5788 Widewaters Parkway
Syracuse, New York 13214
United States
www.ghd.com

Your ref: BCP Site #C360066
Our ref: 12582344

November 14, 2022

Mr. Michael Squire
Division of Environmental Remediation, Remedial Bureau C
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233

RE: Former Austin Avenue Landfill CBP Site, May 2022 Biennial Post-Remediation Groundwater Monitoring

Dear Mr. Squire

GHD Consulting Services Inc. (GHD) personnel have completed the biennial 2022 post-remediation groundwater monitoring activities at the Lot 1 – Former Austin Avenue Landfill Brownfield Cleanup Program (BCP) Site (Site #C360066) located in the City of Yonkers, Westchester County, NY (Figure 1), on behalf of Morris Westchester Junior Retail Associates, LLC. The reduction to a biennial sampling frequency was requested following the May 2021 sampling event and approved by NYSDEC, by letter dated December 9, 2021, with a requirement that one more round of samples be collected from SWRMW-3, SWRMW-4, and SWRMW-5 and analyzed for total and dissolved metals by the laboratory to determine if past exceedances of chromium, lead, nickel, and silver were anomalies. The following is a summary of the sampling activities and findings of this biennial groundwater monitoring event.

1. Groundwater Monitoring Well Sampling Methods

One round of groundwater samples was taken from the four Site groundwater monitoring wells (SWRMW-1, SWRMW-3, SWRMW-4, and SWRMW-5 shown of Figure 2) between May 2 and May 3, 2022. Monitoring well SWRMW-2 is not included in the Site groundwater monitoring requirements and was not sampled. A blind field duplicate sample and a matrix spike/matrix spike duplicate sample were taken at SWRMW-4 for quality control/quality assurance purposes.

Prior to purging the monitoring wells, depth to water and total depth of well measurements were taken using an electronic water level meter for use in calculating well volumes and static groundwater elevations. Sampled wells were purged using a stainless-steel bladder pump equipped with a Teflon bladder and dedicated polyethylene tubing for each monitoring well. The bladder pump and Teflon bladder were

decontaminated between each monitoring well by washing in an Alconox and potable water solution and rinsing with potable water. Purging continued until groundwater field parameters stabilized (i.e., temperature, conductivity, dissolved oxygen, pH, oxidation reduction potential, and turbidity). Groundwater field parameters were recorded using a field calibrated multi-parameter water quality meter equipped with a flow-through cell.

Following purging, the multi-parameter water quality meter was disconnected, and groundwater samples were taken using the stainless-steel bladder pump. Samples were collected directly from the dedicated tubing into containers provided by the laboratory, placed in ice-filled coolers, and submitted to Alpha Analytical of Westborough, MA for analysis. Samples for dissolved metals analysis were collected directly into containers provided by the laboratory and filtered by the laboratory prior to analysis. As previously approved by NYSDEC, each groundwater sample was analyzed for total Target Analyte List (TAL) metals and dissolved TAL metals by EPA Methods 6020A and 7470A (mercury only).

Groundwater monitoring well purge water was discharged to the ground surface in the vicinity of the monitoring well from which it came and allowed to infiltrate, in accordance with NYSDEC approval. Field sampling logs are included as Attachment 1.

2. Groundwater Monitoring Well Sampling Results

A depth to water measurement was taken from each of the groundwater monitoring wells prior to purging (Table 1). This information was used to calculate groundwater elevations, which were used to create groundwater contour figures and infer groundwater flow direction (Figure 3). Based on the calculated groundwater elevations, it was inferred that shallow groundwater flow at the time of sampling was generally to the east, towards Sprain Brook.

Groundwater field parameters were recorded after every 5 minutes of purge using a multi-parameter water quality meter equipped with a flow-through cell (Table 2). Turbidity readings in monitoring wells SWRMW-4 and SWRMW-5 remained elevated throughout purging with readings above 100 NTU at the time of sampling (turbidities were 143 NTU and 137 NTU, respectively).

Laboratory analytical results for groundwater samples are compared to the NYSDEC Division of Water Technical and Operations Guidance Series (TOGS) 1.1.1 Class GA ambient water quality standards or guidance values (June 1998 and subsequent addenda) in Table 3. Groundwater samples from each of the monitoring wells were also analyzed for dissolved metals during this sampling round to determine the influence of entrained particulates on metals concentrations, if any. A comparison of results for dissolved metals and total metals samples is presented in Table 3.

Figure 4 identifies groundwater sample locations and analytes that exceed the Class GA groundwater standards or guidance values. Attachment 2 includes a copy of the laboratory analytical report. In addition, field measurements and groundwater sample analytical results were submitted to the NYSDEC's EQuIS database and are awaiting upload.

During the May 2022 monitoring event, numerous metals were identified at concentrations above laboratory method detection limits in each of the samples taken. Of those detected, the following analytes were identified at concentrations that exceed applicable Class GA groundwater standards or guidance values in at least one sample:

– Iron, Total – All samples
– Iron, Dissolved – SWRMW-1
– Magnesium, Total – SWRMW-4, and Duplicate (SWRMW-4)

- Magnesium, Dissolved – SWRMW-1, SWRMW-4, and Duplicate (SMRMW-4)
- Manganese, Total – SWRMW-1 and Duplicate (SWRMW-4)
- Manganese, Dissolved – SWRMW-1
- Sodium, Total – SWRMW-1, SWRMW-4, SWRMW-5, and Duplicate (SWRMW-4)
- Sodium, Dissolved - SWRMW-1, SWRMW-4, SWRMW-5, and Duplicate (SWRMW-4)

3. Conclusions

During the May 2022 monitoring event, total and dissolved metals exceedances were detected in each of the groundwater samples taken. Total iron exceeded applicable Class GA groundwater standards or guidance values in samples taken from all four Site monitoring wells; total sodium exceeded applicable Class GA standards or guidance values in samples taken from three of the four Site monitoring wells (SWRMW-1, SWRMW-4, and SWRMW-5); total manganese exceeded Class GA groundwater standards or guidance values in samples taken from two of the four Site monitoring wells (SWRMW-1 and SWRMW-4); and total magnesium exceeded Class GA groundwater standards or guidance values in samples taken from one of the four Site monitoring wells (SWRMW-4). The detected concentrations of these analytes, which are commonly occurring natural elements, were similar to those previously detected and indicate relatively stable concentrations based on the available sample analytical results. Concentrations of total chromium (SWRMW-5) and total silver (SWRMW-3) that exceeded Class GA groundwater standards in samples from these specific wells during the May 2021 monitoring event were not identified above laboratory method detection limits (total silver) or Class GA standards (total chromium) in samples collected in May 2022.

Based on a comparison of results for the total metals and dissolved metals samples collected during this monitoring event, there appears to be a correlation between entrained particulates and total metal concentrations. For the natural commonly occurring metals that were consistently detected in the samples collected, iron and manganese concentrations decreased in each filtered dissolved phase sample (except manganese in the sample from SWRMW-1), whereas the results for sodium and magnesium exhibited a less consistent relationship.

The groundwater sample analytical data to date for the Site indicates relatively stable or slightly decreasing concentrations, with the primary analytes that commonly exceed Class GA groundwater standards or guidance values across the Site being naturally occurring metals. In addition, metals concentrations identified in samples taken from upgradient groundwater monitoring well SWRMW-1 are generally more numerous and of higher concentrations that those identified in groundwater samples taken from downgradient monitoring wells SWRMW-4 and SWRMW-5.

Documentation of the upload of data to the NYSDEC's EQuIS database will be maintained and submitted in the next Periodic Review Report (PRR).

Laboratory analytical results of groundwater samples taken from the Site will continue to be monitored during the future biennial monitoring events to assess groundwater quality and identify discernable trends. The next groundwater monitoring event is scheduled to occur in May 2024. Notifications will be provided to the NYSDEC 10 days in advance of field sampling activities.

Please contact me if you have questions or require additional information.

Regards

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Project Director

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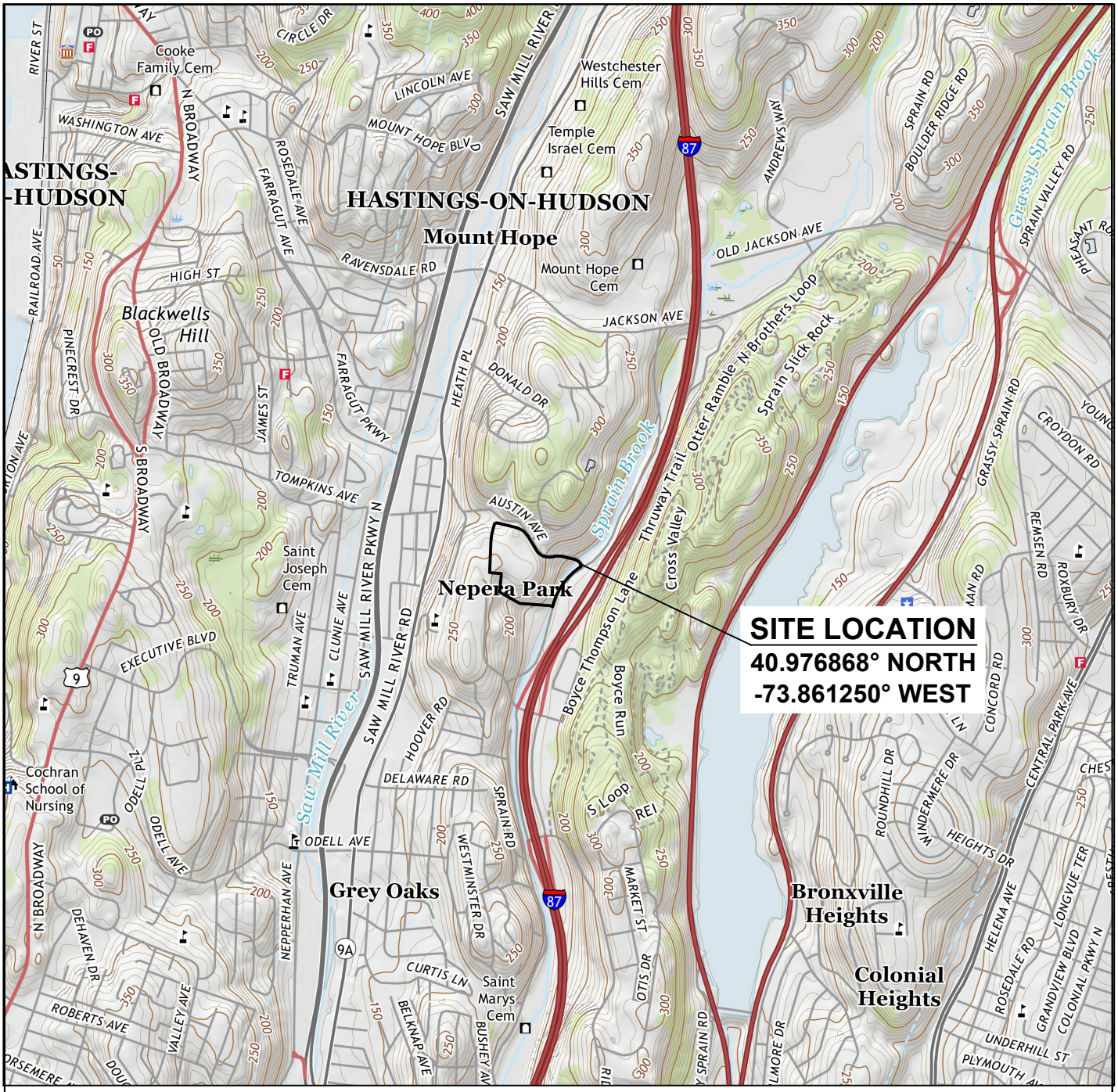
Enclosures:
- Figure 1 – Site Location Map
- Figure 2 – Site Layout
- Figure 3 – Groundwater Elevation and Flow
- Figure 4 – Groundwater Analytical Results
- Table 1 – Groundwater Elevation Data
- Table 2 – Summary of Groundwater Field Parameters
- Table 3 – Summary of Groundwater Laboratory Analytical Results
- Attachment 1 – Groundwater Field Sampling Logs
- Attachment 2 – Laboratory Analytical Report

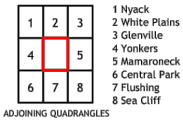
Copy to:
- Stephen Lawrence, NYSDOH (w/encs. via email)
- Maureen Schuck, NYSDOH (w/encs. via email)
- Keith Morris, Morris Companies (w/encs. via email)
- Thomas Gallagher, Morris Companies (w/encs. via email)

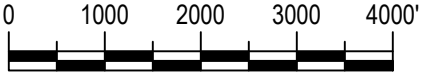
Figures



CONTOUR INTERVAL: 10 FEET

MAPS TAKEN FROM: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLES:
MOUNT VERNON, NY (2019) &
YONKERS, NY-NJ (2019)
(U.S. GEOLOGICAL SURVEY WEBSITE)





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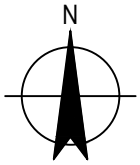

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Morris Westchester Junior Retail Associates, LLC
Lot 1 - Austin Avenue Landfill BCP Site
Biennial Groundwater Monitoring

SITE LOCATION MAP

Project No. **12582344**
Date **9.21.2022**

FIGURE 1

Filename: \\ghdnet\ghd\US\Syracuse\Projects\564\12582344\Digital_Design\ACAD\Figures\12582344-LTR-FIG01-2022.Biennial.GW-Site Location.dwg
Plot Date: 27 September 2022 9:01 AM

Data Source

LEGEND:

- Property Boundary (Approximate)
- Extent of Lot 1 Geotextile Demarcation Layer (Approximate)
- SWR-MW01 — Groundwater Monitoring Well Location and ID (Approximate)

NOTES:

1. AERIAL PHOTOGRAPHS ARE 6-INCH RESOLUTION AERIAL PHOTOGRAPHS DATED 2021 AND TAKEN FROM THE NYSGIS CLEARINGHOUSE WEBSITE.
2. LOT 1 BASE MAP FROM A FIELD SURVEY CONDUCTED BY CONTRACTORS LINE AND GRADE SOUTH, LLC, MAY 11, 2011.
3. LOT 4 BASE MAP FROM A FIELD SURVEY CONDUCTED BY JOHN MEYER CONSULTING, P.C. JUNE 30, 2011.
4. EXTENT OF ASH FROM EXISTING CONDITIONS, PLATE 1, MORRIS WESTCHESTER CONSTRUCTION COMPANY, L.L.P. HISTORIC AUSTIN AVENUE LANDFILL CLOSURE PLAN, LEGGETTE, BRASHEARS, & GRAHAM ENGINEERING SERVICES, P.C. MARCH 1988. REVISED BY S&W REDEVELOPMENT OF NORTH AMERICA, LLC, MAY 2011. FURTHER REVISED BY GHD CONSULTING ENGINEERS, LLC, DECEMBER 2012.

N

0 75 150 225 300'

SCALE 1"=150' AT ORIGINAL SIZE

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Morris Westchester Junior Retail Associates, LLC
Lot 1- Austin Avenue Landfill BCP Site
Biennial Groundwater Monitoring

SITE LAYOUT

Project No. **12582344**
Date **9.21.2022**

FIGURE 2

Filename: \\ghdnet\ghd\US\Syracuse\Projects\564\12582344\Digital_Design\ACAD\Figures\12582344-LTR-FIG02-2022.Biennial.GW-Site Layout.dwg
Plot Date: 27 September 2022 9:23 AM

Data Source

LEGEND:

- Property Boundary (Approximate)
- Extent of Lot 1 Geotextile Demarcation Layer (Approximate)
- SWR-MW01 — Groundwater Monitoring Well Location and ID (Approximate)
- 215.64' — Groundwater Elevation (May 2022 Monitoring Event)
- Groundwater Elevation Contour and Presumed Flow (Approximate)

NOTES:

1. AERIAL PHOTOGRAPHS ARE 6-INCH RESOLUTION AERIAL PHOTOGRAPHS DATED 2021 AND TAKEN FROM THE NYSGIS CLEARINGHOUSE WEBSITE.
2. LOT 1 BASE MAP FROM A FIELD SURVEY CONDUCTED BY CONTRACTORS LINE AND GRADE SOUTH, LLC, MAY 11, 2011.
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SCALE 1"=150' AT ORIGINAL SIZE

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Morris Westchester Junior Retail Associates, LLC
Lot 1 - Austin Avenue Landfill BCP Site
Biennial Groundwater Monitoring

May 2022 GROUNDWATER ELEVATIONS AND PRESUMED FLOW

Project No. **12582344**
Date **9.21.2022**

FIGURE 3

Filename: \\ghdnet\ghd\US\Syracuse\Projects\564\12582344\Digital_Design\ACAD\Figures\12582344-LTR-FIG03-2022.Biennial.GW-GW Contours.dwg
Plot Date: 27 September 2022 8:59 AM

Data Source

LEGEND:

- Property Boundary (Approximate)
- Extent of Lot 1 Geotextile Demarcation Layer (Approximate)
- SWR-MW01 — Groundwater Monitoring Well Location and ID (Approximate)
- Conc. ug/L — Detected Concentration in ug/L (5-2-2022)

ug/L - micrograms per liter, parts per billion

NOTES:

1. ONLY EXCEEDANCES OF THE CLASS GA GROUNDWATER STANDARDS OR GUIDANCE VALUES ARE SHOWN HERE. FOR A COMPLETE SUMMARY OF ANALYTICAL RESULTS, REFER TO THE TABLES
2. AERIAL PHOTOGRAPHS ARE 6-INCH RESOLUTION AERIAL PHOTOGRAPHS DATED 2021 AND TAKEN FROM THE NYSGIS CLEARINGHOUSE WEBSITE.
3. LOT 1 BASE MAP FROM A FIELD SURVEY CONDUCTED BY CONTRACTORS LINE AND GRADE SOUTH, LLC, MAY 11, 2011.
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0 75 150 225 300'

SCALE 1"=150' AT ORIGINAL SIZE

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Morris Westchester Junior Retail Associates, LLC
Lot 1 - Austin Avenue Landfill BCP Site
Biennial Groundwater Monitoring

MAY 2022 GROUNDWATER EXCEEDANCES

Project No. **12582344**
Date **9.21.2022**

FIGURE 4

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Plot Date: 27 September 2022 9:48 AM

Data Source

Tables

Table 1: Groundwater Elevation Data. Lot 1- Austin Avenue Landfill, Yonkers, NY, BCP Site #C360066

Monitoring Well I.D.	Date	Reference Point	Reference Elevation (feet)	DTW (feet)	DOW (feet)	Water Elevation (feet)	Volume (gal)
SWRMW-1	3/1/2007	Top of PVC	253.54	37.18	44.00	216.36	1.09
SWRMW-1	6/1/2007	Top of PVC	253.54	37.48	44.00	216.06	1.04
SWRMW-1	11/17/2016	Top of PVC	253.54	-	-	-	-
SWRMW-1	5/17/2017	Top of PVC	253.54	36.92	42.65	216.62	0.92
SWRMW-1	11/14/2017	Top of PVC	253.54	39.87	42.90	213.67	0.48
SWRMW-1	6/5/2018	Top of PVC	253.54	37.47	42.90	216.07	0.87
SWRMW-1	5/19/2019	Top of PVC	253.54	37.03	42.90	216.51	0.94
SWRMW-1	6/11/2020	Top of PVC	253.54	37.90	42.90	215.64	0.80
SWRMW-1	5/19/2021	Top of PVC	253.54	38.10	42.90	215.44	0.77
SWRMW-1	5/2/2022	Top of PVC	253.54	37.11	43.01	216.43	0.93
SWRMW-3	3/1/2007	Top of PVC	235.74	24.10	30.00	211.64	0.94
SWRMW-3	6/1/2007	Top of PVC	235.74	24.14	30.00	211.60	0.94
SWRMW-3	11/17/2016	Top of PVC	235.74	28.23	31.65	207.51	0.55
SWRMW-3	5/17/2017	Top of PVC	235.74	26.80	35.62	208.94	1.41
SWRMW-3	11/14/2017	Top of PVC	235.74	31.05	35.70	204.69	0.74
SWRMW-3	6/5/2018	Top of PVC	235.74	26.58	35.70	209.16	1.46
SWRMW-3	5/19/2019	Top of PVC	235.74	26.11	35.70	209.63	1.53
SWRMW-3	6/11/2020	Top of PVC	235.74	26.45	35.70	209.29	1.48
SWRMW-3	5/19/2021	Top of PVC	235.74	26.80	35.70	208.94	1.42
SWRMW-3	5/2/2022	Top of PVC	235.74	26.00	35.55	209.74	1.55
SWRMW-4	3/1/2007	Top of PVC	134.89	6.61	16.00	128.28	1.50
SWRMW-4	6/1/2007	Top of PVC	134.89	6.51	16.00	128.38	1.52
SWRMW-4	11/17/2016	Top of PVC	134.89	7.51	18.10	127.38	1.69
SWRMW-4	5/17/2017	Top of PVC	134.89	6.45	18.20	128.44	1.88
SWRMW-4	11/14/2017	Top of PVC	134.89	8.05	18.32	126.84	1.64
SWRMW-4	6/5/2018	Top of PVC	134.89	6.76	18.32	128.13	1.85
SWRMW-4	5/19/2019	Top of PVC	134.89	6.44	18.32	128.45	1.90
SWRMW-4	6/11/2020	Top of PVC	134.89	7.50	18.32	127.39	1.73
SWRMW-4	5/19/2021	Top of PVC	134.89	7.58	18.32	127.31	1.72
SWRMW-4	5/2/2022	Top of PVC	134.89	6.32	17.18	128.57	1.92
SWRMW-5	3/1/2007	Top of PVC	156.72	6.75	19.40	149.97	2.02
SWRMW-5	6/1/2007	Top of PVC	156.72	8.49	19.40	148.23	1.75
SWRMW-5	11/17/2016	Top of PVC	156.72	11.13	20.47	145.59	1.49
SWRMW-5	5/17/2017	Top of PVC	156.72	9.05	22.65	147.67	2.18
SWRMW-5	11/14/2017	Top of PVC	156.72	13.22	22.97	143.50	1.56
SWRMW-5	6/5/2018	Top of PVC	156.72	10.31	22.97	146.41	2.03
SWRMW-5	5/19/2019	Top of PVC	156.72	9.10	22.97	147.62	2.22
SWRMW-5	6/11/2020	Top of PVC	156.72	10.98	22.97	145.74	1.92
SWRMW-5	5/19/2021	Top of PVC	156.72	10.81	22.97	145.91	1.95
SWRMW-5	5/2/2022	Top of PVC	156.72	8.50	20.11	148.22	2.32

DTW - Depth to Water
DOW - Depth of Well
gal - Gallons

Table 2: Groundwater Field Parameters. Lot 1- Austin Avenue Landfill, Yonkers, NY, BCP Site #C360066

Well I.D.	Date	Purge Method	Temp (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (units)	ORP (mV)	Turbidity (NTU)	Amount Purged (Liters)	Comments
SWRMW-1	3/14/2007	Bailer	11.80	0.397	0.99	6.47	56.8	3989.9	-	-
SWRMW-1	6/5/2007	Bailer	18.54	0.343	3.40	6.17	-80.9	1236.8	-	-
SWRMW-1	11/17/2016	-	-	-	-	-	-	-	-	Well found to be damaged and broken. No sample taken.
SWRMW-1	5/23/2017	Pump	16.20	0.327	0.57	6.86	58.7	49.7		Yellowish, sewer odor, some sediment, slightly turbid, no sheen. NOTE: took pesticide sample w/ bailer at 4PM. Sample at 11:01 and 11:13 were below the pump.
SWRMW-1	11/14/2017	Pump	8.96	1.02	0.99	6.08	0.0	87.1		Water level was at a level below the meter's ability to read so shut down well to let recharge. MS/MSD and blind field duplicate taken at this location.
SWRMW-1	6/4/2018	Pump	12.5	1.92	0.23	6.42	101	631		Cloudy brown, no odor
SWRMW-1	5/30/2019	Pump	12.2	1.880	0.11	6.10	76	816	0.66	Water was cloudy brown with no odor. Well dry after 17:15.
SWRMW-1	6/11/2020	Pump	13.8	1.590	0.80	6.59	-43	407	1	Water was cloudy brown with no odor.
SWRMW-1	5/19/2021	Pump	21.5	1.901	2.50	6.72	-70	56	0.4	Water cloudy brown, no odor
SWRMW-1	5/2/2022	Pump	10.44	1.8	0.65	7.25	25	18.9	6.5	-

Table 2: Groundwater Field Parameters. Lot 1- Austin Avenue Landfill, Yonkers, NY, BCP Site #C360066

Well I.D.	Date	Purge Method	Temp (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (units)	ORP (mV)	Turbidity (NTU)	Amount Purged (Liters)	Comments
SWRMW-3	3/14/2007	Bailer	12.11	0.264	5.92	6.68	178.6	3989.9	-	-
SWRMW-3	6/5/2007	Bailer	14.07	0.254	4.88	6.17	23.3	1194.3	-	-
SWRMW-3	11/17/2016	-	-	-	-	-	-	-	-	Pump clogged by sediment. Tried clearing several times and still could not get it to pump water. No sample taken.
SWRMW-3	5/23/2017	Pump	15.50	0.222	0.82	5.67	114.3	55.7	-	Murky yellow, no odor, no sheen, moderate turbidity. Took Duplicate at SWRMW-3
SWRMW-3	11/15/2017	Pump	10.9	0.285	1.60	5.46	123	19	-	-
SWRMW-3	6/5/2018	Pump	12.4	0.301	0.89	5.00	184	31	-	Slightly cloudy, light brown, no odor. Took Duplicate at SWRMW-3.
SWRMW-3	5/31/2019	Pump	12.2	0.208	0.09	5.38	107	22	4.62	9:30-9:35 the water was slightly cloudy, light brown, with no odor. Afetr 9:40 the water was clear with no odor.
SWRMW-3	6/11/2020	Pump	12.3	0.187	0.29	5.51	240	6	2	Water was slightly cloudy and light brown to clear with no odor with purge. Duplicate sample taken at this location.
SWRMW-3	5/19/2021	Pump	17.0	0.305	1.20	5.54	62	310	0.8	Water cloudy to clear with no odor. Duplicate sample taken at this location.
SWRMW-3	5/2/2022	Pump	11.13	0.264	3.13	5.78	315	12	4.5	-

Table 2: Groundwater Field Parameters. Lot 1- Austin Avenue Landfill, Yonkers, NY, BCP Site #C360066

Well I.D.	Date	Purge Method	Temp (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (units)	ORP (mV)	Turbidity (NTU)	Amount Purged (Liters)	Comments
SWRMW-4	3/14/2007	Bailer	7.55	0.784	3.98	6.98	292.9	2510.9	-	-
SWRMW-4	6/6/2007	Pump	12.16	0.641	3.16	6.11	-165.2	26.0	-	-
SWRMW-4	11/17/2016	Pump	13.41	1.357	4.66	7.04	183.9	727.3	5.25	YSI come disconnected and would not re-establish connection. Could not take field parameters to determine when well stabilized. Well was purged of 3 volumes and then sampled. Water turbid brown, no odor, no sheen.
SWRMW-4	5/23/2017	Pump	11.90	0.986	0.63	6.29	152	87.2	-	Brown, turbid, no odor, no sheen. Took MS/MSD at SWRMW-4
SWRMW-4	11/15/2017	Pump	11.55	1.280	2.75	6.01	NR	42.7	-	-
SWRMW-4	6/5/2018	Pump	13.10	1.530	0.76	6.10	177.0	296.0	-	Slightly cloudy, light brown, no odor
SWRMW-4	5/30/2019	Pump	12.7	1.760	0.48	6.31	202	135	3.96	Water was slightly cloudy, light brown, with no odor.
SWRMW-4	6/11/2020	Pump	20.0	2.060	4.33	6.17	219	496	2.00	Water was slightly cloudy, light brown, with no odor.
SWRMW-4	5/19/2021	Pump	15.6	1.160	1.15	6.42	154	345	1.10	Water cloudy, light brown, no odor. Collected field duplicate at this location. Collected MS/MSD at this location.
SWRMW-4	5/3/2022	Pump	9.85	0.93	0.93	6.8	299	143	9.75	-

Table 2: Groundwater Field Parameters. Lot 1- Austin Avenue Landfill, Yonkers, NY, BCP Site #C360066

Well I.D.	Date	Purge Method	Temp (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (units)	ORP (mV)	Turbidity (NTU)	Amount Purged (Liters)	Comments
SWRMW-5	3/14/2007	Bailer	10.44	0.558	4.11	6.89	299.7	99.0	-	-
SWRMW-5	6/6/2007	Pump	10.80	0.541	0.43	5.94	-279.2	12.8	-	-
SWRMW-5	11/17/2016	Pump	15.80	1.024	2.43	6.50	160.3	44.2	1.25	Water slight brown tint, no sheen, no odor
SWRMW-5	5/23/2017	Pump	12.10	0.655	0.00	6.37	153.1	18.1	-	-
SWRMW-5	11/15/2017	Pump	14.9	1.133	0.61	6.24	112	64	-	-
SWRMW-5	6/5/2018	Pump	13.4	1.130	1.17	6.09	158	313	-	Cloudy, Brown
SWRMW-5	5/31/2019	Pump	12.8	1.430	1.93	6.33	153	499	3.96	Cloudy, Brown
SWRMW-5	6/11/2020	Pump	18.9	1.960	0.88	6.23	169	340	2	Water was cloudy brown, no odor.
SWRMW-5	5/19/2021	Pump	11.7	0.877	0.28	6.26	124	576	1.8	Water Cloudy, Brown, no odor.
SWRMW-5	5/3/2022	Pump	9.56	0.85	0	6.72	301	137	6.75	-

GHD

Table 3: Groundwater Data Summary. Lot 1- Austin Avenue Landfill, Yonkers, NY, BCP Site #C360066

				Metals by EPA Methods 6020A and 7470A																			
				Aluminum	Aluminum (dissolved)	Antimony	Antimony (dissolved)	Arsenic	Arsenic (dissolved)	Barium	Barium (dissolved)	Beryllium	Beryllium (dissolved)	Cadmium	Cadmium (dissolved)	Calcium	Calcium (dissolved)	Chromium	Chromium (dissolved)	Cobalt	Cobalt (dissolved)	Copper	Copper (dissolved)	Iron	Iron (dissolved)
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Class GA Standards						3	3	25	25	1,000	1,000	3	3	5	5			50	50			200	200	300	300
Sample ID	**Date Sampled**	**LocCode**	**Sample Type**																						
SWRMW-1	3/14/2007	SWRMW-1		437,000	-	U	-	21 J	-	**5,900**	-	**9.7 J**	-	**29 J**	-	298,000	-	**950**	-	290	-	**990**	-	**877,000**	-
SWRMW-1	6/5/2007	SWRMW-1		870 J	130 J	U	U	U	U	500	480	U	U	U	U	302,000	312,000	2.9 J	1.5 J	U	U	3.2 J	U	**87,600**	**83,800**
SWRMW-1	5/23/2017	SWRMW-1		1,260	-	0.69 J	-	1.51	-	67.49	-	U	-	0.21	-	62,200	-	3.32	-	4.04	-	11.52	-	**2,760**	-
SWRMW-1	11/14/2017	SWRMW-1		33	-	U	-	1.11	-	304.7	-	U	-	U	-	197,000	-	1.95	-	2.15	-	0.59 J	-	**45,700**	-
SWRMW-1~Duplicate	11/15/2017	SWRMW-1	DUP	37.1	-	U	-	1.27	-	314.5	-	U	-	U	-	206,000	-	2.03	-	2.21	-	U	-	**48,200**	-
SWRMW-1	6/4/2018	SWRMW-1		13,600	-	U	-	3.85	-	410.5	-	U	-	0.88	-	204,000	-	**54.13**	-	22.25	-	96.06	-	**76,300**	-
SWRMW-1	5/30/2019	SWRMW-1		31,500	-	0.78 J	-	13.12	-	841	-	0.96	-	2.41	-	207,000	-	**318.6**	-	42.3	-	**206.4**	-	**94,000**	-
SWRMW-1	6/11/2020	SWRMW-1		9,400	-	0.57 J	-	2.8	-	388.3	-	0.2 J	-	0.47	-	158,000	-	31.81	-	10.67	-	49.98	-	**56,900**	-
SWRMW-1	5/19/2021	SWRMW-1		421	7.69 J	U	U	1.53	U	206.4	44.3	U	U	U	U	121,000	25,700	3.1	U	3.41	0.47 J	3.08	U	**25,000**	**507**
WG-12582344-050222-RR-010	5/2/2022	SWRMW-1		236	7.68 J	<4.00 U	0.45 J	0.59	<0.50 U	216.1	119.7	<0.50 U	<0.50 U	<0.20 U	<0.20 U	126,000	122,000	2.70	1.70	1.29	1.14	1.97	<1.00 U	**31,300**	**808**
SWRMW-3	3/14/2007	SWRMW-3		206,000	-	U	-	**90**	-	**1,800**	-	**5.5 J**	-	**10 J**	-	55,300	-	**620**	-	190	-	**460**	-	**353,000**	-
SWRMW-3	6/5/2007	SWRMW-3		2,400 J	<500 U	U	U	U	U	48	28	U	U	U	U	17,900	18,400	6.5 J	<10 U	4.1 J	2.5 J	6.6 J	U	**4,100**	U
SWRMW-3	5/23/2017	SWRMW-3		751	-	U	-	0.75	-	45.17	-	U	-	U	-	20,500	-	3.18	-	1.09	-	2.21	-	**2,880**	-
SWRMW-3~Duplicate	5/23/2017	SWRMW-3	DUP	806	-	0.92 J	-	0.83	-	47.07	-	U	-	U	-	20,600	-	2.9	-	1.12	-	2.04	-	**2,820**	-
SWRMW-3	11/15/2017	SWRMW-3		430	-	U	-	0.21 J	-	43.95	-	U	-	U	-	22,700	-	1.94	-	1.5	-	1.87	-	**1,080**	-
SWRMW-3	6/4/2018	SWRMW-3		154	-	U	-	U	-	44.58	-	U	-	U	-	22,200	-	1.04	-	0.87	-	1.46	-	**871**	-
SWRMW-3~Duplicate	6/4/2018	SWRMW-3	DUP	212	-	U	-	U	-	44.11	-	U	-	U	-	21,400	-	1.21	-	1.02	-	1.59	-	**890**	-
SWRMW-3	5/30/2019	SWRMW-3		405	-	U	-	0.26 J	-	37.46	-	U	-	U	-	17,900	-	1.93	-	0.83	-	1.96	-	**1,220**	-
SWRMW-3~Duplicate	5/30/2019	SWRMW-3	DUP	412	-	U	-	0.22 J	-	38.16	-	U	-	U	-	18,000	-	1.99	-	0.87	-	1.72	-	**1,190**	-
SWRMW-3	6/11/2020	SWRMW-3		81.4	-	U	-	U	-	30.04	-	U	-	U	-	16,300	-	0.55 J	-	0.61	-	0.58 J	-	**672**	-
SWRMW-3~Duplicate	6/11/2020	SWRMW-3	DUP	76.1	-	U	-	0.16 J	-	30.32	-	U	-	U	-	16,000	-	0.5 J	-	0.61	-	0.8 J	-	**416**	-
SWRMW-3	5/19/2021	SWRMW-3		1,640	12.6	0.57 J	U	0.92	U	59.39	74.84	U	U	U	U	22,100	73,000	6.21	U	1.78	0.7	4.35	2.36	**6,230**	48 J
WG-12582344-050222-RR-011	5/2/2022	SWRMW-3		93.3	7.93 J	<4.00 U	<4.00 U	<0.50 U	<0.50 U	36.78	38.09	<0.50 U	<0.50 U	<0.20 U	<0.20 U	19,400	18,400	0.66 J	0.41 J	0.67	0.62	2.95	2.20	**476**	62.3
SWRMW-4	3/14/2007	SWRMW-4		101,000	-	U	-	U	-	1,000	-	**3.3 J**	-	4.8 J	-	99,100	-	**280**	-	120	-	**460**	-	**188,000**	-
SWRMW-4	6/6/2007	SWRMW-4		5,000 J	U	U	U	U	U	90	44	U	U	U	U	77,400	79,900	13	U	11	U	28	3 J	**8,700**	57 J
SWRMW-4	11/17/2016	SWRMW-4		7,430	-	U	-	0.8	-	153.7	-	0.2 J	-	0.1 J	-	154,000	-	21.2	-	10.4	-	40.2	-	**14,400**	-
SWRMW-4~Duplicate	11/17/2016	SWRMW-4	DUP	7,160	-	U	-	0.6	-	150.4	-	0.2 J	-	0.1 J	-	148,000	-	20.1	-	9.9	-	39.5	-	**13,400**	-
SWRMW-4	5/23/2017	SWRMW-4		1,990	-	0.56 J	-	0.44 J	-	41.78	-	U	-	0.11 J	-	164,000	-	5.79	-	3.33	-	12.77	-	**3,850**	-
SWRMW-4	11/15/2017	SWRMW-4		810	-	0.46 J	-	0.29 J	-	90.7	-	U	-	U	-	160,000	-	2.75	-	1.5	-	7.54	-	**1,530**	-
SWRMW-4	6/4/2018	SWRMW-4		19,200	-	U	-	1.2	-	248.7	-	U	-	0.69	-	72,900	-	**58.14**	-	27.16	-	98.51	-	**36,800**	-
SWRMW-4	5/30/2019	SWRMW-4		5,460	-	U	-	1.49	-	91.18	-	0.18 J	-	0.26	-	174,000	-	18.33	-	7.39	-	36.42	-	**9,920**	-
SWRMW-4	6/11/2020	SWRMW-4		24,600	-	0.62 J	-	3.19	-	280.6	-	0.65	-	1.27	-	148,000	-	**70.8**	-	53.75	-	137.4	-	**50,800**	-
SWRMW-4	5/19/2021	SWRMW-4		13,400	4.13 J	U	0.82 J	1.17	0.3 J	174.3	26.19	0.3 J	U	0.23	U	152,000	148,000	36.86	0.39 J	20.2	0.22 J	59.84	3.97	**24,300**	26.8 J
SWRMW-4~Duplicate	5/19/2021	SWRMW-4	DUP	7,200	3.9 J	U	U	0.84	U	109.9	91.97	0.21 J	U	0.15 J	0.09 J	126,000	93,000	22.08	U	12.37	2.72	40.61	3.21	**14,000**	41.4 J
WG-12582344-050322-RR-013	5/3/2022	SWRMW-4		3,350	7.60 J	<4.00 U	<4.00 U	0.23 J	<0.50 U	52.51	21.77	<0.50 U	<0.50 U	0.08 J	<0.20 U	130,000	121,000	9.64	0.66 J	5.12	0.18 J	18.48	2.70	**6,120**	<50.0 U
WG-12582344-050322-RR-014	5/3/2022	SWRMW-4	DUP	3,410	5.00 J	<4.00 U	<4.00 U	0.24 J	<0.50 U	55.24	20.88	<0.50 U	<0.50 U	0.08 J	<0.20 U	129,000	120,000	10.14	0.75 J	5.27	0.18 J	18.80	2.78	**6,390**	<50.0 U
SWRMW-5	3/14/2007	SWRMW-5		211,000	-	U	-	U	-	**1,700**	-	**5.6 J**	-	**8.9 J**	-	63,100	-	**740**	-	210	-	**860**	-	**337,000**	-
SWRMW-5	6/6/2007	SWRMW-5		950 J	U	U	U	U	U	77	71	U	U	U	U	51,300	53,600	3.2 J	U	2.1 J	U	4.5 J	U	**1,400**	U
SWRMW-5	11/17/2016	SWRMW-5		1,220	-	U	-	0.2 J	-	118.5	-	U	-	U	-	108,000	-	5.2	-	1.9	-	6.5	-	**1,880**	-
SWRMW-5	5/23/2017	SWRMW-5		226	-	0.82 J	-	U	-	78.38	-	U	-	U	-	67,400	-	0.84 J	-	0.78	-	1.94	-	**360**	-
SWRMW-5	11/15/2017	SWRMW-5		2,000	-	U	-	0.39 J	-	130.1	-	U	-	U	-	106,000	-	7.97	-	2.71	-	9.24	-	**3,110**	-
SWRMW-5	6/4/2018	SWRMW-5		6,070	-	**4.12**	-	U	-	146.8	-	U	-	U	-	76,600	-	23.01	-	6.56	-	26.79	-	**10,300**	-
SWRMW-5	5/30/2019	SWRMW-5		10,000	-	U	-	2.04	-	222.2	-	0.32 J	-	0.46	-	92,200	-	**51.36**	-	12.83	-	58.31	-	**17,100**	-
SWRMW-5	6/11/2020	SWRMW-5		103,000	-	U	-	5.01	-	**1,116**	-	2.4	-	0.16 J	-	84,000	-	**362.3**	-	99.12	-	**348**	-	**181,000**	-
SWRMW-5	5/19/2021	SWRMW-5		17,900	4.26 J	U	0.49 J	0.84	0.26 J	266.6	24.92	0.47 J	U	U	U	61,800	148,000	**72.84**	0.37 J	19.42	0.22 J	77.04	2.39	**31,500**	89.5
WG-12582344-050322-RR-012	5/3/2022	SWRMW-5		991	22.3	<4.00 U	0.58 J	<0.50 U	<0.50 U	72.07	67.48	<0.50 U	<0.50 U	<0.20 U	<0.20 U	62,600	60,600	3.89	1.12	1.35	0.68	5.02	1.26	**1,640**	37.2 J

*Class GA Groundwater standards taken from Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA ambient water quality standards or guidance values, New York State Department of Environmental Conservation, June 1998 and subsequent addenda

(G) Signifies a NYSDEC guidance value where a standard has not been established.

U - The compound was not detected above the laboratory detection limit.

J - Indicates an estimated value detected between the laboratory detection limit and laboratory reporting limit.

(-) - Indicates analyte was not analyzed for

ND - Non-Detect

NS - Not Sampled during monitoring round. SWRMW-2 not part of on-going monitoring.

Bold Thick Outlined Cell indicates an exceedance of applicable NYSDEC Class GA Standard or Guidance Value

All concentrations reported in micrograms per liter (ug/L) - parts per billion (ppb)

Table 3: Groundwater Data Summary. Lot 1- Austin Avenue Landfill, Yonkers, NY, BCP Site #C360066

				Metals by EPA Methods 6020A and 7470A																					
				Lead	Lead (dissolved)	Magnesium	Magnesium (dissolved)	Manganese	Manganese (dissolved)	Mercury	Mercury (dissolved)	Nickel	Nickel (dissolved)	Potassium	Potassium (dissolved)	Selenium	Selenium (dissolved)	Silver	Silver (dissolved)	Sodium	Sodium (dissolved)	Thallium	Thallium (dissolved)	Vanadium	Vanadium (dissolved)	Zinc	Zinc (dissolved)
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Class GA Standards				25	25	35,000	35,000	300	300	0.7	0.7	100	100			10	10	50	50	20,000	20,000	0.5	0.5			2,000	2,000
Sample ID	Date Sampled	LocCode	Sample Type																						
SWRMW-1	3/14/2007	SWRMW-1		**820 J**	-	**258,000**	-	**10,900**	-	0.6 J	-	**590**	-	403,000	-	U	-	U	-	**153,000**	-	U	-	1,200	-	**2,500**	-
SWRMW-1	6/5/2007	SWRMW-1		U	U	**112,000**	**114,000**	**4,900**	**5,000**	U	U	2.9 J	2.8 J	153,000	152,000	U	U	U	U	**148,000**	**148,000**	U	U	2.8 J	0.94 J	U	U
SWRMW-1	5/23/2017	SWRMW-1		5.21	-	9,370	-	**1,974**	-	U	-	10.94	-	11,300	-	U	-	U	-	6,550	-	U	-	3.82 J	-	20.74	-
SWRMW-1	11/14/2017	SWRMW-1		U	-	**40,300**	-	**3,132**	-	0.1 J	-	2.17	-	46,100	-	U	-	U	-	**116,000**	-	U	-	1.69 J	-	U	-
SWRMW-1~Duplicate	11/15/2017	SWRMW-1	DUP	U	-	**41,600**	-	**3,271**	-	U	-	1.97 J	-	48,100	-	U	-	U	-	**120,000**	-	U	-	1.58 J	-	U	-
SWRMW-1	6/4/2018	SWRMW-1		**33.38**	-	**41,400**	-	**8,459**	-	U	-	56.1	-	40,800	-	U	-	1.61	-	**62,500**	-	U	-	42.73	-	169.6	-
SWRMW-1	5/30/2019	SWRMW-1		**120.6**	-	**54,800**	-	**6,987**	-	U	-	**316.2**	-	65,200	-	8.69	-	3.2	-	**109,000**	-	**0.95**	-	106.5	-	425.5	-
SWRMW-1	6/11/2020	SWRMW-1		20.38	-	**47,200**	-	**3,087**	-	U	-	30.54	-	62,600	-	2.42 J	-	0.43	-	**156,000**	-	0.38 J	-	30.78	-	131.3	-
SWRMW-1	5/19/2021	SWRMW-1		1.37	U	34,400	8,800	**2,644**	9.84	U	U	5.28	3.59	51,000	5,730	U	U	U	U	**138,000**	12,600	U	U	U	U	32.31	5.34 J
WG-12582344-050222-RR-010	5/2/2022	SWRMW-1		0.85 J	<1.00 U	33,500	**35,800**	**2,487**	**2,669**	<0.20 U	<0.20 U	2.59	1.97 J	54,500	56,400	<5.00 U	<5.00 U	<0.40 U	<0.40 U	**138,000**	**148,000**	<1.00 U	<1.00 U	1.98 J	<5.00 U	7.42 J	<10.00 U
SWRMW-3	3/14/2007	SWRMW-3		**460 J**	-	**107,000**	-	**3,500**	-	0.24 J	-	**560**	-	78,700	-	U	-	U	-	**24,600**	-	U	-	500	-	990	-
SWRMW-3	6/5/2007	SWRMW-3		6.9 J	U	7,000	6,100	170	**400**	U	U	7 J	U	4,500	4,100	U	U	U	U	8,800	8,500	U	U	5.3	U	11 J	U
SWRMW-3	5/23/2017	SWRMW-3		4.04	-	7,290	-	20.32	-	U	-	4.26	-	6,140	-	U	-	U	-	18,100	-	U	-	2.55 J	-	U	-
SWRMW-3~Duplicate	5/23/2017	SWRMW-3	DUP	3.94	-	7,340	-	20.19	-	U	-	3.95	-	6,100	-	U	-	U	-	17,900	-	U	-	2.64 J	-	3.67 J	-
SWRMW-3	11/15/2017	SWRMW-3		1.04	-	7,910	-	32.39	-	U	-	4.02	-	6,030	-	U	-	U	-	17,200	-	U	-	U	-	4.99 J	-
SWRMW-3	6/4/2018	SWRMW-3		U	-	7,950	-	21.97	-	U	-	2.58	-	5,740	-	U	-	U	-	17,100	-	U	-	U	-	U	-
SWRMW-3~Duplicate	6/4/2018	SWRMW-3	DUP	U	-	7,560	-	22.82	-	U	-	2.86	-	5,490	-	U	-	U	-	16,600	-	U	-	U	-	U	-
SWRMW-3	5/30/2019	SWRMW-3		1.33	-	6,450	-	12.68	-	U	-	3.78	-	5,430	-	U	-	0.66	-	13,500	-	U	-	U	-	5.44 J	-
SWRMW-3~Duplicate	5/30/2019	SWRMW-3	DUP	1.31	-	6,500	-	12.93	-	U	-	3.39	-	5,480	-	U	-	0.73	-	13,400	-	U	-	U	-	6.32 J	-
SWRMW-3	6/11/2020	SWRMW-3		U	-	5,730	-	10.12	-	U	-	2.74	-	4,710	-	U	-	U	-	12,200	-	U	-	U	-	U	-
SWRMW-3~Duplicate	6/11/2020	SWRMW-3	DUP	U	-	5,680	-	9.91	-	U	-	2.84	-	4,720	-	U	-	U	-	12,200	-	U	-	U	-	U	-
SWRMW-3	5/19/2021	SWRMW-3		4.39	U	8,720	26,900	21.09	7.23	U	U	10.92	1.01 J	6,070	20,300	U	U	**51.71**	U	11,700	**64,500**	U	U	4.3 J	U	23.86	8.7 J
WG-12582344-050222-RR-011	5/2/2022	SWRMW-3		0.38 J	<1.00 U	6,550	6,690	13.32	12.36	<0.20 U	<0.20 U	3.74	4.22	5,110	5,030	<5.00 U	<5.00 U	<0.40 U	<0.40 U	13,300	14,100	<1.00 U	<1.00 U	<5.00 U	<5.00 U	6.21 J	6.22 J
SWRMW-4	3/14/2007	SWRMW-4		**62 J**	-	**81,000**	-	**2,400**	-	<0 JU	-	**250**	-	51,300	-	U	-	U	-	**P**	-	U	-	280	-	360	-
SWRMW-4	6/6/2007	SWRMW-4		4.4 J	U	**36,400**	34,800	**350**	19	U	U	14	3.2 J	19,000	19,200	U	U	U	U	**41,100**	**45,700**	U	U	13	U	19 J	U
SWRMW-4	11/17/2016	SWRMW-4		4.5	-	**49,900**	-	**352.6**	-	U	-	24.4	-	13,000	-	U	-	U	-	**74,200**	-	U	-	22.2	-	50	-
SWRMW-4~Duplicate	11/17/2016	SWRMW-4	DUP	4.4	-	**48,700**	-	**341.8**	-	U	-	24.7	-	12,700	-	U	-	U	-	**73,300**	-	0.2 J	-	20.3	-	47.3	-
SWRMW-4	5/23/2017	SWRMW-4		1.21	-	**58,700**	-	264.7	-	U	-	14.59	-	18,800	-	U	-	U	-	**35,900**	-	U	-	6.04	-	9.57 J	-
SWRMW-4	11/15/2017	SWRMW-4		0.58 J	-	**58,400**	-	90.25	-	U	-	6.7	-	19,400	-	U	-	U	-	**49,800**	-	U	-	2.71 J	-	3.95 J	-
SWRMW-4	6/4/2018	SWRMW-4		12.69	-	**36,200**	-	**1,146**	-	U	-	62.8	-	20,800	-	U	-	U	-	**46,800**	-	U	-	55.08	-	104.3	-
SWRMW-4	5/30/2019	SWRMW-4		6.55	-	**72,400**	-	**356.7**	-	U	-	24.85	-	21,200	-	7.31	-	U	-	**45,200**	-	U	-	16.81	-	42.8	-
SWRMW-4	6/11/2020	SWRMW-4		15.65	-	**71,400**	-	**5,633**	-	U	-	**141.1**	-	28,200	-	8.55	-	U	-	**38,500**	-	**0.51**	-	72.2	-	170.8	-
SWRMW-4	5/19/2021	SWRMW-4		7.84	U	**64,300**	**50,600**	**1,115**	22.67	U	U	47.75	5.08	21,400	16,900	3.55 J	2.35 J	U	U	**39,200**	**34,800**	0.42 J	U	37.89	U	48.6	3.52 J
SWRMW-4~Duplicate	5/19/2021	SWRMW-4	DUP	5.11	U	**55,700**	19,000	**552**	**958.2**	U	U	30.98	2.98	18,500	6,410	2.3 J	7.34	U	U	**33,600**	**92,700**	0.22 J	U	21.57	U	31.87	4.63 J
WG-12582344-050322-RR-013	5/3/2022	SWRMW-4		2.14	<1.00 U	**50,200**	**47,900**	289.0	16.56	<0.20 U	<0.20 U	15.37	4.44	16,800	15,100	2.36 J	2.27 J	<0.40 U	<0.40 U	**54,100**	**52,900**	0.15 J	<1.00 U	9.70	<5.00 U	14.06	<10.00 U
WG-12582344-050322-RR-014	5/3/2022	SWRMW-4	DUP	2.27	<1.00 U	**49,400**	**48,000**	**300.8**	16.76	<0.20 U	<0.20 U	15.82	4.37	16,700	14,700	2.45 J	2.59 J	<0.40 U	<0.40 U	**52,600**	**50,400**	0.14 J	<1.00 U	10.32	<5.00 U	14.28	<10.00 U
SWRMW-5	3/14/2007	SWRMW-5		**64 J**	-	**138,000**	-	**5,800**	-	<0 JU	-	**540**	-	88,000	-	U	-	U	-	**63,400**	-	U	-	520	-	490	-
SWRMW-5	6/6/2007	SWRMW-5		U	U	24,700	24,900	180	180	U	U	3.4 J	U	18,100	18,000	U	U	U	U	**53,000**	**54,000**	U	U	1.7 J	U	U	U
SWRMW-5	11/17/2016	SWRMW-5		0.5 J	-	**40,700**	-	39	-	U	-	4.4	-	30,200	-	U	-	U	-	**62,800**	-	U	-	3 J	-	6 J	-
SWRMW-5	5/23/2017	SWRMW-5		U	-	28,200	-	12.76	-	U	-	1.35 J	-	20,300	-	U	-	U	-	**58,800**	-	U	-	U	-	U	-
SWRMW-5	11/15/2017	SWRMW-5		0.85 J	-	**41,800**	-	59.2	-	U	-	6.27	-	29,800	-	U	-	U	-	**59,300**	-	U	-	5.22	-	6.63 J	-
SWRMW-5	6/4/2018	SWRMW-5		2.7	-	**35,400**	-	160.2	-	U	-	15.26	-	22,700	-	U	-	U	-	**57,000**	-	U	-	14.87	-	16.08	-
SWRMW-5	5/30/2019	SWRMW-5		**36.52**	-	31,800	-	**549.2**	-	U	-	47.36	-	25,500	-	2.02 J	-	U	-	**38,100**	-	0.22 J	-	30.15	-	15.71	-
SWRMW-5	6/11/2020	SWRMW-5		**43.22**	-	**94,700**	-	**2,735**	-	0.27	-	**255.4**	-	68,300	-	**12.2**	-	1.16	-	**55,000**	-	**1.87**	-	221.5	-	324.5	-
SWRMW-5	5/19/2021	SWRMW-5		8.67	U	**38,300**	**53,400**	**413.8**	16.51	U	U	50.68	5.37	25,400	17,300	U	2.04 J	0.31 J	U	**59,000**	**36,800**	0.48 J	U	48.23	U	60.84	U
WG-12582344-050322-RR-012	5/3/2022	SWRMW-5		0.51 J	<1.00 U	25,000	26,100	29.25	6.39	<0.20 U	<0.40 U	3.33	1.45 J	18,600	18,400	<5.00 U	<5.00 U	<0.40 U	<0.40 U	**58,100**	**62,100**	0.37 J	0.39 J	2.59 J	<5.00 U	3.92 J	<10.00 U

*Class GA Groundwater standards taken from Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA ambient water quality standards or guidance values, New York State Department of Environmental Conservation, June 1998 and subsequent addenda

(G) Signifies a NYSDEC guidance value where a standard has not been established.

U - The compound was not detected above the laboratory detection limit.

J - Indicates an estimated value detected between the laboratory detection limit and laboratory reporting limit.

(-) - Indicates analyte was not analyzed for

ND - Non-Detect

NS - Not Sampled during monitoring round. SWRMW-2 not part of on-going monitoring.

Bold Thick Outlined Cell indicates an exceedance of applicable NYSDEC Class GA Standard or Guidance Value

All concentrations reported in micrograms per liter (ug/L) - parts per billion (ppb)

Attachments

Attachment 1

Groundwater Field Sampling Logs

Groundwater Field Sampling Log

Site Name: Lot 1- Austin Avenue Landfill **Date:** 5/2/2022 **Project #:** 12582344

Sampler(s): Rob. R **Sample ID:** SWRMW-1 **Sample Time:** 10:05

Well Information:

Depth of Well (Top of PVC):	42.9	ft
Initial Static Water Level (Top of PVC):	37.11	ft
Depth to LNAPL/DNAPL (Top of PVC):		
LNAPL/DNAPL Thickness (inches):		

Well Volume Calculation:

1 in. Casing:		ft. of water x .04 =		gallons
2 in. Casing:	5.79	ft. of water x .16 =	0.93	gallons
3 in. Casing:		ft. of water x .36 =		gallons
4 in. Casing:		ft. of water x .64 =		gallons

Evacuation Method:

Submersible:		Centrifugal:	
Airlift:	X	Pos. Displ.:	
Bailer:		Ded. Pump:	

Volume of Water Removed: 6.5 Liters

Dry: yes no

Field Tests:

		Units:		Units:
Temperature:	10.44	°C	pH: 7.25	units
Salinity:		%	ORP: 25	mV
Spec. Cond.:	1.8	mS/cm	Turbidity: 18.9	NTU
Diss. Oxygen:	0.65	mg/L	PID:	ppm

Sampling Method:

Stainless Bailer:		
Teflon Bailer:		
Pos. Disp. Pump:		
Dis. Bailer:		
Ded. Pump:		
Other:	X	Bladder Pump

Analysis: TAL Metals
Diss. Metals

Observations:

Weather: Cloudy and Rain

Physical Appearance and Odor of Sample:

Additional Comments:

Groundwater Field Sampling Log

Site Name: Lot 1 - Austin Avenue Landfill **Date:** 5/2/2022 **Project #:** 12582344

Sampler(s): Rob. R **Sample ID:** SWRMW-3 **Sample Time:** 12:20

Well Information:

Depth of Well (Top of PVC):	35.7	ft
Initial Static Water Level (Top of PVC):	26	ft
Depth to LNAPL/DNAPL (Top of PVC):		
LNAPL/DNAPL Thickness (inches):		

Well Volume Calculation:

1 in. Casing:		ft. of water x .04 =		gallons
2 in. Casing:	9.7	ft. of water x .16 =	1.55	gallons
3 in. Casing:		ft. of water x .36 =		gallons
4 in. Casing:		ft. of water x .64 =		gallons

Evacuation Method:

Submersible:		Centrifugal:	
Airlift:	X	Pos. Displ.:	
Bailer:		Ded. Pump:	

Volume of Water Removed: 4.5 Liters

Dry: yes no

Field Tests:

		Units:		Units:
Temperature:	11.13	°C	pH: 5.78	units
Salinity:		%	ORP: 315	mV
Spec. Cond.:	0.264	mS/cm	Turbidity: 12.0	NTU
Diss. Oxygen:	3.13	mg/L	PID:	ppm

Sampling Method:

Stainless Bailer:		
Teflon Bailer:		
Pos. Disp. Pump:		
Dis. Bailer:		
Ded. Pump:		
Other:	X	Bladder Pump

Analysis: TAL Metals; Diss. Metals

Observations:

Weather: Cloudy and Rain

Physical Appearance and Odor of Sample:

Additional Comments:

Groundwater Field Sampling Log

Site Name: Lot 1 - Austin Avenue Landfill **Date:** 5/3/2022 **Project #:** 12582344

Sampler(s): Rob. R **Sample ID:** SWRMW-4 **Sample Time:** 10:55

Well Information:

Depth of Well (Top of PVC):	18.32	ft
Initial Static Water Level (Top of PVC):	6.32	ft
Depth to LNAPL/DNAPL (Top of PVC):		
LNAPL/DNAPL Thickness (inches):		

Well Volume Calculation:

1 in. Casing:		ft. of water x .04 =		gallons
2 in. Casing:	12	ft. of water x .16 =	1.92	gallons
3 in. Casing:		ft. of water x .36 =		gallons
4 in. Casing:		ft. of water x .64 =		gallons

Evacuation Method:

Submersible:		Centrifugal:	
Airlift:	X	Pos. Displ.:	
Bailer:		Ded. Pump:	

Volume of Water Removed: 9.75 Liters

Dry: yes no

Field Tests:

		Units:		Units:
Temperature:	9.85	°C	pH: 6.8	units
Salinity:		%	ORP: 299.0	mV
Spec. Cond.:	0.93	mS/cm	Turbidity: 143.0	NTU
Diss. Oxygen:	0.93	mg/L	PID:	ppm

Sampling Method:

		Analysis: TAL Metals
Stainless Bailer:		Diss. Metals
Teflon Bailer:		
Pos. Disp. Pump:		
Dis. Bailer:		
Ded. Pump:		
Other:	X Bladder Pump	

Observations:

Weather: Cloudy and Cool

Physical Appearance and Odor of Sample:

Additional Comments: Collected blind field duplicate sample from this location at 11:00

Collected MS/MSD sample from this location

Groundwater Field Sampling Log

Site Name: Lot 1 - Austin Avenue Landfill **Date:** 5/3/2022 **Project #:** 12582344

Sampler(s): Rob. R **Sample ID:** SWRMW-5 **Sample Time:** 8:50

Well Information:

Depth of Well (Top of PVC):	22.97	ft
Initial Static Water Level (Top of PVC):	8.5	ft
Depth to LNAPL/DNAPL (Top of PVC):		
LNAPL/DNAPL Thickness (inches):		

Well Volume Calculation:

1 in. Casing:		ft. of water x .04 =		gallons
2 in. Casing:	14.47	ft. of water x .16 =	2.32	gallons
3 in. Casing:		ft. of water x .36 =		gallons
4 in. Casing:		ft. of water x .64 =		gallons

Evacuation Method:

Submersible:		Centrifugal:	
Airlift:	X	Pos. Displ.:	
Bailer:		Ded. Pump:	

Volume of Water Removed: 6.75 Liters

Dry: yes no

Field Tests:

		Units:		Units:
Temperature:	9.56	°C	pH: 6.72	units
Salinity:		%	ORP: 301.0	mV
Spec. Cond.:	0.85	mS/cm	Turbidity: 137.0	NTU
Diss. Oxygen:	0	mg/L	PID:	ppm

Sampling Method:

Stainless Bailer:		
Teflon Bailer:		
Pos. Disp. Pump:		
Dis. Bailer:		
Ded. Pump:		
Other:	X	Bladder Pump

Analysis: TAL Metals; Diss. Metals

Observations:

Weather: Cloudy and Cool

Physical Appearance and Odor of Sample:

Additional Comments:

Attachment 2

Laboratory Analytical Report

ANALYTICAL REPORT

Lab Number:	L2222978
Client:	GHD, Inc. 5788 Widewaters Pkwy Syracuse, NY 13214
ATTN:	Ian McNamara
Phone:	(315) 802-0312
Project Name:	MORRIS LOT 4 FORMER AUSTIN AVE
Project Number:	12582344
Report Date:	05/25/22

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE
Project Number: 12582344

Lab Number: L2222978
Report Date: 05/25/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2222978-01	WG-12582344-050222-RR-010	WATER	STEW LEONARD DRIVE YONKERS NY	05/02/22 10:05	05/03/22
L2222978-02	WG-12582344-050222-RR-011	WATER	STEW LEONARD DRIVE YONKERS NY	05/02/22 12:20	05/03/22
L2222978-03	WG-12582344-050322-RR-012	WATER	STEW LEONARD DRIVE YONKERS NY	05/03/22 08:50	05/03/22
L2222978-04	WG-12582344-050322-RR-013	WATER	STEW LEONARD DRIVE YONKERS NY	05/03/22 10:55	05/03/22
L2222978-05	WG-12582344-050322-RR-014	WATER	STEW LEONARD DRIVE YONKERS NY	05/03/22 11:00	05/03/22

Project Name:	MORRIS LOT 4 FORMER AUSTIN AVE	**Lab Number:**	L2222978
Project Number:	12582344	**Report Date:**	05/25/22

Case Narrative

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

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

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

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	MORRIS LOT 4 FORMER AUSTIN AVE	**Lab Number:**	L2222978
Project Number:	12582344	**Report Date:**	05/25/22

Case Narrative (continued)

Report Submission

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

Total Metals

The WG1641831-3 MS recovery for sodium (48%), performed on L2222978-03, does not apply because the sample concentration is greater than four times the spike amount added.

Dissolved Metals

L2222978-03: The sample has an elevated detection limit for mercury due to the prep dilution required by the limited sample volume available for analysis.

The WG1642241-1 Method Blank, associated with L2222978-01 through -05, has a concentration above the reporting limit for sodium. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

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

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 05/25/22

METALS

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE **Lab Number:** L2222978

Project Number: 12582344 **Report Date:** 05/25/22

SAMPLE RESULTS

Lab ID: L2222978-01 Date Collected: 05/02/22 10:05

Client ID: WG-12582344-050222-RR-010 Date Received: 05/03/22

Sample Location: STEW LEONARD DRIVE YONKERS NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.236		mg/l	0.0100	0.00327	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Arsenic, Total	0.00059		mg/l	0.00050	0.00016	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Barium, Total	0.2161		mg/l	0.00050	0.00017	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/23/22 19:40	05/24/22 16:55	EPA 3005A	1,6020B	WP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Calcium, Total	126.		mg/l	0.100	0.0394	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Chromium, Total	0.00270		mg/l	0.00100	0.00017	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00129		mg/l	0.00050	0.00016	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Copper, Total	0.00197		mg/l	0.00100	0.00038	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Iron, Total	31.3		mg/l	0.0500	0.0191	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Lead, Total	0.00085	J	mg/l	0.00100	0.00034	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Magnesium, Total	33.5		mg/l	0.0700	0.0242	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Manganese, Total	2.487		mg/l	0.00100	0.00044	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/23/22 22:24	05/24/22 12:00	EPA 7470A	1,7470A	DMB
Nickel, Total	0.00259		mg/l	0.00200	0.00055	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Potassium, Total	54.5		mg/l	0.100	0.0309	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Sodium, Total	138.		mg/l	0.100	0.0293	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Vanadium, Total	0.00198	J	mg/l	0.00500	0.00157	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Zinc, Total	0.00742	J	mg/l	0.01000	0.00341	1	05/23/22 19:40	05/24/22 10:57	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00768	J	mg/l	0.0100	0.00327	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Antimony, Dissolved	0.00045	J	mg/l	0.00400	0.00042	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.1197		mg/l	0.00050	0.00017	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE **Lab Number:** L2222978

Project Number: 12582344 **Report Date:** 05/25/22

SAMPLE RESULTS

Lab ID: L2222978-01 Date Collected: 05/02/22 10:05

Client ID: WG-12582344-050222-RR-010 Date Received: 05/03/22

Sample Location: STEW LEONARD DRIVE YONKERS NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Calcium, Dissolved	122.		mg/l	0.100	0.0394	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Chromium, Dissolved	0.00170		mg/l	0.00100	0.00017	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	0.00114		mg/l	0.00050	0.00016	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Iron, Dissolved	0.808		mg/l	0.0500	0.0191	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	35.8		mg/l	0.0700	0.0242	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Manganese, Dissolved	2.669		mg/l	0.00100	0.00044	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/24/22 13:24	05/25/22 09:39	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00197	J	mg/l	0.00200	0.00055	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Potassium, Dissolved	56.4		mg/l	0.100	0.0309	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Sodium, Dissolved	148.		mg/l	0.100	0.0293	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/24/22 12:30	05/24/22 18:53	EPA 3005A	1,6020B	WP

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE **Lab Number:** L2222978

Project Number: 12582344 **Report Date:** 05/25/22

SAMPLE RESULTS

Lab ID: L2222978-02 Date Collected: 05/02/22 12:20

Client ID: WG-12582344-050222-RR-011 Date Received: 05/03/22

Sample Location: STEW LEONARD DRIVE YONKERS NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0933		mg/l	0.0100	0.00327	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Barium, Total	0.03678		mg/l	0.00050	0.00017	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/23/22 19:40	05/24/22 17:00	EPA 3005A	1,6020B	WP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Calcium, Total	19.4		mg/l	0.100	0.0394	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Chromium, Total	0.00066	J	mg/l	0.00100	0.00017	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00067		mg/l	0.00050	0.00016	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Copper, Total	0.00295		mg/l	0.00100	0.00038	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Iron, Total	0.476		mg/l	0.0500	0.0191	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Lead, Total	0.00038	J	mg/l	0.00100	0.00034	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Magnesium, Total	6.55		mg/l	0.0700	0.0242	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Manganese, Total	0.01332		mg/l	0.00100	0.00044	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/23/22 22:24	05/24/22 12:03	EPA 7470A	1,7470A	DMB
Nickel, Total	0.00374		mg/l	0.00200	0.00055	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Potassium, Total	5.11		mg/l	0.100	0.0309	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Sodium, Total	13.3		mg/l	0.100	0.0293	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Zinc, Total	0.00621	J	mg/l	0.01000	0.00341	1	05/23/22 19:40	05/24/22 11:02	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00793	J	mg/l	0.0100	0.00327	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.03809		mg/l	0.00050	0.00017	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE **Lab Number:** L2222978

Project Number: 12582344 **Report Date:** 05/25/22

SAMPLE RESULTS

Lab ID: L2222978-02 Date Collected: 05/02/22 12:20

Client ID: WG-12582344-050222-RR-011 Date Received: 05/03/22

Sample Location: STEW LEONARD DRIVE YONKERS NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Calcium, Dissolved	18.4		mg/l	0.100	0.0394	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Chromium, Dissolved	0.00041	J	mg/l	0.00100	0.00017	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	0.00062		mg/l	0.00050	0.00016	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Copper, Dissolved	0.00220		mg/l	0.00100	0.00038	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Iron, Dissolved	0.0623		mg/l	0.0500	0.0191	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	6.69		mg/l	0.0700	0.0242	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Manganese, Dissolved	0.01236		mg/l	0.00100	0.00044	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/24/22 13:24	05/25/22 09:42	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00422		mg/l	0.00200	0.00055	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Potassium, Dissolved	5.03		mg/l	0.100	0.0309	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Sodium, Dissolved	14.1		mg/l	0.100	0.0293	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP
Zinc, Dissolved	0.00622	J	mg/l	0.01000	0.00341	1	05/24/22 12:30	05/24/22 18:58	EPA 3005A	1,6020B	WP

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE **Lab Number:** L2222978

Project Number: 12582344 **Report Date:** 05/25/22

SAMPLE RESULTS

Lab ID: L2222978-03 Date Collected: 05/03/22 08:50

Client ID: WG-12582344-050322-RR-012 Date Received: 05/03/22

Sample Location: STEW LEONARD DRIVE YONKERS NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.991		mg/l	0.0100	0.00327	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Barium, Total	0.07207		mg/l	0.00050	0.00017	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/23/22 19:40	05/24/22 16:50	EPA 3005A	1,6020B	WP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Calcium, Total	62.6		mg/l	0.100	0.0394	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Chromium, Total	0.00389		mg/l	0.00100	0.00017	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00135		mg/l	0.00050	0.00016	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Copper, Total	0.00502		mg/l	0.00100	0.00038	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Iron, Total	1.64		mg/l	0.0500	0.0191	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Lead, Total	0.00051	J	mg/l	0.00100	0.00034	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Magnesium, Total	25.0		mg/l	0.0700	0.0242	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Manganese, Total	0.02925		mg/l	0.00100	0.00044	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/23/22 22:24	05/24/22 11:46	EPA 7470A	1,7470A	DMB
Nickel, Total	0.00333		mg/l	0.00200	0.00055	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Potassium, Total	18.6		mg/l	0.100	0.0309	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Sodium, Total	58.1		mg/l	0.100	0.0293	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Thallium, Total	0.00037	J	mg/l	0.00100	0.00014	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Vanadium, Total	0.00259	J	mg/l	0.00500	0.00157	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Zinc, Total	0.00392	J	mg/l	0.01000	0.00341	1	05/23/22 19:40	05/24/22 10:04	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0223		mg/l	0.0100	0.00327	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Antimony, Dissolved	0.00058	J	mg/l	0.00400	0.00042	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.06748		mg/l	0.00050	0.00017	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE **Lab Number:** L2222978

Project Number: 12582344 **Report Date:** 05/25/22

SAMPLE RESULTS

Lab ID: L2222978-03 Date Collected: 05/03/22 08:50

Client ID: WG-12582344-050322-RR-012 Date Received: 05/03/22

Sample Location: STEW LEONARD DRIVE YONKERS NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Calcium, Dissolved	60.6		mg/l	0.100	0.0394	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Chromium, Dissolved	0.00112		mg/l	0.00100	0.00017	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	0.00068		mg/l	0.00050	0.00016	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Copper, Dissolved	0.00126		mg/l	0.00100	0.00038	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Iron, Dissolved	0.0372	J	mg/l	0.0500	0.0191	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	26.1		mg/l	0.0700	0.0242	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Manganese, Dissolved	0.00639		mg/l	0.00100	0.00044	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00040	0.00018	1	05/24/22 13:24	05/25/22 09:29	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00145	J	mg/l	0.00200	0.00055	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Potassium, Dissolved	18.4		mg/l	0.100	0.0309	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Sodium, Dissolved	62.1		mg/l	0.100	0.0293	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Thallium, Dissolved	0.00039	J	mg/l	0.00100	0.00014	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/24/22 12:30	05/24/22 17:51	EPA 3005A	1,6020B	WP

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE **Lab Number:** L2222978

Project Number: 12582344 **Report Date:** 05/25/22

SAMPLE RESULTS

Lab ID: L2222978-04 Date Collected: 05/03/22 10:55

Client ID: WG-12582344-050322-RR-013 Date Received: 05/03/22

Sample Location: STEW LEONARD DRIVE YONKERS NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3.35		mg/l	0.0100	0.00327	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Arsenic, Total	0.00023	J	mg/l	0.00050	0.00016	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Barium, Total	0.05251		mg/l	0.00050	0.00017	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/23/22 19:40	05/24/22 17:05	EPA 3005A	1,6020B	WP
Cadmium, Total	0.00008	J	mg/l	0.00020	0.00005	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Calcium, Total	130.		mg/l	0.100	0.0394	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Chromium, Total	0.00964		mg/l	0.00100	0.00017	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00512		mg/l	0.00050	0.00016	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Copper, Total	0.01848		mg/l	0.00100	0.00038	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Iron, Total	6.12		mg/l	0.0500	0.0191	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Lead, Total	0.00214		mg/l	0.00100	0.00034	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Magnesium, Total	50.2		mg/l	0.0700	0.0242	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Manganese, Total	0.2890		mg/l	0.00100	0.00044	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/23/22 22:24	05/24/22 12:06	EPA 7470A	1,7470A	DMB
Nickel, Total	0.01537		mg/l	0.00200	0.00055	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Potassium, Total	16.8		mg/l	0.100	0.0309	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Selenium, Total	0.00236	J	mg/l	0.00500	0.00173	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Sodium, Total	54.1		mg/l	0.100	0.0293	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Thallium, Total	0.00015	J	mg/l	0.00100	0.00014	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Vanadium, Total	0.00970		mg/l	0.00500	0.00157	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Zinc, Total	0.01406		mg/l	0.01000	0.00341	1	05/23/22 19:40	05/24/22 11:07	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00760	J	mg/l	0.0100	0.00327	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.02177		mg/l	0.00050	0.00017	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE **Lab Number:** L2222978

Project Number: 12582344 **Report Date:** 05/25/22

SAMPLE RESULTS

Lab ID: L2222978-04 Date Collected: 05/03/22 10:55

Client ID: WG-12582344-050322-RR-013 Date Received: 05/03/22

Sample Location: STEW LEONARD DRIVE YONKERS NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Calcium, Dissolved	121.		mg/l	0.100	0.0394	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Chromium, Dissolved	0.00066	J	mg/l	0.00100	0.00017	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	0.00018	J	mg/l	0.00050	0.00016	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Copper, Dissolved	0.00270		mg/l	0.00100	0.00038	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	47.9		mg/l	0.0700	0.0242	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Manganese, Dissolved	0.01656		mg/l	0.00100	0.00044	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/24/22 13:24	05/25/22 10:58	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00444		mg/l	0.00200	0.00055	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Potassium, Dissolved	15.1		mg/l	0.100	0.0309	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Selenium, Dissolved	0.00227	J	mg/l	0.00500	0.00173	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Sodium, Dissolved	52.9		mg/l	0.100	0.0293	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/24/22 12:30	05/24/22 19:03	EPA 3005A	1,6020B	WP

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE **Lab Number:** L2222978

Project Number: 12582344 **Report Date:** 05/25/22

SAMPLE RESULTS

Lab ID: L2222978-05 Date Collected: 05/03/22 11:00

Client ID: WG-12582344-050322-RR-014 Date Received: 05/03/22

Sample Location: STEW LEONARD DRIVE YONKERS NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3.41		mg/l	0.0100	0.00327	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Arsenic, Total	0.00024	J	mg/l	0.00050	0.00016	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Barium, Total	0.05524		mg/l	0.00050	0.00017	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/23/22 19:40	05/24/22 17:09	EPA 3005A	1,6020B	WP
Cadmium, Total	0.00008	J	mg/l	0.00020	0.00005	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Calcium, Total	129.		mg/l	0.100	0.0394	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Chromium, Total	0.01014		mg/l	0.00100	0.00017	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Cobalt, Total	0.00527		mg/l	0.00050	0.00016	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Copper, Total	0.01880		mg/l	0.00100	0.00038	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Iron, Total	6.39		mg/l	0.0500	0.0191	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Lead, Total	0.00227		mg/l	0.00100	0.00034	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Magnesium, Total	49.4		mg/l	0.0700	0.0242	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Manganese, Total	0.3008		mg/l	0.00100	0.00044	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/23/22 22:24	05/24/22 12:16	EPA 7470A	1,7470A	DMB
Nickel, Total	0.01582		mg/l	0.00200	0.00055	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Potassium, Total	16.7		mg/l	0.100	0.0309	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Selenium, Total	0.00245	J	mg/l	0.00500	0.00173	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Sodium, Total	52.6		mg/l	0.100	0.0293	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Thallium, Total	0.00014	J	mg/l	0.00100	0.00014	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Vanadium, Total	0.01032		mg/l	0.00500	0.00157	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Zinc, Total	0.01428		mg/l	0.01000	0.00341	1	05/23/22 19:40	05/24/22 11:12	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00500	J	mg/l	0.0100	0.00327	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.02088		mg/l	0.00050	0.00017	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE **Lab Number:** L2222978

Project Number: 12582344 **Report Date:** 05/25/22

SAMPLE RESULTS

Lab ID: L2222978-05 Date Collected: 05/03/22 11:00

Client ID: WG-12582344-050322-RR-014 Date Received: 05/03/22

Sample Location: STEW LEONARD DRIVE YONKERS NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Calcium, Dissolved	120.		mg/l	0.100	0.0394	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Chromium, Dissolved	0.00075	J	mg/l	0.00100	0.00017	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	0.00018	J	mg/l	0.00050	0.00016	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Copper, Dissolved	0.00278		mg/l	0.00100	0.00038	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	48.0		mg/l	0.0700	0.0242	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Manganese, Dissolved	0.01676		mg/l	0.00100	0.00044	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/24/22 13:24	05/25/22 09:50	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00437		mg/l	0.00200	0.00055	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Potassium, Dissolved	14.7		mg/l	0.100	0.0309	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Selenium, Dissolved	0.00259	J	mg/l	0.00500	0.00173	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Sodium, Dissolved	50.4		mg/l	0.100	0.0293	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/24/22 12:30	05/24/22 19:08	EPA 3005A	1,6020B	WP

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE **Lab Number:** L2222978

Project Number: 12582344 **Report Date:** 05/25/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1641831-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Barium, Total	ND		mg/l	0.00050	0.00017	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/23/22 19:40	05/24/22 15:51	1,6020B	WP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Calcium, Total	ND		mg/l	0.100	0.0394	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Copper, Total	ND		mg/l	0.00100	0.00038	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Iron, Total	ND		mg/l	0.0500	0.0191	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Nickel, Total	ND		mg/l	0.00200	0.00055	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Potassium, Total	ND		mg/l	0.100	0.0309	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Sodium, Total	ND		mg/l	0.100	0.0293	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Thallium, Total	0.00026	J	mg/l	0.00100	0.00014	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	05/23/22 19:40	05/24/22 09:27	1,6020B	SV

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1641833-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/23/22 22:24	05/24/22 11:40	1,7470A	DMB

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE **Lab Number:** L2222978

Project Number: 12582344 **Report Date:** 05/25/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1642241-1										
Aluminum, Dissolved	0.00398	J	mg/l	0.0100	0.00327	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Antimony, Dissolved	0.00044	J	mg/l	0.00400	0.00042	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Chromium, Dissolved	0.00042	J	mg/l	0.00100	0.00017	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Sodium, Dissolved	0.220		mg/l	0.100	0.0293	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Thallium, Dissolved	0.00023	J	mg/l	0.00100	0.00014	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/24/22 12:30	05/24/22 18:26	1,6020B	WP

Prep Information

Digestion Method: EPA 3005A

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE **Lab Number:** L2222978

Project Number: 12582344 **Report Date:** 05/25/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1642243-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/24/22 13:24	05/25/22 09:15	1,7470A	DMB

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE

Project Number: 12582344

Lab Number: L2222978

Report Date: 05/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1641831-2								
Aluminum, Total	102		-		80-120	-		
Antimony, Total	90		-		80-120	-		
Arsenic, Total	107		-		80-120	-		
Barium, Total	102		-		80-120	-		
Beryllium, Total	95		-		80-120	-		
Cadmium, Total	104		-		80-120	-		
Calcium, Total	98		-		80-120	-		
Chromium, Total	103		-		80-120	-		
Cobalt, Total	99		-		80-120	-		
Copper, Total	100		-		80-120	-		
Iron, Total	108		-		80-120	-		
Lead, Total	105		-		80-120	-		
Magnesium, Total	109		-		80-120	-		
Manganese, Total	103		-		80-120	-		
Nickel, Total	99		-		80-120	-		
Potassium, Total	104		-		80-120	-		
Selenium, Total	112		-		80-120	-		
Silver, Total	104		-		80-120	-		
Sodium, Total	103		-		80-120	-		
Thallium, Total	104		-		80-120	-		
Vanadium, Total	101		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE

Project Number: 12582344

Lab Number: L2222978

Report Date: 05/25/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1641831-2					
Zinc, Total	96	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1641833-2					
Mercury, Total	97	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE

Project Number: 12582344

Lab Number: L2222978

Report Date: 05/25/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1642241-2					
Aluminum, Dissolved	97	-	80-120	-	
Antimony, Dissolved	84	-	80-120	-	
Arsenic, Dissolved	102	-	80-120	-	
Barium, Dissolved	102	-	80-120	-	
Beryllium, Dissolved	106	-	80-120	-	
Cadmium, Dissolved	105	-	80-120	-	
Calcium, Dissolved	88	-	80-120	-	
Chromium, Dissolved	96	-	80-120	-	
Cobalt, Dissolved	95	-	80-120	-	
Copper, Dissolved	96	-	80-120	-	
Iron, Dissolved	99	-	80-120	-	
Lead, Dissolved	106	-	80-120	-	
Magnesium, Dissolved	102	-	80-120	-	
Manganese, Dissolved	98	-	80-120	-	
Nickel, Dissolved	98	-	80-120	-	
Potassium, Dissolved	95	-	80-120	-	
Selenium, Dissolved	103	-	80-120	-	
Silver, Dissolved	105	-	80-120	-	
Sodium, Dissolved	100	-	80-120	-	
Thallium, Dissolved	108	-	80-120	-	
Vanadium, Dissolved	95	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE

Project Number: 12582344

Lab Number: L2222978

Report Date: 05/25/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1642241-2					
Zinc, Dissolved	94	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1642243-2					
Mercury, Dissolved	94	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE
Project Number: 12582344

Lab Number: L2222978
Report Date: 05/25/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 12582344-050322-RR-012	QC Batch ID: WG1641831-3			WG1641831-4		QC Sample: L2222978-03			Client ID: WG-			
Aluminum, Total	0.991	2	2.96	98		3.09	105		75-125	4		20
Antimony, Total	ND	0.5	0.4528	90		0.4606	92		75-125	2		20
Arsenic, Total	ND	0.12	0.1239	103		0.1225	102		75-125	1		20
Barium, Total	0.07207	2	2.072	100		2.133	103		75-125	3		20
Beryllium, Total	ND	0.05	0.05148	103		0.04978	100		75-125	3		20
Cadmium, Total	ND	0.053	0.05429	102		0.05735	108		75-125	5		20
Calcium, Total	62.6	10	70.3	77		71.9	93		75-125	2		20
Chromium, Total	0.00389	0.2	0.1996	98		0.2030	100		75-125	2		20
Cobalt, Total	0.00135	0.5	0.4749	95		0.4800	96		75-125	1		20
Copper, Total	0.00502	0.25	0.2399	94		0.2459	96		75-125	2		20
Iron, Total	1.64	1	2.60	96		2.66	102		75-125	2		20
Lead, Total	0.00051J	0.53	0.5468	103		0.5706	108		75-125	4		20
Magnesium, Total	25.0	10	33.9	89		35.6	106		75-125	5		20
Manganese, Total	0.02925	0.5	0.5225	99		0.5380	102		75-125	3		20
Nickel, Total	0.00333	0.5	0.4839	96		0.4951	98		75-125	2		20
Potassium, Total	18.6	10	28.9	103		28.9	103		75-125	0		20
Selenium, Total	ND	0.12	0.122	102		0.133	111		75-125	9		20
Silver, Total	ND	0.05	0.05134	103		0.05274	105		75-125	3		20
Sodium, Total	58.1	10	62.9	**48**	Q	65.7	76		75-125	4		20
Thallium, Total	0.00037J	0.12	0.1234	103		0.1274	106		75-125	3		20
Vanadium, Total	0.00259J	0.5	0.4944	99		0.4981	100		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE
Project Number: 12582344
Lab Number: L2222978
Report Date: 05/25/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1641831-3 WG1641831-4 QC Sample: L2222978-03 Client ID: WG-12582344-050322-RR-012									
Zinc, Total	0.00392J	0.5	0.4754	95	0.4788	96	75-125	1	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1641833-3 WG1641833-4 QC Sample: L2222978-03 Client ID: WG-12582344-050322-RR-012									
Mercury, Total	ND	0.005	0.00479	96	0.00468	94	75-125	2	20

Matrix Spike Analysis
Batch Quality Control

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE
Project Number: 12582344

Lab Number: L2222978
Report Date: 05/25/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1642241-3 WG1642241-4 QC Sample: L2222978-03 Client ID: WG-12582344-050322-RR-012									
Aluminum, Dissolved	0.0223	4	3.99	99	3.84	95	75-125	4	20
Antimony, Dissolved	0.00058J	1	1.075	108	1.019	102	75-125	5	20
Arsenic, Dissolved	ND	0.24	0.2573	107	0.2441	102	75-125	5	20
Barium, Dissolved	0.06748	4	4.198	103	4.095	101	75-125	2	20
Beryllium, Dissolved	ND	0.1	0.09816	98	0.09205	92	75-125	6	20
Cadmium, Dissolved	ND	0.106	0.1108	104	0.1058	100	75-125	5	20
Calcium, Dissolved	60.6	20	80.1	98	79.2	93	75-125	1	20
Chromium, Dissolved	0.00112	0.4	0.4002	100	0.3865	96	75-125	3	20
Cobalt, Dissolved	0.00068	1	0.9797	98	0.9371	94	75-125	4	20
Copper, Dissolved	0.00126	0.5	0.4917	98	0.4632	92	75-125	6	20
Iron, Dissolved	0.0372J	2	1.99	100	2.00	100	75-125	1	20
Lead, Dissolved	ND	1.06	1.121	106	1.065	100	75-125	5	20
Magnesium, Dissolved	26.1	20	45.1	95	45.3	96	75-125	0	20
Manganese, Dissolved	0.00639	1	1.006	100	0.9990	99	75-125	1	20
Nickel, Dissolved	0.00145J	1	1.013	101	0.9671	97	75-125	5	20
Potassium, Dissolved	18.4	20	37.7	96	36.4	90	75-125	4	20
Selenium, Dissolved	ND	0.24	0.257	107	0.241	100	75-125	6	20
Silver, Dissolved	ND	0.1	0.1052	105	0.1011	101	75-125	4	20
Sodium, Dissolved	62.1	20	78.3	81	78.4	82	75-125	0	20
Thallium, Dissolved	0.00039J	0.24	0.2524	105	0.2452	102	75-125	3	20
Vanadium, Dissolved	ND	1	0.9975	100	0.9495	95	75-125	5	20

Matrix Spike Analysis
Batch Quality Control

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE
Project Number: 12582344
Lab Number: L2222978
Report Date: 05/25/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1642241-3 WG1642241-4 QC Sample: L2222978-03 Client ID: WG-12582344-050322-RR-012									
Zinc, Dissolved	ND	1	0.9414	94	0.8939	89	75-125	5	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1642243-3 WG1642243-4 QC Sample: L2222978-03 Client ID: WG-12582344-050322-RR-012									
Mercury, Dissolved	ND	0.01	0.00958	96	0.00952	95	75-125	1	20

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE
Project Number: 12582344

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2222978
Report Date: 05/25/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1641831-6 QC Sample: L2222978-03 Client ID: WG-12582344-050322-RR-012						
Aluminum, Total	0.991	0.986	mg/l	1		20
Barium, Total	0.07207	0.07631	mg/l	6		20
Calcium, Total	62.6	63.3	mg/l	1		20
Iron, Total	1.64	1.71	mg/l	4		20
Magnesium, Total	25.0	24.8	mg/l	1		20
Manganese, Total	0.02925	0.02841	mg/l	3		20
Potassium, Total	18.6	18.8	mg/l	1		20
Sodium, Total	58.1	55.5	mg/l	4		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1642241-6 QC Sample: L2222978-03 Client ID: WG-12582344-050322-RR-012						
Barium, Dissolved	0.06748	0.06975	mg/l	3		20
Calcium, Dissolved	60.6	61.6	mg/l	2		20
Magnesium, Dissolved	26.1	25.5	mg/l	2		20
Potassium, Dissolved	18.4	18.4	mg/l	0		20
Sodium, Dissolved	62.1	58.3	mg/l	6		20

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE
Project Number: 12582344

Lab Number: L2222978
Report Date: 05/25/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222978-01A	Plastic 250ml unpreserved	A	7	7	3.6	Y	Absent		-
L2222978-01B	Plastic 250ml HNO3 preserved	A	<2	<2	3.6	Y	Absent		FE-6020T(180),TL-6020T(180),SE-6020T(180),BA-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),MG-6020T(180),HG-T(28),AL-6020T(180),AG-6020T(180),CD-6020T(180),CO-6020T(180)
L2222978-01X	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.6	Y	Absent		K-6020S(180),V-6020S(180),SE-6020S(180),CU-6020S(180),MN-6020S(180),CO-6020S(180),BE-6020S(180),MG-6020S(180),ZN-6020S(180),CR-6020S(180),FE-6020S(180),CA-6020S(180),TL-6020S(180),BA-6020S(180),PB-6020S(180),NA-6020S(180),NI-6020S(180),SB-6020S(180),AG-6020S(180),AS-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2222978-02A	Plastic 250ml unpreserved	A	7	7	3.6	Y	Absent		-
L2222978-02B	Plastic 250ml HNO3 preserved	A	<2	<2	3.6	Y	Absent		SE-6020T(180),BA-6020T(180),FE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),NI-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),HG-T(28),AL-6020T(180),CD-6020T(180),MG-6020T(180),AG-6020T(180),CO-6020T(180)
L2222978-02X	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.6	Y	Absent		CU-6020S(180),V-6020S(180),K-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),MG-6020S(180),ZN-6020S(180),CO-6020S(180),CR-6020S(180),CA-6020S(180),FE-6020S(180),BA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),NA-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)

*Values in parentheses indicate holding time in days

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE
Project Number: 12582344

Lab Number: L2222978
Report Date: 05/25/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222978-03A	Plastic 250ml unpreserved	A	7	7	3.6	Y	Absent		-
L2222978-03A1	Plastic 250ml unpreserved	A	7	7	3.6	Y	Absent		-
L2222978-03A2	Plastic 250ml unpreserved	A	7	7	3.6	Y	Absent		-
L2222978-03B	Plastic 250ml HNO3 preserved	A	<2	<2	3.6	Y	Absent		TL-6020T(180),SE-6020T(180),BA-6020T(180),FE-6020T(180),CR-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),MG-6020T(180),AL-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),CO-6020T(180)
L2222978-03B1	Plastic 250ml HNO3 preserved	A	<2	<2	3.6	Y	Absent		TL-6020T(180),SE-6020T(180),BA-6020T(180),FE-6020T(180),CR-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),MG-6020T(180),AL-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),CO-6020T(180)
L2222978-03B2	Plastic 250ml HNO3 preserved	A	<2	<2	3.6	Y	Absent		TL-6020T(180),SE-6020T(180),BA-6020T(180),FE-6020T(180),CR-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),MG-6020T(180),AL-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),CO-6020T(180)
L2222978-03X	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.6	Y	Absent		V-6020S(180),CU-6020S(180),K-6020S(180),SE-6020S(180),MN-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),NA-6020S(180),TL-6020S(180),PB-6020S(180),NI-6020S(180),BA-6020S(180),SB-6020S(180),AG-6020S(180),AS-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2222978-04A	Plastic 250ml unpreserved	A	7	7	3.6	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name: MORRIS LOT 4 FORMER AUSTIN AVE
Project Number: 12582344

Lab Number: L2222978
Report Date: 05/25/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222978-04B	Plastic 250ml HNO3 preserved	A	<2	<2	3.6	Y	Absent		SE-6020T(180),TL-6020T(180),BA-6020T(180),FE-6020T(180),CA-6020T(180),CR-6020T(180),NI-6020T(180),K-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),AG-6020T(180),HG-T(28),AL-6020T(180),MG-6020T(180),CD-6020T(180),CO-6020T(180)
L2222978-04X	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.6	Y	Absent		K-6020S(180),CU-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),ZN-6020S(180),BE-6020S(180),MG-6020S(180),CO-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),BA-6020S(180),NA-6020S(180),PB-6020S(180),NI-6020S(180),TL-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),AL-6020S(180),HG-S(28),CD-6020S(180)
L2222978-05A	Plastic 250ml unpreserved	A	7	7	3.6	Y	Absent		-
L2222978-05B	Plastic 250ml HNO3 preserved	A	<2	<2	3.6	Y	Absent		FE-6020T(180),BA-6020T(180),TL-6020T(180),SE-6020T(180),CR-6020T(180),NI-6020T(180),K-6020T(180),CA-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AL-6020T(180),HG-T(28),CD-6020T(180),AG-6020T(180),MG-6020T(180),CO-6020T(180)
L2222978-05X	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.6	Y	Absent		K-6020S(180),CU-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),ZN-6020S(180),CO-6020S(180),MG-6020S(180),BE-6020S(180),CR-6020S(180),FE-6020S(180),CA-6020S(180),NA-6020S(180),PB-6020S(180),TL-6020S(180),NI-6020S(180),BA-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)

*Values in parentheses indicate holding time in days

Project Name:	MORRIS LOT 4 FORMER AUSTIN AVE	**Lab Number:**	L2222978
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GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	MORRIS LOT 4 FORMER AUSTIN AVE	**Lab Number:**	L2222978
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Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

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

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

Report Format: DU Report with 'J' Qualifiers

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Project Number:	12582344	**Report Date:**	05/25/22

Data Qualifiers

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	MORRIS LOT 4 FORMER AUSTIN AVE	**Lab Number:**	L2222978
Project Number:	12582344	**Report Date:**	05/25/22

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

ALPHA

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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Date Rec'd in Lab: 5/3/22

ALPHA Job #: L2222978

Westborough, MA 01581, 8 Walkup Dr., TEL: 508-898-9220, FAX: 508-898-9193
Mansfield, MA 02048, 320 Forbes Blvd, TEL: 508-822-9300, FAX: 508-822-3288

Project Information
Project Name: Morris Former Austin ave Landfill RCS
Project Location: Stew Leonards drive, Yonkers NY
Project #: 12582344 2022.01 & 2022.02
(Use Project name as Project #) ☐
Project Manager: ~~Tom Gallagher~~ Ian McNamara
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Client Information
Client: GHD Services Inc
Address: 5788 Widewaters Parkway Syracuse NY
Phone: 315 802 0336
Fax:
Email: Ian.McNamara@GHD.com

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ ~~EQuIS (4 File)~~
☒ Other Format NYS EQuIS EDD Tics

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

Billing Information
☐ Same as Client Info
PO #: Category B

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total TAL metals + Hg	TAL DIS Metals + Hg	DIS (Lab Filtered)						Sample Specific Comments	Total Bottle
22978-01	WG-12582344-050222-RR-010	5/2/22	~~955~~ 1005	WG	RR	1	1							DIS Metals Lab Filter	
-02	WG-12582344-050222-RR-011	↓	~~1005~~ 1025	WG	RR	1	1								
-03	WG-12582344-050322-RR-012 MS/MSD	5/3/22	850	WG	RR	3	3							Note Samples Start @ #10	
-04	WG-12582344-050322-RR-013	↓	1055	WG	RR	1	1								
-05	WG-12582344-050322-RR-014	↓	1100	WG	RR	1	1								

Preservative Code: A = None, B = HCl, C = HNO_3, D = H_2SO_4, E = NaOH, F = MeOH, G = $NaHSO_4$, H = $Na_2S_2O_3$, K/E = Zn Ac/NaOH, O = Other

Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

	Total TAL metals + Hg	TAL DIS Metals + Hg
Container Type	P	P
Preservative	A	C

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	5/3/22 1200	Don DAAL	5/3/22 1205
Don DAAL	5/3/22 1310	D Edwards AAL	5/3/22 1640
D Edwards AAL	5/3/22 2200	[signature] 2200	5/3 2200

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)