1 | 08/10/22 | EK | SW6010D |
| Mercury | ND | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium | 3.5 | 0.1 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Magnesium | 15.2 | 0.010 | 0.01 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Manganese | 0.796 | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Sodium | 158 | 1.0 | 1.0 | mg/L | 10 | 08/10/22 | EK | SW6010D |
| Nickel | 0.001 | J 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Lead | 0.002 | 0.002 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Antimony | ND | 0.0030 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Selenium | ND | 0.010 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Thallium | ND | 0.0005 | 0.0005 | mg/L | 5 | 08/11/22 | CPP | SW6020B |
| Vanadium | 0.008 | J 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Zinc | 0.004 | J 0.010 | 0.002 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chloride | 266 | 6.0 | 0.02 | mg/L | 2 | 08/04/22 | CL | SM4500CLE-11 |
| Total Cyanide | ND | 0.010 | 0.005 | mg/L | 1 | 08/09/22 | CL/GD | SW9010C/SW9012B |
| | | | | | | | | |
| Filtration | Completed | | | | | 08/03/22 | AG | 0.45um Filter |
| Dissolved Mercury Digestion | Completed | | | | | 08/04/22 | AB/AB | SW7470A |
| Mercury Digestion | Completed | | | | | 08/05/22 | AB/AB | SW7470A |
| Semi-Volatile Extraction | Completed | | | | | 08/04/22 | X/MQ | SW3520C |
| Dissolved Metals Preparation | Completed | | | | | 08/03/22 | AG | SW3005A |
| Dissolved Metals Preparation | Completed | | | | | 08/03/22 | AG | SW3005A |
| Total Metals Digestion | Completed | | | | | 08/05/22 | AG | |
| Total Metals Digestion MS | Completed | | | | | 08/08/22 | AG | |
| **1,4-dioxane** | | | | | | | | |
| 1,4-dioxane | ND | 100 | 50 | ug/l | 1 | 08/06/22 | MH | SW8260C |
| **Volatiles** | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,3-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromoethane | ND | 0.25 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloroethane | ND | 0.60 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloropropane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,3-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,4-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 2-Hexanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 4-Methyl-2-pentanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |

Project ID: HARRISON LANDFILL
Client ID: GW-DUPLICATE 8-2-22

Phoenix I.D.: CL97040

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Benzene | ND | 0.70 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromodichloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromoform | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Bromomethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Carbon Disulfide | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Carbon tetrachloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloroform | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Chloromethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| cis-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Cyclohexane | ND | 5.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Dibromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Dichlorodifluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Ethylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Isopropylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| m&p-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methyl ethyl ketone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylacetate | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylcyclohexane | ND | 2.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Methylene chloride | ND | 3.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| o-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Styrene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Tetrachloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Toluene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Total Xylenes | ND | 1.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,2-Dichloroethene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| trans-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorofluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Trichlorotrifluoroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| Vinyl chloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 97 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Bromofluorobenzene | 92 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Dibromofluoromethane | 99 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| % Toluene-d8 | 102 | | | % | 1 | 08/06/22 | MH | 70 - 130 % | |
| Volatile Library Search Top 10 | Completed | | | | | 08/08/22 | MH | | |
| **Semivolatiles** | | | | | | | | | |
| 1,1-Biphenyl | ND | 3.3 | 3.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 1,2,4,5-Tetrachlorobenzene | ND | 3.3 | 3.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,2'-Oxybis(1-Chloropropane) | ND | 4.8 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | 1 |
| 2,3,4,6-tetrachlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4,5-Trichlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D | |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: GW-DUPLICATE 8-2-22

Phoenix I.D.: CL97040

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2,4-Dichlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2,4-Dimethylphenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2,4-Dinitrophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2,4-Dinitrotoluene | ND | 4.8 | 1.9 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2,6-Dinitrotoluene | ND | 4.8 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Chloronaphthalene | ND | 4.8 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Chlorophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Methylnaphthalene | ND | 4.8 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Methylphenol (o-cresol) | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Nitroaniline | ND | 4.8 | 0.95 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Nitrophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 3&4-Methylphenol (m&p-cresol) | ND | 4.8 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 4.8 | 2.2 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 3-Nitroaniline | ND | 4.8 | 1.8 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 1.0 | 0.95 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 4.8 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Chloro-3-methylphenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Chloroaniline | ND | 4.8 | 2.2 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 4.8 | 1.6 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Nitroaniline | ND | 4.8 | 1.6 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Nitrophenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Acenaphthene | ND | 4.8 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Acetophenone | ND | 4.8 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Atrazine | ND | 0.95 | 0.95 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Benzaldehyde | ND | 4.8 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Benzyl butyl phthalate | ND | 4.8 | 1.2 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 4.8 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 0.95 | 0.95 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Caprolactam | ND | 4.8 | 0.95 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Carbazole | ND | 4.8 | 0.95 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Dibenzofuran | ND | 4.8 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Diethyl phthalate | ND | 4.8 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Dimethylphthalate | ND | 4.8 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Di-n-butylphthalate | ND | 4.8 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Di-n-octylphthalate | ND | 4.8 | 1.2 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Hexachlorocyclopentadiene | ND | 4.8 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Hexachloroethane | ND | 0.95 | 0.95 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Isophorone | ND | 4.8 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Naphthalene | ND | 4.8 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 4.8 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| N-Nitrosodiphenylamine | ND | 4.8 | 1.8 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Phenol | ND | 1.0 | 0.86 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 105 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |
| % 2-Fluorobiphenyl | 77 | | | % | 1 | 08/09/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 77 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |
| % Nitrobenzene-d5 | 83 | | | % | 1 | 08/09/22 | WB | 30 - 130 % |
| % Phenol-d5 | 75 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |

**Ver 2**

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| % Terphenyl-d14 | 78 | | | % | 1 | 08/09/22 | WB | 30 - 130 % | |
| **Semivolatiles** | | | | | | | | | |
| Acenaphthylene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Anthracene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benz(a)anthracene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(a)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(b)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(ghi)perylene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(k)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Bis(2-chloroethyl)ether | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Chrysene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Dibenz(a,h)anthracene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Fluoranthene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Fluorene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Hexachlorobenzene | ND | 0.04 | 0.04 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Hexachlorobutadiene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Hexachlorocyclopentadiene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Indeno(1,2,3-cd)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Nitrobenzene | ND | 0.38 | 0.38 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| N-Nitrosodimethylamine | ND | 0.19 | 0.19 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Pentachlorophenol | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Phenanthrene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Pyrene | ND | 0.48 | 0.48 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 2,4,6-Tribromophenol | 126 | | | % | 1 | 08/08/22 | WB | 15 - 110 % | 3 |
| % 2-Fluorobiphenyl | 66 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| % 2-Fluorophenol | 80 | | | % | 1 | 08/08/22 | WB | 15 - 110 % | |
| % Nitrobenzene-d5 | 94 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| % Phenol-d5 | 89 | | | % | 1 | 08/08/22 | WB | 15 - 110 % | |
| % Terphenyl-d14 | 85 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| SVOA Library Search Top 15 | Completed | | | | | 08/09/22 | 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.

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.

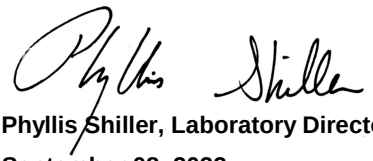
## Comments:

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:
One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is 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**

**September 08, 2022**

**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

September 08, 2022

FOR: Attn: Paul J. DiMaria, PE
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | LIQUID | Collected by: | | 08/02/22 | 14:20 |
| Location Code: | CASHIN-NYDOT | Received by: | CP | 08/03/22 | 17:50 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCL97028
Phoenix ID: CL97041

Project ID: HARRISON LANDFILL
Client ID: FIELD BLANK 8-2-22

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|---|
| Silver | ND | | 0.005 | 0.002 | mg/L | 1 | 08/10/22 | EK | SW6010D |
| Aluminum | 0.004 | J | 0.020 | 0.0024 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Arsenic - LDL | ND | | 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Barium | ND | | 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Beryllium | ND | | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Calcium | 0.082 | | 0.010 | 0.003 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cadmium | ND | | 0.004 | 0.0005 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Cobalt | ND | | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chromium | ND | | 0.001 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Copper | ND | | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Silver (Dissolved) | ND | | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Aluminum (Dissolved) | ND | | 0.011 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Arsenic, (Dissolved) | ND | | 0.003 | 0.004 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Barium (Dissolved) | ND | | 0.011 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Beryllium (Dissolved) | ND | | 0.001 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Calcium (Dissolved) | 0.05 | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Cadmium (Dissolved) | ND | | 0.004 | 0.0005 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Cobalt, (Dissolved) | ND | | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Chromium (Dissolved) | ND | | 0.001 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Copper, (Dissolved) | ND | | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Iron, (Dissolved) | ND | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Mercury (Dissolved) | ND | | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium (Dissolved) | 0.0 | J | 0.1 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Magnesium (Dissolved) | 0.01 | | 0.01 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Manganese, (Dissolved) | 0.002 | J | 0.005 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Sodium (Dissolved) | 0.20 | | 0.11 | 0.01 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Nickel, (Dissolved) | ND | | 0.004 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Lead (Dissolved) | ND | | 0.002 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |

**Ver 2**

Project ID: HARRISON LANDFILL
Client ID: FIELD BLANK 8-2-22

Phoenix I.D.: CL97041

| Parameter | Result | | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|---|
| Antimony, (Dissolved) | ND | | 0.003 | 0.003 | mg/L | 1.067 | 08/12/22 | TH | SW7010 |
| Selenium, (Dissolved) | ND | | 0.004 | 0 | mg/L | 1.067 | 08/08/22 | IE | SW7010 |
| Thallium , (Dissolved) | ND | | 0.0005 | 0.0005 | mg/L | 1.067 | 08/13/22 | IE | SW7010 |
| Vanadium, (Dissolved) | ND | | 0.011 | 0.001 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Zinc, (Dissolved) | 0.001 | J | 0.011 | 0.0012 | mg/L | 1 | 08/05/22 | EK | SW6010D |
| Iron | ND | | 0.01 | 0.01 | mg/L | 1 | 08/10/22 | EK | SW6010D |
| Mercury | ND | | 0.0002 | 0.00015 | mg/L | 1 | 08/05/22 | MGH | SW7470A |
| Potassium | ND | | 0.1 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Magnesium | 0.015 | | 0.010 | 0.01 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Manganese | ND | | 0.005 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Sodium | 0.13 | | 0.10 | 0.1 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Nickel | ND | | 0.004 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Lead | ND | | 0.002 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Antimony | ND | | 0.003 | 0.003 | mg/L | 1 | 08/12/22 | TH | SW7010 |
| Selenium | 0.000 | J | 0.002 | 0 | mg/L | 0.5 | 08/19/22 | IE | SW7010 |
| Thallium - LDL | ND | | 0.0005 | 0.0005 | mg/L | 0.5 | 08/13/22 | IE | SW7010 |
| Vanadium | 0.002 | J | 0.010 | 0.001 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Zinc | ND | | 0.010 | 0.002 | mg/L | 1 | 08/06/22 | CPP | SW6010D |
| Chloride | 0.8 | J | 3.0 | 0.01 | mg/L | 1 | 08/04/22 | CL | SM4500CLE-11 |
| Total Cyanide | ND | | 0.010 | 0.005 | mg/L | 1 | 08/09/22 | CL/GD | SW9010C/SW9012B |
| | | | | | | | | | |
| Filtration | Completed | | | | | | 08/03/22 | AG | 0.45um Filter |
| Dissolved Mercury Digestion | Completed | | | | | | 08/04/22 | AB/AB | SW7470A |
| Mercury Digestion | Completed | | | | | | 08/05/22 | AB/AB | SW7470A |
| Semi-Volatile Extraction | Completed | | | | | | 08/04/22 | X/MQ | SW3520C |
| Dissolved Metals Preparation | Completed | | | | | | 08/03/22 | AG | SW3005A |
| Total Metals Digestion | Completed | | | | | | 08/05/22 | AG | |
| **1,4-dioxane** | | | | | | | | | |
| 1,4-dioxane | ND | | 100 | 50 | ug/l | 1 | 08/07/22 | MH | SW8260C |
| **Volatiles** | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | | 2.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| 1,1-Dichloroethane | ND | | 2.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| 1,1-Dichloroethene | ND | | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| 1,2-Dibromo-3-chloropropane | ND | | 0.50 | 0.50 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| 1,2-Dibromoethane | ND | | 0.25 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| 1,2-Dichlorobenzene | ND | | 2.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| 1,2-Dichloroethane | ND | | 0.60 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| 1,2-Dichloropropane | ND | | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| 1,3-Dichlorobenzene | ND | | 2.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| 1,4-Dichlorobenzene | ND | | 2.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| 2-Hexanone | ND | | 2.5 | 2.5 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| 4-Methyl-2-pentanone | ND | | 2.5 | 2.5 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| Acetone | ND | | 5.0 | 2.5 | ug/L | 1 | 08/07/22 | MH | SW8260C |
| Benzene | ND | | 0.70 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C |

Project ID: HARRISON LANDFILL
Client ID: FIELD BLANK 8-2-22

Phoenix I.D.: CL97041

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Bromodichloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Bromoform | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Bromomethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Carbon Disulfide | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Carbon tetrachloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Chlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Chloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Chloroform | ND | 2.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Chloromethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| cis-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Cyclohexane | ND | 5.0 | 0.50 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Dibromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Dichlorodifluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Ethylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Isopropylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| m&p-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Methyl ethyl ketone | ND | 5.0 | 2.5 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Methylacetate | ND | 2.5 | 2.5 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Methylcyclohexane | ND | 2.0 | 0.50 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Methylene chloride | ND | 3.0 | 1.0 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| o-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Styrene | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Tetrachloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Toluene | ND | 2.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Total Xylenes | ND | 1.0 | 1.0 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| trans-1,2-Dichloroethene | ND | 2.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| trans-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Trichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Trichlorofluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Trichlorotrifluoroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| Vinyl chloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/07/22 | MH | SW8260C | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 98 | | | % | 1 | 08/07/22 | MH | 70 - 130 % | |
| % Bromofluorobenzene | 91 | | | % | 1 | 08/07/22 | MH | 70 - 130 % | |
| % Dibromofluoromethane | 102 | | | % | 1 | 08/07/22 | MH | 70 - 130 % | |
| % Toluene-d8 | 102 | | | % | 1 | 08/07/22 | MH | 70 - 130 % | |
| Volatile Library Search Top 10 | Completed | | | | | 08/08/22 | MH | | |
| **Semivolatiles** | | | | | | | | | |
| 1,1-Biphenyl | ND | 3.3 | 3.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 1,2,4,5-Tetrachlorobenzene | ND | 3.3 | 3.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,2'-Oxybis(1-Chloropropane) | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D | 1 |
| 2,3,4,6-tetrachlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4,5-Trichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4,6-Trichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |
| 2,4-Dichlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D | |

Project ID: HARRISON LANDFILL
Client ID: FIELD BLANK 8-2-22

Phoenix I.D.: CL97041

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2,4-Dinitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2,4-Dinitrotoluene | ND | 4.7 | 1.9 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2,6-Dinitrotoluene | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Chloronaphthalene | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Chlorophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Methylnaphthalene | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Methylphenol (o-cresol) | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Nitroaniline | ND | 4.7 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 2-Nitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 3&4-Methylphenol (m&p-cresol) | ND | 4.7 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 3,3'-Dichlorobenzidine | ND | 4.7 | 2.2 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 3-Nitroaniline | ND | 4.7 | 1.8 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4,6-Dinitro-2-methylphenol | ND | 1.0 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Bromophenyl phenyl ether | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Chloro-3-methylphenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Chloroaniline | ND | 4.7 | 2.2 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Chlorophenyl phenyl ether | ND | 4.7 | 1.6 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Nitroaniline | ND | 4.7 | 1.6 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| 4-Nitrophenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Acenaphthene | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Acetophenone | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Atrazine | ND | 0.94 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Benzaldehyde | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Benzyl butyl phthalate | ND | 4.7 | 1.2 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Bis(2-chloroethoxy)methane | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Bis(2-ethylhexyl)phthalate | ND | 0.94 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Caprolactam | 9.2 | 4.7 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Carbazole | ND | 4.7 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Dibenzofuran | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Diethyl phthalate | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Dimethylphthalate | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Di-n-butylphthalate | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Di-n-octylphthalate | ND | 4.7 | 1.2 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Hexachlorocyclopentadiene | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Hexachloroethane | ND | 0.94 | 0.94 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Isophorone | ND | 4.7 | 1.3 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Naphthalene | ND | 4.7 | 1.4 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| N-Nitrosodi-n-propylamine | ND | 4.7 | 1.5 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| N-Nitrosodiphenylamine | ND | 4.7 | 1.8 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| Phenol | ND | 1.0 | 0.85 | ug/L | 1 | 08/09/22 | WB | SW8270D |
| **QA/QC Surrogates** | | | | | | | | |
| % 2,4,6-Tribromophenol | 89 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |
| % 2-Fluorobiphenyl | 71 | | | % | 1 | 08/09/22 | WB | 30 - 130 % |
| % 2-Fluorophenol | 67 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |
| % Nitrobenzene-d5 | 73 | | | % | 1 | 08/09/22 | WB | 30 - 130 % |
| % Phenol-d5 | 68 | | | % | 1 | 08/09/22 | WB | 15 - 110 % |
| % Terphenyl-d14 | 75 | | | % | 1 | 08/09/22 | WB | 30 - 130 % |

Project ID: HARRISON LANDFILL
Client ID: FIELD BLANK 8-2-22

Phoenix I.D.: CL97041

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|---|
| **Semivolatiles** | | | | | | | | | |
| Acenaphthylene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Anthracene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benz(a)anthracene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(a)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(b)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(ghi)perylene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Benzo(k)fluoranthene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Bis(2-chloroethyl)ether | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Chrysene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Dibenz(a,h)anthracene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Fluoranthene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Fluorene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Hexachlorobenzene | ND | 0.04 | 0.04 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Hexachlorobutadiene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Hexachlorocyclopentadiene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Indeno(1,2,3-cd)pyrene | ND | 0.02 | 0.02 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Nitrobenzene | ND | 0.38 | 0.38 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| N-Nitrosodimethylamine | ND | 0.19 | 0.19 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Pentachlorophenol | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Phenanthrene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| Pyrene | ND | 0.47 | 0.47 | ug/L | 1 | 08/08/22 | WB | SW8270D (SIM) | |
| **QA/QC Surrogates** | | | | | | | | | |
| % 2,4,6-Tribromophenol | 116 | | | % | 1 | 08/08/22 | WB | 15 - 110 % | 3 |
| % 2-Fluorobiphenyl | 61 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| % 2-Fluorophenol | 73 | | | % | 1 | 08/08/22 | WB | 15 - 110 % | |
| % Nitrobenzene-d5 | 79 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| % Phenol-d5 | 83 | | | % | 1 | 08/08/22 | WB | 15 - 110 % | |
| % Terphenyl-d14 | 82 | | | % | 1 | 08/08/22 | WB | 30 - 130 % | |
| SVOA Library Search Top 15 | Completed | | | | | 08/09/22 | MR | | |

Project ID: HARRISON LANDFILL
Client ID: FIELD BLANK 8-2-22

Phoenix I.D.: CL97041

| 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.

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:
One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is 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**
**September 08, 2022**
**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

September 08, 2022

FOR: Attn: Paul J. DiMaria, PE
Cashin Associates, PC
1200 Veterans Memorial Highway
Hauppauge, NY 11788

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | LIQUID | Collected by: | | 08/02/22 | |
| Location Code: | CASHIN-NYDOT | Received by: | CP | 08/03/22 | 17:50 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GCL97028
Phoenix ID: CL97042

Project ID: HARRISON LANDFILL
Client ID: TRIP BLANK 8-2-22

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| **1,4-dioxane** | | | | | | | | |
| 1,4-dioxane | ND | 100 | 50 | ug/l | 1 | 08/06/22 | MH | SW8260C |
| **Volatiles** | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,1-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,3-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dibromoethane | ND | 0.25 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloroethane | ND | 0.60 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,2-Dichloropropane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,3-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 1,4-Dichlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 2-Hexanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| 4-Methyl-2-pentanone | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Acetone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Benzene | ND | 0.70 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Bromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Bromodichloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Bromoform | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Bromomethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Carbon Disulfide | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |

Project ID: HARRISON LANDFILL
Client ID: TRIP BLANK 8-2-22

Phoenix I.D.: CL97042

| Parameter | Result | RL/ PQL | LOD/ MDL | Units | Dilution | Date/Time | By | Reference |
|---|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Chlorobenzene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Chloroethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Chloroform | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Chloromethane | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| cis-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Cyclohexane | ND | 5.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Dibromochloromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Dichlorodifluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Ethylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Isopropylbenzene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| m&p-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methyl ethyl ketone | ND | 5.0 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methylacetate | ND | 2.5 | 2.5 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methylcyclohexane | ND | 2.0 | 0.50 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Methylene chloride | ND | 3.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| o-Xylene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Styrene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Tetrachloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Toluene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Total Xylenes | ND | 1.0 | 1.0 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| trans-1,2-Dichloroethene | ND | 2.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| trans-1,3-Dichloropropene | ND | 0.40 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Trichloroethene | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Trichlorofluoromethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Trichlorotrifluoroethane | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| Vinyl chloride | ND | 1.0 | 0.25 | ug/L | 1 | 08/06/22 | MH | SW8260C |
| **QA/QC Surrogates** | | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 98 | | | % | 1 | 08/06/22 | MH | 70 - 130 % |
| % Bromofluorobenzene | 95 | | | % | 1 | 08/06/22 | MH | 70 - 130 % |
| % Dibromofluoromethane | 100 | | | % | 1 | 08/06/22 | MH | 70 - 130 % |
| % Toluene-d8 | 100 | | | % | 1 | 08/06/22 | MH | 70 - 130 % |
| Volatile Library Search Top 10 | Completed | | | | | 08/08/22 | MH | |

Project ID: HARRISON LANDFILL
Client ID: TRIP BLANK 8-2-22

Phoenix I.D.: CL97042

| 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.

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**
**September 08, 2022**
**Reviewed and Released by: Maryam Taylor, Project Manager**

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: PC-1 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water) GROUND WATER  Lab Sample ID: CL97028

Sample wt/vol: 25 (g/mL) mL  Lab File ID: 0806_09.D

Level: (low/med)  Date Received: 08/03/22

% Moisture: not dec. 100  Date Analyzed: 08/06/22

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 |
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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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: PC-2 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water) GROUND WATER  Lab Sample ID: CL97029

Sample wt/vol: 25 (g/mL) mL  Lab File ID: 0806_10.D

Level: (low/med)  Date Received: 08/03/22

% Moisture: not dec. 100  Date Analyzed: 08/06/22

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 | 1.162 | 6.5 | J |
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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
Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: PC-3 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water) GROUND WATER  Lab Sample ID: CL97030

Sample wt/vol: 25 (g/mL) mL  Lab File ID: 0806_11.D

Level: (low/med)  Date Received: 08/03/22

% Moisture: not dec. 100  Date Analyzed: 08/06/22

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 |
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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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: LMW-2 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water) GROUND WATER  Lab Sample ID: CL97031

Sample wt/vol: 25 (g/mL) mL  Lab File ID: 0806_12.D

Level: (low/med)  Date Received: 08/03/22

% Moisture: not dec. 100  Date Analyzed: 08/06/22

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 |
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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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: LMW-4 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water) GROUND WATER  Lab Sample ID: CL97032

Sample wt/vol: 25 (g/mL) mL  Lab File ID: 0806_13.D

Level: (low/med)  Date Received: 08/03/22

% Moisture: not dec. 100  Date Analyzed: 08/06/22

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 |
|---|---|---|---|---|
| 000075-45-6 | Difluorochloromethane | 1.162 | 6.9 | JN |
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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
Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SW-1 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water) SURFACE WATER  Lab Sample ID: CL97033

Sample wt/vol: 25 (g/mL) mL  Lab File ID: 0806_14.D

Level: (low/med)  Date Received: 08/03/22

% Moisture: not dec. 100  Date Analyzed: 08/06/22

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 |
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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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SW-2 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water) SURFACE WATER  Lab Sample ID: CL97034

Sample wt/vol: 25 (g/mL) mL  Lab File ID: 0806_15.D

Level: (low/med)  Date Received: 08/03/22

% Moisture: not dec. 100  Date Analyzed: 08/06/22

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 |
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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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SW-4 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water) SURFACE WATER  Lab Sample ID: CL97035

Sample wt/vol: 25 (g/mL) mL  Lab File ID: 0806_16.D

Level: (low/med)  Date Received: 08/03/22

% Moisture: not dec. 100  Date Analyzed: 08/06/22

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 |
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FORM I VOA-TIC

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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SD-1 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water): SEDIMENT  Lab Sample ID: CL97036

Sample wt/vol: 5.87 (g/mL) g  Lab File ID: 0804_55.D

Level: (low/med): Low  Date Received: 08/03/22

% Moisture: not dec. 27  Date Analyzed: 08/05/22

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

Purge Volume: 5000 (uL)  Soil Aliquot Vol (uL): 5000

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
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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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SD-2 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water) SEDIMENT  Lab Sample ID: CL97037

Sample wt/vol: 6.7 (g/mL) g  Lab File ID: 0804_56.D

Level: (low/med) Low  Date Received: 08/03/22

% Moisture: not dec. 35  Date Analyzed: 08/05/22

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

Purge Volume: 5000 (uL)  Soil Aliquot Vol (uL): 5000

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
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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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SD-3 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water) SEDIMENT  Lab Sample ID: CL97038

Sample wt/vol: 3.04 (g/mL) g  Lab File ID: 0804_57.D

Level: (low/med) Low  Date Received: 08/03/22

% Moisture: not dec. 55  Date Analyzed: 08/05/22

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

Purge Volume: 5000 (uL)  Soil Aliquot Vol (uL): 5000

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
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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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SD-4 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water) SEDIMENT  Lab Sample ID: CL97039

Sample wt/vol: 6.26 (g/mL) g  Lab File ID: 0804_58.D

Level: (low/med) Low  Date Received: 08/03/22

% Moisture: not dec. 28  Date Analyzed: 08/05/22

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

Purge Volume: 5000 (uL)  Soil Aliquot Vol (uL): 5000

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
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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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: GW-DUPLICATE 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water) GROUND WATER  Lab Sample ID: CL97040

Sample wt/vol: 25 (g/mL) mL  Lab File ID: 0806_17.D

Level: (low/med)  Date Received: 08/03/22

% Moisture: not dec. 100  Date Analyzed: 08/06/22

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 |
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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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: FIELD BLANK 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water) LIQUID  Lab Sample ID: CL97041

Sample wt/vol: 25 (g/mL) mL  Lab File ID: 0806_18.D

Level: (low/med)  Date Received: 08/03/22

% Moisture: not dec. 100  Date Analyzed: 08/07/22

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 |
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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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: CL97042 BLK

Lab Name: Phoenix Environmental Labs  Client:

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

Matrix:(soil/water) Water  Lab Sample ID: CL97042 BLK

Sample wt/vol: 25 (g/mL) mL  Lab File ID: 0806_06.D

Level: (low/med) Low  Date Received: 08/03/22

% Moisture: not dec. n.a.  Date Analyzed: 08/06/22

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 |
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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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: TRIP BLANK 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water): LIQUID  Lab Sample ID: CL97042

Sample wt/vol: 25 (g/mL) mL  Lab File ID: 0806_08.D

Level: (low/med)  Date Received: 08/03/22

% Moisture: not dec. 100  Date Analyzed: 08/06/22

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 |
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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

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: PC-1 8-2-22

Lab Name: Phoenix Environmental Labs | Client: CASHIN-NYDOT

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCL97028

Matrix:(soil/water): GROUND WATER | Lab Sample ID: CL97028

Sample wt/vol: 1065 (g/mL) mL | Lab File ID: 0808_10.D

Level: (low/med): Low | Date Received: 08/03/22

% Moisture: not dec. 100 | decanted:(Y/N) NA | Date Extracted: 08/08/22

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 8/8/2022

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

Injection Volume: 1 (uL)

Number TICs found: 8 | CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000590-90-9 | 2-Butanone, 4-hydroxy- | 2.072 | 22 | JNA |
| | unknown hydrocarbon | 2.184 | 5.5 | J |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 2.366 | 30 | JNA |
| | unknown hydrocarbon | 2.813 | 24 | JNC |
| | unknown hydrocarbon | 2.901 | 5 | JNC |
| | unknown hydrocarbon | 2.977 | 16 | JNC |
| | unknown hydrocarbon | 3.006 | 8 | JNC |
| | unknown hydrocarbon | 3.030 | 3.9 | JNC |
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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.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: PC-2 8-2-22

Lab Name: Phoenix Environmental Labs | Client: CASHIN-NYDOT

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCL97028

Matrix:(soil/water): GROUND WATER | Lab Sample ID: CL97029

Sample wt/vol: 1045 (g/mL) mL | Lab File ID: 0808_11.D

Level: (low/med): Low | Date Received: 08/03/22

% Moisture: not dec. 100 | decanted:(Y/N) NA | Date Extracted: 08/08/22

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 8/8/2022

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 |
|---|---|---|---|---|
| 000590-90-9 | 2-Butanone, 4-hydroxy- | 2.072 | 14 | JNA |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 2.366 | 13 | JNA |
| | unknown hydrocarbon | 2.812 | 8.5 | JNC |
| | unknown hydrocarbon | 2.977 | 6.2 | JNC |
| | unknown hydrocarbon | 8.400 | 3.9 | J |
| | unknown hydrocarbon | 10.180 | 4.7 | J |
| | unknown hydrocarbon | 12.014 | 3.9 | J |
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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.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: PC-3 8-2-22

Lab Name: Phoenix Environmental Labs | Client: CASHIN-NYDOT

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCL97028

Matrix:(soil/water): GROUND WATER | Lab Sample ID: CL97030

Sample wt/vol: 1065 (g/mL) mL | Lab File ID: 0808_12.D

Level: (low/med): Low | Date Received: 08/03/22

% Moisture: not dec. 100 | decanted:(Y/N) NA | Date Extracted: 08/08/22

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 8/8/2022

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

Injection Volume: 1 (uL)

Number TICs found: 8 | CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000590-90-9 | 2-Butanone, 4-hydroxy- | 2.078 | 32 | JN |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 2.366 | 19 | JNA |
| | unknown hydrocarbon | 2.813 | 12 | JNC |
| | unknown hydrocarbon | 2.977 | 8.4 | JNC |
| | unknown hydrocarbon | 3.006 | 4.3 | JNC |
| | unknown hydrocarbon | 8.400 | 4.7 | J |
| | unknown hydrocarbon | 11.309 | 6 | J |
| | unknown | 11.567 | 5.1 | 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.
Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: LMW-2 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water): GROUND WATER  Lab Sample ID: CL97031

Sample wt/vol: 1050 (g/mL) mL  Lab File ID: 0808_13.D

Level: (low/med): Low  Date Received: 08/03/22

% Moisture: not dec. 100  decanted:(Y/N) NA  Date Extracted: 08/08/22

GPC Cleanup (Y/N): N  pH: NA  Date Analyzed: 8/8/2022

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

Injection Volume: 1 (uL)

Number TICs found: 9  CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | unknown hydrocarbon | 2.031 | 3.9 | J |
| 000590-90-9 | 2-Butanone, 4-hydroxy- | 2.072 | 28 | JNA |
| 000141-79-7 | 3-Penten-2-one, 4-methyl- | 2.125 | 13 | JNA |
| | unknown hydrocarbon | 2.184 | 7.1 | J |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 2.366 | 17 | JNA |
| | unknown hydrocarbon | 2.812 | 13 | JNC |
| | unknown hydrocarbon | 2.977 | 9 | JNC |
| | unknown hydrocarbon | 3.006 | 4.4 | JNC |
| | unknown hydrocarbon | 11.303 | 4.5 | J |
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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.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: LMW-4 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water): GROUND WATER  Lab Sample ID: CL97032

Sample wt/vol: 1065 (g/mL) mL  Lab File ID: 0808_14.D

Level: (low/med): Low  Date Received: 08/03/22

% Moisture: not dec. 100  decanted:(Y/N) NA  Date Extracted: 08/09/22

GPC Cleanup (Y/N): N  pH: NA  Date Analyzed: 8/9/2022

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 |
|---|---|---|---|---|
| 000590-90-9 | 2-Butanone, 4-hydroxy- | 2.072 | 15 | JNA |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 2.366 | 18 | JNA |
| | unknown hydrocarbon | 2.813 | 8.6 | JNC |
| | unknown hydrocarbon | 2.977 | 5.6 | JNC |
| 000134-62-3 | Diethyltoluamide | 6.320 | 5.6 | JN |
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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.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SW-1 8-2-22

Lab Name: Phoenix Environmental Labs  Client: CASHIN-NYDOT

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCL97028

Matrix:(soil/water): SURFACE WATER  Lab Sample ID: CL97033

Sample wt/vol: 1065 (g/mL) mL  Lab File ID: 0808_15.D

Level: (low/med): Low  Date Received: 08/03/22

% Moisture: not dec. 100  decanted:(Y/N) NA  Date Extracted: 08/09/22

GPC Cleanup (Y/N): N  pH: NA  Date Analyzed: 8/9/2022

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 |
|---|---|---|---|---|
| 000590-90-9 | 2-Butanone, 4-hydroxy- | 2.072 | 11 | JNA |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 2.366 | 12 | JNA |
| | unknown hydrocarbon | 2.813 | 7.8 | JNC |
| | unknown hydrocarbon | 2.977 | 5.5 | JNC |
| 000301-02-0 | 9-Octadecenamide, (Z)- | 11.567 | 12 | JNC |
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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.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SW-2 8-2-22

Lab Name: Phoenix Environmental Labs | Client: CASHIN-NYDOT

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCL97028

Matrix:(soil/water): SURFACE WATER | Lab Sample ID: CL97034

Sample wt/vol: 1065 (g/mL) mL | Lab File ID: 0808_16.D

Level: (low/med): Low | Date Received: 08/03/22

% Moisture: not dec. 100 | decanted:(Y/N) NA | Date Extracted: 08/09/22

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 8/9/2022

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 |
|---|---|---|---|---|
| 000590-90-9 | 2-Butanone, 4-hydroxy- | 2.072 | 20 | JNA |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 2.366 | 21 | JNA |
| | unknown hydrocarbon | 2.813 | 12 | JNC |
| | unknown hydrocarbon | 2.977 | 7.5 | JNC |
| | unknown hydrocarbon | 3.006 | 4.6 | JNC |
| | unknown hydrocarbon | 11.309 | 6.9 | J |
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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.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SW-4 8-2-22

Lab Name: Phoenix Environmental Labs | Client: CASHIN-NYDOT

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCL97028

Matrix:(soil/water): SURFACE WATER | Lab Sample ID: CL97035

Sample wt/vol: 1045 (g/mL) mL | Lab File ID: 0808_17.D

Level: (low/med): Low | Date Received: 08/03/22

% Moisture: not dec. 100 | decanted:(Y/N) NA | Date Extracted: 08/09/22

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 8/9/2022

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 |
|---|---|---|---|---|
| 000590-90-9 | 2-Butanone, 4-hydroxy- | 2.072 | 17 | JNA |
| | unknown hydrocarbon | 2.184 | 4.6 | J |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 2.366 | 13 | JNA |
| | unknown hydrocarbon | 2.813 | 8 | JNC |
| | unknown hydrocarbon | 2.977 | 5.3 | JNC |
| 000134-62-3 | Diethyltoluamide | 6.326 | 20 | JN |
| | unknown hydrocarbon | 11.309 | 3.9 | 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.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SD-1 8-2-22

Lab Name: Phoenix Environmental Labs | Client: CASHIN-NYDOT

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCL97028

Matrix:(soil/water): SEDIMENT | Lab Sample ID: CL97036

Sample wt/vol: 12.09 (g/mL) g | Lab File ID: 0803_40.D

Level: (low/med): Low | Date Received: 08/03/22

% Moisture: not dec. 27 | decanted:(Y/N) NA | Date Extracted: 08/04/22

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 8/4/2022

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

Injection Volume: 1 (uL)

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000141-79-7 | 3-Penten-2-one, 4-methyl- | 2.014 | 520 | JNA |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 2.249 | 2400 | JNA |
| 023676-09-7 | Benzoic acid, 4-ethoxy-, ethyl est | 5.915 | 2400 | JNC |
| 000629-73-2 | 1-Hexadecene | 6.937 | 1700 | JN |
| 001599-67-3 | 1-Docosene | 8.330 | 1900 | 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.
Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SD-2 8-2-22

Lab Name: Phoenix Environmental Labs | Client: CASHIN-NYDOT

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCL97028

Matrix:(soil/water): SEDIMENT | Lab Sample ID: CL97037

Sample wt/vol: 12.07 (g/mL) g | Lab File ID: 0803_41.D

Level: (low/med): Low | Date Received: 08/03/22

% Moisture: not dec. 35 | decanted:(Y/N) NA | Date Extracted: 08/04/22

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 8/4/2022

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 |
|---|---|---|---|---|
| 000141-79-7 | 3-Penten-2-one, 4-methyl- | 2.013 | 1200 | JNA |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 2.248 | 3000 | JNA |
| 023676-09-7 | Benzoic acid, 4-ethoxy-, ethyl est | 5.915 | 2900 | JNC |
| 000112-88-9 | 1-Octadecene | 6.937 | 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.
Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SD-3 8-2-22

Lab Name: Phoenix Environmental Labs | Client: CASHIN-NYDOT

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCL97028

Matrix:(soil/water): SEDIMENT | Lab Sample ID: CL97038

Sample wt/vol: 10.06 (g/mL) g | Lab File ID: 0803_42.D

Level: (low/med): Low | Date Received: 08/03/22

% Moisture: not dec. 55 | decanted:(Y/N) NA | Date Extracted: 08/04/22

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 8/4/2022

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

Injection Volume: 1 (uL)

Number TICs found: 15 | CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000141-79-7 | 3-Penten-2-one, 4-methyl- | 2.013 | 3600 | JNA |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 2.248 | 6700 | JNA |
| 023676-09-7 | Benzoic acid, 4-ethoxy-, ethyl est | 5.915 | 4300 | JNC |
| 018435-45-5 | 1-Nonadecene | 6.937 | 3600 | JN |
| 074685-33-9 | 3-Eicosene, (E)- | 9.546 | 4500 | JN |
| 000630-03-5 | Nonacosane | 12.119 | 9600 | JN |
| 000297-03-0 | Cyclotetracosane | 12.219 | 7400 | JN |
| 000630-04-6 | Hentriacontane | 14.082 | 5000 | JN |
| | unknown hydrocarbon | 14.252 | 5900 | J |
| 000059-02-9 | Vitamin E | 14.775 | 7700 | JN |
| 1000351-79-2 | 1-Octacosanol | 16.661 | 3800 | JN |
| 000083-47-6 | .gamma.-Sitosterol | 16.949 | 25000 | JN |
| | unknown hydrocarbon | 17.302 | 3800 | J |
| | unknown hydrocarbon | 17.466 | 4400 | J |
| 001058-61-3 | Stigmast-4-en-3-one | 17.695 | 12000 | JN |
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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.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: SD-4 8-2-22

Lab Name: Phoenix Environmental Labs | Client: CASHIN-NYDOT

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCL97028

Matrix:(soil/water): SEDIMENT | Lab Sample ID: CL97039

Sample wt/vol: 12.23 (g/mL) g | Lab File ID: 0803_43.D

Level: (low/med): Low | Date Received: 08/03/22

% Moisture: not dec. 28 | decanted:(Y/N) NA | Date Extracted: 08/04/22

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 8/4/2022

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 |
|---|---|---|---|---|
| 000141-79-7 | 3-Penten-2-one, 4-methyl- | 2.013 | 990 | JNA |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 2.254 | 2400 | JNA |
| | unknown hydrocarbon | 5.692 | 510 | J |
| 023676-09-7 | Benzoic acid, 4-ethoxy-, ethyl est | 5.915 | 2700 | JNC |
| 1000130-92-0 | E-7-Octadecene | 6.937 | 2100 | JN |
| 018435-45-5 | 1-Nonadecene | 7.666 | 470 | JN |
| 001599-67-3 | 1-Docosene | 8.336 | 2300 | JN |
| 000057-88-5 | Cholesterol | 14.799 | 1100 | JN |
| 000083-46-5 | .beta.-Sitosterol | 16.949 | 1500 | JN |
| 001058-61-3 | Stigmast-4-en-3-one | 17.678 | 930 | JN |

FORM I SEMIVOA-TIC

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Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: GW-DUPLICATE 8-2-22

Lab Name: Phoenix Environmental Labs | Client: CASHIN-NYDOT

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCL97028

Matrix:(soil/water): GROUND WATER | Lab Sample ID: CL97040

Sample wt/vol: 1050 (g/mL) mL | Lab File ID: 0808_18.D

Level: (low/med): Low | Date Received: 08/03/22

% Moisture: not dec. 100 | decanted:(Y/N) NA | Date Extracted: 08/09/22

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 8/9/2022

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 |
|---|---|---|---|---|
| 000590-90-9 | 2-Butanone, 4-hydroxy- | 2.084 | 67 | JNA |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 2.366 | 31 | JNA |
| | unknown hydrocarbon | 2.812 | 12 | JNC |
| | unknown hydrocarbon | 2.977 | 7.8 | JNC |
| | unknown hydrocarbon | 3.006 | 4.2 | JNC |
| | unknown hydrocarbon | 11.309 | 7.2 | J |
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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.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: FIELD BLANK 8-2-22

Lab Name: Phoenix Environmental Labs | Client: CASHIN-NYDOT

Lab Code: Phoenix | Case No.: | SAS No.: | SDG No.: GCL97028

Matrix:(soil/water): LIQUID | Lab Sample ID: CL97041

Sample wt/vol: 1065 (g/mL) mL | Lab File ID: 0808_19.D

Level: (low/med): Low | Date Received: 08/03/22

% Moisture: not dec. 100 | decanted:(Y/N) NA | Date Extracted: 08/09/22

GPC Cleanup (Y/N): N | pH: NA | Date Analyzed: 8/9/2022

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 |
|---|---|---|---|---|
| 000590-90-9 | 2-Butanone, 4-hydroxy- | 2.084 | 87 | JNA |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 2.366 | 25 | JNA |
| | unknown hydrocarbon | 2.813 | 10 | JNC |
| | unknown hydrocarbon | 2.977 | 6.3 | JNC |
| | unknown hydrocarbon | 7.654 | 6.5 | 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.
Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

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

# QA/QC Report

September 08, 2022

## QA/QC Data

SDG I.D.: GCL97028

| 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 636136 (mg/L), QC Sample No: CL97041 1.067X (CL97041) | | | | | | | | | | | | | |
| Antimony (Dissolved)-LDL | BRL | 0.005 | <0.003 | <0.005 | NC | 98.0 | | | 95.6 | | | 75 - 125 | 20 |
| QA/QC Batch 636530 (mg/L), QC Sample No: CL99501 (CL97041) | | | | | | | | | | | | | |
| Antimony - Water | BRL | 0.003 | 0.029 | 0.027 | NC | 95.9 | | | 99.4 | | | 75 - 125 | 20 |
| QA/QC Batch 636136 (mg/L), QC Sample No: CL97041 1.067X (CL97041) | | | | | | | | | | | | | |
| Selenium (Dissolved) | BRL | 0.002 | <0.004 | <0.002 | NC | | | | | | | 75 - 125 | 20 |
| QA/QC Batch 636530 (mg/L), QC Sample No: CL99501 (CL97041) | | | | | | | | | | | | | |
| Selenium - Water | BRL | 0.005 | <0.001 | <0.005 | NC | | | | | | | 75 - 125 | 20 |
| QA/QC Batch 636136 (mg/L), QC Sample No: CL97041 1.067X (CL97041) | | | | | | | | | | | | | |
| Thallium (Dissolved) | BRL | 0.002 | <0.0005 | <0.002 | NC | 96.2 | | | 97.6 | | | 75 - 125 | 20 |
| QA/QC Batch 636530 (mg/L), QC Sample No: CL99501 (CL97041) | | | | | | | | | | | | | |
| Thallium - Water | BRL | 0.001 | <0.005 | <0.001 | NC | 97.4 | | | 94.7 | | | 75 - 125 | 20 |
| QA/QC Batch 635951 (mg/kg), QC Sample No: CL94048 2X (CL97036, CL97037, CL97038, CL97039) | | | | | | | | | | | | | |
| Mercury - Soil | BRL | 0.03 | <0.03 | <0.03 | NC | 106 | 103 | 2.9 | 87.7 | 80.3 | 8.8 | 75 - 125 | 30 |
| QA/QC Batch 636174 (mg/L), QC Sample No: CL95876 (CL97028, CL97029, CL97030, CL97031, CL97032, CL97040, CL97041) | | | | | | | | | | | | | |
| Mercury - Water | BRL | 0.0002 | 0.0043 | 0.0039 | 9.80 | 102 | | | 84.1 | | | 75 - 125 | 20 |
| QA/QC Batch 635952 (mg/L), QC Sample No: CL96518 (CL97028, CL97029, CL97030, CL97031, CL97032, CL97040, CL97041) | | | | | | | | | | | | | |
| Mercury (Dissolved) | BRL | 0.0002 | <0.0002 | <0.0002 | NC | 104 | | | 109 | | | 75 - 125 | 20 |
| QA/QC Batch 635956 (mg/L), QC Sample No: CL97033 (CL97033, CL97034, CL97035) | | | | | | | | | | | | | |
| Mercury - Water | BRL | 0.0002 | <0.0002 | <0.0002 | NC | 96.8 | | | 93.9 | | | 75 - 125 | 20 |
| QA/QC Batch 635922 (mg/L), QC Sample No: CL95506 (CL97028, CL97029, CL97030, CL97031, CL97032, CL97040, CL97041) | | | | | | | | | | | | | |
| ICP Metals - Dissolved | | | | | | | | | | | | | |
| Aluminum | BRL | 0.011 | <0.011 | <0.011 | NC | 90.4 | 90.6 | 0.2 | 94.3 | | | 80 - 120 | 20 |
| Arsenic | BRL | 0.004 | <0.004 | <0.004 | NC | 90.5 | 91.0 | 0.6 | 94.1 | | | 80 - 120 | 20 |
| Barium | BRL | 0.002 | 0.035 | 0.036 | 2.80 | 91.7 | 92.5 | 0.9 | 95.5 | | | 80 - 120 | 20 |
| Beryllium | BRL | 0.001 | <0.001 | <0.001 | NC | 94.5 | 94.8 | 0.3 | 98.8 | | | 80 - 120 | 20 |
| Cadmium | BRL | 0.001 | <0.001 | <0.001 | NC | 90.4 | 91.6 | 1.3 | 94.2 | | | 80 - 120 | 20 |
| Calcium | BRL | 0.01 | 7.34 | 7.35 | 0.10 | 91.5 | 92.4 | 1.0 | NC | | | 80 - 120 | 20 |
| Chromium | BRL | 0.001 | <0.001 | <0.001 | NC | 91.7 | 92.3 | 0.7 | 95.3 | | | 80 - 120 | 20 |
| Cobalt | BRL | 0.001 | <0.001 | <0.001 | NC | 91.1 | 91.9 | 0.9 | 95.3 | | | 80 - 120 | 20 |
| Copper | BRL | 0.005 | <0.005 | <0.005 | NC | 93.0 | 93.7 | 0.7 | 98.1 | | | 80 - 120 | 20 |
| Iron | BRL | 0.011 | <0.011 | <0.011 | NC | 91.6 | 92.5 | 1.0 | 95.8 | | | 80 - 120 | 20 |
| Lead | BRL | 0.002 | <0.002 | <0.002 | NC | 91.0 | 91.3 | 0.3 | 94.7 | | | 80 - 120 | 20 |
| Magnesium | BRL | 0.01 | 3.35 | 3.35 | 0 | 92.1 | 92.3 | 0.2 | 93.8 | | | 80 - 120 | 20 |
| Manganese | BRL | 0.001 | 0.002 | 0.002 | NC | 93.4 | 94.2 | 0.9 | 97.8 | | | 80 - 120 | 20 |
| Nickel | BRL | 0.001 | <0.001 | <0.001 | NC | 91.3 | 91.9 | 0.7 | 95.6 | | | 80 - 120 | 20 |
| Potassium | BRL | 0.1 | 1.8 | 1.8 | 0 | 89.6 | 90.5 | 1.0 | 96.1 | | | 80 - 120 | 20 |
| Silver | BRL | 0.001 | <0.001 | <0.001 | NC | 93.2 | 92.9 | 0.3 | 97.4 | | | 70 - 130 | 30 |
| Sodium | BRL | 0.11 | 16.0 | 16.1 | 0.60 | 94.8 | 95.8 | 1.0 | NC | | | 80 - 120 | 20 |
| Vanadium | BRL | 0.002 | <0.002 | <0.002 | NC | 92.7 | 92.5 | 0.2 | 96.0 | | | 80 - 120 | 20 |
| Zinc | BRL | 0.002 | <0.002 | <0.002 | NC | 90.7 | 91.2 | 0.5 | 95.1 | | | 80 - 120 | 20 |

# QA/QC Data

SDG I.D.: GCL97028

| 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 636307 (mg/L), QC Sample No: CL95739 (CL97028, CL97029, CL97030, CL97031, CL97032, CL97033, CL97034, CL97035, CL97040, CL97041) | | | | | | | | | | | | | | |
| **ICP Metals - Aqueous** | | | | | | | | | | | | | | |
| Aluminum | BRL | 0.020 | 12.7 | 12.8 | 0.80 | 94.8 | 95.6 | 0.8 | NC | | | 80 - 120 | 20 | |
| Arsenic | BRL | 0.004 | <0.004 | <0.004 | NC | 96.3 | 97.1 | 0.8 | 100 | | | 80 - 120 | 20 | |
| Barium | BRL | 0.002 | 0.154 | 0.156 | 1.30 | 97.6 | 98.9 | 1.3 | 101 | | | 80 - 120 | 20 | |
| Beryllium | BRL | 0.001 | <0.001 | <0.001 | NC | 98.1 | 98.7 | 0.6 | 101 | | | 80 - 120 | 20 | |
| Cadmium | BRL | 0.001 | <0.001 | <0.001 | NC | 96.8 | 98.3 | 1.5 | 100 | | | 80 - 120 | 20 | |
| Calcium | BRL | 0.010 | 12.6 | 13.0 | 3.10 | 98.0 | 99.3 | 1.3 | NC | | | 80 - 120 | 20 | |
| Chromium | BRL | 0.001 | 0.016 | 0.016 | 0 | 99.0 | 100 | 1.0 | 103 | | | 80 - 120 | 20 | |
| Cobalt | BRL | 0.002 | 0.003 | 0.003 | NC | 95.6 | 97.0 | 1.5 | 100 | | | 80 - 120 | 20 | |
| Copper | BRL | 0.005 | 0.017 | 0.017 | NC | 96.5 | 97.1 | 0.6 | 100 | | | 80 - 120 | 20 | |
| Iron | BRL | 0.010 | 0.889 | 0.949 | 6.50 | 97.5 | 98.0 | 0.5 | 103 | | | 80 - 120 | 20 | |
| Lead | BRL | 0.002 | 0.005 | 0.004 | NC | 96.7 | 98.1 | 1.4 | 101 | | | 80 - 120 | 20 | |
| Magnesium | BRL | 0.010 | 4.53 | 4.60 | 1.50 | 97.0 | 98.1 | 1.1 | 94.5 | | | 80 - 120 | 20 | |
| Manganese | BRL | 0.001 | 46.5 | 43.5 | 6.70 | 97.5 | 99.1 | 1.6 | NC | | | 80 - 120 | 20 | |
| Nickel | BRL | 0.001 | 0.008 | 0.007 | 13.3 | 96.1 | 98.0 | 2.0 | 100 | | | 80 - 120 | 20 | |
| Potassium | BRL | 0.1 | 3.4 | 3.4 | 0 | 95.6 | 95.6 | 0.0 | 101 | | | 80 - 120 | 20 | |
| Silver | BRL | 0.001 | 0.006 | 0.007 | 15.4 | 95.0 | 95.9 | 0.9 | 98.1 | | | 70 - 130 | 30 | |
| Sodium | BRL | 0.10 | 18.5 | 18.8 | 1.60 | 98.4 | 98.3 | 0.1 | NC | | | 80 - 120 | 20 | |
| Vanadium | BRL | 0.002 | 0.006 | 0.006 | NC | 96.3 | 97.6 | 1.3 | 99.9 | | | 80 - 120 | 20 | |
| Zinc | BRL | 0.004 | 0.011 | 0.015 | NC | 94.5 | 96.0 | 1.6 | 98.7 | | | 80 - 120 | 20 | |
| QA/QC Batch 635895 (mg/kg), QC Sample No: CL97036 (CL97036, CL97037, CL97038, CL97039) | | | | | | | | | | | | | | |
| **ICP Metals - Soil** | | | | | | | | | | | | | | |
| Aluminum | BRL | 5.0 | 8570 | 10300 | 18.3 | 87.1 | 88.3 | 1.4 | NC | | | 80 - 120 | 30 | |
| Antimony | BRL | 3.3 | <4.8 | <4.4 | NC | 88.8 | 85.6 | 3.7 | 92.2 | | | 70 - 130 | 30 | |
| Arsenic | BRL | 0.67 | 1.13 | 1.58 | NC | 98.8 | 98.1 | 0.7 | 96.6 | | | 80 - 120 | 30 | |
| Barium | BRL | 0.33 | 58.9 | 77.6 | 27.4 | 95.4 | 99.0 | 3.7 | 115 | | | 80 - 120 | 30 | |
| Beryllium | BRL | 0.27 | 0.25 J | 0.31 J | NC | 100 | 98.7 | 1.3 | 97.9 | | | 80 - 120 | 30 | |
| Cadmium | BRL | 0.33 | 1.12 | 1.47 | NC | 111 | 100 | 10.4 | 104 | | | 80 - 120 | 30 | |
| Calcium | BRL | 5.0 | 1840 | 1880 | 2.20 | 101 | 102 | 1.0 | NC | | | 80 - 120 | 30 | |
| Chromium | BRL | 0.33 | 17.9 | 22.0 | 20.6 | 105 | 105 | 0.0 | 107 | | | 80 - 120 | 30 | |
| Cobalt | BRL | 0.33 | 7.43 | 9.92 | 28.7 | 103 | 102 | 1.0 | 102 | | | 80 - 120 | 30 | |
| Copper | BRL | 0.67 | 13.4 * | 19.2 | 35.6 | 93.1 | 97.9 | 5.0 | 98.5 | | | 80 - 120 | 30 | r |
| Iron | BRL | 5.0 | 18700 | 22600 | 18.9 | 88.3 | 96.4 | 8.8 | NC | | | 80 - 120 | 30 | |
| Lead | BRL | 0.33 | 7.9 | 10.3 | 26.4 | 96.8 | 99.3 | 2.5 | 100 | | | 80 - 120 | 30 | |
| Magnesium | BRL | 5.0 | 3090 | 3550 | 13.9 | 103 | 101 | 2.0 | NC | | | 80 - 120 | 30 | |
| Manganese | BRL | 0.33 | 328 N, * | 479 | 37.4 | 103 | 102 | 1.0 | >130 | | | 80 - 120 | 30 | m,r |
| Nickel | BRL | 0.33 | 11.7 | 15.1 | 25.4 | 104 | 103 | 1.0 | 106 | | | 80 - 120 | 30 | |
| Potassium | BRL | 5.0 | 1830 N | 2090 | 13.3 | 91.3 | 93.1 | 2.0 | >130 | | | 80 - 120 | 30 | m |
| Selenium | BRL | 1.3 | <1.9 | <1.8 | NC | 89.7 | 93.2 | 3.8 | 89.4 | | | 80 - 120 | 30 | |
| Silver | BRL | 0.33 | <0.48 | <0.44 | NC | 87.6 | 88.8 | 1.4 | 91.0 | | | 70 - 130 | 30 | |
| Sodium | BRL | 5.0 | 101 N | 103 | 2.00 | 78.9 | 81.6 | 3.4 | >130 | | | 80 - 120 | 30 | l,m |
| Thallium | BRL | 3.0 | <1.9 | <4.0 | NC | 98.3 | 97.0 | 1.3 | 98.3 | | | 80 - 120 | 30 | |
| Vanadium | BRL | 0.33 | 27.1 | 32.3 | 17.5 | 99.6 | 101 | 1.4 | 105 | | | 80 - 120 | 30 | |
| Zinc | BRL | 0.67 | 40.0 | 52.9 | 27.8 | 97.6 | 96.8 | 0.8 | 105 | | | 80 - 120 | 30 | |
| QA/QC Batch 636075 (mg/L), QC Sample No: CL96740 5X (CL97033, CL97034, CL97035) | | | | | | | | | | | | | | |
| **ICP MS Metals - Aqueous** | | | | | | | | | | | | | | |
| Antimony | BRL | 0.0030 | <0.0030 | <0.0030 | NC | 99.8 | 99.8 | 0.0 | 97.4 | | | 80 - 120 | 20 | |
| Selenium | BRL | 0.010 | <0.010 | <0.010 | NC | 114 | 117 | 2.6 | 105 | | | 80 - 120 | 20 | |
| Thallium | BRL | 0.0005 | <0.0005 | <0.0005 | NC | 102 | 103 | 1.0 | 97.0 | | | 80 - 120 | 20 | |

# QA/QC Data

SDG I.D.: GCL97028

| 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 635923 (mg/L), QC Sample No: CL97284 2X (CL97028, CL97029, CL97030, CL97031, CL97032, CL97040) | | | | | | | | | | | | | |
| **ICP Metals MS - Dissolved** | | | | | | | | | | | | | |
| Antimony | BRL | 0.0006 | <0.0006 | <0.0006 | NC | 95.0 | 95.0 | 0.0 | 95.5 | | | 80 - 120 | 20 |
| Selenium | BRL | 0.004 | <0.004 | <0.004 | NC | 108 | 112 | 3.6 | 108 | | | 80 - 120 | 20 |
| Thallium | BRL | 0.0005 | <0.0005 | <0.0005 | NC | 94.8 | 96.8 | 2.1 | 94.8 | | | 80 - 120 | 20 |
| QA/QC Batch 636529 (mg/L), QC Sample No: CL98716 5X (CL97028, CL97029, CL97030, CL97031, CL97032, CL97040) | | | | | | | | | | | | | |
| **ICP MS Metals - Aqueous** | | | | | | | | | | | | | |
| Antimony | BRL | 0.0030 | <0.0030 | <0.0030 | NC | 102 | 104 | 1.9 | 104 | | | 80 - 120 | 20 |
| Selenium | BRL | 0.010 | <0.010 | <0.010 | NC | 116 | 117 | 0.9 | 114 | | | 80 - 120 | 20 |
| Thallium | BRL | 0.0005 | <0.0005 | <0.0005 | NC | 103 | 103 | 0.0 | 102 | | | 80 - 120 | 20 |

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.

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NY # 11301

# QA/QC Report

September 08, 2022

## QA/QC Data

SDG I.D.: GCL97028

| 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 636317 (mg/Kg), QC Sample No: CL95484 50X (CL97036, CL97037) | | | | | | | | | | | | | |
| Total Cyanide (SW9010C Distill.) | BRL | 0.50 | 0.31 J | 0.50 J | NC | 92.1 | | | 101 | | | 80 - 120 | 30 |
| Comment: | | | | | | | | | | | | | |
| Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils | | | | | | | | | | | | | |
| QA/QC Batch 636548A (mg/L), QC Sample No: CL97041 (CL97028, CL97029, CL97030, CL97031, CL97032, CL97033, CL97034, CL97035, CL97040, CL97041) | | | | | | | | | | | | | |
| Total Cyanide | BRL | 0.010 | | | | 90.3 | | | 98.5 | | | 90 - 110 | 20 |
| Comment: | | | | | | | | | | | | | |
| Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils | | | | | | | | | | | | | |
| QA/QC Batch 636573 (mg/Kg), QC Sample No: CM00210 50X (CL97038, CL97039) | | | | | | | | | | | | | |
| Total Cyanide (SW9010C Distill.) | BRL | 0.50 | <0.51 | <0.51 | NC | 91.5 | | | 96.5 | | | 80 - 120 | 30 |
| Comment: | | | | | | | | | | | | | |
| Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils | | | | | | | | | | | | | |
| QA/QC Batch 636275 (mg/L), QC Sample No: CL97045 (CL97036, CL97037, CL97038, CL97039) | | | | | | | | | | | | | |
| Chloride | BRL | 5.0 | 23.6 | 23.7 | NC | 96.7 | | | 106 | | | 90 - 110 | 20 |
| QA/QC Batch 636141 (mg/L), QC Sample No: CL97894 (CL97028, CL97029, CL97030, CL97031, CL97032, CL97033, CL97034, CL97035, CL97040, CL97041) | | | | | | | | | | | | | |
| Chloride | BRL | 3.0 | 62.0 | 63.3 | 2.10 | 101 | | | 101 | | | 90 - 110 | 20 |

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

September 08, 2022

## QA/QC Data

SDG I.D.: GCL97028

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 636077 (ug/L), QC Sample No: CL97016 (CL97028, CL97029, CL97030, CL97031, CL97032, CL97033, CL97034, CL97035, CL97040, CL97041) | | | | | | | | | | | |
| **Semivolatiles - Ground Water, Surface Water, Liquid** | | | | | | | | | | | |
| 1,1-Biphenyl | ND | 3.5 | 75 | 83 | 10.1 | | | | 30 - 130 | 20 | |
| 1,2,4,5-Tetrachlorobenzene | ND | 3.5 | 70 | 78 | 10.8 | | | | 30 - 130 | 20 | |
| 2,2'-Oxybis(1-Chloropropane) | ND | 1.0 | 69 | 69 | 0.0 | | | | 30 - 130 | 20 | |
| 2,3,4,6-tetrachlorophenol | ND | 3.5 | 81 | 93 | 13.8 | | | | 30 - 130 | 20 | |
| 2,4,5-Trichlorophenol | ND | 1.0 | 88 | 100 | 12.8 | | | | 30 - 130 | 20 | |
| 2,4,6-Trichlorophenol | ND | 1.0 | 86 | 97 | 12.0 | | | | 30 - 130 | 20 | |
| 2,4-Dichlorophenol | ND | 1.0 | 82 | 89 | 8.2 | | | | 30 - 130 | 20 | |
| 2,4-Dimethylphenol | ND | 1.0 | 82 | 84 | 2.4 | | | | 30 - 130 | 20 | |
| 2,4-Dinitrophenol | ND | 1.0 | 69 | 83 | 18.4 | | | | 30 - 130 | 20 | |
| 2,4-Dinitrotoluene | ND | 3.5 | 85 | 95 | 11.1 | | | | 30 - 130 | 20 | |
| 2,6-Dinitrotoluene | ND | 3.5 | 83 | 91 | 9.2 | | | | 30 - 130 | 20 | |
| 2-Chloronaphthalene | ND | 3.5 | 78 | 85 | 8.6 | | | | 30 - 130 | 20 | |
| 2-Chlorophenol | ND | 1.0 | 81 | 81 | 0.0 | | | | 30 - 130 | 20 | |
| 2-Methylnaphthalene | ND | 3.5 | 75 | 82 | 8.9 | | | | 30 - 130 | 20 | |
| 2-Methylphenol (o-cresol) | ND | 1.0 | 85 | 88 | 3.5 | | | | 30 - 130 | 20 | |
| 2-Nitroaniline | ND | 3.5 | 148 | 176 | 17.3 | | | | 30 - 130 | 20 | I |
| 2-Nitrophenol | ND | 1.0 | 81 | 86 | 6.0 | | | | 30 - 130 | 20 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 1.0 | 88 | 91 | 3.4 | | | | 30 - 130 | 20 | |
| 3,3'-Dichlorobenzidine | ND | 5.0 | 79 | 88 | 10.8 | | | | 30 - 130 | 20 | |
| 3-Nitroaniline | ND | 5.0 | 103 | 119 | 14.4 | | | | 30 - 130 | 20 | |
| 4,6-Dinitro-2-methylphenol | ND | 1.0 | 77 | 87 | 12.2 | | | | 30 - 130 | 20 | |
| 4-Bromophenyl phenyl ether | ND | 3.5 | 80 | 90 | 11.8 | | | | 30 - 130 | 20 | |
| 4-Chloro-3-methylphenol | ND | 1.0 | 92 | 102 | 10.3 | | | | 30 - 130 | 20 | |
| 4-Chloroaniline | ND | 3.5 | 86 | 99 | 14.1 | | | | 30 - 130 | 20 | |
| 4-Chlorophenyl phenyl ether | ND | 1.0 | 80 | 89 | 10.7 | | | | 30 - 130 | 20 | |
| 4-Nitroaniline | ND | 5.0 | 92 | 102 | 10.3 | | | | 30 - 130 | 20 | |
| 4-Nitrophenol | ND | 1.0 | 94 | 104 | 10.1 | | | | 30 - 130 | 20 | |
| Acenaphthene | ND | 1.5 | 84 | 95 | 12.3 | | | | 30 - 130 | 20 | |
| Acetophenone | ND | 3.5 | 86 | 86 | 0.0 | | | | 30 - 130 | 20 | |
| Atrazine | ND | 3.5 | 74 | 81 | 9.0 | | | | 30 - 130 | 20 | |
| Benzaldehyde | ND | 3.5 | 188 | 184 | 2.2 | | | | 30 - 130 | 20 | I |
| Benzyl butyl phthalate | ND | 1.5 | 89 | 99 | 10.6 | | | | 30 - 130 | 20 | |
| Bis(2-chloroethoxy)methane | ND | 3.5 | 83 | 89 | 7.0 | | | | 30 - 130 | 20 | |
| Bis(2-ethylhexyl)phthalate | ND | 1.5 | 88 | 98 | 10.8 | | | | 30 - 130 | 20 | |
| Caprolactam | ND | 3.5 | 87 | 99 | 12.9 | | | | 30 - 130 | 20 | |
| Carbazole | ND | 5.0 | 83 | 93 | 11.4 | | | | 30 - 130 | 20 | |
| Dibenzofuran | ND | 3.5 | 81 | 90 | 10.5 | | | | 30 - 130 | 20 | |
| Diethyl phthalate | ND | 1.5 | 86 | 97 | 12.0 | | | | 30 - 130 | 20 | |
| Dimethylphthalate | ND | 1.5 | 83 | 96 | 14.5 | | | | 30 - 130 | 20 | |
| Di-n-butylphthalate | ND | 1.5 | 91 | 102 | 11.4 | | | | 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 | 91 | 102 | 11.4 | | | | 30 - 130 | 20 | |
| Hexachlorocyclopentadiene | ND | 3.5 | 34 | 35 | 2.9 | | | | 30 - 130 | 20 | |
| Hexachloroethane | ND | 3.5 | 71 | 77 | 8.1 | | | | 30 - 130 | 20 | |
| Isophorone | ND | 3.5 | 71 | 79 | 10.7 | | | | 30 - 130 | 20 | |
| Naphthalene | ND | 1.5 | 76 | 82 | 7.6 | | | | 30 - 130 | 20 | |
| N-Nitrosodi-n-propylamine | ND | 3.5 | 81 | 84 | 3.6 | | | | 30 - 130 | 20 | |
| N-Nitrosodiphenylamine | ND | 3.5 | 65 | 73 | 11.6 | | | | 30 - 130 | 20 | |
| Phenol | ND | 1.0 | 85 | 88 | 3.5 | | | | 30 - 130 | 20 | |
| % 2,4,6-Tribromophenol | 87 | % | 95 | 107 | 11.9 | | | | 15 - 110 | 20 | |
| % 2-Fluorobiphenyl | 67 | % | 74 | 83 | 11.5 | | | | 30 - 130 | 20 | |
| % 2-Fluorophenol | 64 | % | 83 | 80 | 3.7 | | | | 15 - 110 | 20 | |
| % Nitrobenzene-d5 | 77 | % | 80 | 79 | 1.3 | | | | 30 - 130 | 20 | |
| % Phenol-d5 | 68 | % | 77 | 81 | 5.1 | | | | 15 - 110 | 20 | |
| % Terphenyl-d14 | 81 | % | 81 | 92 | 12.7 | | | | 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 635891 (ug/kg), QC Sample No: CL97180 (CL97036, CL97037, CL97038, CL97039)

## Semivolatiles - Sediment

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Biphenyl | ND | 230 | 83 | 76 | 8.8 | 78 | 65 | 18.2 | 30 - 130 | 30 | |
| 1,2,4,5-Tetrachlorobenzene | ND | 230 | 78 | 69 | 12.2 | 74 | 61 | 19.3 | 30 - 130 | 30 | |
| 2,2'-Oxybis(1-Chloropropane) | ND | 230 | 62 | 48 | 25.5 | 55 | 43 | 24.5 | 30 - 130 | 30 | |
| 2,3,4,6-tetrachlorophenol | ND | 230 | 98 | 90 | 8.5 | 89 | 74 | 18.4 | 30 - 130 | 30 | |
| 2,4,5-Trichlorophenol | ND | 230 | 96 | 90 | 6.5 | 92 | 76 | 19.0 | 30 - 130 | 30 | |
| 2,4,6-Trichlorophenol | ND | 130 | 99 | 93 | 6.3 | 92 | 77 | 17.8 | 30 - 130 | 30 | |
| 2,4-Dichlorophenol | ND | 130 | 89 | 81 | 9.4 | 85 | 72 | 16.6 | 30 - 130 | 30 | |
| 2,4-Dimethylphenol | ND | 230 | 89 | 81 | 9.4 | 80 | 69 | 14.8 | 30 - 130 | 30 | |
| 2,4-Dinitrophenol | ND | 230 | 87 | 77 | 12.2 | 80 | 71 | 11.9 | 30 - 130 | 30 | |
| 2,4-Dinitrotoluene | ND | 130 | 100 | 99 | 1.0 | 97 | 84 | 14.4 | 30 - 130 | 30 | |
| 2,6-Dinitrotoluene | ND | 130 | 93 | 91 | 2.2 | 91 | 77 | 16.7 | 30 - 130 | 30 | |
| 2-Chloronaphthalene | ND | 230 | 90 | 82 | 9.3 | 85 | 71 | 17.9 | 30 - 130 | 30 | |
| 2-Chlorophenol | ND | 230 | 85 | 67 | 23.7 | 78 | 64 | 19.7 | 30 - 130 | 30 | |
| 2-Methylnaphthalene | ND | 230 | 81 | 73 | 10.4 | 77 | 65 | 16.9 | 30 - 130 | 30 | |
| 2-Methylphenol (o-cresol) | ND | 230 | 95 | 76 | 22.2 | 86 | 74 | 15.0 | 30 - 130 | 30 | |
| 2-Nitroaniline | ND | 330 | 161 | 163 | 1.2 | 156 | 147 | 5.9 | 30 - 130 | 30 | l,m |
| 2-Nitrophenol | ND | 230 | 86 | 76 | 12.3 | 83 | 69 | 18.4 | 30 - 130 | 30 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 230 | 98 | 85 | 14.2 | 92 | 78 | 16.5 | 30 - 130 | 30 | |
| 3,3'-Dichlorobenzidine | ND | 130 | 31 | 64 | 69.5 | 74 | 68 | 8.5 | 30 - 130 | 30 | r |
| 3-Nitroaniline | ND | 330 | 86 | 98 | 13.0 | 79 | 93 | 16.3 | 30 - 130 | 30 | |
| 4,6-Dinitro-2-methylphenol | ND | 230 | 88 | 79 | 10.8 | 85 | 74 | 13.8 | 30 - 130 | 30 | |
| 4-Bromophenyl phenyl ether | ND | 230 | 95 | 93 | 2.1 | 91 | 80 | 12.9 | 30 - 130 | 30 | |
| 4-Chloro-3-methylphenol | ND | 230 | 97 | 92 | 5.3 | 94 | 82 | 13.6 | 30 - 130 | 30 | |
| 4-Chloroaniline | ND | 230 | 55 | 62 | 12.0 | 53 | 66 | 21.8 | 30 - 130 | 30 | |
| 4-Chlorophenyl phenyl ether | ND | 230 | 90 | 84 | 6.9 | 86 | 74 | 15.0 | 30 - 130 | 30 | |
| 4-Nitroaniline | ND | 230 | 94 | 92 | 2.2 | 92 | 79 | 15.2 | 30 - 130 | 30 | |
| 4-Nitrophenol | ND | 230 | 98 | 93 | 5.2 | 97 | 81 | 18.0 | 30 - 130 | 30 | |
| Acenaphthene | ND | 230 | 90 | 85 | 5.7 | 85 | 72 | 16.6 | 30 - 130 | 30 | |
| Acenaphthylene | ND | 130 | 80 | 75 | 6.5 | 75 | 64 | 15.8 | 30 - 130 | 30 | |
| Acetophenone | ND | 230 | 85 | 69 | 20.8 | 77 | 63 | 20.0 | 30 - 130 | 30 | |
| Anthracene | ND | 230 | 90 | 89 | 1.1 | 89 | 77 | 14.5 | 30 - 130 | 30 | |
| Atrazine | ND | 130 | 77 | 79 | 2.6 | 66 | 65 | 1.5 | 30 - 130 | 30 | |
| Benz(a)anthracene | ND | 230 | 89 | 88 | 1.1 | 87 | 76 | 13.5 | 30 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GCL97028

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzaldehyde | ND | 230 | 168 | 137 | 20.3 | 125 | 121 | 3.3 | 30 - 130 | 30 | l |
| Benzo(a)pyrene | ND | 130 | 103 | 88 | 15.7 | 84 | 74 | 12.7 | 30 - 130 | 30 | |
| Benzo(b)fluoranthene | ND | 160 | 121 | 97 | 22.0 | 88 | 79 | 10.8 | 30 - 130 | 30 | |
| Benzo(ghi)perylene | ND | 230 | 120 | 97 | 21.2 | 91 | 80 | 12.9 | 30 - 130 | 30 | |
| Benzo(k)fluoranthene | ND | 230 | 106 | 81 | 26.7 | 81 | 69 | 16.0 | 30 - 130 | 30 | |
| Benzyl butyl phthalate | ND | 230 | 101 | 102 | 1.0 | 98 | 84 | 15.4 | 30 - 130 | 30 | |
| Bis(2-chloroethoxy)methane | ND | 230 | 86 | 77 | 11.0 | 79 | 68 | 15.0 | 30 - 130 | 30 | |
| Bis(2-chloroethyl)ether | ND | 130 | 77 | 54 | 35.1 | 67 | 50 | 29.1 | 30 - 130 | 30 | r |
| Bis(2-ethylhexyl)phthalate | ND | 230 | 99 | 100 | 1.0 | 95 | 84 | 12.3 | 30 - 130 | 30 | |
| Caprolactam | ND | 230 | 89 | 87 | 2.3 | 89 | 79 | 11.9 | 30 - 130 | 30 | |
| Carbazole | ND | 230 | 87 | 88 | 1.1 | 86 | 76 | 12.3 | 30 - 130 | 30 | |
| Chrysene | ND | 230 | 90 | 90 | 0.0 | 88 | 77 | 13.3 | 30 - 130 | 30 | |
| Dibenz(a,h)anthracene | ND | 130 | 124 | 99 | 22.4 | 93 | 81 | 13.8 | 30 - 130 | 30 | |
| Dibenzofuran | ND | 230 | 85 | 81 | 4.8 | 83 | 69 | 18.4 | 30 - 130 | 30 | |
| Diethyl phthalate | ND | 230 | 92 | 91 | 1.1 | 90 | 77 | 15.6 | 30 - 130 | 30 | |
| Dimethylphthalate | ND | 230 | 92 | 90 | 2.2 | 89 | 76 | 15.8 | 30 - 130 | 30 | |
| Di-n-butylphthalate | ND | 670 | 99 | 98 | 1.0 | 95 | 82 | 14.7 | 30 - 130 | 30 | |
| Di-n-octylphthalate | ND | 230 | 108 | 108 | 0.0 | 104 | 90 | 14.4 | 30 - 130 | 30 | |
| Fluoranthene | ND | 230 | 94 | 92 | 2.2 | 92 | 80 | 14.0 | 30 - 130 | 30 | |
| Fluorene | ND | 230 | 90 | 87 | 3.4 | 87 | 74 | 16.1 | 30 - 130 | 30 | |
| Hexachlorobenzene | ND | 130 | 87 | 86 | 1.2 | 84 | 75 | 11.3 | 30 - 130 | 30 | |
| Hexachlorobutadiene | ND | 230 | 78 | 62 | 22.9 | 70 | 54 | 25.8 | 30 - 130 | 30 | |
| Hexachlorocyclopentadiene | ND | 230 | 63 | 50 | 23.0 | 61 | 46 | 28.0 | 30 - 130 | 30 | |
| Hexachloroethane | ND | 130 | 73 | 53 | 31.7 | 63 | 47 | 29.1 | 30 - 130 | 30 | r |
| Indeno(1,2,3-cd)pyrene | ND | 230 | 136 | 109 | 22.0 | 102 | 89 | 13.6 | 30 - 130 | 30 | l |
| Isophorone | ND | 130 | 77 | 70 | 9.5 | 71 | 62 | 13.5 | 30 - 130 | 30 | |
| Naphthalene | ND | 230 | 79 | 67 | 16.4 | 72 | 59 | 19.8 | 30 - 130 | 30 | |
| Nitrobenzene | ND | 130 | 85 | 68 | 22.2 | 77 | 62 | 21.6 | 30 - 130 | 30 | |
| N-Nitrosodimethylamine | ND | 230 | 74 | 55 | 29.5 | 63 | 57 | 10.0 | 30 - 130 | 30 | |
| N-Nitrosodi-n-propylamine | ND | 130 | 85 | 74 | 13.8 | 78 | 66 | 16.7 | 30 - 130 | 30 | |
| N-Nitrosodiphenylamine | ND | 130 | 80 | 81 | 1.2 | 85 | 72 | 16.6 | 30 - 130 | 30 | |
| Pentachlorophenol | ND | 230 | 102 | 92 | 10.3 | 95 | 79 | 18.4 | 30 - 130 | 30 | |
| Phenanthrene | ND | 130 | 89 | 89 | 0.0 | 87 | 76 | 13.5 | 30 - 130 | 30 | |
| Phenol | ND | 230 | 90 | 79 | 13.0 | 89 | 78 | 13.2 | 30 - 130 | 30 | |
| Pyrene | ND | 230 | 94 | 93 | 1.1 | 94 | 82 | 13.6 | 30 - 130 | 30 | |
| % 2,4,6-Tribromophenol | 99 | % | 102 | 98 | 4.0 | 95 | 84 | 12.3 | 30 - 130 | 30 | |
| % 2-Fluorobiphenyl | 78 | % | 85 | 78 | 8.6 | 79 | 67 | 16.4 | 30 - 130 | 30 | |
| % 2-Fluorophenol | 84 | % | 90 | 68 | 27.8 | 82 | 67 | 20.1 | 30 - 130 | 30 | |
| % Nitrobenzene-d5 | 74 | % | 83 | 65 | 24.3 | 75 | 59 | 23.9 | 30 - 130 | 30 | |
| % Phenol-d5 | 84 | % | 88 | 73 | 18.6 | 82 | 72 | 13.0 | 30 - 130 | 30 | |
| % Terphenyl-d14 | 93 | % | 95 | 92 | 3.2 | 93 | 79 | 16.3 | 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 636077 (ug/L), QC Sample No: CL97016 (CL97028, CL97029, CL97030, CL97031, CL97032, CL97033, CL97034, CL97035, CL97040, CL97041)

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

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthylene | ND | 0.50 | 52 | 54 | 3.8 | | | | 30 - 130 | 20 | |
| Anthracene | ND | 0.50 | 64 | 67 | 4.6 | | | | 30 - 130 | 20 | |
| Benz(a)anthracene | ND | 0.50 | 67 | 70 | 4.4 | | | | 30 - 130 | 20 | |
| Benzo(a)pyrene | ND | 0.50 | 66 | 68 | 3.0 | | | | 30 - 130 | 20 | |
| Benzo(b)fluoranthene | ND | 0.50 | 80 | 85 | 6.1 | | | | 30 - 130 | 20 | |

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzo(ghi)perylene | ND | 0.50 | 78 | 81 | 3.8 | | | | 30 - 130 | 20 |
| Benzo(k)fluoranthene | ND | 0.50 | 78 | 82 | 5.0 | | | | 30 - 130 | 20 |
| Bis(2-chloroethyl)ether | ND | 0.50 | 81 | 78 | 3.8 | | | | 30 - 130 | 20 |
| Chrysene | ND | 0.50 | 71 | 75 | 5.5 | | | | 30 - 130 | 20 |
| Dibenz(a,h)anthracene | ND | 0.50 | 83 | 87 | 4.7 | | | | 30 - 130 | 20 |
| Fluoranthene | ND | 0.50 | 70 | 74 | 5.6 | | | | 30 - 130 | 20 |
| Fluorene | ND | 0.50 | 68 | 71 | 4.3 | | | | 30 - 130 | 20 |
| Hexachlorobenzene | ND | 0.50 | 71 | 76 | 6.8 | | | | 30 - 130 | 20 |
| Hexachlorobutadiene | ND | 0.50 | 53 | 59 | 10.7 | | | | 30 - 130 | 20 |
| Hexachlorocyclopentadiene | ND | 0.50 | 25 | 23 | 8.3 | | | | 30 - 130 | 20 |
| Indeno(1,2,3-cd)pyrene | ND | 0.50 | 91 | 94 | 3.2 | | | | 30 - 130 | 20 |
| Nitrobenzene | ND | 0.50 | 74 | 74 | 0.0 | | | | 30 - 130 | 20 |
| N-Nitrosodimethylamine | ND | 0.05 | 84 | 80 | 4.9 | | | | 30 - 130 | 20 |
| Pentachlorophenol | ND | 0.50 | 58 | 61 | 5.0 | | | | 30 - 130 | 20 |
| Phenanthrene | ND | 0.50 | 63 | 67 | 6.2 | | | | 30 - 130 | 20 |
| Pyrene | ND | 0.50 | 72 | 77 | 6.7 | | | | 30 - 130 | 20 |
| % 2,4,6-Tribromophenol | 101 | % | 105 | 110 | 4.7 | | | | 15 - 110 | 20 |
| % 2-Fluorobiphenyl | 60 | % | 62 | 62 | 0.0 | | | | 30 - 130 | 20 |
| % 2-Fluorophenol | 81 | % | 67 | 63 | 6.2 | | | | 15 - 110 | 20 |
| % Nitrobenzene-d5 | 84 | % | 81 | 80 | 1.2 | | | | 30 - 130 | 20 |
| % Phenol-d5 | 82 | % | 77 | 76 | 1.3 | | | | 15 - 110 | 20 |
| % Terphenyl-d14 | 83 | % | 74 | 79 | 6.5 | | | | 30 - 130 | 20 |

QA/QC Batch 636527 (ug/L), QC Sample No: CL97042 (CL97028, CL97029, CL97030, CL97031, CL97032, CL97033, CL97034, CL97035, CL97040, CL97041, CL97042)

## Volatiles - Ground Water, Surface Water, Liquid

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | 1.0 | 97 | 103 | 6.0 | | | | 70 - 130 | 30 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | 88 | 92 | 4.4 | | | | 70 - 130 | 30 |
| 1,1,2-Trichloroethane | ND | 1.0 | 86 | 91 | 5.6 | | | | 70 - 130 | 30 |
| 1,1-Dichloroethane | ND | 1.0 | 94 | 98 | 4.2 | | | | 70 - 130 | 30 |
| 1,1-Dichloroethene | ND | 1.0 | 92 | 99 | 7.3 | | | | 70 - 130 | 30 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | 70 | 77 | 9.5 | | | | 70 - 130 | 30 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 92 | 99 | 7.3 | | | | 70 - 130 | 30 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 90 | 98 | 8.5 | | | | 70 - 130 | 30 |
| 1,2-Dibromoethane | ND | 1.0 | 92 | 97 | 5.3 | | | | 70 - 130 | 30 |
| 1,2-Dichlorobenzene | ND | 1.0 | 92 | 97 | 5.3 | | | | 70 - 130 | 30 |
| 1,2-Dichloroethane | ND | 1.0 | 87 | 91 | 4.5 | | | | 70 - 130 | 30 |
| 1,2-Dichloropropane | ND | 1.0 | 91 | 96 | 5.3 | | | | 70 - 130 | 30 |
| 1,3-Dichlorobenzene | ND | 1.0 | 96 | 102 | 6.1 | | | | 70 - 130 | 30 |
| 1,4-Dichlorobenzene | ND | 1.0 | 93 | 100 | 7.3 | | | | 70 - 130 | 30 |
| 1,4-dioxane | ND | 100 | 112 | 111 | 0.9 | | | | 70 - 130 | 30 |
| 2-Hexanone | ND | 5.0 | 83 | 86 | 3.6 | | | | 70 - 130 | 30 |
| 4-Methyl-2-pentanone | ND | 5.0 | 82 | 87 | 5.9 | | | | 70 - 130 | 30 |
| Acetone | ND | 5.0 | 76 | 79 | 3.9 | | | | 70 - 130 | 30 |
| Benzene | ND | 0.70 | 96 | 101 | 5.1 | | | | 70 - 130 | 30 |
| Bromochloromethane | ND | 1.0 | 88 | 93 | 5.5 | | | | 70 - 130 | 30 |
| Bromodichloromethane | ND | 0.50 | 91 | 95 | 4.3 | | | | 70 - 130 | 30 |
| Bromoform | ND | 1.0 | 96 | 99 | 3.1 | | | | 70 - 130 | 30 |
| Bromomethane | ND | 1.0 | 101 | 124 | 20.4 | | | | 70 - 130 | 30 |
| Carbon Disulfide | ND | 1.0 | 90 | 96 | 6.5 | | | | 70 - 130 | 30 |
| Carbon tetrachloride | ND | 1.0 | 101 | 108 | 6.7 | | | | 70 - 130 | 30 |
| Chlorobenzene | ND | 1.0 | 95 | 100 | 5.1 | | | | 70 - 130 | 30 |
| Chloroethane | ND | 1.0 | 95 | 99 | 4.1 | | | | 70 - 130 | 30 |

# QA/QC Data

SDG I.D.: GCL97028

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloroform | ND | 1.0 | 92 | 96 | 4.3 | | | | 70 - 130 | 30 |
| Chloromethane | ND | 1.0 | 95 | 98 | 3.1 | | | | 70 - 130 | 30 |
| cis-1,2-Dichloroethene | ND | 1.0 | 91 | 95 | 4.3 | | | | 70 - 130 | 30 |
| cis-1,3-Dichloropropene | ND | 0.40 | 94 | 99 | 5.2 | | | | 70 - 130 | 30 |
| Cyclohexane | ND | 5.0 | 100 | 107 | 6.8 | | | | 70 - 130 | 30 |
| Dibromochloromethane | ND | 0.50 | 94 | 100 | 6.2 | | | | 70 - 130 | 30 |
| Dichlorodifluoromethane | ND | 1.0 | 97 | 104 | 7.0 | | | | 70 - 130 | 30 |
| Ethylbenzene | ND | 1.0 | 100 | 106 | 5.8 | | | | 70 - 130 | 30 |
| Isopropylbenzene | ND | 1.0 | 106 | 112 | 5.5 | | | | 70 - 130 | 30 |
| m&p-Xylene | ND | 1.0 | 101 | 106 | 4.8 | | | | 70 - 130 | 30 |
| Methyl ethyl ketone | ND | 5.0 | 80 | 79 | 1.3 | | | | 70 - 130 | 30 |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | 82 | 86 | 4.8 | | | | 70 - 130 | 30 |
| Methylacetate | ND | 2.5 | 78 | 82 | 5.0 | | | | 70 - 130 | 30 |
| Methylcyclohexane | ND | 1.0 | 99 | 108 | 8.7 | | | | 70 - 130 | 30 |
| Methylene chloride | ND | 1.0 | 74 | 77 | 4.0 | | | | 70 - 130 | 30 |
| o-Xylene | ND | 1.0 | 99 | 104 | 4.9 | | | | 70 - 130 | 30 |
| Styrene | ND | 1.0 | 100 | 104 | 3.9 | | | | 70 - 130 | 30 |
| Tetrachloroethene | ND | 1.0 | 94 | 102 | 8.2 | | | | 70 - 130 | 30 |
| Toluene | ND | 1.0 | 96 | 101 | 5.1 | | | | 70 - 130 | 30 |
| trans-1,2-Dichloroethene | ND | 1.0 | 95 | 99 | 4.1 | | | | 70 - 130 | 30 |
| trans-1,3-Dichloropropene | ND | 0.40 | 95 | 101 | 6.1 | | | | 70 - 130 | 30 |
| Trichloroethene | ND | 1.0 | 95 | 100 | 5.1 | | | | 70 - 130 | 30 |
| Trichlorofluoromethane | ND | 1.0 | 94 | 102 | 8.2 | | | | 70 - 130 | 30 |
| Trichlorotrifluoroethane | ND | 1.0 | 86 | 92 | 6.7 | | | | 70 - 130 | 30 |
| Vinyl chloride | ND | 1.0 | 99 | 106 | 6.8 | | | | 70 - 130 | 30 |
| % 1,2-dichlorobenzene-d4 | 97 | % | 98 | 99 | 1.0 | | | | 70 - 130 | 30 |
| % Bromofluorobenzene | 96 | % | 98 | 99 | 1.0 | | | | 70 - 130 | 30 |
| % Dibromofluoromethane | 100 | % | 96 | 94 | 2.1 | | | | 70 - 130 | 30 |
| % Toluene-d8 | 100 | % | 100 | 100 | 0.0 | | | | 70 - 130 | 30 |
| QA/QC Batch 636396 (ug/kg), QC Sample No: CL98464 (CL97036, CL97037, CL97038, CL97039) | | | | | | | | | | |
| **Volatiles - Sediment (Low Level)** | | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.0 | 96 | 95 | 1.0 | | | | 70 - 130 | 30 |
| 1,1,2,2-Tetrachloroethane | ND | 3.0 | 96 | 96 | 0.0 | | | | 70 - 130 | 30 |
| 1,1,2-Trichloroethane | ND | 5.0 | 98 | 98 | 0.0 | | | | 70 - 130 | 30 |
| 1,1-Dichloroethane | ND | 5.0 | 92 | 92 | 0.0 | | | | 70 - 130 | 30 |
| 1,1-Dichloroethene | ND | 5.0 | 91 | 90 | 1.1 | | | | 70 - 130 | 30 |
| 1,2,3-Trichlorobenzene | ND | 5.0 | 101 | 100 | 1.0 | | | | 70 - 130 | 30 |
| 1,2,4-Trichlorobenzene | ND | 5.0 | 99 | 99 | 0.0 | | | | 70 - 130 | 30 |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | 104 | 104 | 0.0 | | | | 70 - 130 | 30 |
| 1,2-Dibromoethane | ND | 5.0 | 103 | 101 | 2.0 | | | | 70 - 130 | 30 |
| 1,2-Dichlorobenzene | ND | 5.0 | 96 | 94 | 2.1 | | | | 70 - 130 | 30 |
| 1,2-Dichloroethane | ND | 5.0 | 95 | 93 | 2.1 | | | | 70 - 130 | 30 |
| 1,2-Dichloropropane | ND | 5.0 | 96 | 94 | 2.1 | | | | 70 - 130 | 30 |
| 1,3-Dichlorobenzene | ND | 5.0 | 96 | 95 | 1.0 | | | | 70 - 130 | 30 |
| 1,4-Dichlorobenzene | ND | 5.0 | 93 | 92 | 1.1 | | | | 70 - 130 | 30 |
| 1,4-dioxane | ND | 100 | 99 | 96 | 3.1 | | | | 70 - 130 | 30 |
| 2-Hexanone | ND | 25 | 103 | 102 | 1.0 | | | | 70 - 130 | 30 |
| 4-Methyl-2-pentanone | ND | 25 | 101 | 101 | 0.0 | | | | 70 - 130 | 30 |
| Acetone | ND | 10 | 72 | 70 | 2.8 | | | | 70 - 130 | 30 |
| Benzene | ND | 1.0 | 97 | 96 | 1.0 | | | | 70 - 130 | 30 |
| Bromochloromethane | ND | 5.0 | 97 | 97 | 0.0 | | | | 70 - 130 | 30 |
| Bromodichloromethane | ND | 5.0 | 97 | 97 | 0.0 | | | | 70 - 130 | 30 |

# QA/QC Data

SDG I.D.: GCL97028

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | ND | 5.0 | 103 | 102 | 1.0 | | | | 70 - 130 | 30 |
| Bromomethane | ND | 5.0 | 93 | 93 | 0.0 | | | | 70 - 130 | 30 |
| Carbon Disulfide | ND | 5.0 | 84 | 82 | 2.4 | | | | 70 - 130 | 30 |
| Carbon tetrachloride | ND | 5.0 | 98 | 113 | 14.2 | | | | 70 - 130 | 30 |
| Chlorobenzene | ND | 5.0 | 97 | 95 | 2.1 | | | | 70 - 130 | 30 |
| Chloroethane | ND | 5.0 | 86 | 83 | 3.6 | | | | 70 - 130 | 30 |
| Chloroform | ND | 5.0 | 94 | 92 | 2.2 | | | | 70 - 130 | 30 |
| Chloromethane | ND | 5.0 | 78 | 77 | 1.3 | | | | 70 - 130 | 30 |
| cis-1,2-Dichloroethene | ND | 5.0 | 97 | 96 | 1.0 | | | | 70 - 130 | 30 |
| cis-1,3-Dichloropropene | ND | 5.0 | 103 | 101 | 2.0 | | | | 70 - 130 | 30 |
| Cyclohexane | ND | 5.0 | 97 | 97 | 0.0 | | | | 70 - 130 | 30 |
| Dibromochloromethane | ND | 3.0 | 103 | 101 | 2.0 | | | | 70 - 130 | 30 |
| Dichlorodifluoromethane | ND | 5.0 | 80 | 79 | 1.3 | | | | 70 - 130 | 30 |
| Ethylbenzene | ND | 1.0 | 100 | 100 | 0.0 | | | | 70 - 130 | 30 |
| Isopropylbenzene | ND | 1.0 | 107 | 107 | 0.0 | | | | 70 - 130 | 30 |
| m&p-Xylene | ND | 2.0 | 100 | 100 | 0.0 | | | | 70 - 130 | 30 |
| Methyl ethyl ketone | ND | 5.0 | 88 | 88 | 0.0 | | | | 70 - 130 | 30 |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | 89 | 88 | 1.1 | | | | 70 - 130 | 30 |
| Methylacetate | ND | 5.0 | 79 | 80 | 1.3 | | | | 70 - 130 | 30 |
| Methylcyclohexane | ND | 5.0 | 95 | 93 | 2.1 | | | | 70 - 130 | 30 |
| Methylene chloride | ND | 5.0 | 76 | 75 | 1.3 | | | | 70 - 130 | 30 |
| o-Xylene | ND | 2.0 | 103 | 102 | 1.0 | | | | 70 - 130 | 30 |
| Styrene | ND | 5.0 | 105 | 103 | 1.9 | | | | 70 - 130 | 30 |
| Tetrachloroethene | ND | 5.0 | 98 | 97 | 1.0 | | | | 70 - 130 | 30 |
| Toluene | ND | 1.0 | 97 | 96 | 1.0 | | | | 70 - 130 | 30 |
| trans-1,2-Dichloroethene | ND | 5.0 | 92 | 91 | 1.1 | | | | 70 - 130 | 30 |
| trans-1,3-Dichloropropene | ND | 5.0 | 104 | 103 | 1.0 | | | | 70 - 130 | 30 |
| Trichloroethene | ND | 5.0 | 99 | 98 | 1.0 | | | | 70 - 130 | 30 |
| Trichlorofluoromethane | ND | 5.0 | 90 | 89 | 1.1 | | | | 70 - 130 | 30 |
| Trichlorotrifluoroethane | ND | 5.0 | 85 | 84 | 1.2 | | | | 70 - 130 | 30 |
| Vinyl chloride | ND | 5.0 | 90 | 89 | 1.1 | | | | 70 - 130 | 30 |
| % 1,2-dichlorobenzene-d4 | 101 | % | 100 | 101 | 1.0 | | | | 70 - 130 | 30 |
| % Bromofluorobenzene | 95 | % | 99 | 98 | 1.0 | | | | 70 - 130 | 30 |
| % Dibromofluoromethane | 98 | % | 99 | 99 | 0.0 | | | | 70 - 130 | 30 |
| % Toluene-d8 | 97 | % | 100 | 100 | 0.0 | | | | 70 - 130 | 30 |

Comment:

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

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.

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
September 08, 2022

Thursday, September 08, 2022

Criteria: NY: GW

State: NY

# Sample Criteria Exceedances Report

## GCL97028 - CASHIN-NYDOT

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| CL97028 | $DP8260_TCL | 1,2-Dibromoethane | NY / TOGS - Water Quality / GA Criteria | ND | 0.25 | 0.0006 | 0.0006 | ug/L |
| CL97028 | $DP8260_TCL | 1,2-Dibromo-3-chloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 0.50 | 0.04 | 0.04 | ug/L |
| CL97028 | $DPWMSIM_T | Benz(a)anthracene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97028 | $DPWMSIM_T | Benzo(a)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97028 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97028 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97028 | $DPWMSIM_T | Chrysene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97028 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97028 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97028 | $DPWMSIM_T | Benz(a)anthracene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97028 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97028 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97028 | $DPWMSIM_T | Chrysene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97028 | AL-WM | Aluminum | NY / TOGS - Water Quality / GA Criteria | 0.225 | 0.020 | 0.1 | 0.1 | mg/L |
| CL97028 | CLD-WM | Chloride | NY / TOGS - Water Quality / GA Criteria | 268 | 6.0 | 250 | 250 | mg/L |
| CL97028 | DMN-WMDP | Manganese, (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 0.757 | 0.005 | 0.3 | 0.3 | mg/L |
| CL97028 | D-NA | Sodium (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 152 | 1.1 | 20 | 20 | mg/L |
| CL97028 | FE-WMDP | Iron | NY / TOGS - Water Quality / GA Criteria | 1.26 | 0.01 | 0.3 | 0.3 | mg/L |
| CL97028 | MN-WMDP | Manganese | NY / TOGS - Water Quality / GA Criteria | 0.774 | 0.005 | 0.3 | 0.3 | mg/L |
| CL97028 | NA-WM | Sodium | NY / TOGS - Water Quality / GA Criteria | 169 | 1.0 | 20 | 20 | mg/L |
| CL97029 | $DP8260_TCL | 1,2-Dibromo-3-chloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 0.50 | 0.04 | 0.04 | ug/L |
| CL97029 | $DP8260_TCL | 1,2-Dibromoethane | NY / TOGS - Water Quality / GA Criteria | ND | 0.25 | 0.0006 | 0.0006 | ug/L |
| CL97029 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97029 | $DPWMSIM_T | Benz(a)anthracene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97029 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97029 | $DPWMSIM_T | Chrysene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97029 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97029 | $DPWMSIM_T | Benzo(a)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97029 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97029 | $DPWMSIM_T | Benz(a)anthracene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97029 | $DPWMSIM_T | Chrysene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97029 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97029 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97029 | AL-WM | Aluminum | NY / TOGS - Water Quality / GA Criteria | 1.15 | 0.020 | 0.1 | 0.1 | mg/L |
| CL97029 | DFE-WMDP | Iron, (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 23.2 | 0.01 | 0.3 | 0.3 | mg/L |
| CL97029 | DMN-WMDP | Manganese, (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 8.41 | 0.053 | 0.3 | 0.3 | mg/L |
| CL97029 | D-NA | Sodium (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 38.6 | 0.11 | 20 | 20 | mg/L |
| CL97029 | FE-WMDP | Iron | NY / TOGS - Water Quality / GA Criteria | 76.2 | 0.01 | 0.3 | 0.3 | mg/L |
| CL97029 | MN-WMDP | Manganese | NY / TOGS - Water Quality / GA Criteria | 9.35 | 0.050 | 0.3 | 0.3 | mg/L |
| CL97029 | NA-WM | Sodium | NY / TOGS - Water Quality / GA Criteria | 38.8 | 0.10 | 20 | 20 | mg/L |

Thursday, September 08, 2022

Criteria: NY: GW

State: NY

# Sample Criteria Exceedances Report

## GCL97028 - CASHIN-NYDOT

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| CL97030 | $DP8260_TCL | 1,2-Dibromo-3-chloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 0.50 | 0.04 | 0.04 | ug/L |
| CL97030 | $DP8260_TCL | 1,2-Dibromoethane | NY / TOGS - Water Quality / GA Criteria | ND | 0.25 | 0.0006 | 0.0006 | ug/L |
| CL97030 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97030 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97030 | $DPWMSIM_T | Chrysene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97030 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97030 | $DPWMSIM_T | Benzo(a)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97030 | $DPWMSIM_T | Benz(a)anthracene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97030 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97030 | $DPWMSIM_T | Benz(a)anthracene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97030 | $DPWMSIM_T | Chrysene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97030 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97030 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97030 | AL-WM | Aluminum | NY / TOGS - Water Quality / GA Criteria | 1.32 | 0.020 | 0.1 | 0.1 | mg/L |
| CL97030 | D-NA | Sodium (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 97.6 | 1.1 | 20 | 20 | mg/L |
| CL97030 | FE-WMDP | Iron | NY / TOGS - Water Quality / GA Criteria | 19.0 | 0.01 | 0.3 | 0.3 | mg/L |
| CL97030 | MN-WMDP | Manganese | NY / TOGS - Water Quality / GA Criteria | 1.05 | 0.005 | 0.3 | 0.3 | mg/L |
| CL97030 | NA-WM | Sodium | NY / TOGS - Water Quality / GA Criteria | 106 | 1.0 | 20 | 20 | mg/L |
| CL97031 | $DP8260_TCL | 1,2-Dibromo-3-chloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 0.50 | 0.04 | 0.04 | ug/L |
| CL97031 | $DP8260_TCL | 1,2-Dibromoethane | NY / TOGS - Water Quality / GA Criteria | ND | 0.25 | 0.0006 | 0.0006 | ug/L |
| CL97031 | $DPWMSIM_T | Chrysene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97031 | $DPWMSIM_T | Benz(a)anthracene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97031 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97031 | $DPWMSIM_T | Benzo(a)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97031 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97031 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97031 | $DPWMSIM_T | Chrysene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97031 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97031 | $DPWMSIM_T | Benz(a)anthracene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97031 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97031 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97031 | AL-WM | Aluminum | NY / TOGS - Water Quality / GA Criteria | 0.256 | 0.020 | 0.1 | 0.1 | mg/L |
| CL97031 | D-NA | Sodium (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 22.0 | 0.11 | 20 | 20 | mg/L |
| CL97031 | FE-WMDP | Iron | NY / TOGS - Water Quality / GA Criteria | 0.55 | 0.01 | 0.3 | 0.3 | mg/L |
| CL97031 | MN-WMDP | Manganese | NY / TOGS - Water Quality / GA Criteria | 0.450 | 0.005 | 0.3 | 0.3 | mg/L |
| CL97031 | NA-WM | Sodium | NY / TOGS - Water Quality / GA Criteria | 21.4 | 0.10 | 20 | 20 | mg/L |
| CL97032 | $DP8260_TCL | 1,2-Dibromo-3-chloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 0.50 | 0.04 | 0.04 | ug/L |
| CL97032 | $DP8260_TCL | 1,2-Dibromoethane | NY / TOGS - Water Quality / GA Criteria | ND | 0.25 | 0.0006 | 0.0006 | ug/L |
| CL97032 | $DPWMSIM_T | Benz(a)anthracene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97032 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |

Thursday, September 08, 2022

Criteria: NY: GW

State: NY

# Sample Criteria Exceedances Report

## GCL97028 - CASHIN-NYDOT

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| CL97032 | $DPWMSIM_T | Chrysene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97032 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97032 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97032 | $DPWMSIM_T | Benzo(a)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97032 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97032 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97032 | $DPWMSIM_T | Chrysene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97032 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97032 | $DPWMSIM_T | Benz(a)anthracene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97032 | AL-WM | Aluminum | NY / TOGS - Water Quality / GA Criteria | 32.8 | 0.20 | 0.1 | 0.1 | mg/L |
| CL97032 | AS-WMDP | Arsenic - LDL | NY / TOGS - Water Quality / GA Criteria | 0.169 | 0.004 | 0.025 | 0.025 | mg/L |
| CL97032 | BA-WMDP | Barium | NY / TOGS - Water Quality / GA Criteria | 1.51 | 0.010 | 1 | 1 | mg/L |
| CL97032 | CD-WMDP | Cadmium | NY / TOGS - Water Quality / GA Criteria | 0.018 | 0.004 | 0.005 | 0.005 | mg/L |
| CL97032 | CR-WM | Chromium | NY / TOGS - Water Quality / GA Criteria | 0.119 | 0.001 | 0.05 | 0.05 | mg/L |
| CL97032 | DFE-WMDP | Iron, (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 32.1 | 0.01 | 0.3 | 0.3 | mg/L |
| CL97032 | DMN-WMDP | Manganese, (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 11.4 | 0.053 | 0.3 | 0.3 | mg/L |
| CL97032 | D-NA | Sodium (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 31.8 | 0.11 | 20 | 20 | mg/L |
| CL97032 | FE-WMDP | Iron | NY / TOGS - Water Quality / GA Criteria | 637 | 0.10 | 0.3 | 0.3 | mg/L |
| CL97032 | MN-WMDP | Manganese | NY / TOGS - Water Quality / GA Criteria | 35.1 | 0.50 | 0.3 | 0.3 | mg/L |
| CL97032 | NA-WM | Sodium | NY / TOGS - Water Quality / GA Criteria | 30.6 | 0.10 | 20 | 20 | mg/L |
| CL97032 | NI-WMDP | Nickel | NY / TOGS - Water Quality / GA Criteria | 0.129 | 0.004 | 0.1 | 0.1 | mg/L |
| CL97032 | PB-WM | Lead | NY / TOGS - Water Quality / GA Criteria | 0.033 | 0.002 | 0.025 | 0.025 | mg/L |
| CL97032 | SB-WM-MS | Antimony | NY / TOGS - Water Quality / GA Criteria | 0.0039 | 0.0030 | 0.003 | 0.003 | mg/L |
| CL97033 | $DP8260_TCL | 1,2-Dibromo-3-chloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 0.50 | 0.04 | 0.04 | ug/L |
| CL97033 | $DP8260_TCL | 1,2-Dibromoethane | NY / TOGS - Water Quality / GA Criteria | ND | 0.25 | 0.0006 | 0.0006 | ug/L |
| CL97033 | $DPWMSIM_T | Benzo(a)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97033 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97033 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97033 | $DPWMSIM_T | Chrysene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97033 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97033 | $DPWMSIM_T | Benz(a)anthracene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97033 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97033 | $DPWMSIM_T | Benz(a)anthracene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97033 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97033 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97033 | $DPWMSIM_T | Chrysene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97033 | FE-WMDP | Iron | NY / TOGS - Water Quality / GA Criteria | 0.48 | 0.01 | 0.3 | 0.3 | mg/L |
| CL97033 | MN-WMDP | Manganese | NY / TOGS - Water Quality / GA Criteria | 0.971 | 0.005 | 0.3 | 0.3 | mg/L |
| CL97034 | $DP8260_TCL | 1,2-Dibromo-3-chloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 0.50 | 0.04 | 0.04 | ug/L |
| CL97034 | $DP8260_TCL | 1,2-Dibromoethane | NY / TOGS - Water Quality / GA Criteria | ND | 0.25 | 0.0006 | 0.0006 | ug/L |

Thursday, September 08, 2022

Criteria: NY: GW

State: NY

# Sample Criteria Exceedances Report

## GCL97028 - CASHIN-NYDOT

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| CL97034 | $DPWMSIM_T | Chrysene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97034 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97034 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97034 | $DPWMSIM_T | Benzo(a)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97034 | $DPWMSIM_T | Benz(a)anthracene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97034 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97034 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97034 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97034 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97034 | $DPWMSIM_T | Benz(a)anthracene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97034 | $DPWMSIM_T | Chrysene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97034 | AL-WM | Aluminum | NY / TOGS - Water Quality / GA Criteria | 0.653 | 0.020 | 0.1 | 0.1 | mg/L |
| CL97034 | FE-WMDP | Iron | NY / TOGS - Water Quality / GA Criteria | 2.68 | 0.01 | 0.3 | 0.3 | mg/L |
| CL97034 | MN-WMDP | Manganese | NY / TOGS - Water Quality / GA Criteria | 1.14 | 0.005 | 0.3 | 0.3 | mg/L |
| CL97035 | $DP8260_TCL | 1,2-Dibromo-3-chloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 0.50 | 0.04 | 0.04 | ug/L |
| CL97035 | $DP8260_TCL | 1,2-Dibromoethane | NY / TOGS - Water Quality / GA Criteria | ND | 0.25 | 0.0006 | 0.0006 | ug/L |
| CL97035 | $DPWMSIM_T | Benzo(a)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | 0.05 | 0.02 | 0.002 | 0.002 | ug/L |
| CL97035 | $DPWMSIM_T | Chrysene | NY / TAGM - Semi-Volatiles / Groundwater Standards | 0.06 | 0.02 | 0.002 | 0.002 | ug/L |
| CL97035 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | 0.06 | 0.02 | 0.002 | 0.002 | ug/L |
| CL97035 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | 0.06 | 0.02 | 0.002 | 0.002 | ug/L |
| CL97035 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | 0.06 | 0.02 | 0.002 | 0.002 | ug/L |
| CL97035 | $DPWMSIM_T | Benz(a)anthracene | NY / TAGM - Semi-Volatiles / Groundwater Standards | 0.04 | 0.02 | 0.002 | 0.002 | ug/L |
| CL97035 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TOGS - Water Quality / GA Criteria | 0.06 | 0.02 | 0.002 | 0.002 | ug/L |
| CL97035 | $DPWMSIM_T | Chrysene | NY / TOGS - Water Quality / GA Criteria | 0.06 | 0.02 | 0.002 | 0.002 | ug/L |
| CL97035 | $DPWMSIM_T | Benz(a)anthracene | NY / TOGS - Water Quality / GA Criteria | 0.04 | 0.02 | 0.002 | 0.002 | ug/L |
| CL97035 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TOGS - Water Quality / GA Criteria | 0.06 | 0.02 | 0.002 | 0.002 | ug/L |
| CL97035 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TOGS - Water Quality / GA Criteria | 0.06 | 0.02 | 0.002 | 0.002 | ug/L |
| CL97035 | AL-WM | Aluminum | NY / TOGS - Water Quality / GA Criteria | 7.42 | 0.020 | 0.1 | 0.1 | mg/L |
| CL97035 | FE-WMDP | Iron | NY / TOGS - Water Quality / GA Criteria | 19.1 | 0.01 | 0.3 | 0.3 | mg/L |
| CL97035 | MN-WMDP | Manganese | NY / TOGS - Water Quality / GA Criteria | 8.96 | 0.050 | 0.3 | 0.3 | mg/L |
| CL97040 | $DP8260_TCL | 1,2-Dibromo-3-chloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 0.50 | 0.04 | 0.04 | ug/L |
| CL97040 | $DP8260_TCL | 1,2-Dibromoethane | NY / TOGS - Water Quality / GA Criteria | ND | 0.25 | 0.0006 | 0.0006 | ug/L |
| CL97040 | $DPWMSIM_T | Chrysene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97040 | $DPWMSIM_T | Benz(a)anthracene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97040 | $DPWMSIM_T | Benzo(a)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97040 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97040 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97040 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97040 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97040 | $DPWMSIM_T | Chrysene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |

Thursday, September 08, 2022

Criteria: NY: GW

State: NY

# Sample Criteria Exceedances Report

## GCL97028 - CASHIN-NYDOT

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|
| CL97040 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97040 | $DPWMSIM_T | Benz(a)anthracene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97040 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97040 | AL-WM | Aluminum | NY / TOGS - Water Quality / GA Criteria | 0.177 | 0.020 | 0.1 | 0.1 | mg/L |
| CL97040 | CLD-WM | Chloride | NY / TOGS - Water Quality / GA Criteria | 266 | 6.0 | 250 | 250 | mg/L |
| CL97040 | DMN-WMDP | Manganese, (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 0.732 | 0.005 | 0.3 | 0.3 | mg/L |
| CL97040 | D-NA | Sodium (Dissolved) | NY / TOGS - Water Quality / GA Criteria | 150 | 1.1 | 20 | 20 | mg/L |
| CL97040 | FE-WMDP | Iron | NY / TOGS - Water Quality / GA Criteria | 1.39 | 0.01 | 0.3 | 0.3 | mg/L |
| CL97040 | MN-WMDP | Manganese | NY / TOGS - Water Quality / GA Criteria | 0.796 | 0.005 | 0.3 | 0.3 | mg/L |
| CL97040 | NA-WM | Sodium | NY / TOGS - Water Quality / GA Criteria | 158 | 1.0 | 20 | 20 | mg/L |
| CL97041 | $DP8260_TCL | 1,2-Dibromoethane | NY / TOGS - Water Quality / GA Criteria | ND | 0.25 | 0.0006 | 0.0006 | ug/L |
| CL97041 | $DP8260_TCL | 1,2-Dibromo-3-chloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 0.50 | 0.04 | 0.04 | ug/L |
| CL97041 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97041 | $DPWMSIM_T | Chrysene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97041 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97041 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97041 | $DPWMSIM_T | Benzo(a)pyrene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97041 | $DPWMSIM_T | Benz(a)anthracene | NY / TAGM - Semi-Volatiles / Groundwater Standards | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97041 | $DPWMSIM_T | Benzo(b)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97041 | $DPWMSIM_T | Benzo(k)fluoranthene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97041 | $DPWMSIM_T | Chrysene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97041 | $DPWMSIM_T | Indeno(1,2,3-cd)pyrene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97041 | $DPWMSIM_T | Benz(a)anthracene | NY / TOGS - Water Quality / GA Criteria | ND | 0.02 | 0.002 | 0.002 | ug/L |
| CL97042 | $DP8260_TCL | 1,2-Dibromoethane | NY / TOGS - Water Quality / GA Criteria | ND | 0.25 | 0.0006 | 0.0006 | ug/L |
| CL97042 | $DP8260_TCL | 1,2-Dibromo-3-chloropropane | NY / TOGS - Water Quality / GA Criteria | ND | 0.50 | 0.04 | 0.04 | ug/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

**September 08, 2022**

**SDG I.D.: GCL97028**

The samples in this delivery group were received at 1.0°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 [X] ICE [ ] No [ ]

# 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**

Temp / °C Pg of

**Contact Options:**
[ ] Phone: 631-348-7600
[ ] Fax:
[ ] Email: RLambert@ca-pc.com

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

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

Project P.O:

**This section MUST be completed with Bottle Quantities.**

**Client Sample - Information - Identification**

Sampler's Signature: [signature] Date: 8/2/22

**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 | TCL SVOC | Dissolved TAL Metals * | Total Cyanide | Chloride | Total TAL Metals | High Level TCL VOC | Low Level TCL VOC | GL Amber 8 oz. w/H3PO4 | Soil VOA Vials [1] 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 [1] 250ml [ ] 500ml [ ] 1000ml | PL H2SO4 [ ] 250ml [ ] 500ml | PL NaOH 250ml | PL HNO3 250ml | Bacteria Bottle as is | PL120 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97028 | PC-1 8-2-22 | GW | 8/2/22 | 11:55 | X | X | X | X | X | X | | | | | | | X | X | X | | X | | X | |
| 97029 | PC-2 8-2-22 | GW | 8/2/22 | 10:32 | X | X | X | X | X | X | | | | | | | X | X | X | | X | | X | |
| 97030 | PC-3 8-2-22 | GW | 8/2/22 | 14:10 | X | X | X | X | X | X | | | | | | | X | X | X | | X | | X | |
| 97031 | LMW-2 8-2-22 | GW | 8/2/22 | 8:35 | X | X | X | X | X | X | | | | | | | X | X | X | | X | | X | |
| 97032 | LMW-4 8-2-22 | GW | 8/2/22 | 9:50 | X | X | X | X | X | X | | | | | | | X | X | X | | X | | X | |
| 97033 | SW-1 8-2-22 | SW | 8/2/22 | 8:06 | X | X | | X | X | X | | | | | | | X | X | | | X | X | X | |
| 97034 | SW-2 8-2-22 | SW | 8/2/22 | 10:55 | X | X | | X | X | X | | | | | | | X | X | | | X | X | X | |
| 97035 | SW-4 8-2-22 | SW | 8/2/22 | 14:55 | X | X | | X | X | X | | | | | | | X | X | | | X | X | X | |
| 97036 | SD-1 8-2-22 | SE | 8/2/22 | 8:10 | | X | | X | X | X | X | X | | X | X | | | | | | | | | |
| 97037 | SD-2 8-2-22 | SE | 8/2/22 | 11:00 | | X | | X | X | X | X | X | | X | X | | | | | | | | | |
| 97038 | SD-3 8-2-22 | SE | 8/2/22 | 12:10 | | X | | X | X | X | X | X | | X | X | | | | | | | | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | [signature] | 8.3.22 | 12.36 |
| [signature] | [signature] | 8/3/22 | 1750 |
| | | | |

**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:**
* Lab to filter sample for dissolved TAL Metals

* USE NYSDOT Pricing

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

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

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* use NYSDOT Pricing 2 of 2

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ No ☐

# NY/NJ/PA CHAIN OF CUSTODY RECORD

Temp 1 °C Pg of

**PHOENIX**
*Environmental Laboratories, Inc.*

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:**
☐ Phone: 631-348-7600
☐ Fax:
☐ Email: RLambert@ca-pc.com

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

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

Project P.O:

**This section MUST be completed with Bottle Quantities.**

**Client Sample - Information - Identification**

Sampler's Signature: [signature] Date: 8/2/22

**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 | TCL SVOC | Dissolved TAL Metals | Total Cyanide | Chloride | Total TAL Metals | High Level TCL VOC | Low Level TCL VOC | GL Amber 8 oz. w/H3PO4 | Soil VOA Vials [1] 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 [1] 250ml [ ] 500ml [ ] 1000ml | PL H2SO4 [ ] 250ml [ ] 500ml | PL NaOH 250ml | PL HNO3 250ml | Bacteria Bottle as is | PL 12D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97039 | SD-4 8-2-22 | SE | 8/2/22 | 15:00 | | X | | X | X | X | X | X | | X | X | | | | | | | | | |
| 97040 | GW-Duplicate 8-2-22 | GW | 8/2/22 | XXXX | X | X | X | X | X | X | | | | | | X | X | X | | X | | X | | |
| 97041 | Field Blank 8-2-22 | L | 8/2/22 | 14:20 | X | X | X | X | X | X | | | | | | X | X | X | | X | | X | | |
| 97042 | Trip Blank 8-2-22 | L | / | / | X | RL | | | | | | | | | | X | | | | | | | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | [signature] | 8.3.22 | 12:36 |
| [signature] | [signature] | 8/3/22 | 17:50 |
| | | | |

**Turnaround:**
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 5 Days
☐ 10 Days
☒ 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**
☒ 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:**
* Lab to filter sample for dissolved TAL Metals

* USE NYSDOT Pricing

**Data Format:**
☒ Phoenix Std Report ☐ EQuIS
☒ Excel ☐ NJ Hazsite EDD
☒ PDF ☐ NY EZ EDD
☐ GIS/Key ☐ Other

**Data Package:**
☐ NJ Reduced Deliv. * ☐ Other
☒ NY Enhanced (ASP B) *

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# Appendix B

## Sampling Logs



1200 Veterans Memorial Highway • Hauppauge, NY 11788 • (631) 348-7600 • FAX (631) 348-7601

# GROUNDWATER SAMPLING LOG

**Site Name:** Harrison Landfill
**Site Location:** Harrison Subresidency, Harrison, NY
**Date**: August 2, 2022
**Purge Method:** Whale Pump
**Purge Start Time:** 11:35 AM
**Purge End Time:** 11:45 AM
**Well Casing Condition:** Dummy lock on casing

**Well/Sampling Point ID:** PC-1
**Well Diameter:** 2"
**Weather:** 85°F Sunny

**Water Level & Water Column Height (feet)**

| Depth to Water (ft) | Depth to Well Bottom (ft) | Water Column Height (ft) | Well Capacity (gal/ft): |
|---|---|---|---|
| 7.00 | 16.73 | 9.73 | 1.56 |

**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

**Monitoring Well Gas Readings**

| VOCs (ppm): | CH4 (%): | CO2 (%): | O2 (%): | H2S (ppm): | CO (ppm): |
|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 20.3 | 0 | 0 |

**Well Purge Water Quality**

| VOLUME PURGED (gal) | PH | TEMP (°C) | COND (µmhos) | DO (mg/L) | TURB (FNUs) | ORP |
|---|---|---|---|---|---|---|
| 1.6 | 7.23 | 16.75 | 1502 | 2.54 | 19.6 | -92.5 |
| 3.2 | 7.13 | 16.51 | 1420 | 2.63 | 0.5 | -78.5 |
| 4.8 | 7.13 | 16.44 | 1317 | 3.22 | 0.0 | -73.6 |
| Sample | 7.21 | 17.28 | 1313 | 3.65 | 3.6 | -70.7 |

**Groundwater Sampling Data**

| | | |
|---|---|---|
| **SAMPLED BY:** Rachel Lambert & Garner Greene | | |
| **SAMPLING METHOD:** Dedicated bailer | **SAMPLE COLLECTED AT:** 11:55 AM | **REMARKS:** Groundwater Duplicate |
| **ANALYSIS:** TCL VOCs, TCL SVOCs, TAL Metals (lab filtered), Cyanide, Chloride | | |



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# GROUNDWATER SAMPLING LOG

**Site Name:** Harrison Landfill
**Site Location:** Harrison Subresidency, Harrison, NY
**Date**: August 2, 2022
**Purge Method:** Whale Pump
**Purge Start Time:** 10:00 AM
**Purge End Time:** 10:30 AM
**Well Casing Condition:** Cut lock, bent riser

**Well/Sampling Point ID:** PC-2
**Well Diameter:** 2"
**Weather:** 80°F Sunny

**Water Level & Water Column Height (feet)**

| Depth to Water (ft) | Depth to Well Bottom (ft) | Water Column Height (ft) | Well Capacity (gal/ft): |
|---|---|---|---|
| 3.75 | 9.5 | 5.75 | 0.92 |

**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

**Monitoring Well Gas Readings**

| VOCs (ppm): | CH4 (%): | CO2 (%): | O2 (%): | H2S (ppm): | CO (ppm): |
|---|---|---|---|---|---|
| 0.0 | 0.9 | 0.4 | 20.2 | 0 | 0 |

**Well Purge Water Quality**

| VOLUME PURGED (gal) | PH | TEMP (°C) | COND (µmhos) | DO (mg/L) | TURB (FNUs) | ORP |
|---|---|---|---|---|---|---|
| 1 | 6.73 | 15.33 | 787 | 3.12 | 79.7 | -93.9 |
| 2 | 6.77 | 15.07 | 765 | 3.56 | 30.5 | -98.5 |
| 3 | 6.74 | 15.10 | 755 | 3.23 | 19.0 | -95.6 |
| Sample | 6.70 | 15.47 | 748 | 2.75 | 25.0 | -93.7 |

**Groundwater Sampling Data**

| | | |
|---|---|---|
| **SAMPLED BY:**<br><br>Rachel Lambert & Garner Greene | | |
| **SAMPLING METHOD:**<br><br>Peristaltic Pump | **SAMPLE COLLECTED AT:**<br><br>10:32 AM | **REMARKS:** |
| **ANALYSIS:**<br><br>TCL VOCs, TCL SVOCs, TAL Metals (lab filtered), Cyanide, Chloride | | |



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# GROUNDWATER SAMPLING LOG

**Site Name:** Harrison Landfill
**Site Location:** Harrison Subresidency, Harrison, NY
**Date**: August 2, 2022
**Purge Method:** Whale Pump
**Purge Start Time:** 1:55 PM
**Purge End Time:** 2:04 PM
**Well Casing Condition:** Good; broken cover

**Well/Sampling Point ID:** PC-3
**Well Diameter:** 2"
**Weather:** 86°F Sunny

**Water Level & Water Column Height (feet)**

| Depth to Water (ft) | Depth to Well Bottom (ft) | Water Column Height (ft) | WELL CAPACITY (gal/ft): |
|---|---|---|---|
| 10.1 | 18.37 | 8.27 | 1.32 |

## 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

**Monitoring Well Gas Readings**

| VOCs (ppm): | CH4 (%): | CO2 (%): | O2 (%): | H2S (ppm): | CO (ppm): |
|---|---|---|---|---|---|
| 0.0 | 0.0 | 1.3 | 18.1 | 2 | 1 |

**Well Purge Water Quality**

| VOLUME PURGED (gal) | PH | TEMP ( C ) | COND (µmhos) | DO (mg/L) | TURB (FNUs) | ORP |
|---|---|---|---|---|---|---|
| 1.5 | 7.72 | 13.87 | 969 | 2.61 | 915 | -39.2 |
| 3 | 7.41 | 13.52 | 960 | 2.80 | 88.1 | -19.6 |
| 4.5 | 7.22 | 13.52 | 933 | 2.58 | 54.1 | -5.4 |
| Sample | 7.21 | 15.41 | 862 | 3.50 | 50.0 | 12.4 |

**Groundwater Sampling Data**

| | | |
|---|---|---|
| **SAMPLED BY:**<br><br>Rachel Lambert & Garner Greene | | |
| **SAMPLING METHOD:**<br><br>Dedicated bailer | **SAMPLE COLLECTED AT:**<br><br>2:10 PM | **REMARKS:**<br>Water orange-brown |
| **ANALYSIS:**<br><br>TCL VOCs, TCL SVOCs, TAL Metals (lab filtered), Cyanide, Chloride | | |
| **Field Blank: 2:20 PM** | | |



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# GROUNDWATER SAMPLING LOG

**Site Name:** Harrison Landfill
**Site Location:** Harrison Subresidency, Harrison, NY
**Date**: August 2, 2022
**Purge Method:** Whale Pump
**Purge Start Time:** 7:20 AM
**Purge End Time:** 8:20 AM
**Well Casing Condition:** Good; locked

**Well/Sampling Point ID:** LMW-2
**Well Diameter:** 2"
**Weather:** 73°F Partly Cloudy

**Water Level & Water Column Height (feet)**

| Depth to Water (ft) | Depth to Well Bottom (ft) | Water Column Height (ft) | WELL CAPACITY (gal/ft): |
|---|---|---|---|
| 11.6 | 20 | 8.4 | 1.34 |

## 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

**Monitoring Well Gas Readings**

| VOCs (ppm): | CH4 (%): | CO2 (%): | O2 (%): | H2S (ppm): | CO (ppm): |
|---|---|---|---|---|---|
| 0.0 | 0.0 | 1.3 | 19.5 | 2 | 1 |

**Well Purge Water Quality**

| VOLUME PURGED (gal) | PH | TEMP ( C ) | COND (µmhos) | DO (mg/L) | TURB (FNUs) | ORP |
|---|---|---|---|---|---|---|
| 1.5 | 6.61 | 12.45 | 509 | 2.55 | 39.7 | 222.5 |
| 2.9 | 6.53 | 12.75 | 497 | 3.89 | 30.6 | 264.1 |
| 4.3 | 6.59 | 12.93 | 500 | 4.23 | 14.8 | 259.4 |
| Sample | 6.78 | 12.54 | 507 | 4.82 | 43.6 | 240.4 |

**Groundwater Sampling Data**

| | | |
|---|---|---|
| **SAMPLED BY:**<br><br>Rachel Lambert & Garner Greene | | |
| **SAMPLING METHOD:**<br><br>Dedicated bailer | **SAMPLE COLLECTED AT:**<br><br>8:35 AM | **REMARKS:**<br><br>Well slow to recharge |
| **ANALYSIS:**<br><br>TCL VOCs, TCL SVOCs, TAL Metals (lab filtered), Cyanide, Chloride | | |



1200 Veterans Memorial Highway • Hauppauge, NY 11788 • (631) 348-7600 • FAX (631) 348-7601

# GROUNDWATER SAMPLING LOG

**Site Name:** Harrison Landfill
**Site Location:** Harrison Subresidency, Harrison, NY
**Date**: August 2, 2022
**Purge Method:** Whale Pump
**Purge Start Time:** 9:15 AM
**Purge End Time:** 9:30 AM
**Well Casing Condition:** Good; cut lock

**Well/Sampling Point ID:** LMW-4
**Well Diameter:** 2"
**Weather:** 77°F Sunny

**Water Level & Water Column Height (feet)**

| Depth to Water (ft) | Depth to Well Bottom (ft) | Water Column Height (ft) | WELL CAPACITY (gal/ft): |
|---|---|---|---|
| 4.1 | 12 | 7.9 | 1.26 |

## 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

**Monitoring Well Gas Readings**

| VOCs (ppm): | CH4 (%): | CO2 (%): | O2 (%): | H2S (ppm): | CO (ppm): |
|---|---|---|---|---|---|
| 0.0 | 0.2 | 0.8 | 19.9 | 1 | 0 |

**Well Purge Water Quality**

| VOLUME PURGED (gal) | PH | TEMP ( C ) | COND (µmhos) | DO (mg/L) | TURB (FNUs) | ORP |
|---|---|---|---|---|---|---|
| 1.3 | 6.68 | 14.86 | 716 | 2.41 | 180 | -84.3 |
| 2.8 | 6.64 | 15.06 | 689 | 2.47 | 274 | -80.6 |
| 4.1 | 6.72 | 13.47 | 725 | 3.47 | 176 | -88.6 |
| Sample | 6.75 | 13.99 | 631 | 3.78 | 493 | -89.9 |

**Groundwater Sampling Data**

| | | |
|---|---|---|
| **SAMPLED BY:**<br><br>Rachel Lambert & Garner Greene | | |
| **SAMPLING METHOD:**<br><br>Dedicated bailer | **SAMPLE COLLECTED AT:**<br><br>9:50 AM | **REMARKS:**<br>Water brown and slow to recharge |
| **ANALYSIS:**<br><br>TCL VOCs, TCL SVOCs, TAL Metals (lab filtered), Cyanide, Chloride | | |



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**SOIL SAMPLING LOG**

SITE NAME: Harrison Landfill SITE LOCATION: Harrison, NY

WEATHER: 87°F Mostly Sunny, Wind SSW DATE: August 2, 2022

| Sample ID | Time | Depth (in) | Latitude | Longitude |
|---|---|---|---|---|
| SD-1 | 8:10 AM | 4 | 41.0696600 | -73.7147071 |
| SD-2 | 11:00 AM | 3.5 | 41.0701996 | -73.7158119 |
| SD-3 | 12:10 PM | 2 | 41.0691615 | -73.7162269 |
| SD-4 | 3:00 PM | 2 | 41.0701627 | -73.7162326 |

Comments:

Sampled By: Rachel Lambert and Garner Greene

Sampling Method: Stainless steel ladle and dedicated soil sampling plunger



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SURFACE WATER SAMPLING LOG

SITE NAME: Harrison Landfill
SITE LOCATION: Harrison, NY
WEATHER: 87°F Mostly Sunny, Wind SSW
DATE: August 2, 2022

| Sample ID | Sample Time | Sample Depth (in) | Stream Depth (in) | Stream Width (in) | Temp °C | pH | Cond. (mS/cm) | Turbidity | DO (mg/L) | Flow ($ft^3/s$) | Latitude °N | Longitude °W |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW-1 | 8:06 AM | 2 | 4 | 60 | 17.97 | 7.27 | 290 | 0.0 | 5.16 | 0 | 41.0696600 | -73.7147071 |
| SW-2 | 10:55 AM | 1 | 3.5 | 45 | 19.47 | 7.71 | 65 | 6.1 | 5.52 | 1 | 41.0701996 | -73.7158119 |
| SW-3 | Dry - No Sample | | | | | | | | | | | |
| SW-4 | 2:55 PM | 2 | 3 | 33 | 21.29 | 7.51 | 75 | 0.0 | 3.48 | 0.25 | 41.0701627 | -73.7162326 |

Comments:

Sampled By: Rachel Lambert and Garner Greene

Sampling Method: Stainless Steel Ladle

Analysis: TCL VOCs, TCL SVOCs, TAL Metals, Cyanide, Chloride



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**GAS VENT SAMPLING LOG**

SITE NAME: Harrison Landfill SITE LOCATION: Harrison, NY

WEATHER: 87°F Mostly Sunny, Wind SSW DATE: August 2, 2022

| Sample ID | Time | PID (ppm) | FID (ppm) | $CH_4$ (%) | $CO_2$ (%) | $O_2$ (%) | $H_2S$ (ppm) | CO (ppm) |
|---|---|---|---|---|---|---|---|---|
| GV-1 | 1:25 PM | 0.0 | 6239.0 | 5.4 | 2.8 | 16.4 | 1 | 1 |
| GV-2 | 1:15 PM | 0.0 | 1750.0 | 26.1 | 12.9 | 0.3 | 3 | 1 |
| GV-3 | 1:12 PM | 0.0 | 1025.0 | 0.0 | 0.9 | 18.6 | 1 | 1 |
| GV-4 | 1:08 PM | 0.0 | 4436.0 | 1.3 | 3.5 | 17.2 | 2 | 1 |
| Upwind Ambient Air | 1:03 PM | 0.0 | 0.3 | 0.0 | 0.0 | 20.1 | 1 | 1 |
| Downwind Ambient Air | 1:20 PM | 0.0 | 0.0 | 0.0 | 0.0 | 19.9 | 1 | 1 |

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