



**DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING**

Old Bethpage Landfill

**Post-Termination Groundwater Monitoring
Program**

Second Semiannual Report of 2024

December 2024



SECOND SEMIANNUAL REPORT OF 2024

**OLD BETHPAGE LANDFILL
POST-TERMINATION GROUNDWATER MONITORING PROGRAM**

Prepared for:

**TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
NASSAU COUNTY, NEW YORK**



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DECEMBER 2024

**SECOND SEMIANNUAL REPORT OF 2024
 OLD BETHPAGE LANDFILL
 POST-TERMINATION GROUNDWATER MONITORING PROGRAM**

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
1.0	INTRODUCTION.....	1-1
2.0	COMPLETED SCOPE OF WORK.....	2-1
2.1	Groundwater Sampling Procedures	2-1
2.2	Sample Analyses.....	2-2
3.0	DISCUSSION OF RESULTS	3-1
3.1	Data Validation	3-1
3.2	Groundwater Results.....	3-2
	3.2.1 Volatile Organic Compounds	3-2
	3.2.2 Inorganic Parameters	3-3
	3.2.3 Leachate Indicators	3-3
3.3	Historical Groundwater Trends.....	3-4
	3.3.1 Volatile Organic Compounds	3-4
	3.3.2 Inorganic Parameters	3-5
	3.3.3 Leachate Indicators	3-6
4.0	CONCLUSIONS	4-1

List of Appendices

Groundwater Sampling Logs	A
Chain of Custody Forms	B
Data Validation Checklist.....	C
Laboratory Data Reports.....	D
Post-Termination Historical Groundwater Trend Graphs.....	E
Previously Collected Post-Termination Groundwater Monitoring Data	F

TABLE OF CONTENTS (continued)

List of Figures

- 1 Groundwater Monitoring Well Location Map
- 2 Volatile Organic Compound Concentrations Detected Above Groundwater Quality Standards/Guidance Values, 2023 – 2024
- 3 Total and Dissolved Metal Concentrations Detected Above Groundwater Quality Standards/Guidance Values, 2023 – 2024
- 4 Leachate Indicator Concentrations Detected Above Groundwater Quality Standards/Guidance Values, 2023 – 2024

List of Tables

- 1 Volatile Organic Compounds, October/November 2024
- 2 Total and Dissolved Metals, October/November 2024
- 3 Leachate Indicator Parameters, October/November 2024

1.0 INTRODUCTION

This Second Semiannual Report of 2024 was prepared at the request of the Town of Oyster Bay to summarize and evaluate the data collected for the Post-Termination Groundwater Monitoring Program at the Old Bethpage Landfill. The monitoring was completed in accordance with the requirements of the Protocols for Sampling Groundwater under the Old Bethpage Solid Waste Disposal Complex Remedial Action Plan (RAP) prepared by Geraghty & Miller, Appendix I of the 1988 Record of Decision (New York State Department of Environmental Conservation [NYSDEC] and the United States Environmental Protection Agency [USEPA]). The purpose of the Post-Termination Groundwater Monitoring Program is to assess whether the termination criteria set forth in the RAP continues to be met following shutdown of the recovery wells RW-1 and RW-2.

Note that this report describes the second semiannual groundwater sampling event of 2024 and is the sixteenth sampling round and report completed under the Post-Termination Groundwater Monitoring Program. In an October 7, 2016 letter, the NYSDEC approved the shutdown of recovery wells RW-1 and RW-2 and to enter Post-Termination Monitoring under the Final Consent Decree. As described in the NYSDEC letter, Post-Termination Monitoring was to be performed semi-annually for three years, for a total of six rounds. A Final Post Termination Groundwater Monitoring Report which summarized the initial six sampling rounds completed between 2017 and 2019 was prepared and submitted to the NYSDEC in March 2020. This final report evaluated whether the termination criteria described in Appendix A, Section III of the Consent Decree have been met. The findings of this report indicated that the termination criteria have sufficiently been met and there is no benefit in continuing the operation of recovery wells RW-1 and RW-2 and it was recommended that these wells remain shut down. Until a formal response is received upon the NYSDEC review of the report, the Town will continue with current protocols. This sixteenth sampling round will serve as a continuation of the Post Termination Monitoring period.

2.0 COMPLETED SCOPE OF WORK

The scope of work for the Post-Termination Groundwater Monitoring Program includes the sampling of 13 groundwater monitoring wells as described below. In accordance with the October 7, 2016 letter from the NYSDEC, hydraulic monitoring is not a Town responsibility under this program, including the collection of synoptic water levels and mapping of groundwater flow.

2.1 Groundwater Sampling Procedures

In accordance with the October 7, 2016 letter from the NYSDEC, monitoring wells LF-1, LF-2, MW-05B, MW-06A, MW-06B, MW-06C, MW-06E, MW-06F, MW-08A, MW-08B, MW-09B, MW-09C and OBS-1 were sampled on October 29 and 31, 2024 and November 1, 4 and 5, 2024 as part of the second semiannual groundwater sampling event. The locations of these monitoring wells are depicted in **Figure 1**.

Prior to collecting groundwater samples, the monitoring wells were purged to remove standing water in the well. Well purging was accomplished by first measuring the static water level in the well and calculating the volume of standing water. All monitoring wells were purged utilizing a non-dedicated submersible pump, with the pump intake placed just below (approximately 5 feet) the static water level in each well. All down-well equipment was decontaminated before use and after sampling each well.

Field measurements of pH, temperature, specific conductivity, turbidity, dissolved oxygen and oxidation-reduction potential (ORP) were observed and recorded during the purging process. When the values of the field parameters stabilized within 10%, the turbidity of the groundwater was less than 50 Nephelometric Turbidity Units (NTUs) and at least three well volumes had been removed, well purging was considered complete. Field observations and measurements were documented on the well sampling logs, provided in **Appendix A**.

After well purging was complete, the flow rate was reduced, and groundwater samples were collected at a low flow rate of approximately 500 ml/minute or less directly from the pump

discharge tubing. Samples for volatile organic compounds (VOC) analysis were collected first, followed by other parameters. Each sample was labeled with the well number, time and date, and stored in an ice-filled cooler with the chain of custody forms. Samples were delivered to the laboratory on a daily basis. Quality Assurance/Quality Control (QA/QC) samples were also collected and analyzed, including one field blank, one field duplicate, and daily trip blanks. The chain of custody forms are provided in **Appendix B**.

2.2 Sample Analyses

Groundwater samples collected during the second semiannual groundwater sampling event of 2024 from the monitoring wells were analyzed for VOCs, total and dissolved metals, and leachate indicators. Laboratory analyses were performed by Pace Analytical Laboratories, located in Melville, New York (Pace Analytical). This laboratory is approved under the New York State Department of Health Environmental Laboratory Approval Program (ELAP) for the analyses performed. Filtering of the samples for dissolved metals analysis was performed in the field using in-line 0.45-micron disposable filters.

The analytical results are summarized in **Table 1** for VOCs, **Table 2** for total and dissolved metals and **Table 3** for leachate indicators. The results are discussed below in **Section 3.0**.

3.0 DISCUSSION OF RESULTS

3.1 Data Validation

Thirteen (13) groundwater samples, one field duplicate, one field blank and five trip blanks were collected as part of the second semiannual groundwater sampling event of 2024 performed at the Old Bethpage Landfill under the Post-Termination Groundwater Monitoring Program. All samples were analyzed for VOCs, total and dissolved metals, and leachate indicators. Sample analysis was performed in accordance with SW-846 methods. The laboratory analysis was performed by Pace Analytical Laboratories, located in Melville, New York, and was reported in data packages 70319475 and 70320463.

The data packages submitted by the analytical laboratory were validated in accordance with NYSDEC quality assurance/quality control (QA/QC) requirements. The Data Validation Checklists are provided in **Appendix C**. The laboratory data packages are provided in **Appendix D**. The following qualification of the data was required based on the findings of the data validation:

- The following metals were detected in the FIELD BLANK and qualified as non-detect (UB): total potassium in sample MW-06A; total zinc in samples MW-06E and MW-08A; and total and dissolved iron in sample OBS-1.
- The relative percent difference (RPD) was above the QC limit in the duplicate for cyanide associated with samples MW-05B, MW-06E, MW-06F, MW-09B, and MW-09C. This compound was qualified as estimated (J/UJ) in the associated samples.
- The percent recoveries (%Rs) was below the QC limit in the laboratory control samples (LCS), matrix spike (MS) and/or MS duplicate (MSD) for alkalinity and carbonate (CaCO₃) associated with samples MW-08A, MW-08B, OBS-1, BLIND DUPLICATE-1, MW-06A, MW-06C, MW-06B, MW-06E, MW-06F, LF-1, LF-2, and FIELD BLANK; chloride associated with samples MW-08A, MW-08B, OBS-1, BLIND DUPLICATE-1, MW-06A, MW-06C, MW-06B, LF-2, LF-1, and FIELD BLANK; nitrite associated with samples MW-05B, MW-09B, MW-09C, LF-2, LF-1, and FIELD BLANK and sulfate associated with samples MW-05B, MW-09B, MW-09C, MW-06A, MW-06C, MW-06B, LF-1, and FIELD BLANK. These compounds were qualified as estimated (J/UJ) in the associated samples.

- The %R was above the QC limit in the matrix spike for sulfate associated with samples MW-08A, MW-08B, OBS-1, and BLIND DUPLICATE-1. This compound was qualified as estimated (J) in the associated samples.

No other issues were found with the sample results and all results are deemed valid and usable for environmental assessment purposes as qualified above.

3.2 Groundwater Results

The analytical results for the second semiannual groundwater sampling event of 2024 are summarized in **Table 1** for VOCs, **Table 2** for total and dissolved metals and **Table 3** for leachate indicators. Analytical parameters are compared to the NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA groundwater (herein referred to as the Class GA groundwater standards and guidance values). Figures presenting exceedances of the Class GA groundwater standards and guidance values detected during the last four rounds of sampling are presented as **Figure 2** for VOCs, **Figure 3** for total and dissolved metals, and **Figure 4** for leachate indicators.

3.2.1 Volatile Organic Compounds

VOCs were detected at concentrations above Class GA groundwater standards and guidance values in wells LF-2, MW-06B and MW-08A as follows:

- Benzene was detected in LF-2 at a concentration of 2.3 ug/l, above the Class GA standard of 1 ug/l.
- Chlorobenzene was detected in MW-06B at a concentration of 11.5 ug/l, above the Class GA standard of 5 ug/l.
- Cis-1,2-dichloroethylene was detected in MW-08A at a concentration of 11.1 ug/l, above the Class GA standard of 5 ug/l.
- Trichloroethylene (PCE) was detected in MW-08A at a concentration of 7.1 ug/l, above the Class GA standard of 5 ug/l.

3.2.2 Inorganic Parameters

Iron, manganese and sodium were detected above groundwater standards in either total and/or dissolved samples, as described below.

- Total iron was detected above the Class GA groundwater standard of 300 ug/l in 5 of the 13 groundwater monitoring wells (LF-1, LF-2, MW-06B, MW-06C and MW-06E), with concentrations ranging from 6,920 ug/l in MW-06C to a maximum concentration of 25,700 ug/l in MW-06B. In general, dissolved iron concentrations were similar to their respective total concentrations in the wells exhibiting exceedances of the groundwater standard.
- Total manganese was detected above the Class GA groundwater standard of 300 ug/l in wells LF-1, MW-05B, MW-08B, MW-09B, MW-09C and OBS-1 at concentrations of 2,510 ug/l, 3,620 ug/l, 668 ug/l, 2,380 ug/l, 356 ug/l and 2,810 ug/l, respectively. Dissolved manganese concentrations were generally similar to their respective total concentrations.
- Total iron and total manganese was detected above the combined Class GA groundwater standard of 500 ug/l in 9 of the 13 groundwater wells (LF-1, LF-2, MW-05B, MW-06B, MW-06C, MW-06E, MW-08B, MW-09B and OBS-1), with concentrations ranging from 668 ug/l in MW-08B to a maximum concentration of 25,771 ug/l in MW-06B.
- Total sodium was detected above the Class GA groundwater standard of 20,000 ug/l in 12 of the 13 groundwater monitoring wells, with concentrations ranging from 25,500 ug/l in MW-08A to a maximum of 430,000 ug/l in LF-2. In general, dissolved sodium concentrations were similar to their respective total concentrations.

3.2.3 Leachate Indicators

Ammonia, chloride, total phenols, and total dissolved solids were detected above groundwater standards in the collected samples, as follows:

- Ammonia was detected above the Class GA groundwater standard of 2 mg/l in 5 of the 13 groundwater monitoring wells (LF-2, MW-06B, MW-06C, MW-06E and OBS-1) with concentrations ranging from 10 mg/l in OBS-1 to a maximum of 166 mg/l in LF-2.

- Chloride was detected above the Class GA groundwater standard of 250 mg/l in 2 of the 13 groundwater monitoring wells, with a concentration of 295 mg/l in LF-2 and 403 mg/l in MW-06F.
- Total phenols were detected above the Class GA groundwater standard of 0.001 mg/l in 4 of the 13 groundwater monitoring wells (LF-1, LF-2, MW-06B and MW-06C), with an estimated concentration ranging from 0.006 mg/l in MW-06C, to a maximum estimated concentration of 0.014 mg/l in MW-06B.
- Total dissolved solids (TDS) were detected above the Class GA groundwater standard of 500 mg/l in 5 of the 13 groundwater monitoring wells (LF-2, MW-06B, MW-06C, MW-06E and MW-06F), with concentrations ranging from 556 mg/l in MW-06E to a maximum of 1,800 mg/l at LF-2.

3.3 Historical Groundwater Trends

Since the objective of the Post-Termination monitoring period (2017 through present) is to assess the impacts of ceasing operation of recovery wells RW-1 and RW-2 (well pumps are out of service but the wells remain in place for potential future use), D&B performed an interim trend analysis using the results from the sixteenth post-termination groundwater rounds, as well as for comparison purposes, six existing rounds of operational monitoring conducted in calendar years 2015 and 2016. As part of evaluating changes in groundwater quality during the time period described above, historical graphs depicting trend lines have been prepared for total volatile organic compounds (TVOCs), inorganic parameters and leachate indicators. These graphs are presented in **Appendix E**. It should be noted that for inorganic parameters and leachate indicators, historical graphs and trend lines were prepared for selected constituents which have exhibited concentrations exceeding NYSDEC Class GA groundwater standards or guidance values. Previously collected post-termination groundwater data is provided in **Appendix F**. The following provides a brief discussion of the trend analysis.

3.3.1 Volatile Organic Compounds

Based on a review of the data, 8 of the 13 monitoring wells, MW-05B, MW-06A, MW-06E, MW-06F, MW-08B, MW-09B, MW-09C and OBS-1, in general have shown relatively stable concentrations of TVOCs since ceasing operation of the recovery wells RW-1 and RW-2.

Monitoring well LF-1 exhibited an increase in VOC concentrations in 2021-2022 which has since quickly decreased. Since May of 2022, which includes the last four rounds of sampling, TVOCs was detected at 3 ug/l or less in LF-1. TVOCs in monitoring well LF-2 do not show any discernable trend. This well typically exhibits minor detections of TVOCs, historically ranging from non-detect to 28 ug/L detected in May 2021. The 12.8 ug/L detected during this sampling event remains within the range of historical post termination sampling results (2017-present), for this well. In general, TVOCs detected in monitoring wells MW-06C and MW-06B are currently higher than those detected immediately following the shutdown of the recovery wells RW-1 and RW-2; however, concentrations detected in these monitoring wells over the past several sampling rounds have stopped increasing and remained within the range of non-detect to 12 ug/L for MW-06C and 10-30 ug/L for MW-06B. TVOC concentrations in MW-08A had been increasing until the October 2020 sampling event, after which an overall decreasing trend has been observed. It should be noted, the increasing TVOC trend in MW-08A was most likely due to the former Claremont Polychemical Site and not related to the landfill.

3.3.2 Inorganic Parameters

Historical graphs and trend lines have been established for the following inorganic parameters: iron, manganese, and sodium. In general, these parameters exhibited either a decreasing or flat trend in all or nearly all of the wells, with the exception of the following:

- Well LF-2 shows a slight increasing trend in iron concentrations since the Fall of 2018.
- Well MW-06B shows a slight increasing trend in iron concentrations since the Fall of 2021.
- Well MW-06C shows a slight increasing trend in manganese concentrations since the Fall of 2019.
- Well MW-06F show slight increasing trends in sodium concentrations since the Fall of 2018.

It should be noted that iron, manganese and sodium are naturally occurring in the groundwater aquifers on Long Island and these concentrations detected in the monitoring wells downgradient of the Landfill should not impose a significant concern for the groundwater quality.

3.3.3 Leachate Indicators

Historical graphs and trend lines have been established for the following leachate indicators: ammonia, chloride, total phenols, and total dissolved solids. In general, these leachate indicators exhibited either a decreasing or relatively flat trend in the majority of the wells, with the exception of the following:

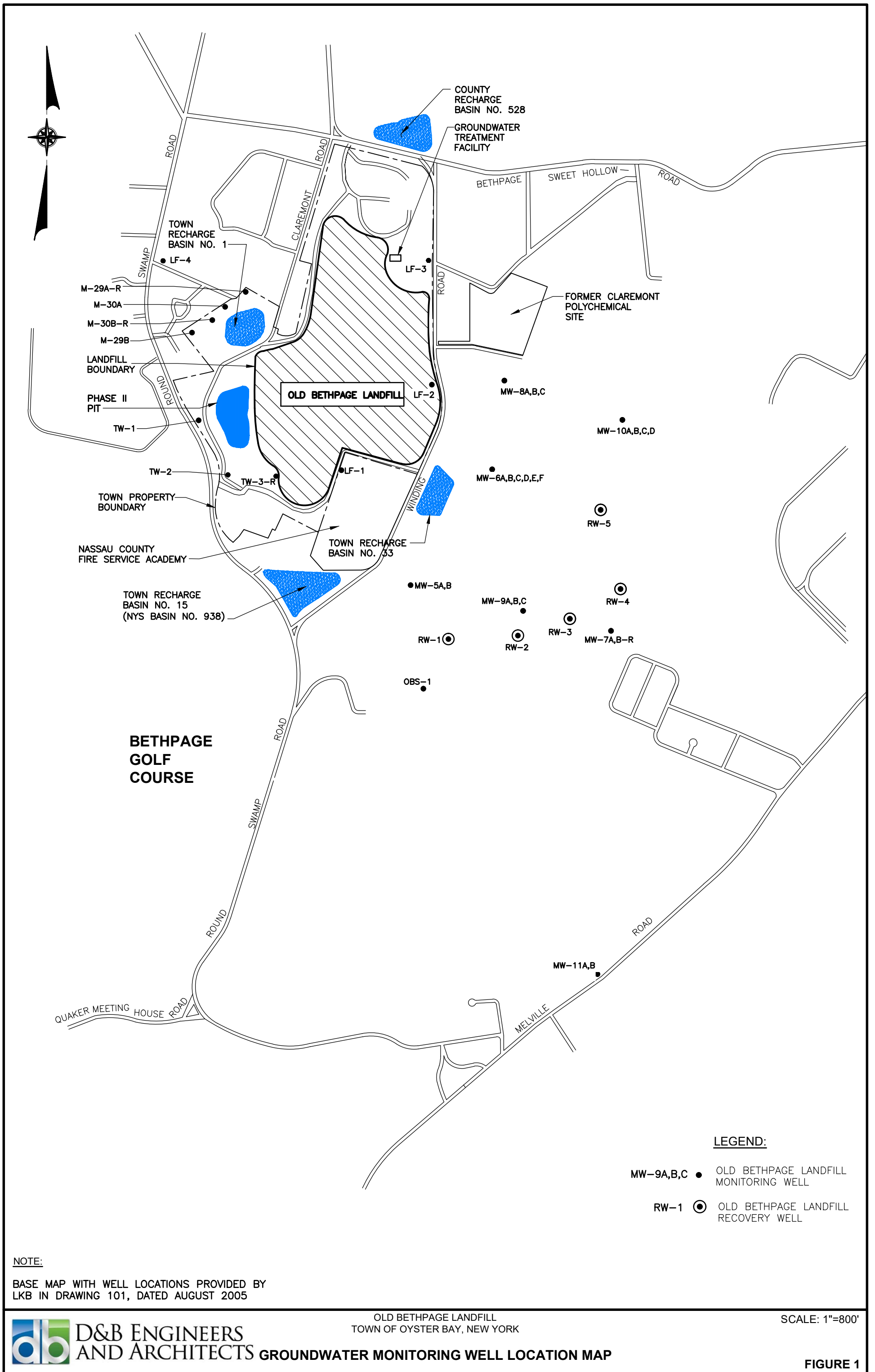
- Well LF-2 shows a slight increasing trend in ammonia concentrations mostly due to a spike in concentration observed during the May 2022 sampling event.
- Well MW-06F shows a slight increasing trend in chloride concentrations.
- Wells MW-06C, MW-06F and MW-09C show slight increasing trends in total dissolved solids.

4.0 CONCLUSIONS

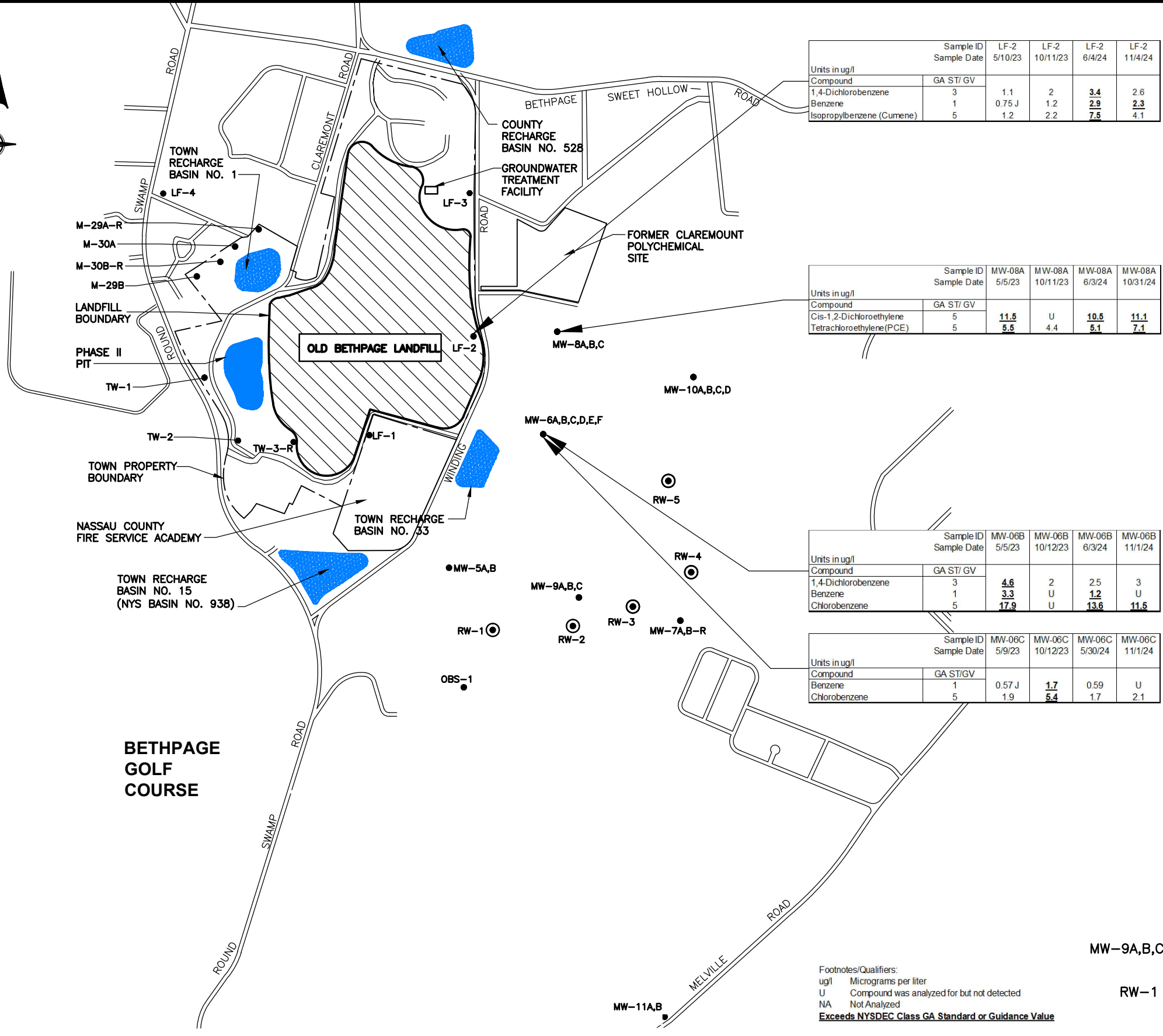
The following conclusions are made based on the above information:

- Overall, the results of the second semiannual 2024 sampling event (sixteenth round) of post-termination monitoring are, in general, consistent with the results from the prior post-termination rounds, except where noted below.
- Landfill related impacts (iron, manganese, sodium, and total phenols) continue to be evident in well LF-1, as well as in well LF-2 (iron, sodium, ammonia, chloride, total dissolved solids, and total phenols).
- Although wells LF-1 and LF-2 are both located on the downgradient boundary of the landfill, well LF-1 exhibits far less landfill-related impacts (i.e., leachate indicators) in comparison to well LF-2. This is attributed to the fact that well LF-1 is located downgradient of the newer portion of the landfill, which is partially lined, whereas well LF-2 is located downgradient of the older unlined portion of the landfill that is primarily composed of ash.
- It should be noted that cluster 6 which has historically exhibited the most landfill-related impacts of the monitoring wells are located downgradient of the older, unlined portion of the landfill. Wells MW-06B, MW-06C, MW-06E and MW-06F, which show landfill related impacts are screened at depths that most likely intercept the off-site landfill plume.
- With respect to landfill-related VOCs, (i.e., aromatic hydrocarbon) benzene slightly exceeded the Class GA groundwater standard in LF-2. Chlorobenzene exceeded the Class GA groundwater standard in MW-06B.
- Regarding chlorinated solvents, PCE and Cis-1,2-Dichloroethylene were detected above their respective groundwater standard in downgradient well MW-08A. These VOCs are most likely attributed to residual contamination from the former Claremont Polychemical Site, which is located directly upgradient of this water-table zone well. Chlorinated solvents associated with the former Claremont Polychemical Site have been historically detected in this well.

FIGURES



F:\3617\3617-09\dwg\3617-09-C-PL01.dwg, VOCs, 12/17/2024 10:34:34 AM, zkaplan



NOTE:
 BASE MAP WITH WELL LOCATIONS PROVIDED BY
 LKB IN DRAWING 101, DATED AUGUST 2005

LEGEND:
 MW-9A,B,C ● OLD BETHPAGE LANDFILL MONITORING WELL
 RW-1 ○ OLD BETHPAGE LANDFILL RECOVERY WELL

Footnotes/Qualifiers:
 ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 NA Not Analyzed
Exceeds NYSDEC Class GA Standard or Guidance Value

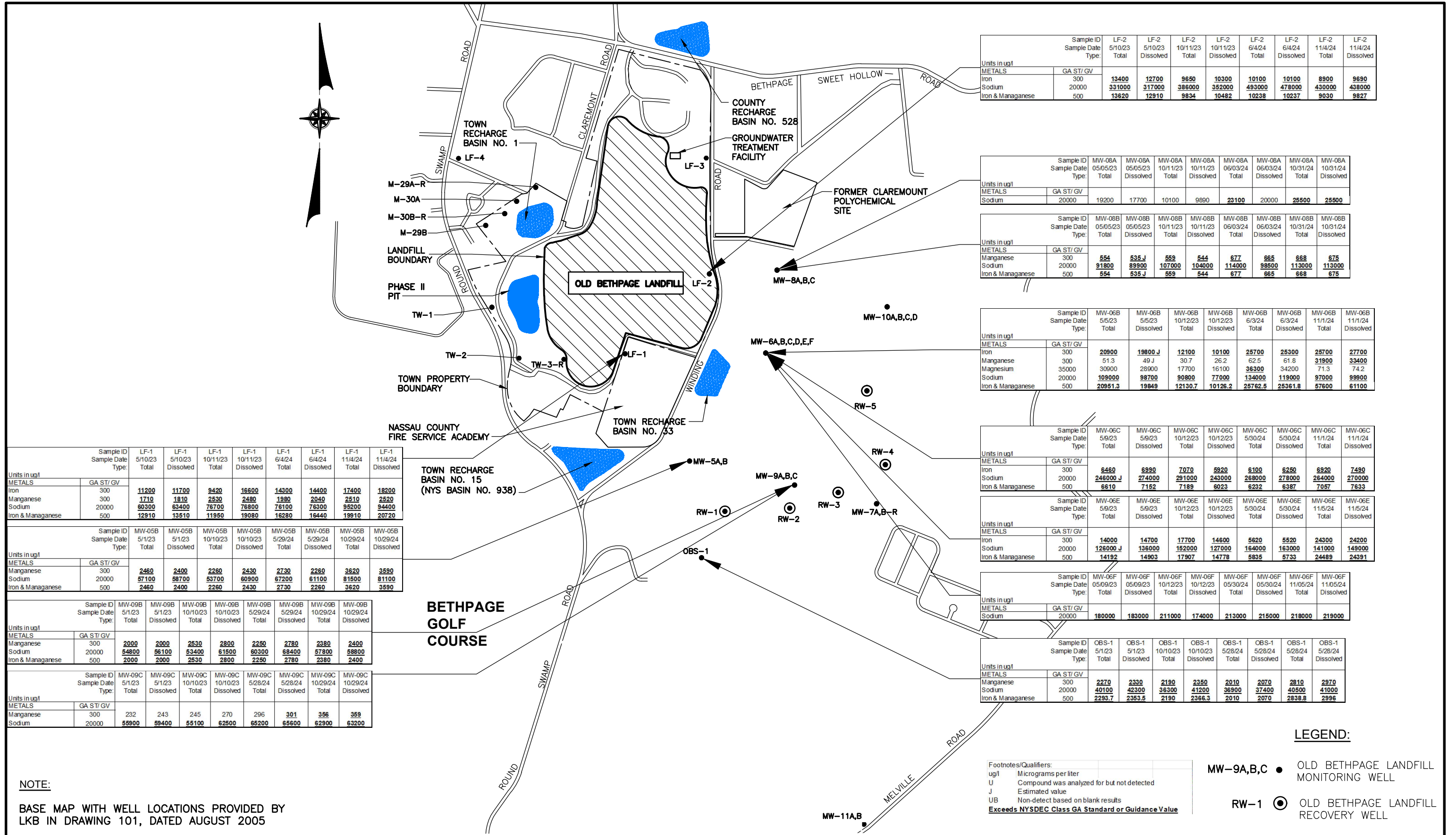
OLD BETHPAGE LANDFILL
 TOWN OF OYSTER BAY, NEW YORK
VOLATILE ORGANIC COMPOUND
CONCENTRATIONS DETECTED ABOVE GROUNDWATER
QUALITY STANDARDS/GUIDANCE VALUES, 2023 - 2024

SCALE: 1"=900'



FIGURE 2

F:\3617\3617-09\dwg\3617-09-C-PL02.dwg, METALS, 12/17/2024 12:23:23 PM, zkaplan



Sample ID	Sample Date	Type	LF-1 5/10/23 Total	LF-1 5/10/23 Dissolved	LF-1 10/11/23 Total	LF-1 10/11/23 Dissolved	LF-1 6/4/24 Total	LF-1 6/4/24 Dissolved	LF-1 11/4/24 Total	LF-1 11/4/24 Dissolved
Units in ug/l										
METALS										
Iron	300	GA ST/GV	11200	11700	9420	16600	14300	14400	17400	18200
Manganese	300		1710	1810	2530	2480	1980	2040	2520	2520
Sodium	20000		60300	63400	76700	78800	76100	76300	98200	94400
Iron & Manganese	500		12910	13510	11950	19080	16280	16440	19910	20720

Sample ID	Sample Date	Type	MW-05B 5/1/23 Total	MW-05B 5/1/23 Dissolved	MW-05B 10/10/23 Total	MW-05B 10/10/23 Dissolved	MW-05B 5/29/24 Total	MW-05B 5/29/24 Dissolved	MW-05B 10/29/24 Total	MW-05B 10/29/24 Dissolved
Units in ug/l										
METALS										
Manganese	300	GA ST/GV	2460	2400	2260	2430	2730	2260	3620	3590
Sodium	20000		57100	58700	53700	60900	67200	61100	81500	81100
Iron & Manganese	500		2460	2400	2260	2430	2730	2260	3620	3590

Sample ID	Sample Date	Type	MW-09B 5/1/23 Total	MW-09B 5/1/23 Dissolved	MW-09B 10/10/23 Total	MW-09B 10/10/23 Dissolved	MW-09B 5/29/24 Total	MW-09B 5/29/24 Dissolved	MW-09B 10/29/24 Total	MW-09B 10/29/24 Dissolved
Units in ug/l										
METALS										
Manganese	300	GA ST/GV	2000	2000	2530	2800	2250	2780	2380	2400
Sodium	20000		54800	56100	53400	61500	60300	68400	57800	58800
Iron & Manganese	500		2000	2000	2530	2800	2250	2780	2380	2400

Sample ID	Sample Date	Type	MW-09C 5/1/23 Total	MW-09C 5/1/23 Dissolved	MW-09C 10/10/23 Total	MW-09C 10/10/23 Dissolved	MW-09C 5/28/24 Total	MW-09C 5/28/24 Dissolved	MW-09C 10/29/24 Total	MW-09C 10/29/24 Dissolved
Units in ug/l										
METALS										
Manganese	300	GA ST/GV	232	243	245	270	296	301	356	359
Sodium	20000		55900	59400	55100	62500	65200	65600	62900	63200

Sample ID	Sample Date	Type	LF-2 5/10/23 Total	LF-2 5/10/23 Dissolved	LF-2 10/11/23 Total	LF-2 10/11/23 Dissolved	LF-2 6/4/24 Total	LF-2 6/4/24 Dissolved	LF-2 11/4/24 Total	LF-2 11/4/24 Dissolved
Units in ug/l										
METALS										
Iron	300	GA ST/GV	13400	12700	9650	10300	10100	10100	8900	9690
Sodium	20000		331000	317000	386000	352000	493000	478000	430000	438000
Iron & Manganese	500		13620	12910	9834	10482	10238	10237	9030	9827

Sample ID	Sample Date	Type	MW-08A 05/05/23 Total	MW-08A 05/05/23 Dissolved	MW-08A 10/11/23 Total	MW-08A 10/11/23 Dissolved	MW-08A 06/03/24 Total	MW-08A 06/03/24 Dissolved	MW-08A 10/31/24 Total	MW-08A 10/31/24 Dissolved
Units in ug/l										
METALS										
Sodium	20000	GA ST/GV	19200	17700	10100	9890	23100	20000	25500	25900

Sample ID	Sample Date	Type	MW-08B 05/05/23 Total	MW-08B 05/05/23 Dissolved	MW-08B 10/11/23 Total	MW-08B 10/11/23 Dissolved	MW-08B 06/03/24 Total	MW-08B 06/03/24 Dissolved	MW-08B 10/31/24 Total	MW-08B 10/31/24 Dissolved
Units in ug/l										
METALS										
Manganese	300	GA ST/GV	554	535 J	559	544	677	665	668	675
Sodium	20000		91800	89900	107000	104000	114000	98500	113000	113000
Iron & Manganese	500		554	535 J	559	544	677	665	668	675

Sample ID	Sample Date	Type	MW-06B 5/5/23 Total	MW-06B 5/5/23 Dissolved	MW-06B 10/12/23 Total	MW-06B 10/12/23 Dissolved	MW-06B 6/3/24 Total	MW-06B 6/3/24 Dissolved	MW-06B 11/1/24 Total	MW-06B 11/1/24 Dissolved
Units in ug/l										
METALS										
Iron	300	GA ST/GV	20900	19800 J	12100	10100	25700	25300	25700	27700
Manganese	300		51.3	49 J	30.7	26.2	62.5	61.8	31900	33400
Magnesium	35000		30900	28900	17700	16100	36300	34200	71.3	74.2
Sodium	20000		109000	98700	90800	77000	134000	119000	97000	99900
Iron & Manganese	500		20951.3	19849	12130.7	10126.2	25762.5	25361.8	25700	61100

Sample ID	Sample Date	Type	MW-06C 5/9/23 Total	MW-06C 5/9/23 Dissolved	MW-06C 10/12/23 Total	MW-06C 10/12/23 Dissolved	MW-06C 5/30/24 Total	MW-06C 5/30/24 Dissolved	MW-06C 11/1/24 Total	MW-06C 11/1/24 Dissolved
Units in ug/l										
METALS										
Iron	300	GA ST/GV	6460	6990	7070	5920	6100	6250	6920	7490
Sodium	20000		246000 J	274000	291000	243000	280000	278000	264000	270000
Iron & Manganese	500		6610	7152	7189	6023	6232	6387	7057	7633

Sample ID	Sample Date	Type	MW-06E 5/9/23 Total	MW-06E 5/9/23 Dissolved	MW-06E 10/12/23 Total	MW-06E 10/12/23 Dissolved	MW-06E 5/30/24 Total	MW-06E 5/30/24 Dissolved	MW-06E 11/5/24 Total	MW-06E 11/5/24 Dissolved
Units in ug/l										
METALS										
Iron	300	GA ST/GV	14000	14700	17700	14600	5620	5520	24300	24200
Sodium	20000		126000 J	136000	152000	127000	164000	163000	141000	149000
Iron & Manganese	500		14192	14903	17907	14778	5835	5733	24489	24391

Sample ID	Sample Date	Type	MW-06F 05/09/23 Total	MW-06F 05/09/23 Dissolved	MW-06F 10/12/23 Total	MW-06F 10/12/23 Dissolved	MW-06F 05/30/24 Total	MW-06F 05/30/24 Dissolved	MW-06F 11/05/24 Total	MW-06F 11/05/24 Dissolved
Units in ug/l										
METALS										
Sodium	20000	GA ST/GV	180000	183000	211000	174000	213000	215000	218000	219000

Sample ID	Sample Date	Type	OBS-1 5/1/23 Total	OBS-1 5/1/23 Dissolved	OBS-1 10/10/23 Total	OBS-1 10/10/23 Dissolved	OBS-1 5/28/24 Total	OBS-1 5/28/24 Dissolved	OBS-1 5/28/24 Total	OBS-1 5/28/24 Dissolved
Units in ug/l										
METALS										
Manganese	300	GA ST/GV	2270	2330	2190	2350	2010	2070	2810	2970
Sodium	20000		40100	42300	36300	41200	36900	37400	40500	41000
Iron & Manganese	500		2293.7	2353.5	2190	2366.3	2010	2070	2838.8	2996

OLD BETHPAGE LANDFILL
TOWN OF OYSTER BAY, NEW YORK
TOTAL AND DISSOLVED METAL
CONCENTRATIONS DETECTED ABOVE GROUNDWATER
QUALITY STANDARDS/GUIDANCE VALUES, 2023-2024

SCALE: 1"=900'



FIGURE 3

F:\3617\3617-09\dwg\3617-09-C-PL03.dwg, LEACHATE, 12/17/2024 11:37:13 AM, zkaplan



Units in mg/l	Sample ID	Sample Date	LF-1	LF-1	LF-1	LF-1
LEACHATE INDICATORS	GA	ST/GV	05/10/23	10/11/23	06/04/24	11/04/24
Chloride	2		0.11	2.3	1.1	0.31
Nitrogen, Ammonia	2		U	UJ	0.0117	0.008
Phenolics, Total	0.001		U	U	0.0117	0.008

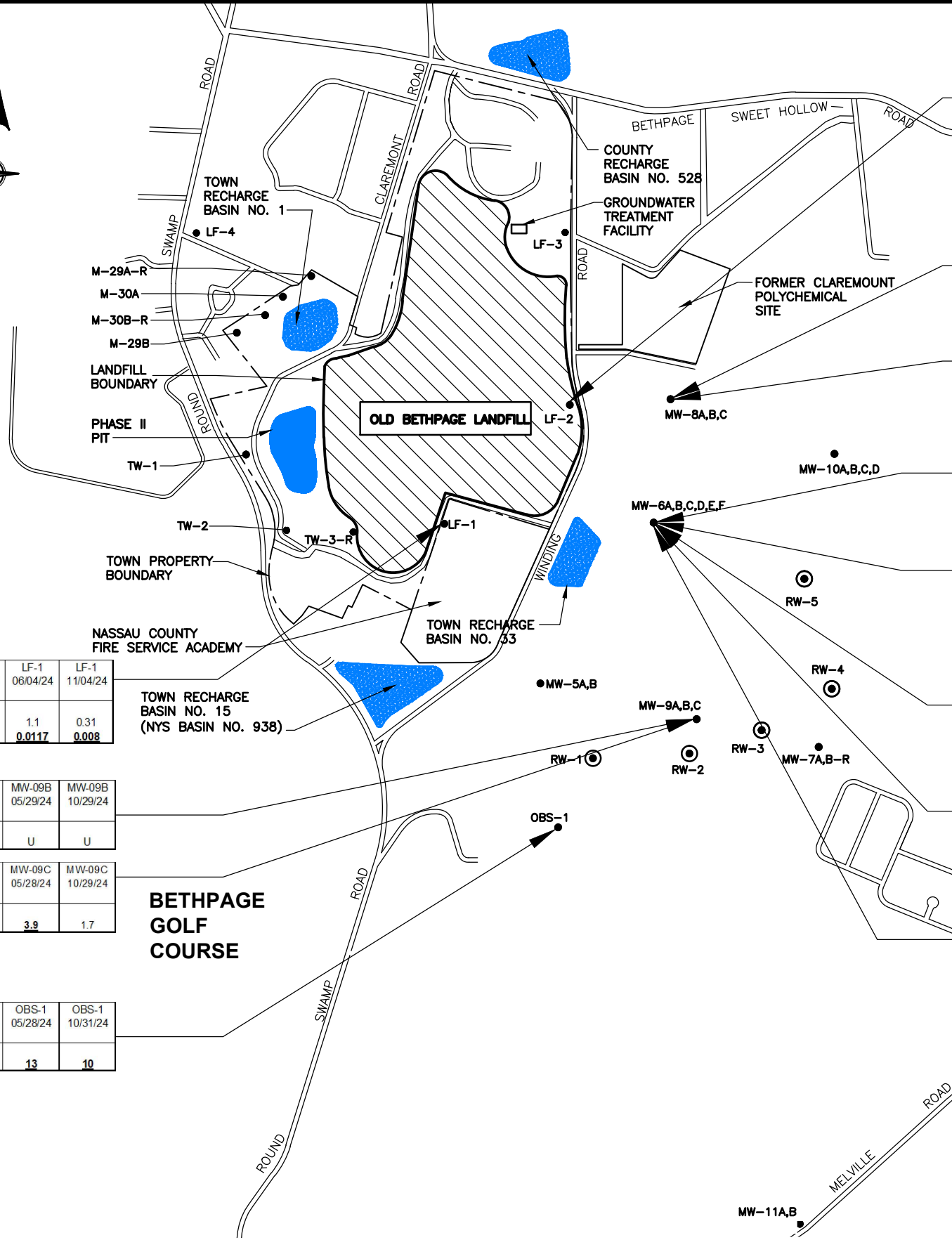
Units in mg/l	Sample ID	Sample Date	MW-09B	MW-09B	MW-09B	MW-09B
LEACHATE INDICATORS	GA	ST/GV	5/1/23	10/10/23	05/29/24	10/29/24
Chloride	2		0.0028 J	U	U	U
Nitrogen, Ammonia	2		0.0028 J	U	U	U
Phenolics, Total	0.001		0.0028 J	U	U	U

Units in mg/l	Sample ID	Sample Date	MW-09C	MW-09C	MW-09C	MW-09C
LEACHATE INDICATORS	GA	ST/GV	05/01/23	10/10/23	05/28/24	10/29/24
Chloride	2		1.3	1.7	3.9	1.7
Nitrogen, Ammonia	2		1.3	1.7	3.9	1.7

Units in mg/l	Sample ID	Sample Date	OBS-1	OBS-1	OBS-1	OBS-1
LEACHATE INDICATORS	GA	ST/GV	05/01/23	10/10/23	05/28/24	10/31/24
Chloride	2		12.8	10.5	13	10
Nitrogen, Ammonia	2		12.8	10.5	13	10

NOTE:

BASE MAP WITH WELL LOCATIONS PROVIDED BY LKB IN DRAWING 101, DATED AUGUST 2005



Units in mg/l	Sample ID	Sample Date	LF-2	LF-2	LF-2	LF-2
LEACHATE INDICATORS	GA	ST/GV	05/10/23	10/11/23	06/04/24	11/04/24
Chloride	250		240	321	354	295
Nitrogen, Ammonia	2		72.9	102	157	166
Phenolics, Total	0.001		U	UJB	0.0185	0.009
Total Dissolved Solids	500		690 J	1540	1500	1800

Units in mg/l	Sample ID	Sample Date	MW-08A	MW-08A	MW-08A	MW-08A
LEACHATE INDICATORS	GA	ST/GV	05/05/23	10/11/23	06/03/24	10/31/24
Phenolics, Total	0.001		U	0.104	U	U

Units in mg/l	Sample ID	Sample Date	MW-08B	MW-08B	MW-08B	MW-08B
LEACHATE INDICATORS	GA	ST/GV	05/05/23	10/11/23	06/03/24	10/31/24
Phenolics, Total	0.001		0.0034 J	U	U	U

Units in mg/l	Sample ID	Sample Date	MW-06A	MW-06A	MW-06A	MW-06A
LEACHATE INDICATORS	GA	ST/GV	05/09/23	10/12/23	06/03/24	11/01/24
Phenolics, Total	0.001		U	NA	0.0182	U

Units in mg/l	Sample ID	Sample Date	MW-06B	MW-06B	MW-06B	MW-06B
LEACHATE INDICATORS	GA	ST/GV	5/5/23	10/12/23	6/3/24	11/1/24
Nitrogen, Ammonia	2		160 J	64.8	95	72.8
Phenolics, Total	0.001		0.0278	UB	0.0197	0.014
Total Dissolved Solids	500		594	476	684	558

Units in mg/l	Sample ID	Sample Date	MW-06C	MW-06C	MW-06C	MW-06C
LEACHATE INDICATORS	GA	ST/GV	5/9/23	10/12/23	5/30/24	11/1/24
Chloride	250		267	245	228	187
Nitrogen, Ammonia	2		56.4	93.5	49	65.2
Phenolics, Total	0.001		0.0151	UB	U	0.006
Total Dissolved Solids	500		950	1860	860	1100

Units in mg/l	Sample ID	Sample Date	MW-06E	MW-06E	MW-06E	MW-06E
LEACHATE INDICATORS	GA	ST/GV	5/9/23	10/12/23	5/30/24	11/5/24
Nitrogen, Ammonia	2		26.5	19.9	7.2	10.7
Phenolics, Total	0.001		0.0037	UB	U	U
Total Dissolved Solids	500		496	550	558	556
Hexavalent Chromium	0.05		U	0.058	U	U

Units in mg/l	Sample ID	Sample Date	MW-06F	MW-06F	MW-06F	MW-06F
LEACHATE INDICATORS	GA	ST/GV	5/9/23	10/12/23	5/30/24	11/5/24
Chloride	250		426	453	432	403
Phenolics, Total	0.001		U	UB	U	U
Total Dissolved Solids	500		692	830	766	894

Footnotes/Qualifiers:
 mg/l Milligrams per liter
 U Compound was analyzed for but not detected
 J Estimated detection limit or value
 UB Non-detect based on blank results
 NA Not analyzed
 Exceeds NYSDEC Class GA Standard or Guidance Value

- LEGEND:**
- MW-9A,B,C ● OLD BETHPAGE LANDFILL MONITORING WELL
 - RW-1 ⊙ OLD BETHPAGE LANDFILL RECOVERY WELL

SCALE: 1"=900'

OLD BETHPAGE LANDFILL
 TOWN OF OYSTER BAY, NEW YORK
LEACHATE INDICATOR
CONCENTRATIONS DETECTED ABOVE GROUNDWATER
QUALITY STANDARDS/GUIDANCE VALUES, 2023-2024



FIGURE 4

TABLES

Table 1
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Volatile Organic Compounds

Sample ID Sample Date		LF-1 11/4/24	LF-2 11/4/24	MW-05B 10/29/24	MW-06A 11/1/24	MW-06B 11/1/24	MW-06C 11/1/24	MW-06E 11/5/24	MW-06F 11/5/24	MW-08A 10/31/24	MW-08B 10/31/24	MW-09B 10/29/24	MW-09C 10/29/24	OBS-1 10/31/24
Units in ug/l														
VOLATILE COMPOUNDS														
	NYSDEC Class GA Standard or Guidance Value													
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	2.6	1 U	1 U	3	1.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	2.3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	2.6	1 U	1 U	11.5	2.1	1.4	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1	1.1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	11.1	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	4.1	1 U	1 U	1 U	1.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	7.1	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.1	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m&p-Xylene	5	2 U	1.2 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	3 U	1.2 J	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Total Volatile Compounds	--	ND	12.8	ND	ND	14.5	5.4	1.4	1	19.3	ND	ND	ND	ND

ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated limit or value
 -- No standard
 ND Not detected

Exceeds NYSDEC Class GA Standard or Guidance Value



Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		LF-1 11/4/24 Total	LF-1 11/4/24 Dissolved	LF-2 11/4/24 Total	LF-2 11/4/24 Dissolved	MW-05B 10/29/24 Total	MW-05B 10/29/24 Dissolved	MW-06A 11/1/24 Total	MW-06A 11/1/24 Dissolved	MW-06B 11/1/24 Total	MW-06B 11/1/24 Dissolved	MW-06C 11/1/24 Total	MW-06C 11/1/24 Dissolved	MW-06E 11/5/24 Total	MW-06E 11/5/24 Dissolved
Units in ug/l															
METALS	NYSDEC Class GA Standard or Guidance Value														
Aluminum	--	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	96.1 J	97.1 J	58.1 J	61.1 J	72.6 J	71 J	21 J	21.3	79.5 J	83.8 J	31.8 J	33.4 J	103 J	103 J
Calcium	--	19300	20000	41100	44100	21300	21200	1510	1570	32700	35200	51500	55500	18300	17900
Chromium	50	10 U	10 U	9.4 J	9.8 J	10 U	10 U	10 U	10 U	10 U	10 U	1.5J U	1.5 J	10 U	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300	17400	18200	8900	9690	100 U	100 U	58.3 U	53.9 U	25700	27700	6920	7490	24300	24200
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	12600	12900	22000	22600	8850	8820	1510	1560	31900	33400	13500	14100	13000	13100
Manganese	300	2510	2520	130	137	3620	3590	7.8 J	8 J	71.3	74.2	137	143	189	191
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	9.5 J	8.7 J	21.8 J	22.7 J	11 J	11.3 J	40 U	40 U	40 U	40 U	16.3 J	16.4 J	11 J	11.2 J
Potassium	--	13800	12800	150000	155000	12200	11700	2640 UB	1600 J	53500	55200	60000	61300	19700	20400
Sodium	20000	95200	94400	430000	438000	81500	81100	9260	9240	97000	99900	264000	270000	141000	149000
Zinc	2000	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	8.7 UB	8.6 J
Iron & Manganese	500	19910	20720	9030	9827	3620	3590	7.8	8	25771	27774	7057	7633	24489	24391

Footnotes/Qualifiers:
 ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated value
 UB Not detected base on blank results
 -- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID	Sample Date	MW-06F	MW-06F	MW-08A	MW-08A	MW-08B	MW-08B	MW-09B	MW-09B	MW-09C	MW-09C	OBS-1	OBS-1
		11/5/24	11/5/24	10/31/24	10/31/24	10/31/24	10/31/24	10/29/24	10/29/24	10/29/24	10/29/24	10/31/24	10/31/24
Type:		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l													
METALS													
	NYSDEC Class GA Standard or Guidance Value												
Aluminum	--	266	240	71.7 J	70.1 J	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	317	301	80.3 J	82.9 J	81 J	82.4 J	100 J	99.8 J	73.2 J	72.3 J	40.8 J	40.9 J
Calcium	--	54400	50900	7430	7600	18800	19500	12100	12300	12000	12100	13800	14400
Chromium	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	28.8 UB	26 UB
Lead	25	2.2 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	20400	19700	5450	5760	5100	5250	5360	5440	7100	7170	8150	8680
Manganese	300	171	164	103	105	668	675	2380	2400	356	359	2810	2970
Mercury	0.7	0.39	0.35	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	40.6	38.7 J	12.2 J	11.8 J	18.7 J	17.9 J	40 U	40 U	40 U	40 U	40 U	40 U
Potassium	--	12400	12100	6930	5970	10300	9000	9340	9180	12200	11900	17600	17500
Sodium	20000	218000	219000	25500	25500	113000	113000	57800	58800	62900	63200	40500	41000
Zinc	2000	32.3	31.2	11 UB	11.2 J	33.1	34.5	20 U	20 U	20 U	20 U	20 U	20 U
Iron & Manganese	500	171	164	103	105	668	675	2380	2400	356	359	2838.8	2970

Footnotes/Qualifiers:
 ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated value
 UB Not detected base on blank results
 -- No standard
Exceeds NYSDEC Class GA Standard or Guidance Value

Table 3
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 11/4/24	LF-2 11/4/24	MW-05B 10/29/24	MW-06A 11/1/24	MW-06B 11/1/24	MW-06C 11/1/24	MW-06E 11/5/24	MW-06F 11/5/24	MW-08A 10/31/24	MW-08B 10/31/24	MW-09B 10/29/24	MW-09C 10/29/24	OBS-1 10/31/24
Units in mg/l														
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value													
Alkalinity, Total	---	78.2	1590	37.7	4	532	663	128	1 U	5.1	14.7	29.5	47.1	123
Alkalinity, Bicarbonate	---	78.2	1590	37.7	4	532	663	128	1 U	5.1	14.7	29.5	47.1	123
Alkalinity, Carbonate	---	1 UJ	5 UJ	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 U	1 UJ
Chloride	250	101 J	295 J	111	12.5 J	54 J	187 J	165	403	40.3 J	185 J	63.2	71.3	47.2 J
Cyanide	0.2	0.0075 J	0.0107	0.010 UJ	0.010 U	0.0135	0.010 U	0.0178 J	0.010 UJ	0.010 U	0.0107 U	0.010 UJ	0.010 UJ	0.0082 J
Hardness	---	100	193	89.6	9.99	213	184	99.2	220	41	67.9	52.3	59.2	68
Hexavalent Chromium	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Nitrogen, Ammonia	2	0.31	166	0.062 J	0.093 J	72.8	65.2	10.7	0.4	0.1 U	0.067 J	0.16	1.7	10
Nitrogen, Kjeldahl, Total	---	0.56	134	0.1 U	0.1 U	58.8	47.8	9.9	0.1 U	0.1 U	0.1 U	0.1 U	0.87	8.9
Nitrate	10	0.05 U	0.05 U	3	0.39	0.05 U	0.05 U	0.25	3.7	2	2.3	3.3	1.5	0.12
Nitrite	1	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.036 J	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U
Phenolics, Total	0.001	0.008 J	0.009 J	0.006 U	0.006 U	0.014 J	0.006 J	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Sulfate	250	25.8 J	4 J	21.7 J	8.1 J	13.3 J	1.6 J	79.7	5 U	31.1 J	33.8 J	17.2 J	17.5 J	20.5 J
Total Dissolved Solids	500	413	1800	337	48	558	1100	556	894	136	393	222	243	200

Footnotes/Qualifiers:
 mg/l Milligrams per liter
 U Compound was analyzed for but not detected
 UB Non-detect based on blank results
 J Estimated detection limit or value
 -- No standard
Exceeds NYSDEC Class GA Standard or Guidance Value

APPENDIX A

GROUNDWATER SAMPLING LOGS

**TOWN OF OYSTER BAY LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 11/4/2024

WELL ID: LF-1 Time On-site: _____ Time Off-site: _____
 SAMPLERS KR
 :

Depth of well (feet from top of casing) 102.50'
 Initial static water level (feet from top of casing)..... 44.67'
 Approximate Pump Inlet (feet from top of casing) 50'

Purging Method **Well Volume Calculation:**

Airlift	<u> </u>	Centrifugal	<u> </u>	2 in. casing:	<u> </u> ft. of water x 0.16 =	<u> </u> gallons
Bailer	<u> </u>	Pos. Displ.	<u> </u>	3 in. casing:	<u> </u> ft. of water x 0.36 =	<u> </u> gallons
Submersible Pump	<u> X </u>	Disposable Bladder Pump (Low Flow)	<u> </u>	6 in. casing:	<u>57.83</u> ft. of water x 1.47 =	<u>85</u> gallons

volume of water removed: 280 gal. >3 volumes: yes X no purged dry? yes no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	7.05	17.05	0.576	0	6.94	86
40	6.79	17.01	0.836	0	0.73	-68
80	6.77	17.09	0.839	0	0.87	-72
120	6.87	17.00	0.922	0	1.11	-105
160	6.88	17.01	0.938	0	1.18	-108
200	6.88	17.01	0.945	0	1.23	-109
240	6.89	17.02	0.956	0	0.88	-111
280	6.92	17.02	0.955	0	0.90	-112

Purging Rate: 2 GPM Purging Time: 140 minutes Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 3:00 p.m.

Method:	Analyses (Pace Analytical Laboratory)
<u> X </u> Submersible Pump	<u> X </u> VOCs
<u> X </u> In-Line Filter (Diss. Metals)	
<u> </u> Pos. Disp. Pump	<u> X </u> Total & Dissolved Metals
<u> </u> Disposable bailer	<u> </u> Leachate Parameters
<u> </u> Dedicated pump	

Observations

Weather/Temperature: Partly Cloudy 50-60 F
 Sample description: Clear, Leachate odor

Free Product? yes	<u> </u>	no	<u> X </u>	describe	<u> </u>
Sheen? yes	<u> </u>	no	<u> X </u>	describe	<u> </u>
Odor? yes	<u> X </u>	no	<u> </u>	describe	<u>Leachate odor</u>



**TOWN OF OYSTER BAY LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 11/4/2024

WELL ID: LF-2 Time On-site: _____ Time Off-site: _____
 SAMPLERS KR

Initial static water level (feet from top of casing)..... 52.28'
 Approximate Pump Inlet (feet from top of casing) 57'

Purging Method Well Volume Calculation:
 Airlift _____ Centrifugal _____ 2 in. casing: _____ ft. of water x 0.16 = _____ gallons
 Bailer _____ Pos. Displ. _____ 3 in. casing: _____ ft. of water x 0.36 = _____ gallons
 Submersible _____ Disposable _____ 6 in. casing: 50.72 ft. of water x 1.47 = 75 gallons
 Pump X Bladder Pump _____
 _____ (Low Flow) _____

volume of water removed: 240 gal. >3 volumes: yes X no _____ purged dry? yes _____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	7.26	17.18	4.93	34	5.71	-135
40	7.34	17.58	4.96	0	0.57	-173
80	7.34	17.59	5.05	0	0.90	-177
120	7.34	17.57	5.06	0	0.73	-176
160	7.36	17.59	5.10	0	0.76	-179
200	7.36	17.57	5.11	0	0.55	-179
240	7.36	17.58	5.11	0	0.55	-179

Purging Rate: 2 gpm Purging Time: 120 minutes Sampling Rate: _____
 0.1/min VOCs / 0.5/min Other Analytes

Sampling

Time of Sample Collection: 11:20 a.m.

Method: Analyses (Pace Analytical Laboratory)
X Submersible Pump X VOCs
X In-Line Filter (Diss. Metals) _____
 _____ Pos. Disp. Pump X Total & Dissolved Metals
 _____ Disposable bailer _____ Leachate
 _____ _____ X Parameters
 _____ Dedicated pump _____

Observations

Weather/Temperature: Partly Cloudy 50-60F
 Sample description: Yellow tint, leachate odor
 Free Product? yes _____ no X describe _____
 Sheen? yes _____ no _____ describe _____
 Odor? yes X no _____ describe leachate odor



**TOWN OF OYSTER BAY LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 10/29/2024

WELL ID: MW-05B Time On-site: _____ Time Off-site: _____
 SAMPLERS KR
 :

Depth of well (feet from top of casing) 117.00'
 Initial static water level (feet from top of casing)..... 72.51'
 Approximate Pump Inlet (feet from top of casing) 77'

Purging Method		Well Volume Calculation:	
Airlift	<u> </u>	Centrifugal	<u> </u>
Bailer	<u> </u>	Pos. Displ.	<u> </u>
Submersible	<u> </u>	Disposable	<u> </u>
Pump	<u>X</u>	Bladder Pump	<u> </u>
	<u> </u>	(Low Flow)	<u> </u>

2 in. casing: _____ ft. of water x 0.16 = _____ gallons
 3 in. casing: _____ ft. of water x 0.36 = _____ gallons
 4 in. casing: 44.49 ft. of water x 0.65 = 29 gallons

volume of water removed: _____ gal. >3 volumes: yes X no _____ purged dry? yes _____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.36	15.91	0.702	0	6.17	151
15	6.05	16.58	0.784	0	1.43	179
30	6.07	16.71	0.839	0	1.08	178
45	6.08	16.77	0.871	0	1.08	177
60	6.05	16.80	0.896	0	1.13	177
75	6.05	16.81	0.903	0	1.18	177
90	6.04	16.81	0.908	0	1.17	177

Purging Rate: 1.5 GPM Purging Time: 60 minutes Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
 Time of Sample Collection: 11:20 a.m.

Method:	Analyses (Pace Analytical Laboratory)
<u>X</u> Submersible Pump	<u>X</u> VOCs
<u>X</u> In-Line Filter (Diss. Metals)	
<u> </u> Pos. Disp. Pump	<u>X</u> Total & Dissolved Metals
<u> </u> Disposable bailer	Leachate
<u> </u> Dedicated pump	<u>X</u> Parameters

Observations

Weather/Temperature: Overcast, breezy 50-60 F
 Sample description: Clear, no odor
 Free Product? yes _____ no X describe _____
 Sheen? yes _____ no X describe _____
 Odor? yes _____ no X describe _____



**TOWN OF OYSTER BAY LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 11/1/2024

WELL ID: MW-06A Time On-site: _____ Time Off-site: _____
 SAMPLERS KR
 :

Depth of well (feet from top of casing) 100'
 Initial static water level (feet from top of casing)..... 95.03'
 Approximate Pump Inlet (feet from top of casing) 98'

Purging Method		Well Volume Calculation:	
Airlift	<u> </u>	Centrifugal	<u> </u>
Bailer	<u> </u>	Pos. Displ.	<u> </u>
Submersible	<u> </u>	Disposable	<u> </u>
Pump	<u>X</u>	Bladder Pump	<u> </u>
	<u> </u>	(Low Flow)	<u> </u>

2 in. casing: _____ ft. of water x 0.16 = _____ gallons
 3 in. casing: _____ ft. of water x 0.36 = _____ gallons
 4 in. casing: 4.97 ft. of water x 0.65 = 3.2 gallons

volume of water removed: _____ gal. >3 volumes: yes X no _____ purged dry? yes _____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	5.87	17.10	0.167	29	3.39	40
6	5.61	17.17	0.124	0	5.96	8
12	5.34	17.14	0.107	0	6.88	61
18	5.85	17.16	0.107	0	7.53	40
24	5.09	17.11	0.103	0	7.77	115
30	5.10	17.11	0.102	0	7.68	117

Purging Rate: 1.25 GPM Purging Time: 25 minutes Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 2:40 p.m.

Method:	Analyses (Pace Analytical Laboratory)
<u>X</u> Submersible Pump	<u>X</u> VOCs
<u>X</u> In-Line Filter (Diss. Metals)	
<u> </u> Pos. Disp. Pump	<u>X</u> Total & Dissolved Metals
<u> </u> Disposable bailer	Leachate
<u> </u> Dedicated pump	<u>X</u> Parameters

Observations

Weather/Temperature: Overcast, cool 60 F
 Sample description: Clear
 Free Product? yes _____ no X describe _____
 Sheen? yes _____ no X describe _____
 Odor? yes _____ no X describe _____



**TOWN OF OYSTER BAY LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 11/1/2024

WELL ID: MW-06B Time On-site: _____ Time Off-site: _____

SAMPLERS KR
:

Depth of well (feet from top of casing) 135'
Initial static water level (feet from top of casing)..... 95.25'
Approximate Pump Inlet (feet from top of casing) 97'

Purging Method		Well Volume Calculation:	
Airlift	_____ Centrifugal _____	2 in. casing:	_____ ft. of water x 0.16 = _____ gallons
Bailer	_____ Pos. Displ. _____	3 in. casing:	_____ ft. of water x 0.36 = _____ gallons
Submersible Pump	_____ Disposable Bladder Pump (Low Flow) _____	4 in. casing:	<u>39.75</u> ft. of water x 0.65 = <u>26</u> gallons
	<u>X</u>		

volume of water removed: 90 gal. >3 volumes: yes X no _____ purged dry? yes _____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.46	17.21	1.43	10	1.24	-75
15	6.81	17.40	2.01	18	0.37	-131
30	6.82	17.38	1.94	1.5	0.39	-135
45	6.81	17.35	1.99	4.6	0.56	-138
60	6.80	17.37	2.03	0	0.39	-137
75	6.80	17.38	2.03	0	0.35	-137
90	6.81	17.39	2.03	0	0.33	-138

Purging Rate: 1.5 GPM Purging Time: 60 minutes Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling Time of Sample Collection: 11:10 a.m.

Method:	Analyses (Pace Analytical Laboratory)
<u>X</u> Submersible Pump	<u>X</u> VOCs
<u>X</u> In-Line Filter (Diss. Metals)	
_____ Pos. Disp. Pump	<u>X</u> Total & Dissolved Metals
_____ Disposable bailer	Leachate Parameters
_____ Dedicated pump	<u>X</u>

Observations

Weather/Temperature: Overcast, cool 60 F
Sample description: Clear, leachate odor
Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes X no _____ describe Leachate odor



**TOWN OF OYSTER BAY LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 11/1/2024

WELL ID: MW-06C Time On-site: _____ Time Off-site: _____
 SAMPLERS KR
 :

Depth of well (feet from top of casing) 161'
 Initial static water level (feet from top of casing)..... 94.65'
 Approximate Pump Inlet (feet from top of casing) 99'

Purging Method		Well Volume Calculation:	
Airlift	_____	Centrifugal	_____
Bailer	_____	Pos. Displ.	_____
Submersible	_____	Disposable	_____
Pump	<u>X</u>	Bladder Pump	_____
	_____	(Low Flow)	_____

2 in. casing: _____ ft. of water x 0.16 = _____ gallons
 3 in. casing: _____ ft. of water x 0.36 = _____ gallons
 4 in. casing: 66.35 ft. of water x 0.65 = 43 gallons

volume of water removed: _____ gal. >3 volumes: yes X no _____ purged dry? yes _____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	7.25	17.48	2.69	0	0.59	-121
30	7.28	17.82	2.84	0	0.56	-146
60	7.28	17.90	2.92	0	0.36	-154
90	7.26	17.96	2.90	0	0.58	-157
120	7.29	17.97	2.93	0	0.54	-165
135	7.29	17.98	2.93	0	0.52	-166

Purging Rate: 1.5 GPM Purging Time: 90 minutes Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
 Time of Sample Collection: 1:20 p.m.

Method:	Analyses (Pace Analytical Laboratory)
<u>X</u> Submersible Pump	<u>X</u> VOCs
<u>X</u> In-Line Filter (Diss. Metals)	
_____ Pos. Disp. Pump	<u>X</u> Total & Dissolved Metals
_____ Disposable bailer	Leachate
_____ Dedicated pump	<u>X</u> Parameters

Observations

Weather/Temperature: Overcast, cool 60 F
 Sample description: Clear, leachate odor
 Free Product? yes _____ no X describe _____
 Sheen? yes _____ no X describe _____
 Odor? yes X no _____ describe Leachate odor



**TOWN OF OYSTER BAY LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 11/5/24

WELL ID: MW-06E Time On-site: _____ Time Off-site: _____
 SAMPLERS KR
 :

Depth of well (feet from top of casing) 251.00'
 Initial static water level (feet from top of casing)..... 96.10
 Approximate Pump Inlet (feet from top of casing) 101'

Purging Method		Well Volume Calculation:	
Airlift	<u> </u>	Centrifugal	<u> </u>
Bailer	<u> </u>	Pos. Displ.	<u> </u>
Submersible	<u> </u>	Disposable	<u> </u>
Pump	<u>X</u>	Bladder Pump	<u> </u>
	<u> </u>	(Low Flow)	<u> </u>

2 in. casing: _____ ft. of water x 0.16 = _____ gallons
 3 in. casing: _____ ft. of water x 0.36 = _____ gallons
 4 in. casing: 154.90 ft. of water x 0.65 = 100 gallons

volume of water removed: 342 gal. >3 volumes: yes X no _____ purged dry? yes _____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.67	16.73	1.40	12	8.90	-118
64	6.71	17.71	1.43	30	0.90	-123
128	6.53	17.76	1.46	34	0.47	-86
182	6.44	17.74	1.48	3	0.26	-65
246	6.40	17.83	1.52	0	0.48	-65
278	6.38	17.89	1.53	0	0.39	-63
310	6.37	17.76	1.53	0	0.23	-61
342	6.34	17.77	1.54	0	0.46	-57

Purging Rate: 1.5 GPM Purging Time: 240 mins Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 1:25 p.m.

Method:	Analyses (Pace Analytical Laboratory)
<u>X</u> Submersible Pump	<u>X</u> VOCs
<u>X</u> In-Line Filter (Diss. Metals)	
<u> </u> Pos. Disp. Pump	<u>X</u> Total & Dissolved Metals
<u> </u> Disposable bailer	Leachate
<u> </u> Dedicated pump	<u>X</u> Parameters

Observations

Weather/Temperature: Partly cloudy, mild 60-70 F
 Sample description: Clear, trace leachate odor
 Free Product? yes _____ no X describe _____
 Sheen? yes _____ no X describe _____
 Odor? yes X no _____ describe trace leachate



**TOWN OF OYSTER BAY LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 11/5/2024

WELL ID: MW-06F Time On-site: _____ Time Off-site: _____
 SAMPLERS KR
 :

Depth of well (feet from top of casing) 349.00'
 Initial static water level (feet from top of casing)..... 95.60'
 Approximate Pump Inlet (feet from top of casing) 101'

Purging Method		Well Volume Calculation:	
Airlift	_____ Centrifugal _____	2 in. casing:	_____ ft. of water x 0.16 = _____ gallons
Bailer	_____ Pos. Displ. _____	3 in. casing:	_____ ft. of water x 0.36 = _____ gallons
Submersible Pump	<u>X</u> Disposable Bladder Pump (Low Flow) _____	4 in. casing:	<u>253.40</u> ft. of water x 0.65 = <u>165</u> gallons

volume of water removed: 500 gal. >3 volumes: yes X no _____ purged dry? yes _____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	4.24	17.45	2.18	0	5.43	299
60	4.44	18.06	2.15	0	1.33	382
120	4.50	17.65	2.13	0	0.39	384
180	4.57	17.24	2.28	0	0.85	374
240	4.59	17.21	2.29	0	0.24	373
300	4.60	17.20	2.29	0	0.22	373
360	4.62	17.15	2.30	0	0.85	370
420	4.63	17.14	2.30	0	0.73	370
480	4.63	17.16	2.30	0	0.72	371
500	4.63	17.15	2.30	0	0.70	370

Purging Rate: 2 GPM Purging Time: 250 mins Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 6:15 p.m.
 Method: _____ Analyses (Pace Analytical Laboratory)
X Submersible Pump X VOCs
X In-Line Filter (Diss. Metals)
 _____ Pos. Disp. Pump X Total & Dissolved Metals
 _____ Disposable bailer X Leachate Parameters
 _____ Dedicated pump
 Weather/Temperature: Partly cloudy, mild 60--70 F
 Sample description: Clear, no odor
 Free Product? yes _____ no X describe _____
 Sheen? yes _____ no X describe _____
 Odor? yes _____ no X describe _____



**TOWN OF OYSTER BAY LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 10/31/2024

WELL ID: MW-08A Time On-site: _____ Time Off-site: _____
 SAMPLERS KR

Depth of well (feet from top of casing) 80'
 Initial static water level (feet from top of casing)..... 68.34'
 Approximate Pump Inlet (feet from top of casing) 78'

Purging Method		Well Volume Calculation:	
Airlift	<input type="checkbox"/>	Centrifugal	<input type="checkbox"/>
Bailer	<input type="checkbox"/>	Pos. Displ.	<input type="checkbox"/>
Submersible Pump	<input checked="" type="checkbox"/>	Disposable Bladder Pump (Low Flow)	<input type="checkbox"/>
		2 in. casing:	<u> </u> ft. of water x 0.16 = <u> </u> gallons
		3 in. casing:	<u> </u> ft. of water x 0.36 = <u> </u> gallons
		4 in. casing:	<u>11.19</u> ft. of water x 0.65 = <u>7</u> gallons

volume of water removed: 23 gal. >3 volumes: yes no purged dry? yes no

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	4.91	14.90	0.216	0	6.48	272
3.7	4.44	14.77	0.222	0	3.74	314
7.5	4.43	14.78	0.222	0	3.72	317
11.2	4.46	14.79	0.227	0	3.97	322
15.0	4.49	14.81	0.257	0	4.18	325
18.7	4.53	14.81	0.277	0	4.52	325
22.5	4.60	14.81	0.287	0	4.57	325

Purging Rate: 0.75 GPM Purging Time: 30 mins Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling Time of Sample Collection: 5:00 p.m.

Method:	Analyses (Pace Analytical Laboratory)
<input checked="" type="checkbox"/> Submersible Pump	<input checked="" type="checkbox"/> VOCs
<input checked="" type="checkbox"/> In-Line Filter (Diss. Metals)	
<input type="checkbox"/> Pos. Disp. Pump	<input checked="" type="checkbox"/> Total & Dissolved Metals
<input type="checkbox"/> Disposable bailer	Leachate
<input type="checkbox"/> Dedicated pump	<input checked="" type="checkbox"/> Parameters

Observations

Weather/Temperature: Sunny, warm 70- 75 F
 Sample description: Clear, no odor
 Free Product? yes no describe _____
 Sheen? yes no describe _____
 Odor? yes no describe _____



**TOWN OF OYSTER BAY LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 10/31/2024

WELL ID: MW-08B Time On-site: _____ Time Off-site: _____
 SAMPLERS KR
 :

Depth of well (feet from top of casing) 160'
 Initial static water level (feet from top of casing)..... 68.34'
 Approximate Pump Inlet (feet from top of casing) 75'

Purging Method		Well Volume Calculation:	
Airlift	<u> </u>	Centrifugal	<u> </u>
Bailer	<u> </u>	Pos. Displ.	<u> </u>
Submersible	<u> </u>	Disposable	<u> </u>
Pump	<u> X </u>	Bladder Pump	<u> </u>
	<u> </u>	(Low Flow)	<u> </u>

2 in. casing: _____ ft. of water x 0.16 = _____ gallons
 3 in. casing: _____ ft. of water x 0.36 = _____ gallons
 4 in. casing: 91.66 ft. of water x 0.65 = 60 gallons

volume of water removed: 200 gal. >3 volumes: yes X no purged dry? yes no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.32	15.26	0.970	0	1.80	194
34	5.99	14.92	1.19	0	1.30	199
68	5.99	14.92	1.19	0	0.70	199
102	5.82	14.81	1.02	0	0.59	212
170	5.71	14.77	1.01	0	0.38	219
200	5.72	14.75	1.01	0	0.16	220

Purging Rate: 1.7 GPM Purging Time: 118 mins Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
 Time of Sample Collection: 4:00 p.m.

Method:	Analyses (Pace Analytical Laboratory)
<u> X </u> Submersible Pump	<u> X </u> VOCs
<u> X </u> In-Line Filter (Diss. Metals)	
<u> </u> Pos. Disp. Pump	<u> X </u> Total & Dissolved Metals
<u> </u> Disposable bailer	Leachate
<u> </u> Dedicated pump	<u> X </u> Parameters

Observations

Weather/Temperature: Partly Sunny., warm 70-75 F
 Sample description: Clear, no odor
 Free Product? yes no X describe _____
 Sheen? yes no X describe _____
 Odor? yes no X describe _____



**TOWN OF OYSTER BAY LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 10/29/2024

WELL ID: MW-09B Time On-site: _____ Time Off-site: _____
SAMPLERS KR

Depth of well (feet from top of casing) 169.00'
Initial static water level (feet from top of casing)..... 91.28'
Approximate Pump Inlet (feet from top of casing) 97'

Purging Method		Well Volume Calculation:	
Airlift	_____ Centrifugal _____	2 in. casing:	_____ ft. of water x 0.16 = _____ gallons
Bailer	_____ Pos. Displ. _____	3 in. casing:	_____ ft. of water x 0.36 = _____ gallons
Submersible Pump	<u>X</u> Disposable Bladder Pump (Low Flow) _____	4 in. casing:	<u>77.72</u> ft. of water x 0.65 = <u>50</u> gallons

volume of water removed: 160 gal. >3 volumes: yes X no _____ purged dry? yes _____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.02	15.34	0.609	0	2.48	206
32	5.96	15.68	0.621	0	0.54	194
64	6.03	15.73	0.628	0	0.73	185
96	6.04	15.74	0.630	0	0.23	180
128	6.05	15.75	0.631	0	0.40	178
144	6.08	15.75	0.661	0	0.26	176
160	6.08	15.76	0.631	0	0.29	173

Purging Rate: 1.6 GPM Purging Time: 100 min Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 1:45 p.m.

Method:	Analyses (Pace Analytical Laboratory)
<u>X</u> Submersible Pump	<u>X</u> VOCs
<u>X</u> In-Line Filter (Diss. Metals)	
_____ Pos. Disp. Pump	<u>X</u> Total & Dissolved Metals
_____ Disposable bailer	_____ Leachate
_____ Dedicated pump	<u>X</u> Parameters

Observations

Weather/Temperature: Overcast, breezy, 50-60 F
Sample description: Clear, no odor
Free Product? yes _____ no X describe _____
Sheen? yes _____ no X describe _____
Odor? yes _____ no X describe _____



**TOWN OF OYSTER BAY LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 10/29/2024

WELL ID: MW-09C Time On-site: _____ Time Off-site: _____
 SAMPLERS KR
 :

Depth of well (feet from top of casing) 225.00'
 Initial static water level (feet from top of casing)..... 91.85'
 Approximate Pump Inlet (feet from top of casing) 97'

Purging Method		Well Volume Calculation:	
Airlift	_____	Centrifugal	_____
Bailer	_____	Pos. Displ.	_____
Submersible	_____	Disposable	_____
Pump	<u>X</u>	Bladder Pump	_____
	_____	(Low Flow)	_____

2 in. casing: _____ ft. of water x 0.16 = _____ gallons
 3 in. casing: _____ ft. of water x 0.36 = _____ gallons
 4 in. casing: 133.15 ft. of water x 0.65 = 86 gallons

volume of water removed: _____ gal. >3 volumes: yes X no _____ purged dry? yes _____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.02	15.08	0.124	0	10.26	274
40	5.31	15.72	0.384	0	3.81	276
80	5.84	16.26	0.588	0	0.45	235
120	6.09	16.10	0.668	0	0.44	208
160	6.13	16.32	0.678	0	0.26	200
200	6.09	16.38	0.690	0	0.26	196
240	6.07	16.38	0.693	0	0.44	193
280	6.08	16.33	0.693	0	0.25	190

Purging Rate: 2 GPM Purging Time: 140 mins Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 4:30 p.m.

Method:	Analyses (Pace Analytical Laboratory)
<u>X</u> Submersible Pump	<u>X</u> VOCs
<u>X</u> In-Line Filter (Diss. Metals)	
_____ Pos. Disp. Pump	<u>X</u> Total & Dissolved Metals
_____ Disposable bailer	Leachate
_____ Dedicated pump	<u>X</u> Parameters

Observations

Weather/Temperature: Overcast, breezy 50-60 F
 Sample description: Clear, no odor
 Free Product? yes _____ no X describe _____
 Sheen? yes _____ no X describe _____
 Odor? yes _____ no X describe _____



**TOWN OF OYSTER BAY LANDFILL SAMPLING
FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD**

SITE Town of Oyster Bay Landfill DATE 10/31/2024

WELL ID: OBS-1 Time On-site: _____ Time Off-site: _____
 SAMPLERS KR

Depth of well (feet from top of casing) 195.00'
 Initial static water level (feet from top of casing)..... 48.10'
 Approximate Pump Inlet (feet from top of casing) 54'

Purging Method		Well Volume Calculation:	
Airlift	<input type="checkbox"/>	Centrifugal	<input type="checkbox"/>
Bailer	<input type="checkbox"/>	Pos. Displ.	<input type="checkbox"/>
Submersible Pump	<input checked="" type="checkbox"/>	Disposable Bladder Pump (Low Flow)	<input type="checkbox"/>
		2 in. casing:	_____ ft. of water x 0.16 = _____ gallons
		3 in. casing:	_____ ft. of water x 0.36 = _____ gallons
		4 in. casing:	<u>146.90</u> ft. of water x 0.65 = <u>95</u> gallons

volume of water removed: 300 gal. >3 volumes: yes no purged dry? yes no

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	5.58	15.88	0.608	0	3.42	191
40	5.91	16.05	0.601	0	0.53	166
80	6.19	16.39	0.628	0	0.67	93
120	6.25	16.49	0.620	0	0.29	60
160	6.44	16.52	0.619	0	0.51	50
200	6.43	16.55	0.616	0	0.29	52
240	6.47	16.60	0.611	0	0.36	54
280	6.48	16.59	0.610	0	0.37	54
300	6.49	16.59	0.610	0	0.39	54

Purging Rate: 2 GPM Purging Time: 150 mins Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 12:25 PM

Method:	Analyses (Pace Analytical Laboratory)
<input checked="" type="checkbox"/> Submersible Pump	<input checked="" type="checkbox"/> VOCs
<input checked="" type="checkbox"/> In-Line Filter (Diss. Metals)	
<input type="checkbox"/> Pos. Disp. Pump	<input checked="" type="checkbox"/> Total & Dissolved Metals
<input type="checkbox"/> Disposable bailer	Leachate
<input type="checkbox"/> Dedicated pump	<input checked="" type="checkbox"/> Parameters

Observations

Weather/Temperature: Sunny 70-75 F
 Sample description: Clear, no odor
 Free Product? yes no describe _____
 Sheen? yes no describe _____
 Odor? yes no describe _____

Collected Blind Duplicate-1 at well OBS-1



APPENDIX B

CHAIN OF CUSTODY FORMS

LAB USE ONLY - Affix Workorder/Login Label Here



Scan QR Code for instructions

Pace® Location Requested (City/State): CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name: **D+B Engineers / Town & Systems**
 Street Address: **650 Miller Place, Syosset NY 11791**
 Phone #: **MATT RUSSO**
 E-Mail: **K.Russo@dbe-eng.com**
 Cc E-Mail: **MATT RUSSO**
 Invoice to: **MATT RUSSO**
 Invoice E-mail: **M.Russo@Tobay.net**
 Purchase Order # (if applicable):
 Quote #:

County/State origin of samples): **New York**
 Reportable Yes No

Regulatory Program (DW, RCRA, etc.) as applicable:
 Rush (Pre-approval required):
 Same Day 1 Day 2 Day 3 Day Other
 Date Results Requested: **Standard**
 Field Filtered (if applicable) Yes No
 Analysis: **As Level Metals**

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Sediment (SS), Other (OT), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Composite Start		Collected or Composite End		# Cont.	Residual Choice Result	Units
		Date	Time	Date	Time			
TR-010NS-10/29/24	AR	10/29/24	-	-	-	2	-	-
MW-05B-10/29/24	GW	10/29/24	11:20 am	-	-	1	-	-
MW-09B-10/29/24	GW	10/29/24	1:30 pm	-	-	1	-	-
MW-09C-10/29/24	GW	10/29/24	4:30 pm	-	-	1	-	-

Additional Instructions from Pace: **Sample bottles shipped w/ acid (F) We're only testing for metals + PCBs. See report to Lab for details - 2019-2020**
 Collected By: **Keith Lewis (D+B)**
 Printed Name: **Keith Lewis**
 Signature: **Keith Lewis**
 Received by/Company: **Signature**
 Date/Time: **10/29/24 5:40 pm**
 Received by/Company: **Signature**
 Date/Time: **10/29/24 5:40 pm**

Received by/Company: **Signature**
 Date/Time:
 Received by/Company: **Signature**
 Date/Time:
 Received by/Company: **Signature**
 Date/Time:
 Received by/Company: **Signature**
 Date/Time:
 Received by/Company: **Signature**
 Date/Time:

Pace® Location Requested (City/State): CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name: **D+B Engineers / Town & Systems**
 Street Address: **650 Miller Place, Syosset NY 11791**
 Phone #: **MATT RUSSO**
 E-Mail: **K.Russo@dbe-eng.com**
 Cc E-Mail: **MATT RUSSO**
 Invoice to: **MATT RUSSO**
 Invoice E-mail: **M.Russo@Tobay.net**
 Purchase Order # (if applicable):
 Quote #:

County/State origin of samples): **New York**
 Reportable Yes No

Regulatory Program (DW, RCRA, etc.) as applicable:
 Rush (Pre-approval required):
 Same Day 1 Day 2 Day 3 Day Other
 Date Results Requested: **Standard**
 Field Filtered (if applicable) Yes No
 Analysis: **As Level Metals**

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Sediment (SS), Other (OT), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Composite Start		Collected or Composite End		# Cont.	Residual Choice Result	Units
		Date	Time	Date	Time			
TR-010NS-10/29/24	AR	10/29/24	-	-	-	2	-	-
MW-05B-10/29/24	GW	10/29/24	11:20 am	-	-	1	-	-
MW-09B-10/29/24	GW	10/29/24	1:30 pm	-	-	1	-	-
MW-09C-10/29/24	GW	10/29/24	4:30 pm	-	-	1	-	-

Additional Instructions from Pace: **Sample bottles shipped w/ acid (F) We're only testing for metals + PCBs. See report to Lab for details - 2019-2020**
 Collected By: **Keith Lewis (D+B)**
 Printed Name: **Keith Lewis**
 Signature: **Keith Lewis**
 Received by/Company: **Signature**
 Date/Time: **10/29/24 5:40 pm**
 Received by/Company: **Signature**
 Date/Time: **10/29/24 5:40 pm**

Received by/Company: **Signature**
 Date/Time:
 Received by/Company: **Signature**
 Date/Time:
 Received by/Company: **Signature**
 Date/Time:
 Received by/Company: **Signature**
 Date/Time:

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Scan QR Code for instructions

Specify Container Size **
 (4) 15mL, (5) 100mL, (6) 40mL via, (7) Encore, (8) TerraCore, (9) 50mL, (10) Other
 *** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other
 Identify Container Preservative Type***
 Analysis Requested
 6 1 3 3 3 2 1 3 3
 4 1 5 1 2 1 1 2 1

Lab Use Only
 ActNum / Client ID:
 Table #:
 Profile / Template:
 Pridoz / Bottle Ord. ID:
 Proj. Mgr:

Lab Use Only	Sample Comment
TR-010NS-10/29/24	Keep TRN
MW-05B-10/29/24	Keep TRN
MW-09B-10/29/24	Keep TRN
MW-09C-10/29/24	Keep TRN

Customer Remarks / Special Conditions / Possible Hazards:
CVOCs tested for metals + PCBs

Thermo ID: **TH211**
 Connection ID: **103**
 Date/Time: **10/29/24 17:48**
 Delivered by: **Person**
 Date/Time:
 Page: **1** of **1**

Pace
 Pace Analytical Long Island NY
 575 Broad Hollow Rd, Melville, NY 11747

CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name: **Town of Oyster Bay**
 Street Address: **150 Miller Place**
 null
 Syosset, NY 11791

Contact/Report To: **Russo, Matt**
 Phone #: **NONE**
 E-Mail: **mrusso@tobays.net**
 Cc E-Mail: **KRobis@db-ny.com**

Customer Project #: **3617-09**
 Project Name: **Old Bethpage Landfill**

Site Collection Info/Facility (As applicable):
810 Use Page Landfill

Invoice To: **MATT RUSSO**
 Invoice E-Mail: **M.RUSSO@TOBAYS.NET**
 Purchase Order # (if applicable):
 Quote #:

Time Zone Collected: [] AK [] MT [] CT [] ET
 Regulatory Program (DW, RCRA, etc.) as applicable: **New York**
 Reportable [] Yes [] No

Rush (Pre-approval required):
 [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other

Date Results Requested: **5/14/24**
 Field Filtered (if applicable): **Yes**
 Analysis: **CR 6 / Dissolved Metals**

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Product (P), Soil/Solid (SS), Oil (OI), Wipe (WI), Tissue (TS), Biossary (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CS), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Results	Units
			Date	Time	Date	Time			
TRIP BLANK-10/31/24	AQ	-	10/31/24				2		
MW-08B-10/21/24	GW	G	10/21/24	9:00			12		
MW-08A-10/31/24	GW	G	10/31/24	5:00			12		
OBS-1-10/31/24	GW	G	10/31/24	12:00			12		
Blank Duplicate-10/31/24	GW	G	10/31/24	08:00			12		

Additional Instructions from Pace:
 Old Bethpage Landfill - dissolved metals; field filtered
 CR 6 - field filtered
 PACE CATEGORY B - DETERMINES

Collected By: **Kevin Robbins**
 Signature: *[Signature]*

Received by Company (Signature): *[Signature]*
 Date/Time: **10/31/24 5:50 pm**

Received by Company (Signature): *[Signature]*
 Date/Time: **10/31/24 5:50 pm**

Received by Company (Signature): *[Signature]*
 Date/Time: **10/31/24 5:50 pm**

Received by Company (Signature): *[Signature]*
 Date/Time: **10/31/24 5:50 pm**

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Scan QR Code for instructions

Specify Container Size **
 Identify Container Preservative Type***

Analysis Requested
 Dissolved Metals (field filtered)
 Dissolved Cr+6 (field filtered)
 Cyanide
 Alkalinity
 Cl, SO4, CO3, Cr6, HCO3

Lab Use Only
 Lab Use Only
 Table #: **6506**
 Profile / Template:
 Prelog / Bottle Ord. ID:
1177492
 Sample Comment

Customer Remarks / Special Conditions / Possible Hazards:
100% Recovery indicated, Total Dissolved Metals (A216)

Thermometer ID: **TH211**
 Obs. Temp. (°C): **7.3**
 Corrected Temp. (°C): **7.0**

Tracking Number:
19-SD-1013124

Delivered by: **Person** | Courier
 () Fedex () UPS () Other

Page: **1** of **1**

Company Name: Town of Oyster Bay
 Street Address: 150 Miller Place
 null
 Syosset, NY 11791
 Customer Project #: 3617-09
 Project Name: Old Bethpage Landfill
 2nd Sem. Annual Event 2024
 Site Collection Info/Facility ID (as applicable):
 Old Bethpage Landfill

Contact/Report To: Russo, Matt
 Phone #: NONE
 E-Mail: mrusso@tobays.net
 Cc E-Mail: Matt Russo K Robins @db-ny.com
 Invoice To: Mr Russo @ tobays.net
 Invoice E-Mail: Mr Russo @ tobays.net
 Purchase Order # (if applicable):
 Quote #:

County / State origin of sample(s): New York
 Reportable Yes No
 Regulatory Program (DW, RCRA, etc.) as applicable:
 Rush (Pre-approval required):
 Same Day 1 Day 2 Day 3 Day Other
 Field Filtered (if applicable): Yes No
 Analysis: Dissolved Metals + CRT6

Date Results Requested: Standard
 Matrix Codes (Insect in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OI), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CS), Leachate (LL), Biosolid (BS), Other (OT)
 Matrix *
 Composite Start Date Time
 Collected or Composite End Date Time
 # Cont. Results Units
 Res. Chlorine

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date Time	Collected or Composite End Date Time	# Cont.	Results	Units
TR-061A-11/1/24	GW	G	11/1/24 240pm	-	2	-	-
MW-06A-11/1/24	GW	G	11/1/24 120pm	-	12	-	-
MW-06C-11/1/24	GW	G	11/1/24 1100am	-	12	-	-
MW-06B-11/1/24	GW	G	11/1/24 1100am	-	12	-	-

Additional Instructions from Pace®:
 Old Bethpage Landfill - dissolved metals; field filtered
 Vape steel. please for all metals and CRT6
 send data to: Lab data @db-ny.com
 Received by (Company): Signature: Keith Robins
 Date/Time: 11/1/24 3:55 pm
 Received by (Company): Signature: ABB Pace LI
 Date/Time: 11/1/24 15:58

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 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields
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Specify Container Size **
 3 1 3 3 2 1 1 3 6
 Identify Container Preservative Type*:
 1 1 5 1 2 3 1 3 2 4
 Analysis Requested

Lab Use Only	Proj. Mgr:	ActNum / Client ID:	Table #:	Profile / Template:	Prelig / Bottle Ord. ID:	Preservation non-conformance identified for sample:
	Lori Beyer			6506	1177492	

Customer Remarks / Special Conditions / Possible Hazards:
 # Coolant: 7
 Thermometer ID: TX211
 Correction Factor (°C): +0.3
 Obs. Temp. (°C): 1.6
 Corrected Temp. (°C): 1.9
 O.P. Lab: W
 Tracking Number:
 Date/Time: 11/1/24 15:58
 Delivered by: In Person | Courier
 Date/Time:
 Date/Time:
 Date/Time:
 Page: of

Pace
 Pace® Location Requested (City/State):
 Pace Analytical Long Island NY
 575 Broad Hollow Rd, Melville, NY 11747

Company Name: Town of Oyster Bay
 Street Address: 150 Miller Place
 null
 Syosset, NY 11791

Customer Project #: 3617-09
 Project Name: Old Bethpage Landfill

Site Collection info/Facility ID (as applicable):
 old Bethpage landfill

Contact/Report To: Russo, Matt
 Phone #: NONE
 E-Mail: mrusso@tobays.net
 Cc E-Mail: RRobins@db-ply.com

Invoice To: Matt Russo
 Invoice E-Mail: MRUSSO@TOBAYS.NET
 Purchase Order # (if applicable):
 Quote #:

County / State origin of sample(s): New York

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable Yes No

Rush (Pre-approval required): DW PWSID # or WW Permit # as applicable: Yes No

Date Results Requested: 5/24/24
 Field Filtered (if applicable): Yes No
 Analytical Use/Matrix: CR16

Matrix Codes (insert in matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OU), Wipe (WP), Tissue (TS), Biossassy (B), Vapor (V), Surface Water (SW), Sediment (SE), Sludge (SL), Caulk (CK), Leachate (L), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start	Collected or Composite End	# Cont.	Res. Chlorine Results	Units
TRIP Blank-11/5/24	A4		11/5/24		2		
MAW-06 F-11/5/24	GW	F	11/5/24 6:50pm		12		
MAW-06 E-11/5/24	GW	F	11/5/24 12:50pm		12		

Additional Instructions from Pace®:
 Old Bethpage Landfill - dissolved metals; field filtered
 send daily to lab dthg @ db-ply.com
 Bottles shipped with (F) were for field use
 CR16

Collected By: (Printed Name) KENN RUBINS
 Signature: Keith Rubins

Date/Time: 11/6/2024 9:42
 Received by/Company: (Signature) [Signature]
 Received by/Company: (Signature)

Date/Time: 11/6/2024 9:42
 Received by/Company: (Signature) [Signature]
 Received by/Company: (Signature)

Date/Time: [Signature]
 Received by/Company: (Signature)

Date/Time: [Signature]
 Received by/Company: (Signature)

Date/Time: [Signature]
 Received by/Company: (Signature)

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Scan QR Code for instructions

Specify Container Size **
 Identify Container Preservative Type***
 Analysis Requested

Lab Use Only	Table #:	Profile / Template:	Prelog / Bottle Ord. ID:	Sample Comment
Proj. Mgr: Lori Beyer	6506	1177492		
AcctNum / Client ID:				

Alkalinity	Cyanide	Dissolved Cr+6 (field filtered)	Dissolved Metals (field filtered)	NH3, NO3, TN	No2, TDS	Phenolics by 420.1	Total Metals & Hardness	VOC by 8260
Cl, SO4, CO3, Cr6, HCO3								

Customer Remarks / Special Conditions / Possibly Hazards:
 VOCs, Leachate indicators Total + dissolved metals - CR16
 & Cooling 7
 Thermometer ID: T-1211
 Correction Factor (°C): +1.3
 OBL Temp (°C): 5.5
 Corrected Temp (°C): 5.8
 On Ice: W

Tracking Number:
 Date/Time: 11/6/24 9:42
 Delivered by: Person Courier
 FedEX UPS Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at <https://www.pacelabs.com/resource-library/resources/pace-terms-and-conditions/>

APPENDIX C

DATA VALIDATION CHECKLIST

DATA VALIDATION CHECKLIST

Project Name:	Old Bethpage Landfill		
Project Number:	3617-09		
Sample Date(s):	October 29 to November 4, 2024		
Sample Team:	Keith Robins		
Matrix/Number of Samples:	<u>Water/ 11</u> <u>Field Duplicates/ 1</u> <u>Trip Blanks / 4</u> <u>Field Blanks/ 1</u>		
Analyzing Laboratory:	Pace Analytical, Melville, NY and Phenolics were subcontracted to Alpha Analytical		
Analyses:	<u>Volatile Organic Compounds (VOCs):</u> by SW846 8260C <u>Metals:</u> Total and dissolved by USEPA 200.7 and mercury by USEPA 245.1 <u>General Chemistry:</u> Alkalinity (SM2320B), Hardness (SM2340B), Total Dissolved Solids (SM 2540C), Hexavalent Chromium (SM22 3500), Chloride (SM22 4500), Sulfate (USEPA 300.0), Total Kjeldahl Nitrogen (TKN) (USEPA 351.2), Nitrate-Nitrite and Nitrite (USEPA 353.2), Ammonia (SM22 4500), Phenolics (USEPA 420.1), and Cyanide (SM22 4500)		
Laboratory Report No:	70319475 (L2465006)	Date:	12/19/2024

ANALYTICAL DATA PACKAGE DOCUMENTATION GENERAL INFORMATION

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Sample collection date		X		X	
5. Laboratory sample received date		X		X	
6. Sample analysis date		X		X	
7. Copy of chain-of-custody form signed by Lab sample custodian		X		X	
8. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

Comments:

A validation was conducted on the data package and any applicable qualification of the data was determined using the USEPA National Functional Guidelines of Organic Data Review, November 2020, or USEPA National Functional Guidelines of Inorganic Data Review, November 2020, method performance criteria, and D&B Engineers and Architects, P.C. professional judgment. The qualification of data discussed within this data validation checklist did not impact the usability of the sample results.

**Custody Numbers:70319475
SAMPLE AND ANALYSIS LIST**

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis				
				VOC	SVOC	PCB	MET	MISC
TRIP BLANK	70319475001	10/29/2024		X				
MW-05B	70319475002-3	10/29/2024		X			X	X
MW-09B	70319475004-5	10/29/2024		X			X	X
MW-09C	70319475006-7	10/29/2024		X			X	X
TRIP BLANK	70319475008	10/31/2024		X				
MW-08A	70319475009-10	10/31/2024		X			X	X
MW-08B	70319475011-12	10/31/2024		X			X	X
OBS-1	70319475013-14	10/31/2024		X			X	X
BLIND DUPLICATE-1	70319475015-16	10/31/2024	OBS-1	X			X	X
TRIP BLANK	70319475017	11/1/2024		X				
MW-06A	70319475018-19	11/1/2024		X			X	X
MW-06C	70319475020-21	11/1/2024		X			X	X
MW-06B	70319475022-23	11/1/2024		X			X	X
TRIP BLANK	70319475024	11/4/2024		X				
LF-2	70319475025-26	11/4/2024		X			X	X
LF-1	70319475027-28	11/4/2024		X			X	X
FIELD BLANK	70319475029-30	11/4/2024		X			X	X

**ORGANIC ANALYSES
VOCS**

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks		X		X	
C. Field blanks		X		X	
3. Matrix spike (MS) & MS duplicate %R		X	X		
4. Duplicate RPD		X		X	
5. Laboratory control sample (LCS) %R		X	X		
6. Surrogate spike recoveries		X		X	
7. Field duplicate		X		X	

VOCs - volatile organic compounds

%R - percent recovery

RPD - relative percent difference

Comments:

The performance was acceptable, except the following:

- 3&5. The %R was above the QC limit in the LCS, MS, and/or MSD for toluene, m&p-xylene, and xylene (total) associated with the TRIP BLANK, MW-05B, and MW-09B. No qualification of the data was necessary.

**INORGANIC ANALYSES
METALS**

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X	X		
B. Field blanks		X	X		
3. Laboratory control samples (LCS) & LCS duplicate %R & RPD		X		X	
4. Spike sample %R		X	X		
5. Duplicate RPD		X		X	
6. Total verse dissolved results		X		X	
7. Field duplicate		X		X	

%R - percent recovery

%D - percent difference

RPD - relative percent difference

Comments:

The performance was acceptable, except the following:

2. The following metals were detected in the blanks: total potassium, total and dissolved calcium, total and dissolved iron, and total zinc. The following were qualified as non-detect (UB): total potassium in sample MW-06A; total zinc in sample MW-08A; and total and dissolved iron in sample OBS-1.

4. The %R was above the QC limit in the spike for total mercury associated with sample MW-08A, MW-08B, OBS-1, BLIND DUPLICATE-1, MW-06A, MW-06C, MW-06B, LF-2, and LF-1. No qualification of the data was necessary.

**INORGANIC ANALYSES
GENERAL CHEMISTRY**

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks		X		X	
3. Laboratory spike %R		X	X		
4. Laboratory duplicate RPD		X	X		
5. Matrix spike %R		X	X		
6. Field duplicate		X		X	

%R percent recovery

RPD - relative percent difference

%D – percent difference

RSD - relative standard deviation

Comments:

The performance was acceptable, except the following:

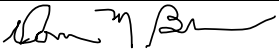
4. The RPD was above the QC limit in the duplicate for cyanide associated with samples MW-05B, MW-09B, and MW-09C. It was qualified as estimated (J/UJ) in associated samples.

- 3&5. The LCS and/or MS %R was below the QC limit in the matrix spike for alkalinity, carbonate (CaCO₃) associated with samples MW-08A, MW-08B, OBS-1, BLIND DUPLICATE-1, MW-06A, MW-06C, MW-06B, LF-1, LF-2, and FIELD BLANK; chloride associated with samples MW-08A, MW-08B, OBS-1, BLIND DUPLICATE-1, MW-06A, MW-06C, MW-06B, LF-2, LF-1, and FIELD BLANK; nitrite associated with samples MW-05B, MW-09B, MW-09C, LF-2, LF-1, and FIELD BLANK and sulfate associated with samples MW-05B, MW-09B, MW-09C, MW-06A, MW-06C, MW-06B, LF-1, and FIELD BLANK. These compounds were qualified as estimated (J/UJ) in associated samples.

The %R was above the QC limit in the matrix spike for sulfate associated with samples MW-08A, MW-08B, OBS-1, and BLIND DUPLICATE-1. It was qualified as estimated (J) in the associated samples.

**DATA VALIDATION AND
QUALIFICATION SUMMARY**
Laboratory Numbers:70319475

<u>Sample ID</u>	<u>Analyte(s)</u>	<u>Qualifier</u>	<u>Reason(s)</u>
<u>VOCs</u>			
No qualification of the data was necessary.			
<u>Metals</u>			
MW-06A	Total potassium	UB	Detected in the Blanks
MW-08A	Total zinc		
OBS-1	Total and dissolved iron		
<u>General Chemistry</u>			
MW-05B, MW-09B, and MW-09C	Cyanide	J/UJ	The RPD was above QC limit in the laboratory duplicate
MW-08A, MW-08B, OBS-1, BLIND DUPLICATE-1, MW-06A, MW-06C, MW-06B, LF-1, LF-2, and FIELD BLANK	Alkalinity, carbonate (CaCO ₃)	J/UJ	The %R was below the QC limit in the LCS and/or matrix spike
MW-08A, MW-08B, OBS-1, BLIND DUPLICATE-1, MW-06A, MW-06C, MW-06B, LF-2, LF-1, and FIELD BLANK	Chloride		
MW-05B, MW-09B, MW-09C, LF-2, LF-1, and FIELD BLANK	Nitrite		
MW-05B, MW-09B, MW-09C, MW-06A, MW-06C, MW-06B, LF-1, and FIELD BLANK	Sulfate		
MW-08A, MW-08B, OBS-1, and BLIND DUPLICATE-1	Sulfate	J	The %R was above the QC limit in the matrix spike

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 12/20/2024
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECKLIST

Project Name:	Old Bethpage Landfill		
Project Number:	3617-09		
Sample Date(s):	Nov 5, 2024		
Sample Team:	Keith Robins		
Matrix/Number of Samples:	<u>Water/ 2</u> <u>Field Duplicates/ 0</u> <u>Trip Blanks / 1</u> <u>Field Blanks/ 0</u>		
Analyzing Laboratory:	Pace Analytical, Melville, NY and Phenolics were subcontracted to Microbac Laboratories, Inc., Marietta, OH		
Analyses:	<u>Volatile Organic Compounds (VOCs):</u> by SW846 8260C <u>Metals:</u> Total and dissolved by USEPA 200.7 and mercury by USEPA 245.1 <u>General Chemistry:</u> Alkalinity (SM2320B), Hardness (SM2340B), Total Dissolved Solids (SM 2540C), Hexavalent Chromium (SM22 3500), Chloride (SM22 4500), Sulfate (USEPA 300.0), Total Kjeldahl Nitrogen (TKN) (USEPA 351.2), Nitrate-Nitrite and Nitrite (USEPA 353.2), Ammonia (SM22 4500), Phenolics (USEPA 420.1), and Cyanide (SM22 4500)		
Laboratory Report No:	70320463 (M4F0238)	Date:	11/25/2024

ANALYTICAL DATA PACKAGE DOCUMENTATION GENERAL INFORMATION

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Sample collection date		X		X	
5. Laboratory sample received date		X		X	
6. Sample analysis date		X		X	
7. Copy of chain-of-custody form signed by Lab sample custodian		X		X	
8. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

Comments:

A validation was conducted on the data package and any applicable qualification of the data was determined using the USEPA National Functional Guidelines of Organic Data Review, November 2020, or USEPA National Functional Guidelines of Inorganic Data Review, November 2020, method performance criteria, and D&B Engineers and Architects, P.C. professional judgment. The qualification of data discussed within this data validation checklist did not impact the usability of the sample results.

**Custody Numbers:70320463
SAMPLE AND ANALYSIS LIST**

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis				
				VOC	SVOC	PCB	MET	MISC
TRIP BLANK	70320463001	11/5/2024		X				
MW-06E	70320463002-3	11/5/2024		X			X	X
MW-06F	70320463004-5	11/5/2024		X			X	X

**ORGANIC ANALYSES
VOCS**

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks		X		X	
C. Field blanks		X		X	
3. Matrix spike (MS) & MS duplicate %R		X		X	
4. Duplicate RPD		X		X	
5. Laboratory control sample (LCS) %R		X		X	
6. Surrogate spike recoveries		X		X	
7. Field duplicate					X

VOCs - volatile organic compounds

%R - percent recovery

RPD - relative percent difference

Comments:

The performance was acceptable.

**INORGANIC ANALYSES
METALS**

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X			
2. Blanks					
A. Method blanks		X			
B. Field blanks		X			
3. Laboratory control samples (LCS) & LCS duplicate %R & RPD		X			
4. Spike sample %R		X			
5. Duplicate RPD		X			
6. Total verse dissolved results		X			
7. Field duplicate		X			

%R - percent recovery

%D - percent difference

RPD - relative percent difference

Comments:

The performance was acceptable, except the following:

- The following metals were detected in the blanks: total potassium, total and dissolved calcium, total and dissolved iron, and total zinc. Total zinc was qualified as non-detect (UB) in sample MW-06E.

**INORGANIC ANALYSES
GENERAL CHEMISTRY**

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks		X	X		
3. Laboratory spike %R		X	X		
4. Laboratory duplicate RPD		X		X	
5. Matrix spike %R		X	X		
6. Field duplicate		X		X	

%R percent recovery

RPD - relative percent difference

%D – percent difference

RSD - relative standard deviation

Comments:

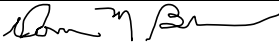
The performance was acceptable, except the following:

4. The RPD was above the QC limit in the duplicate for cyanide associated with all samples. It was qualified as estimated (J/UJ) in associated samples.

- 3&5. The LCS and MS %Rs were below the QC limit in the matrix spike for alkalinity, carbonate (CaCO₃) associated with all samples. It was qualified as an estimated detection limit (UJ) in all samples.

**DATA VALIDATION AND
QUALIFICATION SUMMARY**
Laboratory Numbers:70320463

<u>Sample ID</u>	<u>Analyte(s)</u>	<u>Qualifier</u>	<u>Reason(s)</u>
<u>VOCs</u>			
No qualification of the data was necessary.			
<u>Metals</u>			
MW-06E	Total Zinc	UB	Detected in the Blanks
<u>General Chemistry</u>			
All samples	Cyanide	J/UJ	The RPD was above QC limit in the laboratory duplicate
All samples	Alkalinity, carbonate (CaCO ₃)	UJ	The %Rs were below the QC limit in the LCS and matrix spike

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 12/20/2024
VALIDATION PERFORMED BY SIGNATURE:	

APPENDIX D

LABORATORY DATA REPORTS



November 22, 2024

Robbin Petrella
Dvirka & Bartilucci
330 Crossways Park Drive
Woodbury, NY 11797

RE: Project: OLD BETHPAGE LANDFILL 10/29
Pace Project No.: 70319475

Dear Robbin Petrella:

Enclosed are the analytical results for sample(s) received by the laboratory between October 29, 2024 and November 04, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lori A. Beyer
lori.beyer@pacelabs.com
516-370-6014
Project Manager

Enclosures

cc: Donna Brown, D&B Engineers and Architects, P.C.
Tom Fox, D&B Engineers and Architects, P.C.
John Gerlach, Lockwood Kessler & Bartlett



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Texas Certification #: T104704582

Florida Certification #: E871198

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Date: November 22, 2024

The Blind Duplicate was left off the chain of custody by the client. Analysis was authorized for all tests.

Bottles fro 11/1/24 were labeled MW-08A. The cliient confirms that the chain of custody is correct and the sample is MW-06A.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Town of Oyster Bay

Date: November 22, 2024

General Information:

13 samples were analyzed for EPA 200.7 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 369495

B: Analyte was detected in the associated method blank.

- BLANK for HBN 369495 [MPRP/190 (Lab ID: 1930929)]
 - Potassium

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 368730

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70319392001,70319480002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1925892)
 - Calcium
 - Magnesium
 - Potassium
 - Sodium

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Town of Oyster Bay

Date: November 22, 2024

Batch Comments:

The post digestion spike for sample 70319480002 (PDS 1926030) did not meet acceptance criteria for Silver and Sodium.

- QC Batch: 368770

The post digestion spike for sample 70319475009 (PDS 1931135) did not meet acceptance criteria for Sodium.

- QC Batch: 369528

The serial dilution for sample 70319480002 (SD 1926031) did not meet acceptance criteria for Aluminum, Arsenic, Potassium and Antimony.

- QC Batch: 368770

The serial dilution for sample 70319475009 (SD 1931136) did not meet acceptance criteria for Potassium.

- QC Batch: 369528

The post digestion spike for sample 70319392001 (PDS 1926032) did not meet acceptance criteria for Silver, Calcium, Potassium, Magnesium and Sodium.

- QC Batch: 368770

The serial dilution for sample 70319475009 (SD 1931138) did not meet acceptance criteria for Potassium.

- QC Batch: 369528

The serial dilution for sample 70319392001 (SD 1926033) did not meet acceptance criteria for Silver, Aluminum, Antimony and Selenium.

- QC Batch: 368770

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29
Pace Project No.: 70319475

Method: EPA 200.7
Description: 200.7 Metals, Dissolved
Client: Town of Oyster Bay
Date: November 22, 2024

General Information:

13 samples were analyzed for EPA 200.7 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 369359

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70319475010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1929976)
- Sodium, Dissolved

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

The serial dilution for sample 70319475010 (SD 1929977) did not meet acceptance criteria for Zinc.

- QC Batch: 369359

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Method: SM22 2340B

Description: 2340B Hardness, Total (Calc.)

Client: Town of Oyster Bay

Date: November 22, 2024

General Information:

13 samples were analyzed for SM22 2340B by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Method: EPA 245.1

Description: 245.1 Mercury

Client: Town of Oyster Bay

Date: November 22, 2024

General Information:

13 samples were analyzed for EPA 245.1 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 369720

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70319475009,70319475011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1932362)

- Mercury

QC Batch: 370181

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70319475013,70319475015

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1934773)

- Mercury

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29
Pace Project No.: 70319475

Method: EPA 245.1
Description: 245.1 Mercury, Dissolved
Client: Town of Oyster Bay
Date: November 22, 2024

General Information:

13 samples were analyzed for EPA 245.1 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Method: EPA 8260C/5030C

Description: 8260C Volatile Organics

Client: Town of Oyster Bay

Date: November 22, 2024

General Information:

17 samples were analyzed for EPA 8260C/5030C by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: 368696

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- LCS (Lab ID: 1925781)
 - Chloroethane
- MS (Lab ID: 1926168)
 - Chloroethane
- MSD (Lab ID: 1926169)
 - Chloroethane

IL: This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.

- BLANK (Lab ID: 1925780)
 - Dichlorodifluoromethane
- LCS (Lab ID: 1925781)
 - Dichlorodifluoromethane
- MS (Lab ID: 1926168)
 - Dichlorodifluoromethane
- MSD (Lab ID: 1926169)
 - Dichlorodifluoromethane
- MW-05B_10/29/24 (Lab ID: 70319475002)
 - Dichlorodifluoromethane
- MW-09B_10/29/24 (Lab ID: 70319475004)
 - Dichlorodifluoromethane
- Trip Blank_10/29/24 (Lab ID: 70319475001)
 - Dichlorodifluoromethane

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 368696

v1: The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- LCS (Lab ID: 1925781)
 - Toluene
- MS (Lab ID: 1926168)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Method: EPA 8260C/5030C

Description: 8260C Volatile Organics

Client: Town of Oyster Bay

Date: November 22, 2024

QC Batch: 368696

v1: The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- Toluene
- MSD (Lab ID: 1926169)
- Toluene

QC Batch: 369765

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- BLANK (Lab ID: 1932493)
 - Dichlorodifluoromethane
 - Vinyl chloride
- BLIND DUPLICATE_10/31/30 (Lab ID: 70319475015)
 - Dichlorodifluoromethane
 - Vinyl chloride
- DUP (Lab ID: 1933036)
 - Dichlorodifluoromethane
 - Vinyl chloride
- FIELD BLANK_11/4/24 (Lab ID: 70319475029)
 - Dichlorodifluoromethane
 - Vinyl chloride
- LCS (Lab ID: 1932494)
 - Dichlorodifluoromethane
 - Vinyl chloride
- LF-1_11/4/24 (Lab ID: 70319475027)
 - Dichlorodifluoromethane
 - Vinyl chloride
- LF-2_11/4/24 (Lab ID: 70319475025)
 - Dichlorodifluoromethane
 - Vinyl chloride
- MW-06A_11/1/24 (Lab ID: 70319475018)
 - Dichlorodifluoromethane
 - Vinyl chloride
- MW-06B_11/1/28 (Lab ID: 70319475022)
 - Dichlorodifluoromethane
 - Vinyl chloride
- MW-06C_11/1/26 (Lab ID: 70319475020)
 - Dichlorodifluoromethane
 - Vinyl chloride
- MW-08A_10/31/26 (Lab ID: 70319475011)
 - Dichlorodifluoromethane
 - Vinyl chloride
- MW-09C_10/29/24 (Lab ID: 70319475006)
 - Dichlorodifluoromethane
 - Vinyl chloride
- TRIP BLANK-10/31/24 (Lab ID: 70319475008)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Method: EPA 8260C/5030C

Description: 8260C Volatile Organics

Client: Town of Oyster Bay

Date: November 22, 2024

QC Batch: 369765

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- Dichlorodifluoromethane
- Vinyl chloride
- TRIP BLANK_11/1/2024 (Lab ID: 70319475017)
 - Dichlorodifluoromethane
 - Vinyl chloride
- TRIP BLANK_11/4/24 (Lab ID: 70319475024)
 - Dichlorodifluoromethane
 - Vinyl chloride

QC Batch: 370017

v1: The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- LCS (Lab ID: 1933823)
 - Bromoform
 - Dibromochloromethane
 - Tetrachloroethene
- MS (Lab ID: 1934260)
 - Bromoform
 - Dibromochloromethane
- MSD (Lab ID: 1934261)
 - Bromoform
 - Dibromochloromethane
 - Tetrachloroethene

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- BLANK (Lab ID: 1933822)
 - Dichlorodifluoromethane
 - Vinyl chloride
- LCS (Lab ID: 1933823)
 - Dichlorodifluoromethane
 - Vinyl chloride
- MS (Lab ID: 1934260)
 - Dichlorodifluoromethane
 - Tetrachloroethene
 - Vinyl chloride
- MSD (Lab ID: 1934261)
 - Dichlorodifluoromethane
 - Vinyl chloride
- MW-08B_10/31/24 (Lab ID: 70319475009)
 - Dichlorodifluoromethane
 - Vinyl chloride
- OBS-1_10/31/28 (Lab ID: 70319475013)
 - Dichlorodifluoromethane
 - Vinyl chloride

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Method: EPA 8260C/5030C

Description: 8260C Volatile Organics

Client: Town of Oyster Bay

Date: November 22, 2024

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 368696

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 1925781)
 - Toluene
 - m&p-Xylene

LS: Analyte recovery in the laboratory control sample (LCS) was outside QC limits for one or more of the constituent analytes used in the calculated result.

- LCS (Lab ID: 1925781)
 - Xylene (Total)

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 368696

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70319450002

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1926168)
 - m&p-Xylene

MS: Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

- MS (Lab ID: 1926168)
 - Xylene (Total)

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Method: SM22 2320B

Description: 2320B Alkalinity

Client: Town of Oyster Bay

Date: November 22, 2024

General Information:

12 samples were analyzed for SM22 2320B by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 370763

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 1938712)
- Alkalinity, Carbonate (CaCO₃)

QC Batch: 371009

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 1940121)
- Alkalinity, Carbonate (CaCO₃)

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 370763

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70320704001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1938714)
- Alkalinity, Carbonate (CaCO₃)

QC Batch: 371009

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70319475018

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1940123)
- Alkalinity, Carbonate (CaCO₃)

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Method: SM22 2320B

Description: 2320B Alkalinity

Client: Town of Oyster Bay

Date: November 22, 2024

General Information:

2 samples were analyzed for SM22 2320B by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 370434

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70321451001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1936911)
- Alkalinity, Carbonate (CaCO₃)

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Method: SM22 2540C

Description: 2540C Total Dissolved Solids

Client: Town of Oyster Bay

Date: November 22, 2024

General Information:

13 samples were analyzed for SM22 2540C by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Method: SM22 3500-Cr B

Description: Chromium, Hexavalent

Client: Town of Oyster Bay

Date: November 22, 2024

General Information:

26 samples were analyzed for SM22 3500-Cr B by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29
Pace Project No.: 70319475

Method: EPA 300.0
Description: 300.0 IC Anions 28 Days
Client: Town of Oyster Bay
Date: November 22, 2024

General Information:

13 samples were analyzed for EPA 300.0 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 369985

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70319392001,70319475004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1933675)
- Sulfate

QC Batch: 370851

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70319721001,70320319002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1939341)
- Sulfate

QC Batch: 371224

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70320338003,70321420001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1942005)
- Sulfate

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Method: EPA 351.2

Description: 351.2 Total Kjeldahl Nitrogen

Client: Town of Oyster Bay

Date: November 22, 2024

General Information:

13 samples were analyzed for EPA 351.2 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂/NO₃ pres.

Client: Town of Oyster Bay

Date: November 22, 2024

General Information:

13 samples were analyzed for EPA 353.2 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29
Pace Project No.: 70319475

Method: EPA 353.2
Description: 353.2 Nitrogen, NO2
Client: Town of Oyster Bay
Date: November 22, 2024

General Information:

13 samples were analyzed for EPA 353.2 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 368557

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70319460002,70320070002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1929023)
- Nitrite as N

QC Batch: 369219

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70320089001,70320137001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1929034)
- Nitrite as N

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29
Pace Project No.: 70319475

Method: SM22 4500-CN-E
Description: SM 4500 CNE Cyanide, Total
Client: Town of Oyster Bay
Date: November 22, 2024

General Information:

13 samples were analyzed for SM22 4500-CN-E by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with SM20/22 4500-CN-C with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 368673

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1925564)
- Cyanide

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Method: SM22 4500-Cl-E

Description: 4500 Chloride

Client: Town of Oyster Bay

Date: November 22, 2024

General Information:

13 samples were analyzed for SM22 4500-Cl-E by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 369486

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70320076001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1930895)
- Chloride

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/29
Pace Project No.: 70319475

Method: SM22 4500 NH3 H
Description: 4500 Ammonia Water
Client: Town of Oyster Bay
Date: November 22, 2024

General Information:

13 samples were analyzed for SM22 4500 NH3 H by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: Trip Blank_10/29/24	Lab ID: 70319475001	Collected: 10/29/24 00:00	Received: 10/29/24 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		10/30/24 20:50	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		10/30/24 20:50	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		10/30/24 20:50	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		10/30/24 20:50	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		10/30/24 20:50	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/30/24 20:50	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		10/30/24 20:50	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		10/30/24 20:50	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		10/30/24 20:50	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		10/30/24 20:50	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		10/30/24 20:50	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/30/24 20:50	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		10/30/24 20:50	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/30/24 20:50	75-71-8	IL
1,1-Dichloroethane	<1.0	ug/L	1.0	1		10/30/24 20:50	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/30/24 20:50	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		10/30/24 20:50	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/30/24 20:50	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/30/24 20:50	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/30/24 20:50	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		10/30/24 20:50	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		10/30/24 20:50	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		10/30/24 20:50	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		10/30/24 20:50	127-18-4	
Toluene	<1.0	ug/L	1.0	1		10/30/24 20:50	108-88-3	L1
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/30/24 20:50	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		10/30/24 20:50	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		10/30/24 20:50	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		10/30/24 20:50	1330-20-7	LS
m&p-Xylene	<2.0	ug/L	2.0	1		10/30/24 20:50	179601-23-1	L1
o-Xylene	<1.0	ug/L	1.0	1		10/30/24 20:50	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	84	%	80-120	1		10/30/24 20:50	17060-07-0	
4-Bromofluorobenzene (S)	96	%	80-120	1		10/30/24 20:50	460-00-4	
Toluene-d8 (S)	101	%	80-120	1		10/30/24 20:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-05B_10/29/24	Lab ID: 70319475002	Collected: 10/29/24 11:20	Received: 10/29/24 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum	<200	ug/L	200	1	10/31/24 07:08	10/31/24 16:26	7429-90-5	
Barium	72.6J	ug/L	200	1	10/31/24 07:08	10/31/24 16:26	7440-39-3	
Calcium	21300	ug/L	200	1	10/31/24 07:08	10/31/24 16:26	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	10/31/24 07:08	10/31/24 16:26	7440-47-3	
Copper	<25.0	ug/L	25.0	1	10/31/24 07:08	10/31/24 16:26	7440-50-8	
Iron	<100	ug/L	100	1	10/31/24 07:08	10/31/24 16:26	7439-89-6	
Lead	<5.0	ug/L	5.0	1	10/31/24 07:08	10/31/24 16:26	7439-92-1	
Magnesium	8850	ug/L	200	1	10/31/24 07:08	10/31/24 16:26	7439-95-4	
Manganese	3620	ug/L	10.0	1	10/31/24 07:08	10/31/24 16:26	7439-96-5	
Nickel	11.0J	ug/L	40.0	1	10/31/24 07:08	10/31/24 16:26	7440-02-0	
Potassium	12200	ug/L	5000	1	10/31/24 07:08	10/31/24 16:26	7440-09-7	
Sodium	81500	ug/L	5000	1	10/31/24 07:08	10/31/24 16:26	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B)	89600	ug/L	830	1	10/31/24 07:08	10/31/24 16:26		
Zinc	<20.0	ug/L	20.0	1	10/31/24 07:08	10/31/24 16:26	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	89600	ug/L	830	1		10/31/24 16:26		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/06/24 07:16	11/06/24 16:23	7439-97-6	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		10/30/24 21:15	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		10/30/24 21:15	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		10/30/24 21:15	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		10/30/24 21:15	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		10/30/24 21:15	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/30/24 21:15	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		10/30/24 21:15	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		10/30/24 21:15	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		10/30/24 21:15	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		10/30/24 21:15	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		10/30/24 21:15	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/30/24 21:15	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		10/30/24 21:15	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/30/24 21:15	75-71-8	IL
1,1-Dichloroethane	<1.0	ug/L	1.0	1		10/30/24 21:15	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/30/24 21:15	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		10/30/24 21:15	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/30/24 21:15	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/30/24 21:15	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/30/24 21:15	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-05B_10/29/24	Lab ID: 70319475002	Collected: 10/29/24 11:20	Received: 10/29/24 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Ethylbenzene	<1.0	ug/L	1.0	1		10/30/24 21:15	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		10/30/24 21:15	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		10/30/24 21:15	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		10/30/24 21:15	127-18-4	
Toluene	<1.0	ug/L	1.0	1		10/30/24 21:15	108-88-3	L1
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/30/24 21:15	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		10/30/24 21:15	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		10/30/24 21:15	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		10/30/24 21:15	1330-20-7	LS
m&p-Xylene	<2.0	ug/L	2.0	1		10/30/24 21:15	179601-23-1	L1
o-Xylene	<1.0	ug/L	1.0	1		10/30/24 21:15	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	82	%	80-120	1		10/30/24 21:15	17060-07-0	
4-Bromofluorobenzene (S)	95	%	80-120	1		10/30/24 21:15	460-00-4	
Toluene-d8 (S)	101	%	80-120	1		10/30/24 21:15	2037-26-5	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	37.7	mg/L	1.0	1		11/08/24 15:16		
Alkalinity,Bicarbonate (CaCO3)	37.7	mg/L	1.0	1		11/08/24 15:16		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		11/08/24 15:16		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	337	mg/L	25.0	1		11/05/24 14:04		
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		10/29/24 20:41	18540-29-9	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Sulfate	21.7	mg/L	5.0	1		11/08/24 22:12	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	<0.10	mg/L	0.10	1	11/08/24 03:31	11/08/24 22:07	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	4.0	mg/L	0.25	5		11/06/24 04:27	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		10/30/24 00:48	14797-65-0	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-05B_10/29/24		Lab ID: 70319475002		Collected: 10/29/24 11:20	Received: 10/29/24 17:48	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville						
Cyanide	<10.0	ug/L	10.0	1	10/31/24 10:30	10/31/24 14:50	57-12-5	
4500 Chloride		Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville						
Chloride	111	mg/L	20.0	10		11/03/24 16:53	16887-00-6	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	0.062J	mg/L	0.10	1		10/31/24 12:36	7664-41-7	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-05B_DISS_10/29/25		Lab ID: 70319475003		Collected: 10/29/24 11:20	Received: 10/29/24 17:48	Matrix: Water		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7								
Pace Analytical Services - Melville								
Aluminum, Dissolved	<200	ug/L	200	1		10/31/24 11:20	7429-90-5	
Barium, Dissolved	71.0J	ug/L	200	1		10/31/24 11:20	7440-39-3	
Calcium, Dissolved	21200	ug/L	1000	1		10/31/24 11:20	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		10/31/24 11:20	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		10/31/24 11:20	7440-50-8	
Iron, Dissolved	<100	ug/L	100	1		10/31/24 11:20	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		10/31/24 11:20	7439-92-1	
Magnesium, Dissolved	8820	ug/L	1000	1		10/31/24 11:20	7439-95-4	
Manganese, Dissolved	3590	ug/L	10.0	1		10/31/24 11:20	7439-96-5	
Nickel, Dissolved	11.3J	ug/L	40.0	1		10/31/24 11:20	7440-02-0	
Potassium, Dissolved	11700	ug/L	5000	1		10/31/24 11:20	7440-09-7	
Sodium, Dissolved	81100	ug/L	5000	1		10/31/24 11:20	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		10/31/24 11:20	7440-66-6	
245.1 Mercury, Dissolved								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Melville								
Mercury, Dissolved	<0.20	ug/L	0.20	1	11/14/24 07:12	11/14/24 13:12	7439-97-6	
Chromium, Hexavalent								
Analytical Method: SM22 3500-Cr B								
Pace Analytical Services - Melville								
Chromium, Hexavalent	<0.020	mg/L	0.020	1		10/29/24 20:41	18540-29-9	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-09B_10/29/24 Lab ID: 70319475004 Collected: 10/29/24 13:45 Received: 10/29/24 17:48 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum	<200	ug/L	200	1	10/31/24 07:08	10/31/24 16:31	7429-90-5	
Barium	100J	ug/L	200	1	10/31/24 07:08	10/31/24 16:31	7440-39-3	
Calcium	12100	ug/L	200	1	10/31/24 07:08	10/31/24 16:31	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	10/31/24 07:08	10/31/24 16:31	7440-47-3	
Copper	<25.0	ug/L	25.0	1	10/31/24 07:08	10/31/24 16:31	7440-50-8	
Iron	<100	ug/L	100	1	10/31/24 07:08	10/31/24 16:31	7439-89-6	
Lead	<5.0	ug/L	5.0	1	10/31/24 07:08	10/31/24 16:31	7439-92-1	
Magnesium	5360	ug/L	200	1	10/31/24 07:08	10/31/24 16:31	7439-95-4	
Manganese	2380	ug/L	10.0	1	10/31/24 07:08	10/31/24 16:31	7439-96-5	
Nickel	<40.0	ug/L	40.0	1	10/31/24 07:08	10/31/24 16:31	7440-02-0	
Potassium	9340	ug/L	5000	1	10/31/24 07:08	10/31/24 16:31	7440-09-7	
Sodium	57800	ug/L	5000	1	10/31/24 07:08	10/31/24 16:31	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B)	52300	ug/L	830	1	10/31/24 07:08	10/31/24 16:31		
Zinc	<20.0	ug/L	20.0	1	10/31/24 07:08	10/31/24 16:31	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	52300	ug/L	830	1		10/31/24 16:31		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/06/24 07:16	11/06/24 16:24	7439-97-6	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		10/30/24 21:35	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		10/30/24 21:35	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		10/30/24 21:35	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		10/30/24 21:35	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		10/30/24 21:35	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/30/24 21:35	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		10/30/24 21:35	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		10/30/24 21:35	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		10/30/24 21:35	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		10/30/24 21:35	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		10/30/24 21:35	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/30/24 21:35	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		10/30/24 21:35	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/30/24 21:35	75-71-8	IL
1,1-Dichloroethane	<1.0	ug/L	1.0	1		10/30/24 21:35	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/30/24 21:35	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		10/30/24 21:35	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/30/24 21:35	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/30/24 21:35	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/30/24 21:35	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-09B_10/29/24	Lab ID: 70319475004	Collected: 10/29/24 13:45	Received: 10/29/24 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Ethylbenzene	<1.0	ug/L	1.0	1		10/30/24 21:35	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		10/30/24 21:35	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		10/30/24 21:35	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		10/30/24 21:35	127-18-4	
Toluene	<1.0	ug/L	1.0	1		10/30/24 21:35	108-88-3	L1
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/30/24 21:35	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		10/30/24 21:35	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		10/30/24 21:35	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		10/30/24 21:35	1330-20-7	LS
m&p-Xylene	<2.0	ug/L	2.0	1		10/30/24 21:35	179601-23-1	L1
o-Xylene	<1.0	ug/L	1.0	1		10/30/24 21:35	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%	80-120	1		10/30/24 21:35	17060-07-0	
4-Bromofluorobenzene (S)	95	%	80-120	1		10/30/24 21:35	460-00-4	
Toluene-d8 (S)	99	%	80-120	1		10/30/24 21:35	2037-26-5	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	29.5	mg/L	1.0	1		11/08/24 15:22		
Alkalinity,Bicarbonate (CaCO3)	29.5	mg/L	1.0	1		11/08/24 15:22		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		11/08/24 15:22		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	222	mg/L	25.0	1		11/05/24 14:05		
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		10/29/24 20:42	18540-29-9	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Sulfate	17.2	mg/L	5.0	1		11/08/24 22:29	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	<0.10	mg/L	0.10	1	11/08/24 03:31	11/08/24 22:09	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	3.3	mg/L	0.25	5		11/06/24 04:28	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		10/30/24 00:51	14797-65-0	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-09B_10/29/24		Lab ID: 70319475004		Collected: 10/29/24 13:45	Received: 10/29/24 17:48	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville						
Cyanide	<10.0	ug/L	10.0	1	10/31/24 10:30	10/31/24 14:51	57-12-5	
4500 Chloride		Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville						
Chloride	63.2	mg/L	20.0	10		11/03/24 16:54	16887-00-6	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	0.16	mg/L	0.10	1		10/31/24 12:37	7664-41-7	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-09B_DISS_10/29/25 Lab ID: 70319475005 Collected: 10/29/24 13:45 Received: 10/29/24 17:48 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved		Analytical Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum, Dissolved	<200	ug/L	200	1		10/31/24 11:21	7429-90-5	
Barium, Dissolved	99.8J	ug/L	200	1		10/31/24 11:21	7440-39-3	
Calcium, Dissolved	12300	ug/L	1000	1		10/31/24 11:21	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		10/31/24 11:21	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		10/31/24 11:21	7440-50-8	
Iron, Dissolved	<100	ug/L	100	1		10/31/24 11:21	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		10/31/24 11:21	7439-92-1	
Magnesium, Dissolved	5440	ug/L	1000	1		10/31/24 11:21	7439-95-4	
Manganese, Dissolved	2400	ug/L	10.0	1		10/31/24 11:21	7439-96-5	
Nickel, Dissolved	<40.0	ug/L	40.0	1		10/31/24 11:21	7440-02-0	
Potassium, Dissolved	9180	ug/L	5000	1		10/31/24 11:21	7440-09-7	
Sodium, Dissolved	58800	ug/L	5000	1		10/31/24 11:21	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		10/31/24 11:21	7440-66-6	
245.1 Mercury, Dissolved		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury, Dissolved	<0.20	ug/L	0.20	1	11/14/24 07:12	11/14/24 13:16	7439-97-6	
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		10/29/24 20:42	18540-29-9	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-09C_10/29/24 Lab ID: 70319475006 Collected: 10/29/24 16:30 Received: 10/29/24 17:48 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum	<200	ug/L	200	1	10/31/24 07:08	10/31/24 16:33	7429-90-5	
Barium	73.2J	ug/L	200	1	10/31/24 07:08	10/31/24 16:33	7440-39-3	
Calcium	12000	ug/L	200	1	10/31/24 07:08	10/31/24 16:33	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	10/31/24 07:08	10/31/24 16:33	7440-47-3	
Copper	<25.0	ug/L	25.0	1	10/31/24 07:08	10/31/24 16:33	7440-50-8	
Iron	<100	ug/L	100	1	10/31/24 07:08	10/31/24 16:33	7439-89-6	
Lead	<5.0	ug/L	5.0	1	10/31/24 07:08	10/31/24 16:33	7439-92-1	
Magnesium	7100	ug/L	200	1	10/31/24 07:08	10/31/24 16:33	7439-95-4	
Manganese	356	ug/L	10.0	1	10/31/24 07:08	10/31/24 16:33	7439-96-5	
Nickel	<40.0	ug/L	40.0	1	10/31/24 07:08	10/31/24 16:33	7440-02-0	
Potassium	12200	ug/L	5000	1	10/31/24 07:08	10/31/24 16:33	7440-09-7	
Sodium	62900	ug/L	5000	1	10/31/24 07:08	10/31/24 16:33	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B)	59200	ug/L	830	1	10/31/24 07:08	10/31/24 16:33		
Zinc	<20.0	ug/L	20.0	1	10/31/24 07:08	10/31/24 16:33	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	59200	ug/L	830	1		10/31/24 16:33		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/06/24 07:16	11/06/24 16:25	7439-97-6	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		11/07/24 17:26	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/07/24 17:26	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/07/24 17:26	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 17:26	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 17:26	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/07/24 17:26	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/07/24 17:26	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/07/24 17:26	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/07/24 17:26	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/07/24 17:26	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 17:26	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 17:26	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 17:26	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/07/24 17:26	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 17:26	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 17:26	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 17:26	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 17:26	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 17:26	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/07/24 17:26	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-09C_10/29/24	Lab ID: 70319475006	Collected: 10/29/24 16:30	Received: 10/29/24 17:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Ethylbenzene	<1.0	ug/L	1.0	1		11/07/24 17:26	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/07/24 17:26	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		11/07/24 17:26	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		11/07/24 17:26	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/07/24 17:26	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/07/24 17:26	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		11/07/24 17:26	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/07/24 17:26	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		11/07/24 17:26	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		11/07/24 17:26	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		11/07/24 17:26	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%	80-120	1		11/07/24 17:26	17060-07-0	
4-Bromofluorobenzene (S)	111	%	80-120	1		11/07/24 17:26	460-00-4	
Toluene-d8 (S)	119	%	80-120	1		11/07/24 17:26	2037-26-5	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	47.1	mg/L	1.0	1		11/08/24 15:29		
Alkalinity,Bicarbonate (CaCO3)	47.1	mg/L	1.0	1		11/08/24 15:29		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		11/08/24 15:29		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	243	mg/L	25.0	1		11/05/24 14:05		
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		10/29/24 20:43	18540-29-9	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Sulfate	17.5	mg/L	5.0	1		11/08/24 23:57	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	0.87	mg/L	0.10	1	11/08/24 03:31	11/08/24 22:10	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	1.5	mg/L	0.050	1		11/06/24 04:01	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		10/30/24 00:53	14797-65-0	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-09C_10/29/24		Lab ID: 70319475006		Collected: 10/29/24 16:30		Received: 10/29/24 17:48		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
SM 4500 CNE Cyanide, Total		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	<10.0	ug/L	10.0	1	10/31/24 10:30	10/31/24 14:51	57-12-5		
4500 Chloride		Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	71.3	mg/L	20.0	10		11/03/24 16:55	16887-00-6		
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	1.7	mg/L	0.10	1		10/31/24 12:38	7664-41-7		

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-09C_DISS_10/29/25 Lab ID: 70319475007 Collected: 10/29/24 16:30 Received: 10/29/24 17:48 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved		Analytical Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum, Dissolved	<200	ug/L	200	1		10/31/24 11:23	7429-90-5	
Barium, Dissolved	72.3J	ug/L	200	1		10/31/24 11:23	7440-39-3	
Calcium, Dissolved	12100	ug/L	1000	1		10/31/24 11:23	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		10/31/24 11:23	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		10/31/24 11:23	7440-50-8	
Iron, Dissolved	<100	ug/L	100	1		10/31/24 11:23	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		10/31/24 11:23	7439-92-1	
Magnesium, Dissolved	7170	ug/L	1000	1		10/31/24 11:23	7439-95-4	
Manganese, Dissolved	359	ug/L	10.0	1		10/31/24 11:23	7439-96-5	
Nickel, Dissolved	<40.0	ug/L	40.0	1		10/31/24 11:23	7440-02-0	
Potassium, Dissolved	11900	ug/L	5000	1		10/31/24 11:23	7440-09-7	
Sodium, Dissolved	63200	ug/L	5000	1		10/31/24 11:23	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		10/31/24 11:23	7440-66-6	
245.1 Mercury, Dissolved		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury, Dissolved	<0.20	ug/L	0.20	1	11/14/24 07:12	11/14/24 13:17	7439-97-6	
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		10/29/24 20:43	18540-29-9	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: TRIP BLANK-10/31/24	Lab ID: 70319475008	Collected: 10/31/24 00:00	Received: 10/31/24 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		11/07/24 13:10	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/07/24 13:10	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/07/24 13:10	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 13:10	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 13:10	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/07/24 13:10	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/07/24 13:10	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/07/24 13:10	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/07/24 13:10	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/07/24 13:10	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 13:10	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 13:10	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 13:10	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/07/24 13:10	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 13:10	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 13:10	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 13:10	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 13:10	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 13:10	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/07/24 13:10	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		11/07/24 13:10	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/07/24 13:10	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		11/07/24 13:10	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		11/07/24 13:10	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/07/24 13:10	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/07/24 13:10	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		11/07/24 13:10	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/07/24 13:10	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		11/07/24 13:10	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		11/07/24 13:10	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		11/07/24 13:10	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%	80-120	1		11/07/24 13:10	17060-07-0	
4-Bromofluorobenzene (S)	110	%	80-120	1		11/07/24 13:10	460-00-4	
Toluene-d8 (S)	117	%	80-120	1		11/07/24 13:10	2037-26-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-08B_10/31/24	Lab ID: 70319475009	Collected: 10/31/24 16:00	Received: 10/31/24 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum	<200	ug/L	200	1	11/06/24 09:41	11/06/24 16:13	7429-90-5	
Barium	81.0J	ug/L	200	1	11/06/24 09:41	11/06/24 16:13	7440-39-3	
Calcium	18800	ug/L	200	1	11/06/24 09:41	11/06/24 16:13	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:13	7440-47-3	
Copper	<25.0	ug/L	25.0	1	11/06/24 09:41	11/06/24 16:13	7440-50-8	
Iron	<100	ug/L	100	1	11/06/24 09:41	11/06/24 16:13	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/06/24 09:41	11/06/24 16:13	7439-92-1	
Magnesium	5100	ug/L	200	1	11/06/24 09:41	11/06/24 16:13	7439-95-4	
Manganese	668	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:13	7439-96-5	
Nickel	18.7J	ug/L	40.0	1	11/06/24 09:41	11/06/24 16:13	7440-02-0	
Potassium	10300	ug/L	5000	1	11/06/24 09:41	11/06/24 16:13	7440-09-7	B
Sodium	113000	ug/L	5000	1	11/06/24 09:41	11/06/24 16:13	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B)	67900	ug/L	830	1	11/06/24 09:41	11/06/24 16:13		
Zinc	33.1	ug/L	20.0	1	11/06/24 09:41	11/06/24 16:13	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	67900	ug/L	830	1		11/06/24 16:13		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/07/24 07:22	11/07/24 16:31	7439-97-6	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		11/08/24 12:47	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/08/24 12:47	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/08/24 12:47	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/08/24 12:47	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/08/24 12:47	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/08/24 12:47	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/08/24 12:47	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/08/24 12:47	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/08/24 12:47	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/08/24 12:47	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/08/24 12:47	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/08/24 12:47	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		11/08/24 12:47	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/08/24 12:47	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/08/24 12:47	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/08/24 12:47	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/08/24 12:47	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/08/24 12:47	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/08/24 12:47	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/08/24 12:47	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-08B_10/31/24	Lab ID: 70319475009	Collected: 10/31/24 16:00	Received: 10/31/24 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Ethylbenzene	<1.0	ug/L	1.0	1		11/08/24 12:47	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/08/24 12:47	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		11/08/24 12:47	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		11/08/24 12:47	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/08/24 12:47	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/08/24 12:47	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		11/08/24 12:47	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/08/24 12:47	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		11/08/24 12:47	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		11/08/24 12:47	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		11/08/24 12:47	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	85	%	80-120	1		11/08/24 12:47	17060-07-0	
4-Bromofluorobenzene (S)	108	%	80-120	1		11/08/24 12:47	460-00-4	
Toluene-d8 (S)	114	%	80-120	1		11/08/24 12:47	2037-26-5	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	14.7	mg/L	1.0	1		11/14/24 10:13		
Alkalinity,Bicarbonate (CaCO3)	14.7	mg/L	1.0	1		11/14/24 10:13		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		11/14/24 10:13		L2
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	393	mg/L	25.0	1		11/07/24 14:08		
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		10/31/24 19:22	18540-29-9	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Sulfate	33.8	mg/L	5.0	1		11/19/24 01:13	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	<0.10	mg/L	0.10	1	11/08/24 03:31	11/08/24 22:15	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	2.3	mg/L	0.050	1		11/14/24 13:24	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		11/01/24 00:46	14797-65-0	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-08B_10/31/24		Lab ID: 70319475009		Collected: 10/31/24 16:00	Received: 10/31/24 17:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville						
Cyanide	10.7	ug/L	10.0	1	11/04/24 13:45	11/04/24 15:15	57-12-5	
4500 Chloride		Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville						
Chloride	185	mg/L	10.0	5		11/06/24 10:05	16887-00-6	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	0.067J	mg/L	0.10	1		11/06/24 14:28	7664-41-7	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-08B_DISS_10/31/25		Lab ID: 70319475010		Collected: 10/31/24 16:00	Received: 10/31/24 17:50	Matrix: Water		
200.7 Metals, Dissolved Analytical Method: EPA 200.7 Pace Analytical Services - Melville								
Aluminum, Dissolved	<200	ug/L	200	1		11/05/24 16:21	7429-90-5	
Barium, Dissolved	82.4J	ug/L	200	1		11/05/24 16:21	7440-39-3	
Calcium, Dissolved	19500	ug/L	1000	1		11/05/24 16:21	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		11/05/24 16:21	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		11/05/24 16:21	7440-50-8	
Iron, Dissolved	<100	ug/L	100	1		11/05/24 16:21	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		11/05/24 16:21	7439-92-1	
Magnesium, Dissolved	5250	ug/L	1000	1		11/05/24 16:21	7439-95-4	
Manganese, Dissolved	675	ug/L	10.0	1		11/05/24 16:21	7439-96-5	
Nickel, Dissolved	17.9J	ug/L	40.0	1		11/05/24 16:21	7440-02-0	
Potassium, Dissolved	9000	ug/L	5000	1		11/05/24 16:21	7440-09-7	
Sodium, Dissolved	113000	ug/L	5000	1		11/05/24 16:21	7440-23-5	M1
Zinc, Dissolved	34.5	ug/L	20.0	1		11/05/24 16:21	7440-66-6	
245.1 Mercury, Dissolved Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville								
Mercury, Dissolved	<0.20	ug/L	0.20	1	11/14/24 07:12	11/14/24 13:18	7439-97-6	
Chromium, Hexavalent Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville								
Chromium, Hexavalent	<0.020	mg/L	0.020	1		10/31/24 19:22	18540-29-9	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-08A_10/31/26	Lab ID: 70319475011	Collected: 10/31/24 17:00	Received: 10/31/24 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum	71.7J	ug/L	200	1	11/06/24 09:41	11/06/24 16:21	7429-90-5	
Barium	80.3J	ug/L	200	1	11/06/24 09:41	11/06/24 16:21	7440-39-3	
Calcium	7430	ug/L	200	1	11/06/24 09:41	11/06/24 16:21	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:21	7440-47-3	
Copper	<25.0	ug/L	25.0	1	11/06/24 09:41	11/06/24 16:21	7440-50-8	
Iron	<100	ug/L	100	1	11/06/24 09:41	11/06/24 16:21	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/06/24 09:41	11/06/24 16:21	7439-92-1	
Magnesium	5450	ug/L	200	1	11/06/24 09:41	11/06/24 16:21	7439-95-4	
Manganese	103	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:21	7439-96-5	
Nickel	12.2J	ug/L	40.0	1	11/06/24 09:41	11/06/24 16:21	7440-02-0	
Potassium	6930	ug/L	5000	1	11/06/24 09:41	11/06/24 16:21	7440-09-7	B
Sodium	25500	ug/L	5000	1	11/06/24 09:41	11/06/24 16:21	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B)	41000	ug/L	830	1	11/06/24 09:41	11/06/24 16:21		
Zinc	11.0J	ug/L	20.0	1	11/06/24 09:41	11/06/24 16:21	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	41000	ug/L	830	1		11/06/24 16:21		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/07/24 07:22	11/07/24 16:36	7439-97-6	M1
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		11/07/24 14:49	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/07/24 14:49	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/07/24 14:49	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 14:49	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 14:49	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/07/24 14:49	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/07/24 14:49	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/07/24 14:49	75-00-3	
Chloroform	1.1	ug/L	1.0	1		11/07/24 14:49	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/07/24 14:49	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 14:49	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 14:49	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 14:49	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/07/24 14:49	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 14:49	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 14:49	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 14:49	75-35-4	
cis-1,2-Dichloroethene	11.1	ug/L	1.0	1		11/07/24 14:49	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 14:49	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/07/24 14:49	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-08A_10/31/26	Lab ID: 70319475011	Collected: 10/31/24 17:00	Received: 10/31/24 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Ethylbenzene	<1.0	ug/L	1.0	1		11/07/24 14:49	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/07/24 14:49	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		11/07/24 14:49	75-09-2	
Tetrachloroethene	7.1	ug/L	1.0	1		11/07/24 14:49	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/07/24 14:49	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/07/24 14:49	71-55-6	
Trichloroethene	1.1	ug/L	1.0	1		11/07/24 14:49	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/07/24 14:49	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		11/07/24 14:49	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		11/07/24 14:49	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		11/07/24 14:49	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%	80-120	1		11/07/24 14:49	17060-07-0	
4-Bromofluorobenzene (S)	105	%	80-120	1		11/07/24 14:49	460-00-4	
Toluene-d8 (S)	112	%	80-120	1		11/07/24 14:49	2037-26-5	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	5.1	mg/L	1.0	1		11/14/24 10:17		
Alkalinity,Bicarbonate (CaCO3)	5.1	mg/L	1.0	1		11/14/24 10:17		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		11/14/24 10:17		L2
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	136	mg/L	25.0	1		11/07/24 14:08		
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		10/31/24 19:22	18540-29-9	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Sulfate	31.1	mg/L	5.0	1		11/19/24 02:06	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	<0.10	mg/L	0.10	1	11/08/24 03:31	11/08/24 22:16	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	2.0	mg/L	0.050	1		11/14/24 13:25	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		11/01/24 00:47	14797-65-0	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-08A_10/31/26		Lab ID: 70319475011		Collected: 10/31/24 17:00	Received: 10/31/24 17:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville						
Cyanide	<10.0	ug/L	10.0	1	11/04/24 13:45	11/04/24 15:18	57-12-5	
4500 Chloride		Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville						
Chloride	40.3	mg/L	10.0	5		11/06/24 10:06	16887-00-6	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		11/06/24 14:29	7664-41-7	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-08A_DISS_10/31/27 Lab ID: 70319475012 Collected: 10/31/24 17:00 Received: 10/31/24 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved		Analytical Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum, Dissolved	70.1J	ug/L	200	1		11/05/24 16:27	7429-90-5	
Barium, Dissolved	82.9J	ug/L	200	1		11/05/24 16:27	7440-39-3	
Calcium, Dissolved	7600	ug/L	1000	1		11/05/24 16:27	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		11/05/24 16:27	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		11/05/24 16:27	7440-50-8	
Iron, Dissolved	<100	ug/L	100	1		11/05/24 16:27	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		11/05/24 16:27	7439-92-1	
Magnesium, Dissolved	5760	ug/L	1000	1		11/05/24 16:27	7439-95-4	
Manganese, Dissolved	105	ug/L	10.0	1		11/05/24 16:27	7439-96-5	
Nickel, Dissolved	11.8J	ug/L	40.0	1		11/05/24 16:27	7440-02-0	
Potassium, Dissolved	5970	ug/L	5000	1		11/05/24 16:27	7440-09-7	
Sodium, Dissolved	25500	ug/L	5000	1		11/05/24 16:27	7440-23-5	
Zinc, Dissolved	11.2J	ug/L	20.0	1		11/05/24 16:27	7440-66-6	
245.1 Mercury, Dissolved		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury, Dissolved	<0.20	ug/L	0.20	1	11/14/24 07:12	11/14/24 13:20	7439-97-6	
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		10/31/24 19:23	18540-29-9	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: OBS-1_10/31/28	Lab ID: 70319475013	Collected: 10/31/24 12:25	Received: 10/31/24 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum	<200	ug/L	200	1	11/06/24 09:41	11/06/24 16:32	7429-90-5	
Barium	40.8J	ug/L	200	1	11/06/24 09:41	11/06/24 16:32	7440-39-3	
Calcium	13800	ug/L	200	1	11/06/24 09:41	11/06/24 16:32	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:32	7440-47-3	
Copper	<25.0	ug/L	25.0	1	11/06/24 09:41	11/06/24 16:32	7440-50-8	
Iron	28.8J	ug/L	100	1	11/06/24 09:41	11/06/24 16:32	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/06/24 09:41	11/06/24 16:32	7439-92-1	
Magnesium	8150	ug/L	200	1	11/06/24 09:41	11/06/24 16:32	7439-95-4	
Manganese	2810	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:32	7439-96-5	
Nickel	<40.0	ug/L	40.0	1	11/06/24 09:41	11/06/24 16:32	7440-02-0	
Potassium	17600	ug/L	5000	1	11/06/24 09:41	11/06/24 16:32	7440-09-7	
Sodium	40500	ug/L	5000	1	11/06/24 09:41	11/06/24 16:32	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B)	68000	ug/L	830	1	11/06/24 09:41	11/06/24 16:32		
Zinc	<20.0	ug/L	20.0	1	11/06/24 09:41	11/06/24 16:32	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	68000	ug/L	830	1		11/06/24 16:32		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/11/24 08:00	11/11/24 12:50	7439-97-6	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		11/08/24 13:07	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/08/24 13:07	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/08/24 13:07	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/08/24 13:07	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/08/24 13:07	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/08/24 13:07	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/08/24 13:07	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/08/24 13:07	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/08/24 13:07	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/08/24 13:07	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/08/24 13:07	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/08/24 13:07	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		11/08/24 13:07	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/08/24 13:07	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/08/24 13:07	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/08/24 13:07	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/08/24 13:07	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/08/24 13:07	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/08/24 13:07	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/08/24 13:07	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: OBS-1_10/31/28	Lab ID: 70319475013	Collected: 10/31/24 12:25	Received: 10/31/24 17:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Ethylbenzene	<1.0	ug/L	1.0	1		11/08/24 13:07	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/08/24 13:07	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		11/08/24 13:07	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		11/08/24 13:07	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/08/24 13:07	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/08/24 13:07	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		11/08/24 13:07	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/08/24 13:07	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		11/08/24 13:07	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		11/08/24 13:07	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		11/08/24 13:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%	80-120	1		11/08/24 13:07	17060-07-0	
4-Bromofluorobenzene (S)	107	%	80-120	1		11/08/24 13:07	460-00-4	
Toluene-d8 (S)	114	%	80-120	1		11/08/24 13:07	2037-26-5	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	123	mg/L	1.0	1		11/14/24 10:26		
Alkalinity,Bicarbonate (CaCO3)	123	mg/L	1.0	1		11/14/24 10:26		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		11/14/24 10:26		L2
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	200	mg/L	25.0	1		11/07/24 14:08		
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		10/31/24 19:21	18540-29-9	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Sulfate	20.5	mg/L	5.0	1		11/19/24 02:23	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	8.9	mg/L	0.50	5	11/08/24 03:31	11/08/24 22:45	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	0.12	mg/L	0.050	1		11/14/24 13:26	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		11/01/24 00:40	14797-65-0	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: OBS-1_10/31/28		Lab ID: 70319475013		Collected: 10/31/24 12:25	Received: 10/31/24 17:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville						
Cyanide	8.2J	ug/L	10.0	1	11/04/24 13:45	11/04/24 15:19	57-12-5	
4500 Chloride		Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville						
Chloride	47.2	mg/L	10.0	5		11/06/24 10:07	16887-00-6	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	10.0	mg/L	2.0	20		11/06/24 15:21	7664-41-7	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: OBS-1_DISS_10/31/29 Lab ID: 70319475014 Collected: 10/31/24 12:25 Received: 10/31/24 17:50 Matrix: Water								
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Pace Analytical Services - Melville								
Aluminum, Dissolved	<200	ug/L	200	1		11/05/24 16:29	7429-90-5	
Barium, Dissolved	40.9J	ug/L	200	1		11/05/24 16:29	7440-39-3	
Calcium, Dissolved	14400	ug/L	1000	1		11/05/24 16:29	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		11/05/24 16:29	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		11/05/24 16:29	7440-50-8	
Iron, Dissolved	26.0J	ug/L	100	1		11/05/24 16:29	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		11/05/24 16:29	7439-92-1	
Magnesium, Dissolved	8680	ug/L	1000	1		11/05/24 16:29	7439-95-4	
Manganese, Dissolved	2970	ug/L	10.0	1		11/05/24 16:29	7439-96-5	
Nickel, Dissolved	<40.0	ug/L	40.0	1		11/05/24 16:29	7440-02-0	
Potassium, Dissolved	17500	ug/L	5000	1		11/05/24 16:29	7440-09-7	
Sodium, Dissolved	41000	ug/L	5000	1		11/05/24 16:29	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		11/05/24 16:29	7440-66-6	
245.1 Mercury, Dissolved								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville								
Mercury, Dissolved	<0.20	ug/L	0.20	1	11/14/24 07:12	11/14/24 13:21	7439-97-6	
Chromium, Hexavalent								
Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville								
Chromium, Hexavalent	<0.020	mg/L	0.020	1		10/31/24 19:21	18540-29-9	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: BLIND Lab ID: 70319475015 Collected: 10/31/24 00:00 Received: 10/31/24 17:50 Matrix: Water
DUPLICATE_10/31/30

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum	<200	ug/L	200	1	11/06/24 09:41	11/06/24 16:34	7429-90-5	
Barium	40.8J	ug/L	200	1	11/06/24 09:41	11/06/24 16:34	7440-39-3	
Calcium	13900	ug/L	200	1	11/06/24 09:41	11/06/24 16:34	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:34	7440-47-3	
Copper	<25.0	ug/L	25.0	1	11/06/24 09:41	11/06/24 16:34	7440-50-8	
Iron	27.8J	ug/L	100	1	11/06/24 09:41	11/06/24 16:34	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/06/24 09:41	11/06/24 16:34	7439-92-1	
Magnesium	8190	ug/L	200	1	11/06/24 09:41	11/06/24 16:34	7439-95-4	
Manganese	2830	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:34	7439-96-5	
Nickel	<40.0	ug/L	40.0	1	11/06/24 09:41	11/06/24 16:34	7440-02-0	
Potassium	17700	ug/L	5000	1	11/06/24 09:41	11/06/24 16:34	7440-09-7	
Sodium	40600	ug/L	5000	1	11/06/24 09:41	11/06/24 16:34	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B)	68400	ug/L	830	1	11/06/24 09:41	11/06/24 16:34		
Zinc	<20.0	ug/L	20.0	1	11/06/24 09:41	11/06/24 16:34	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	68400	ug/L	830	1		11/06/24 16:34		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/11/24 08:00	11/11/24 12:54	7439-97-6	M1
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		11/07/24 15:28	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/07/24 15:28	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/07/24 15:28	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 15:28	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 15:28	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/07/24 15:28	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/07/24 15:28	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/07/24 15:28	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/07/24 15:28	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/07/24 15:28	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 15:28	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 15:28	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 15:28	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/07/24 15:28	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 15:28	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 15:28	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 15:28	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 15:28	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 15:28	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/07/24 15:28	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: BLIND **Lab ID:** 70319475015 **Collected:** 10/31/24 00:00 **Received:** 10/31/24 17:50 **Matrix:** Water
DUPLICATE_10/31/30

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Ethylbenzene	<1.0	ug/L	1.0	1		11/07/24 15:28	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/07/24 15:28	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		11/07/24 15:28	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		11/07/24 15:28	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/07/24 15:28	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/07/24 15:28	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		11/07/24 15:28	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/07/24 15:28	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		11/07/24 15:28	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		11/07/24 15:28	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		11/07/24 15:28	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%	80-120	1		11/07/24 15:28	17060-07-0	
4-Bromofluorobenzene (S)	104	%	80-120	1		11/07/24 15:28	460-00-4	
Toluene-d8 (S)	112	%	80-120	1		11/07/24 15:28	2037-26-5	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	123	mg/L	1.0	1		11/14/24 10:34		
Alkalinity,Bicarbonate (CaCO3)	123	mg/L	1.0	1		11/14/24 10:34		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		11/14/24 10:34		L2
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	152	mg/L	5.0	1		11/11/24 18:15		
Alkalinity,Bicarbonate (CaCO3)	152	mg/L	5.0	1		11/11/24 18:15		
Alkalinity,Carbonate (CaCO3)	<5.0	mg/L	5.0	1		11/11/24 18:15		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	203	mg/L	25.0	1		11/07/24 14:08		
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		10/31/24 19:19	18540-29-9	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Sulfate	20.7	mg/L	5.0	1		11/19/24 02:41	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	9.2	mg/L	0.50	5	11/08/24 03:31	11/08/24 22:46	7727-37-9	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: BLIND DUPLICATE_10/31/30		Lab ID: 70319475015		Collected: 10/31/24 00:00	Received: 10/31/24 17:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	0.13	mg/L	0.050	1		11/14/24 13:27	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		11/01/24 00:12	14797-65-0	
SM 4500 CNE Cyanide, Total		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville						
Cyanide	12.4	ug/L	10.0	1	11/04/24 13:45	11/04/24 15:19	57-12-5	
4500 Chloride		Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville						
Chloride	45.5	mg/L	10.0	5		11/06/24 10:08	16887-00-6	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	9.9	mg/L	2.0	20		11/06/24 15:22	7664-41-7	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: **BLIND** Lab ID: **70319475016** Collected: 10/31/24 00:00 Received: 10/31/24 17:50 Matrix: Water
DUPLICATE DISS_10/31/3
1

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved		Analytical Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum, Dissolved	<200	ug/L	200	1		11/05/24 16:30	7429-90-5	
Barium, Dissolved	40.6J	ug/L	200	1		11/05/24 16:30	7440-39-3	
Calcium, Dissolved	14300	ug/L	1000	1		11/05/24 16:30	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		11/05/24 16:30	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		11/05/24 16:30	7440-50-8	
Iron, Dissolved	26.0J	ug/L	100	1		11/05/24 16:30	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		11/05/24 16:30	7439-92-1	
Magnesium, Dissolved	8610	ug/L	1000	1		11/05/24 16:30	7439-95-4	
Manganese, Dissolved	2950	ug/L	10.0	1		11/05/24 16:30	7439-96-5	
Nickel, Dissolved	<40.0	ug/L	40.0	1		11/05/24 16:30	7440-02-0	
Potassium, Dissolved	17500	ug/L	5000	1		11/05/24 16:30	7440-09-7	
Sodium, Dissolved	40700	ug/L	5000	1		11/05/24 16:30	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		11/05/24 16:30	7440-66-6	
245.1 Mercury, Dissolved		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury, Dissolved	<0.20	ug/L	0.20	1	11/14/24 07:12	11/14/24 13:25	7439-97-6	
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		10/31/24 19:20	18540-29-9	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: TRIP BLANK_11/1/2024	Lab ID: 70319475017	Collected: 11/01/24 00:00	Received: 11/01/24 15:58	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		11/07/24 13:30	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/07/24 13:30	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/07/24 13:30	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 13:30	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 13:30	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/07/24 13:30	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/07/24 13:30	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/07/24 13:30	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/07/24 13:30	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/07/24 13:30	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 13:30	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 13:30	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 13:30	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/07/24 13:30	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 13:30	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 13:30	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 13:30	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 13:30	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 13:30	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/07/24 13:30	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		11/07/24 13:30	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/07/24 13:30	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		11/07/24 13:30	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		11/07/24 13:30	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/07/24 13:30	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/07/24 13:30	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		11/07/24 13:30	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/07/24 13:30	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		11/07/24 13:30	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		11/07/24 13:30	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		11/07/24 13:30	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%	80-120	1		11/07/24 13:30	17060-07-0	
4-Bromofluorobenzene (S)	102	%	80-120	1		11/07/24 13:30	460-00-4	
Toluene-d8 (S)	108	%	80-120	1		11/07/24 13:30	2037-26-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-06A_11/1/24	Lab ID: 70319475018	Collected: 11/01/24 14:40	Received: 11/01/24 15:58	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum	<200	ug/L	200	1	11/06/24 09:41	11/06/24 16:37	7429-90-5	
Barium	21.0J	ug/L	200	1	11/06/24 09:41	11/06/24 16:37	7440-39-3	
Calcium	1510	ug/L	200	1	11/06/24 09:41	11/06/24 16:37	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:37	7440-47-3	
Copper	<25.0	ug/L	25.0	1	11/06/24 09:41	11/06/24 16:37	7440-50-8	
Iron	58.3J	ug/L	100	1	11/06/24 09:41	11/06/24 16:37	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/06/24 09:41	11/06/24 16:37	7439-92-1	
Magnesium	1510	ug/L	200	1	11/06/24 09:41	11/06/24 16:37	7439-95-4	
Manganese	7.8J	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:37	7439-96-5	
Nickel	<40.0	ug/L	40.0	1	11/06/24 09:41	11/06/24 16:37	7440-02-0	
Potassium	2640J	ug/L	5000	1	11/06/24 09:41	11/06/24 16:37	7440-09-7	B
Sodium	9260	ug/L	5000	1	11/06/24 09:41	11/06/24 16:37	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B)	9990	ug/L	830	1	11/06/24 09:41	11/06/24 16:37		
Zinc	<20.0	ug/L	20.0	1	11/06/24 09:41	11/06/24 16:37	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	9990	ug/L	830	1		11/06/24 16:37		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/11/24 08:00	11/11/24 13:04	7439-97-6	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		11/07/24 15:48	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/07/24 15:48	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/07/24 15:48	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 15:48	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 15:48	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/07/24 15:48	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/07/24 15:48	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/07/24 15:48	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/07/24 15:48	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/07/24 15:48	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 15:48	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 15:48	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 15:48	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/07/24 15:48	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 15:48	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 15:48	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 15:48	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 15:48	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 15:48	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/07/24 15:48	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-06A_11/1/24	Lab ID: 70319475018	Collected: 11/01/24 14:40	Received: 11/01/24 15:58	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Ethylbenzene	<1.0	ug/L	1.0	1		11/07/24 15:48	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/07/24 15:48	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		11/07/24 15:48	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		11/07/24 15:48	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/07/24 15:48	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/07/24 15:48	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		11/07/24 15:48	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/07/24 15:48	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		11/07/24 15:48	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		11/07/24 15:48	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		11/07/24 15:48	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%	80-120	1		11/07/24 15:48	17060-07-0	
4-Bromofluorobenzene (S)	105	%	80-120	1		11/07/24 15:48	460-00-4	
Toluene-d8 (S)	119	%	80-120	1		11/07/24 15:48	2037-26-5	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	4.0	mg/L	1.0	1		11/15/24 10:33		
Alkalinity,Bicarbonate (CaCO3)	4.0	mg/L	1.0	1		11/15/24 10:33		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		11/15/24 10:33		L2,M0
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	48.0	mg/L	25.0	1		11/08/24 13:57		
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		11/01/24 20:03	18540-29-9	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Sulfate	8.1	mg/L	5.0	1		11/18/24 00:28	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	<0.10	mg/L	0.10	1	11/08/24 03:31	11/08/24 22:21	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	0.39	mg/L	0.050	1		11/14/24 13:29	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		11/02/24 00:46	14797-65-0	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-06A_11/1/24		Lab ID: 70319475018		Collected: 11/01/24 14:40	Received: 11/01/24 15:58	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville						
Cyanide	<10.0	ug/L	10.0	1	11/06/24 11:05	11/06/24 13:22	57-12-5	
4500 Chloride		Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville						
Chloride	12.5	mg/L	2.0	1		11/06/24 10:08	16887-00-6	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	0.093J	mg/L	0.10	1		11/06/24 14:35	7664-41-7	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-06A_DISS_11/1/25 Lab ID: 70319475019 Collected: 11/01/24 14:40 Received: 11/01/24 15:58 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved		Analytical Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum, Dissolved	<200	ug/L	200	1		11/05/24 16:32	7429-90-5	
Barium, Dissolved	21.3J	ug/L	200	1		11/05/24 16:32	7440-39-3	
Calcium, Dissolved	1570	ug/L	1000	1		11/05/24 16:32	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		11/05/24 16:32	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		11/05/24 16:32	7440-50-8	
Iron, Dissolved	53.9J	ug/L	100	1		11/05/24 16:32	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		11/05/24 16:32	7439-92-1	
Magnesium, Dissolved	1560	ug/L	1000	1		11/05/24 16:32	7439-95-4	
Manganese, Dissolved	8.0J	ug/L	10.0	1		11/05/24 16:32	7439-96-5	
Nickel, Dissolved	<40.0	ug/L	40.0	1		11/05/24 16:32	7440-02-0	
Potassium, Dissolved	1600J	ug/L	5000	1		11/05/24 16:32	7440-09-7	
Sodium, Dissolved	9240	ug/L	5000	1		11/05/24 16:32	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		11/05/24 16:32	7440-66-6	
245.1 Mercury, Dissolved		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury, Dissolved	<0.20	ug/L	0.20	1	11/14/24 07:12	11/14/24 13:27	7439-97-6	
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		11/01/24 20:04	18540-29-9	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-06C_11/1/26	Lab ID: 70319475020	Collected: 11/01/24 13:20	Received: 11/01/24 15:58	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum	<200	ug/L	200	1	11/06/24 09:41	11/06/24 16:38	7429-90-5	
Barium	31.8J	ug/L	200	1	11/06/24 09:41	11/06/24 16:38	7440-39-3	
Calcium	51500	ug/L	200	1	11/06/24 09:41	11/06/24 16:38	7440-70-2	
Chromium	1.5J	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:38	7440-47-3	
Copper	<25.0	ug/L	25.0	1	11/06/24 09:41	11/06/24 16:38	7440-50-8	
Iron	6920	ug/L	100	1	11/06/24 09:41	11/06/24 16:38	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/06/24 09:41	11/06/24 16:38	7439-92-1	
Magnesium	13500	ug/L	200	1	11/06/24 09:41	11/06/24 16:38	7439-95-4	
Manganese	137	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:38	7439-96-5	
Nickel	16.3J	ug/L	40.0	1	11/06/24 09:41	11/06/24 16:38	7440-02-0	
Potassium	60000	ug/L	5000	1	11/06/24 09:41	11/06/24 16:38	7440-09-7	
Sodium	264000	ug/L	5000	1	11/06/24 09:41	11/06/24 16:38	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B)	184000	ug/L	830	1	11/06/24 09:41	11/06/24 16:38		
Zinc	<20.0	ug/L	20.0	1	11/06/24 09:41	11/06/24 16:38	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	184000	ug/L	830	1		11/06/24 16:38		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/11/24 08:00	11/11/24 13:05	7439-97-6	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		11/07/24 16:07	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/07/24 16:07	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/07/24 16:07	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 16:07	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 16:07	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/07/24 16:07	56-23-5	
Chlorobenzene	2.1	ug/L	1.0	1		11/07/24 16:07	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/07/24 16:07	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/07/24 16:07	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/07/24 16:07	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 16:07	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 16:07	541-73-1	
1,4-Dichlorobenzene	1.4	ug/L	1.0	1		11/07/24 16:07	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/07/24 16:07	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 16:07	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 16:07	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 16:07	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 16:07	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 16:07	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/07/24 16:07	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-06C_11/1/26	Lab ID: 70319475020	Collected: 11/01/24 13:20	Received: 11/01/24 15:58	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Ethylbenzene	<1.0	ug/L	1.0	1		11/07/24 16:07	100-41-4	
Isopropylbenzene (Cumene)	1.9	ug/L	1.0	1		11/07/24 16:07	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		11/07/24 16:07	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		11/07/24 16:07	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/07/24 16:07	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/07/24 16:07	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		11/07/24 16:07	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/07/24 16:07	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		11/07/24 16:07	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		11/07/24 16:07	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		11/07/24 16:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%	80-120	1		11/07/24 16:07	17060-07-0	
4-Bromofluorobenzene (S)	103	%	80-120	1		11/07/24 16:07	460-00-4	
Toluene-d8 (S)	105	%	80-120	1		11/07/24 16:07	2037-26-5	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	663	mg/L	1.0	1		11/15/24 11:13		
Alkalinity,Bicarbonate (CaCO3)	663	mg/L	1.0	1		11/15/24 11:13		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		11/15/24 11:13		L2
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	1100	mg/L	500	1		11/08/24 13:57		
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		11/01/24 20:05	18540-29-9	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Sulfate	1.6J	mg/L	5.0	1		11/18/24 00:46	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	47.8	mg/L	2.5	5	11/08/24 03:31	11/08/24 22:47	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		11/14/24 13:36	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		11/02/24 00:47	14797-65-0	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-06C_11/1/26		Lab ID: 70319475020		Collected: 11/01/24 13:20	Received: 11/01/24 15:58	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville						
Cyanide	<10.0	ug/L	10.0	1	11/06/24 11:05	11/06/24 13:23	57-12-5	
4500 Chloride		Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville						
Chloride	187	mg/L	20.0	10		11/06/24 10:09	16887-00-6	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	65.2	mg/L	10.0	100		11/06/24 15:23	7664-41-7	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-06C_DISS_11/1/27	Lab ID: 70319475021	Collected: 11/01/24 13:20	Received: 11/01/24 15:58	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved		Analytical Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum, Dissolved	<200	ug/L	200	1		11/05/24 16:37	7429-90-5	
Barium, Dissolved	33.4J	ug/L	200	1		11/05/24 16:37	7440-39-3	
Calcium, Dissolved	55500	ug/L	1000	1		11/05/24 16:37	7440-70-2	
Chromium, Dissolved	1.5J	ug/L	10.0	1		11/05/24 16:37	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		11/05/24 16:37	7440-50-8	
Iron, Dissolved	7490	ug/L	100	1		11/05/24 16:37	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		11/05/24 16:37	7439-92-1	
Magnesium, Dissolved	14100	ug/L	1000	1		11/05/24 16:37	7439-95-4	
Manganese, Dissolved	143	ug/L	10.0	1		11/05/24 16:37	7439-96-5	
Nickel, Dissolved	16.4J	ug/L	40.0	1		11/05/24 16:37	7440-02-0	
Potassium, Dissolved	61300	ug/L	5000	1		11/05/24 16:37	7440-09-7	
Sodium, Dissolved	270000	ug/L	5000	1		11/05/24 16:37	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		11/05/24 16:37	7440-66-6	
245.1 Mercury, Dissolved		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury, Dissolved	<0.20	ug/L	0.20	1	11/14/24 07:12	11/14/24 13:28	7439-97-6	
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		11/01/24 20:06	18540-29-9	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-06B_11/1/28	Lab ID: 70319475022	Collected: 11/01/24 11:00	Received: 11/01/24 15:58	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum	<200	ug/L	200	1	11/06/24 09:41	11/06/24 16:40	7429-90-5	
Barium	79.5J	ug/L	200	1	11/06/24 09:41	11/06/24 16:40	7440-39-3	
Calcium	32700	ug/L	200	1	11/06/24 09:41	11/06/24 16:40	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:40	7440-47-3	
Copper	<25.0	ug/L	25.0	1	11/06/24 09:41	11/06/24 16:40	7440-50-8	
Iron	25700	ug/L	100	1	11/06/24 09:41	11/06/24 16:40	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/06/24 09:41	11/06/24 16:40	7439-92-1	
Magnesium	31900	ug/L	200	1	11/06/24 09:41	11/06/24 16:40	7439-95-4	
Manganese	71.3	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:40	7439-96-5	
Nickel	<40.0	ug/L	40.0	1	11/06/24 09:41	11/06/24 16:40	7440-02-0	
Potassium	53500	ug/L	5000	1	11/06/24 09:41	11/06/24 16:40	7440-09-7	
Sodium	97000	ug/L	5000	1	11/06/24 09:41	11/06/24 16:40	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B)	213000	ug/L	830	1	11/06/24 09:41	11/06/24 16:40		
Zinc	<20.0	ug/L	20.0	1	11/06/24 09:41	11/06/24 16:40	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	213000	ug/L	830	1		11/06/24 16:40		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/11/24 08:00	11/11/24 13:07	7439-97-6	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		11/07/24 16:27	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/07/24 16:27	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/07/24 16:27	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 16:27	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 16:27	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/07/24 16:27	56-23-5	
Chlorobenzene	11.5	ug/L	1.0	1		11/07/24 16:27	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/07/24 16:27	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/07/24 16:27	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/07/24 16:27	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 16:27	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 16:27	541-73-1	
1,4-Dichlorobenzene	3.0	ug/L	1.0	1		11/07/24 16:27	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/07/24 16:27	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 16:27	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 16:27	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 16:27	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 16:27	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 16:27	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/07/24 16:27	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-06B_11/1/28	Lab ID: 70319475022	Collected: 11/01/24 11:00	Received: 11/01/24 15:58	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Ethylbenzene	<1.0	ug/L	1.0	1		11/07/24 16:27	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/07/24 16:27	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		11/07/24 16:27	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		11/07/24 16:27	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/07/24 16:27	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/07/24 16:27	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		11/07/24 16:27	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/07/24 16:27	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		11/07/24 16:27	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		11/07/24 16:27	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		11/07/24 16:27	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	80-120	1		11/07/24 16:27	17060-07-0	
4-Bromofluorobenzene (S)	114	%	80-120	1		11/07/24 16:27	460-00-4	
Toluene-d8 (S)	111	%	80-120	1		11/07/24 16:27	2037-26-5	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	532	mg/L	1.0	1		11/15/24 11:35		
Alkalinity,Bicarbonate (CaCO3)	532	mg/L	1.0	1		11/15/24 11:35		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		11/15/24 11:35		L2
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	558	mg/L	50.0	1		11/08/24 13:58		
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		11/01/24 20:05	18540-29-9	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Sulfate	13.3	mg/L	5.0	1		11/18/24 01:03	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	58.8	mg/L	2.0	20	11/08/24 03:31	11/08/24 22:56	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		11/14/24 13:37	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		11/02/24 00:48	14797-65-0	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-06B_11/1/28		Lab ID: 70319475022		Collected: 11/01/24 11:00	Received: 11/01/24 15:58	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville						
Cyanide	13.5	ug/L	10.0	1	11/06/24 11:05	11/06/24 13:24	57-12-5	
4500 Chloride		Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville						
Chloride	54.0	mg/L	20.0	10		11/06/24 10:10	16887-00-6	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	72.8	mg/L	10.0	100		11/06/24 15:24	7664-41-7	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: MW-06B_DISS_11/1/29	Lab ID: 70319475023	Collected: 11/01/24 11:00	Received: 11/01/24 15:58	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved		Analytical Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum, Dissolved	<200	ug/L	200	1		11/05/24 16:38	7429-90-5	
Barium, Dissolved	83.8J	ug/L	200	1		11/05/24 16:38	7440-39-3	
Calcium, Dissolved	35200	ug/L	1000	1		11/05/24 16:38	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		11/05/24 16:38	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		11/05/24 16:38	7440-50-8	
Iron, Dissolved	27700	ug/L	100	1		11/05/24 16:38	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		11/05/24 16:38	7439-92-1	
Magnesium, Dissolved	33400	ug/L	1000	1		11/05/24 16:38	7439-95-4	
Manganese, Dissolved	74.2	ug/L	10.0	1		11/05/24 16:38	7439-96-5	
Nickel, Dissolved	<40.0	ug/L	40.0	1		11/05/24 16:38	7440-02-0	
Potassium, Dissolved	55200	ug/L	5000	1		11/05/24 16:38	7440-09-7	
Sodium, Dissolved	99900	ug/L	5000	1		11/05/24 16:38	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		11/05/24 16:38	7440-66-6	
245.1 Mercury, Dissolved		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury, Dissolved	<0.20	ug/L	0.20	1	11/14/24 07:12	11/14/24 13:30	7439-97-6	
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		11/01/24 20:05	18540-29-9	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: TRIP BLANK_11/4/24	Lab ID: 70319475024	Collected: 11/04/24 00:00	Received: 11/04/24 16:17	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		11/07/24 13:50	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/07/24 13:50	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/07/24 13:50	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 13:50	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 13:50	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/07/24 13:50	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/07/24 13:50	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/07/24 13:50	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/07/24 13:50	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/07/24 13:50	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 13:50	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 13:50	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 13:50	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/07/24 13:50	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 13:50	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 13:50	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 13:50	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 13:50	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 13:50	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/07/24 13:50	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		11/07/24 13:50	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/07/24 13:50	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		11/07/24 13:50	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		11/07/24 13:50	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/07/24 13:50	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/07/24 13:50	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		11/07/24 13:50	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/07/24 13:50	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		11/07/24 13:50	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		11/07/24 13:50	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		11/07/24 13:50	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%	80-120	1		11/07/24 13:50	17060-07-0	
4-Bromofluorobenzene (S)	109	%	80-120	1		11/07/24 13:50	460-00-4	
Toluene-d8 (S)	116	%	80-120	1		11/07/24 13:50	2037-26-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: LF-2_11/4/24	Lab ID: 70319475025	Collected: 11/04/24 11:20	Received: 11/04/24 16:17	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum	<200	ug/L	200	1	11/06/24 09:41	11/06/24 16:41	7429-90-5	
Barium	58.1J	ug/L	200	1	11/06/24 09:41	11/06/24 16:41	7440-39-3	
Calcium	41100	ug/L	200	1	11/06/24 09:41	11/06/24 16:41	7440-70-2	
Chromium	9.4J	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:41	7440-47-3	
Copper	<25.0	ug/L	25.0	1	11/06/24 09:41	11/06/24 16:41	7440-50-8	
Iron	8900	ug/L	100	1	11/06/24 09:41	11/06/24 16:41	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/06/24 09:41	11/06/24 16:41	7439-92-1	
Magnesium	22000	ug/L	200	1	11/06/24 09:41	11/06/24 16:41	7439-95-4	
Manganese	130	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:41	7439-96-5	
Nickel	21.8J	ug/L	40.0	1	11/06/24 09:41	11/06/24 16:41	7440-02-0	
Potassium	150000	ug/L	5000	1	11/06/24 09:41	11/06/24 16:41	7440-09-7	
Sodium	430000	ug/L	5000	1	11/06/24 09:41	11/06/24 16:41	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B)	193000	ug/L	830	1	11/06/24 09:41	11/06/24 16:41		
Zinc	<20.0	ug/L	20.0	1	11/06/24 09:41	11/06/24 16:41	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	193000	ug/L	830	1		11/06/24 16:41		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/11/24 08:00	11/11/24 13:18	7439-97-6	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	2.3	ug/L	1.0	1		11/07/24 16:46	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/07/24 16:46	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/07/24 16:46	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 16:46	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 16:46	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/07/24 16:46	56-23-5	
Chlorobenzene	2.6	ug/L	1.0	1		11/07/24 16:46	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/07/24 16:46	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/07/24 16:46	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/07/24 16:46	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 16:46	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 16:46	541-73-1	
1,4-Dichlorobenzene	2.6	ug/L	1.0	1		11/07/24 16:46	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/07/24 16:46	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 16:46	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 16:46	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 16:46	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 16:46	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 16:46	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/07/24 16:46	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: LF-2_11/4/24	Lab ID: 70319475025	Collected: 11/04/24 11:20	Received: 11/04/24 16:17	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Ethylbenzene	<1.0	ug/L	1.0	1		11/07/24 16:46	100-41-4	
Isopropylbenzene (Cumene)	4.1	ug/L	1.0	1		11/07/24 16:46	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		11/07/24 16:46	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		11/07/24 16:46	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/07/24 16:46	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/07/24 16:46	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		11/07/24 16:46	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/07/24 16:46	75-01-4	v3
Xylene (Total)	1.2J	ug/L	3.0	1		11/07/24 16:46	1330-20-7	
m&p-Xylene	1.2J	ug/L	2.0	1		11/07/24 16:46	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		11/07/24 16:46	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	86	%	80-120	1		11/07/24 16:46	17060-07-0	
4-Bromofluorobenzene (S)	104	%	80-120	1		11/07/24 16:46	460-00-4	
Toluene-d8 (S)	103	%	80-120	1		11/07/24 16:46	2037-26-5	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	1590	mg/L	5.0	1		11/12/24 18:12		
Alkalinity,Bicarbonate (CaCO3)	1590	mg/L	5.0	1		11/12/24 18:12		
Alkalinity,Carbonate (CaCO3)	<5.0	mg/L	5.0	1		11/12/24 18:12		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	1800	mg/L	500	1		11/08/24 14:15		
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		11/04/24 22:35	18540-29-9	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Sulfate	4.0J	mg/L	5.0	1		11/18/24 01:21	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	134	mg/L	5.0	10	11/08/24 03:31	11/08/24 22:51	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		11/14/24 13:38	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		11/04/24 23:58	14797-65-0	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: LF-2_11/4/24	Lab ID: 70319475025	Collected: 11/04/24 11:20	Received: 11/04/24 16:17	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	10.7	ug/L	10.0	1	11/06/24 11:05	11/06/24 13:25	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	295	mg/L	20.0	10		11/06/24 10:10	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	166	mg/L	10.0	100		11/06/24 15:26	7664-41-7	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: LF-2_DISS_11/4/25 Lab ID: 70319475026 Collected: 11/04/24 11:20 Received: 11/04/24 16:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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200.7 Metals, Dissolved

Analytical Method: EPA 200.7
Pace Analytical Services - Melville

Aluminum, Dissolved	<200	ug/L	200	1		11/05/24 16:40	7429-90-5	
Barium, Dissolved	61.1J	ug/L	200	1		11/05/24 16:40	7440-39-3	
Calcium, Dissolved	44100	ug/L	1000	1		11/05/24 16:40	7440-70-2	
Chromium, Dissolved	9.8J	ug/L	10.0	1		11/05/24 16:40	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		11/05/24 16:40	7440-50-8	
Iron, Dissolved	9690	ug/L	100	1		11/05/24 16:40	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		11/05/24 16:40	7439-92-1	
Magnesium, Dissolved	22600	ug/L	1000	1		11/05/24 16:40	7439-95-4	
Manganese, Dissolved	137	ug/L	10.0	1		11/05/24 16:40	7439-96-5	
Nickel, Dissolved	22.7J	ug/L	40.0	1		11/05/24 16:40	7440-02-0	
Potassium, Dissolved	155000	ug/L	5000	1		11/05/24 16:40	7440-09-7	
Sodium, Dissolved	438000	ug/L	5000	1		11/05/24 16:40	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		11/05/24 16:40	7440-66-6	

245.1 Mercury, Dissolved

Analytical Method: EPA 245.1 Preparation Method: EPA 245.1
Pace Analytical Services - Melville

Mercury, Dissolved	<0.20	ug/L	0.20	1	11/14/24 07:12	11/14/24 13:31	7439-97-6	
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Chromium, Hexavalent

Analytical Method: SM22 3500-Cr B
Pace Analytical Services - Melville

Chromium, Hexavalent	<0.020	mg/L	0.020	1		11/04/24 22:37	18540-29-9	
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: LF-1_11/4/24	Lab ID: 70319475027	Collected: 11/04/24 15:00	Received: 11/04/24 16:17	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum	<200	ug/L	200	1	11/06/24 09:41	11/06/24 16:52	7429-90-5	
Barium	96.1J	ug/L	200	1	11/06/24 09:41	11/06/24 16:52	7440-39-3	
Calcium	19300	ug/L	200	1	11/06/24 09:41	11/06/24 16:52	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:52	7440-47-3	
Copper	<25.0	ug/L	25.0	1	11/06/24 09:41	11/06/24 16:52	7440-50-8	
Iron	17400	ug/L	100	1	11/06/24 09:41	11/06/24 16:52	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/06/24 09:41	11/06/24 16:52	7439-92-1	
Magnesium	12600	ug/L	200	1	11/06/24 09:41	11/06/24 16:52	7439-95-4	
Manganese	2510	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:52	7439-96-5	
Nickel	9.5J	ug/L	40.0	1	11/06/24 09:41	11/06/24 16:52	7440-02-0	
Potassium	13800	ug/L	5000	1	11/06/24 09:41	11/06/24 16:52	7440-09-7	B
Sodium	95200	ug/L	5000	1	11/06/24 09:41	11/06/24 16:52	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B)	100000	ug/L	830	1	11/06/24 09:41	11/06/24 16:52		
Zinc	<20.0	ug/L	20.0	1	11/06/24 09:41	11/06/24 16:52	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	100000	ug/L	830	1		11/06/24 16:52		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/11/24 08:00	11/11/24 13:19	7439-97-6	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		11/07/24 17:06	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/07/24 17:06	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/07/24 17:06	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 17:06	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 17:06	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/07/24 17:06	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/07/24 17:06	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/07/24 17:06	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/07/24 17:06	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/07/24 17:06	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 17:06	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 17:06	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 17:06	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/07/24 17:06	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 17:06	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 17:06	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 17:06	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 17:06	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 17:06	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/07/24 17:06	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: LF-1_11/4/24	Lab ID: 70319475027	Collected: 11/04/24 15:00	Received: 11/04/24 16:17	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Ethylbenzene	<1.0	ug/L	1.0	1		11/07/24 17:06	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/07/24 17:06	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		11/07/24 17:06	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		11/07/24 17:06	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/07/24 17:06	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/07/24 17:06	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		11/07/24 17:06	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/07/24 17:06	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		11/07/24 17:06	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		11/07/24 17:06	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		11/07/24 17:06	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%	80-120	1		11/07/24 17:06	17060-07-0	
4-Bromofluorobenzene (S)	104	%	80-120	1		11/07/24 17:06	460-00-4	
Toluene-d8 (S)	111	%	80-120	1		11/07/24 17:06	2037-26-5	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	78.2	mg/L	1.0	1		11/15/24 12:27		
Alkalinity,Bicarbonate (CaCO3)	78.2	mg/L	1.0	1		11/15/24 12:27		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		11/15/24 12:27		L2
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	413	mg/L	25.0	1		11/08/24 14:19		
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		11/04/24 22:37	18540-29-9	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Sulfate	25.8	mg/L	5.0	1		11/18/24 01:38	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	0.56	mg/L	0.10	1	11/08/24 03:31	11/08/24 22:28	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		11/14/24 13:39	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		11/05/24 00:06	14797-65-0	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: LF-1_11/4/24		Lab ID: 70319475027		Collected: 11/04/24 15:00	Received: 11/04/24 16:17	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville						
Cyanide	7.5J	ug/L	10.0	1	11/06/24 11:05	11/06/24 13:26	57-12-5	
4500 Chloride		Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville						
Chloride	101	mg/L	20.0	10		11/06/24 10:11	16887-00-6	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	0.31	mg/L	0.10	1		11/06/24 14:43	7664-41-7	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: LF-1_DISS_11/4/25	Lab ID: 70319475028	Collected: 11/04/24 15:00	Received: 11/04/24 16:17	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved		Analytical Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum, Dissolved	<200	ug/L	200	1		11/05/24 16:41	7429-90-5	
Barium, Dissolved	97.1J	ug/L	200	1		11/05/24 16:41	7440-39-3	
Calcium, Dissolved	20000	ug/L	1000	1		11/05/24 16:41	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		11/05/24 16:41	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		11/05/24 16:41	7440-50-8	
Iron, Dissolved	18200	ug/L	100	1		11/05/24 16:41	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		11/05/24 16:41	7439-92-1	
Magnesium, Dissolved	12900	ug/L	1000	1		11/05/24 16:41	7439-95-4	
Manganese, Dissolved	2520	ug/L	10.0	1		11/05/24 16:41	7439-96-5	
Nickel, Dissolved	8.7J	ug/L	40.0	1		11/05/24 16:41	7440-02-0	
Potassium, Dissolved	12800	ug/L	5000	1		11/05/24 16:41	7440-09-7	
Sodium, Dissolved	94400	ug/L	5000	1		11/05/24 16:41	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		11/05/24 16:41	7440-66-6	
245.1 Mercury, Dissolved		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury, Dissolved	<0.20	ug/L	0.20	1	11/14/24 07:12	11/14/24 13:32	7439-97-6	
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		11/04/24 22:37	18540-29-9	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: FIELD BLANK_11/4/24 Lab ID: 70319475029 Collected: 11/04/24 15:30 Received: 11/04/24 16:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum	<200	ug/L	200	1	11/06/24 09:41	11/06/24 16:54	7429-90-5	
Barium	<200	ug/L	200	1	11/06/24 09:41	11/06/24 16:54	7440-39-3	
Calcium	40.0J	ug/L	200	1	11/06/24 09:41	11/06/24 16:54	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:54	7440-47-3	
Copper	<25.0	ug/L	25.0	1	11/06/24 09:41	11/06/24 16:54	7440-50-8	
Iron	59.4J	ug/L	100	1	11/06/24 09:41	11/06/24 16:54	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/06/24 09:41	11/06/24 16:54	7439-92-1	
Magnesium	<200	ug/L	200	1	11/06/24 09:41	11/06/24 16:54	7439-95-4	
Manganese	<10.0	ug/L	10.0	1	11/06/24 09:41	11/06/24 16:54	7439-96-5	
Nickel	<40.0	ug/L	40.0	1	11/06/24 09:41	11/06/24 16:54	7440-02-0	
Potassium	1470J	ug/L	5000	1	11/06/24 09:41	11/06/24 16:54	7440-09-7	B
Sodium	<5000	ug/L	5000	1	11/06/24 09:41	11/06/24 16:54	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B)	<830	ug/L	830	1	11/06/24 09:41	11/06/24 16:54		
Zinc	4.8J	ug/L	20.0	1	11/06/24 09:41	11/06/24 16:54	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	<830	ug/L	830	1		11/06/24 16:54		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury	<0.20	ug/L	0.20	1	11/12/24 07:17	11/12/24 14:39	7439-97-6	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		11/07/24 14:09	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/07/24 14:09	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/07/24 14:09	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 14:09	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/07/24 14:09	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/07/24 14:09	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/07/24 14:09	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/07/24 14:09	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/07/24 14:09	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/07/24 14:09	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 14:09	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 14:09	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		11/07/24 14:09	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/07/24 14:09	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 14:09	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/07/24 14:09	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 14:09	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 14:09	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/07/24 14:09	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/07/24 14:09	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample:	FIELD BLANK_11/4/24	Lab ID:	70319475029	Collected:	11/04/24 15:30	Received:	11/04/24 16:17	Matrix:	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Ethylbenzene	<1.0	ug/L	1.0	1		11/07/24 14:09	100-41-4		
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/07/24 14:09	98-82-8		
Methylene Chloride	<1.0	ug/L	1.0	1		11/07/24 14:09	75-09-2		
Tetrachloroethene	<1.0	ug/L	1.0	1		11/07/24 14:09	127-18-4		
Toluene	<1.0	ug/L	1.0	1		11/07/24 14:09	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/07/24 14:09	71-55-6		
Trichloroethene	<1.0	ug/L	1.0	1		11/07/24 14:09	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		11/07/24 14:09	75-01-4	v3	
Xylene (Total)	<3.0	ug/L	3.0	1		11/07/24 14:09	1330-20-7		
m&p-Xylene	<2.0	ug/L	2.0	1		11/07/24 14:09	179601-23-1		
o-Xylene	<1.0	ug/L	1.0	1		11/07/24 14:09	95-47-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	86	%	80-120	1		11/07/24 14:09	17060-07-0		
4-Bromofluorobenzene (S)	106	%	80-120	1		11/07/24 14:09	460-00-4		
Toluene-d8 (S)	114	%	80-120	1		11/07/24 14:09	2037-26-5		
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	<1.0	mg/L	1.0	1		11/15/24 12:31			
Alkalinity,Bicarbonate (CaCO3)	<1.0	mg/L	1.0	1		11/15/24 12:31			
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		11/15/24 12:31		L2	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	<25.0	mg/L	25.0	1		11/08/24 14:19			
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	<0.020	mg/L	0.020	1		11/04/24 22:38	18540-29-9		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	<5.0	mg/L	5.0	1		11/18/24 02:30	14808-79-8		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	<0.10	mg/L	0.10	1	11/08/24 03:31	11/08/24 22:29	7727-37-9		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	<0.050	mg/L	0.050	1		11/14/24 13:41	7727-37-9		
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050	1		11/05/24 00:07	14797-65-0		

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: FIELD BLANK_11/4/24		Lab ID: 70319475029		Collected: 11/04/24 15:30	Received: 11/04/24 16:17	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville						
Cyanide	<10.0	ug/L	10.0	1	11/06/24 11:05	11/06/24 13:27	57-12-5	
4500 Chloride		Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville						
Chloride	<2.0	mg/L	2.0	1		11/06/24 10:12	16887-00-6	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	<0.10	mg/L	0.10	1		11/06/24 14:44	7664-41-7	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Sample: FIELD Lab ID: 70319475030 Collected: 11/04/24 15:30 Received: 11/04/24 16:17 Matrix: Water
 BLANK DISS 11/4/25

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved		Analytical Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum, Dissolved	<200	ug/L	200	1		11/05/24 16:42	7429-90-5	
Barium, Dissolved	<200	ug/L	200	1		11/05/24 16:42	7440-39-3	
Calcium, Dissolved	29.9J	ug/L	1000	1		11/05/24 16:42	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		11/05/24 16:42	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		11/05/24 16:42	7440-50-8	
Iron, Dissolved	29.1J	ug/L	100	1		11/05/24 16:42	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		11/05/24 16:42	7439-92-1	
Magnesium, Dissolved	<1000	ug/L	1000	1		11/05/24 16:42	7439-95-4	
Manganese, Dissolved	<10.0	ug/L	10.0	1		11/05/24 16:42	7439-96-5	
Nickel, Dissolved	<40.0	ug/L	40.0	1		11/05/24 16:42	7440-02-0	
Potassium, Dissolved	<5000	ug/L	5000	1		11/05/24 16:42	7440-09-7	
Sodium, Dissolved	<5000	ug/L	5000	1		11/05/24 16:42	7440-23-5	
Zinc, Dissolved	<20.0	ug/L	20.0	1		11/05/24 16:42	7440-66-6	
245.1 Mercury, Dissolved		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury, Dissolved	<0.20	ug/L	0.20	1	11/14/24 07:12	11/14/24 13:34	7439-97-6	
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		11/04/24 22:38	18540-29-9	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	368769	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475003, 70319475005, 70319475007

METHOD BLANK: 1926018 Matrix: Water

Associated Lab Samples: 70319475003, 70319475005, 70319475007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	10/31/24 11:15	
Barium, Dissolved	ug/L	<200	200	10/31/24 11:15	
Calcium, Dissolved	ug/L	<1000	1000	10/31/24 11:15	
Chromium, Dissolved	ug/L	<10.0	10.0	10/31/24 11:15	
Copper, Dissolved	ug/L	<25.0	25.0	10/31/24 11:15	
Iron, Dissolved	ug/L	<100	100	10/31/24 11:15	
Lead, Dissolved	ug/L	<5.0	5.0	10/31/24 11:15	
Magnesium, Dissolved	ug/L	<1000	1000	10/31/24 11:15	
Manganese, Dissolved	ug/L	<10.0	10.0	10/31/24 11:15	
Nickel, Dissolved	ug/L	<40.0	40.0	10/31/24 11:15	
Potassium, Dissolved	ug/L	<5000	5000	10/31/24 11:15	
Sodium, Dissolved	ug/L	<5000	5000	10/31/24 11:15	
Zinc, Dissolved	ug/L	<20.0	20.0	10/31/24 11:15	

LABORATORY CONTROL SAMPLE & LCSD: 1926019 1926020

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	25000	24700	24700	99	99	85-115	0	20	
Barium, Dissolved	ug/L	500	498	497	100	99	85-115	0	20	
Calcium, Dissolved	ug/L	25000	25800	25800	103	103	85-115	0	20	
Chromium, Dissolved	ug/L	500	498	497	100	99	85-115	0	20	
Copper, Dissolved	ug/L	500	500	500	100	100	85-115	0	20	
Iron, Dissolved	ug/L	12500	12900	12900	103	103	85-115	0	20	
Lead, Dissolved	ug/L	500	505	506	101	101	85-115	0	20	
Magnesium, Dissolved	ug/L	25000	25000	25000	100	100	85-115	0	20	
Manganese, Dissolved	ug/L	500	500	500	100	100	85-115	0	20	
Nickel, Dissolved	ug/L	500	508	508	102	102	85-115	0	20	
Potassium, Dissolved	ug/L	25000	23900	23900	96	96	85-115	0	20	
Sodium, Dissolved	ug/L	25000	24700	24700	99	99	85-115	0	20	
Zinc, Dissolved	ug/L	500	509	508	102	102	85-115	0	20	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	369359	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70319475010, 70319475012, 70319475014, 70319475016, 70319475019, 70319475021, 70319475023, 70319475026, 70319475028, 70319475030		

METHOD BLANK: 1929973 Matrix: Water
 Associated Lab Samples: 70319475010, 70319475012, 70319475014, 70319475016, 70319475019, 70319475021, 70319475023, 70319475026, 70319475028, 70319475030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	11/05/24 16:18	
Barium, Dissolved	ug/L	<200	200	11/05/24 16:18	
Calcium, Dissolved	ug/L	<1000	1000	11/05/24 16:18	
Chromium, Dissolved	ug/L	<10.0	10.0	11/05/24 16:18	
Copper, Dissolved	ug/L	<25.0	25.0	11/05/24 16:18	
Iron, Dissolved	ug/L	<100	100	11/05/24 16:18	
Lead, Dissolved	ug/L	<5.0	5.0	11/05/24 16:18	
Magnesium, Dissolved	ug/L	<1000	1000	11/05/24 16:18	
Manganese, Dissolved	ug/L	<10.0	10.0	11/05/24 16:18	
Nickel, Dissolved	ug/L	<40.0	40.0	11/05/24 16:18	
Potassium, Dissolved	ug/L	<5000	5000	11/05/24 16:18	
Sodium, Dissolved	ug/L	<5000	5000	11/05/24 16:18	
Zinc, Dissolved	ug/L	<20.0	20.0	11/05/24 16:18	

LABORATORY CONTROL SAMPLE: 1929974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	25000	24600	98	85-115	
Barium, Dissolved	ug/L	500	489	98	85-115	
Calcium, Dissolved	ug/L	25000	25400	102	85-115	
Chromium, Dissolved	ug/L	500	501	100	85-115	
Copper, Dissolved	ug/L	500	497	99	85-115	
Iron, Dissolved	ug/L	12500	12800	102	85-115	
Lead, Dissolved	ug/L	500	508	102	85-115	
Magnesium, Dissolved	ug/L	25000	24700	99	85-115	
Manganese, Dissolved	ug/L	500	498	100	85-115	
Nickel, Dissolved	ug/L	500	508	102	85-115	
Potassium, Dissolved	ug/L	25000	24000	96	85-115	
Sodium, Dissolved	ug/L	25000	24700	99	85-115	
Zinc, Dissolved	ug/L	500	508	102	85-115	

MATRIX SPIKE SAMPLE: 1929976

Parameter	Units	70319475010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	12500	13100	105	70-130	
Barium, Dissolved	ug/L	82.4J	500	590	102	70-130	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

MATRIX SPIKE SAMPLE: 1929976		70319475010	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Calcium, Dissolved	ug/L	19500	12500	31500	96	70-130	
Chromium, Dissolved	ug/L	<10.0	500	533	107	70-130	
Copper, Dissolved	ug/L	<25.0	500	532	106	70-130	
Iron, Dissolved	ug/L	<100	5000	5260	105	70-130	
Lead, Dissolved	ug/L	<5.0	500	534	107	70-130	
Magnesium, Dissolved	ug/L	5250	12500	17300	96	70-130	
Manganese, Dissolved	ug/L	675	500	1160	97	70-130	
Nickel, Dissolved	ug/L	17.9J	500	531	103	70-130	
Potassium, Dissolved	ug/L	9000	12500	21700	102	70-130	
Sodium, Dissolved	ug/L	113000	12500	120000	56	70-130	M1
Zinc, Dissolved	ug/L	34.5	500	576	108	70-130	

SAMPLE DUPLICATE: 1929975

Parameter	Units	70319475010	Dup	RPD	Qualifiers
		Result	Result		
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	82.4J	82.5J		
Calcium, Dissolved	ug/L	19500	19400	1	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	<100	<100		
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	5250	5240	0	
Manganese, Dissolved	ug/L	675	675	0	
Nickel, Dissolved	ug/L	17.9J	18.1J		
Potassium, Dissolved	ug/L	9000	8970	0	
Sodium, Dissolved	ug/L	113000	112000	1	
Zinc, Dissolved	ug/L	34.5	34.5	0	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	369474	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475002, 70319475004, 70319475006

METHOD BLANK: 1930825 Matrix: Water

Associated Lab Samples: 70319475002, 70319475004, 70319475006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	11/06/24 15:35	

LABORATORY CONTROL SAMPLE: 1930826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.0	105	85-115	

MATRIX SPIKE SAMPLE: 1930827

Parameter	Units	70319276006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.3	118	70-130	

MATRIX SPIKE SAMPLE: 1930829

Parameter	Units	70319707001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.26	1	1.4	109	70-130	

SAMPLE DUPLICATE: 1930828

Parameter	Units	70319276006 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1930830

Parameter	Units	70319707001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	0.26	0.24	8	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch: 369720

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70319475009, 70319475011

METHOD BLANK: 1932358

Matrix: Water

Associated Lab Samples: 70319475009, 70319475011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	11/07/24 15:57	

LABORATORY CONTROL SAMPLE: 1932359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.93	93	85-115	

MATRIX SPIKE SAMPLE: 1932362

Parameter	Units	70319475011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.3	133	70-130	M1

MATRIX SPIKE SAMPLE: 1932423

Parameter	Units	70319475009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.3	130	70-130	

SAMPLE DUPLICATE: 1932363

Parameter	Units	70319475011 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1932424

Parameter	Units	70319475009 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	370181	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475013, 70319475015, 70319475018, 70319475020, 70319475022, 70319475025, 70319475027

METHOD BLANK: 1934769 Matrix: Water
 Associated Lab Samples: 70319475013, 70319475015, 70319475018, 70319475020, 70319475022, 70319475025, 70319475027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	11/11/24 12:45	

LABORATORY CONTROL SAMPLE: 1934770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.94	94	85-115	

MATRIX SPIKE SAMPLE: 1934771

Parameter	Units	70319475013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.4	129	70-130	

MATRIX SPIKE SAMPLE: 1934773

Parameter	Units	70319475015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.4	132	70-130	M1

SAMPLE DUPLICATE: 1934772

Parameter	Units	70319475013 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1934774

Parameter	Units	70319475015 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	370320	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475029

METHOD BLANK: 1936068 Matrix: Water

Associated Lab Samples: 70319475029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	11/12/24 14:32	

LABORATORY CONTROL SAMPLE: 1936069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.90	90	85-115	

MATRIX SPIKE SAMPLE: 1936070

Parameter	Units	70320463002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.39	1	1.6	124	70-130	

MATRIX SPIKE SAMPLE: 1936072

Parameter	Units	70320892002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.2	110	70-130	

SAMPLE DUPLICATE: 1936071

Parameter	Units	70320463002 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	0.39	0.36	8	

SAMPLE DUPLICATE: 1936073

Parameter	Units	70320892002 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	370754	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70319475003, 70319475005, 70319475007, 70319475010, 70319475012, 70319475014, 70319475016, 70319475019, 70319475021, 70319475023, 70319475026, 70319475028, 70319475030		

METHOD BLANK:	1938696	Matrix:	Water
Associated Lab Samples:	70319475003, 70319475005, 70319475007, 70319475010, 70319475012, 70319475014, 70319475016, 70319475019, 70319475021, 70319475023, 70319475026, 70319475028, 70319475030		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.20	0.20	11/14/24 13:09	

LABORATORY CONTROL SAMPLE: 1938697						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	1	0.97	97	85-115	

MATRIX SPIKE SAMPLE: 1938698							
Parameter	Units	70319475003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	<0.20	1	0.93	89	70-130	

MATRIX SPIKE SAMPLE: 1938700							
Parameter	Units	70320463005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	<0.20	1	0.99	93	70-130	

SAMPLE DUPLICATE: 1938699					
Parameter	Units	70319475003 Result	Dup Result	RPD	Qualifiers
Mercury, Dissolved	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1938701					
Parameter	Units	70320463005 Result	Dup Result	RPD	Qualifiers
Mercury, Dissolved	ug/L	<0.20	<0.20		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	368730	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475002, 70319475004, 70319475006

METHOD BLANK: 1925887 Matrix: Water

Associated Lab Samples: 70319475002, 70319475004, 70319475006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	10/31/24 15:38	
Barium	ug/L	<200	200	10/31/24 15:38	
Calcium	ug/L	<200	200	10/31/24 15:38	
Chromium	ug/L	<10.0	10.0	10/31/24 15:38	
Copper	ug/L	<25.0	25.0	10/31/24 15:38	
Iron	ug/L	<100	100	10/31/24 15:38	
Lead	ug/L	<5.0	5.0	10/31/24 15:38	
Magnesium	ug/L	<200	200	10/31/24 15:38	
Manganese	ug/L	<10.0	10.0	10/31/24 15:38	
Nickel	ug/L	<40.0	40.0	10/31/24 15:38	
Potassium	ug/L	<5000	5000	10/31/24 15:38	
Sodium	ug/L	<5000	5000	10/31/24 15:38	
Tot Hardness asCaCO3 (SM 2340B)	ug/L	<830	830	10/31/24 15:38	
Zinc	ug/L	<20.0	20.0	10/31/24 15:38	

LABORATORY CONTROL SAMPLE: 1925888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	24300	97	85-115	
Barium	ug/L	500	502	100	85-115	
Calcium	ug/L	25000	25600	102	85-115	
Chromium	ug/L	500	494	99	85-115	
Copper	ug/L	500	501	100	85-115	
Iron	ug/L	12500	12900	103	85-115	
Lead	ug/L	500	501	100	85-115	
Magnesium	ug/L	25000	24800	99	85-115	
Manganese	ug/L	500	499	100	85-115	
Nickel	ug/L	500	509	102	85-115	
Potassium	ug/L	25000	24100	96	85-115	
Sodium	ug/L	25000	23900	96	85-115	
Tot Hardness asCaCO3 (SM 2340B)	ug/L		166000			
Zinc	ug/L	500	504	101	85-115	

MATRIX SPIKE SAMPLE: 1925890

Parameter	Units	70319480002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	12500	12800	102	70-130	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

MATRIX SPIKE SAMPLE: 1925890		70319480002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Barium	ug/L	22.2J	500	551	106	70-130	
Calcium	ug/L	25500	12500	39000	108	70-130	
Chromium	ug/L	<10.0	500	531	106	70-130	
Copper	ug/L	0.010J mg/L	500	552	108	70-130	
Iron	ug/L	317	5000	5670	107	70-130	
Lead	ug/L	<5.0	500	530	106	70-130	
Magnesium	ug/L	11100	12500	23700	101	70-130	
Manganese	ug/L	108	500	633	105	70-130	
Nickel	ug/L	18.9J	500	533	103	70-130	
Potassium	ug/L	12500	12500	25500	104	70-130	
Sodium	ug/L	60800	12500	74700	111	70-130	
Tot Hardness asCaCO3 (SM 2340B)	ug/L	109000		195000			
Zinc	ug/L	23.8	500	558	107	70-130	

MATRIX SPIKE SAMPLE: 1925892		70319392001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Aluminum	ug/L	<200	12500	13300	106	70-130	
Barium	ug/L	<200	500	685	104	70-130	
Calcium	ug/L	163000	12500	168000	40	70-130	M1
Chromium	ug/L	<10.0	500	533	105	70-130	
Copper	ug/L	<25.0	500	518	104	70-130	
Iron	ug/L	270	5000	5510	105	70-130	
Lead	ug/L	<5.0	500	518	104	70-130	
Magnesium	ug/L	98500	12500	107000	68	70-130	M1
Manganese	ug/L	462	500	960	100	70-130	
Nickel	ug/L	<40.0	500	536	100	70-130	
Potassium	ug/L	166000	12500	173000	56	70-130	M1
Sodium	ug/L	581000	12500	567000	-112	70-130	M1
Tot Hardness asCaCO3 (SM 2340B)	ug/L	813000		860000			
Zinc	ug/L	<20.0	500	521	104	70-130	

SAMPLE DUPLICATE: 1925889		70319480002	Dup	RPD	Qualifiers
Parameter	Units	Result	Result		
Aluminum	ug/L	<200	<200		
Barium	ug/L	22.2J	22.7J		
Calcium	ug/L	25500	26100	2	
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	0.010J mg/L	10.2J		
Iron	ug/L	317	323	2	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	11100	11400	3	
Manganese	ug/L	108	111	3	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

SAMPLE DUPLICATE: 1925889

Parameter	Units	70319480002 Result	Dup Result	RPD	Qualifiers
Nickel	ug/L	18.9J	19.7J		
Potassium	ug/L	12500	12900	3	
Sodium	ug/L	60800	62000	2	
Tot Hardness asCaCO3 (SM 2340B	ug/L	109000	112000	2	
Zinc	ug/L	23.8	23.7	0	

SAMPLE DUPLICATE: 1925891

Parameter	Units	70319392001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	<200	162J		
Calcium	ug/L	163000	158000	3	
Chromium	ug/L	<10.0	5.8J		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	270	264	2	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	98500	95600	3	
Manganese	ug/L	462	449	3	
Nickel	ug/L	<40.0	34.7J		
Potassium	ug/L	166000	162000	2	
Sodium	ug/L	581000	562000	3	
Tot Hardness asCaCO3 (SM 2340B	ug/L	813000	788000	3	
Zinc	ug/L	<20.0	<20.0		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch: 369495 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Laboratory: Pace Analytical Services - Melville
 Associated Lab Samples: 70319475009, 70319475011, 70319475013, 70319475015, 70319475018, 70319475020, 70319475022, 70319475025, 70319475027, 70319475029

METHOD BLANK: 1930929 Matrix: Water
 Associated Lab Samples: 70319475009, 70319475011, 70319475013, 70319475015, 70319475018, 70319475020, 70319475022, 70319475025, 70319475027, 70319475029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	11/06/24 16:08	
Barium	ug/L	<200	200	11/06/24 16:08	
Calcium	ug/L	<200	200	11/06/24 16:08	
Chromium	ug/L	<10.0	10.0	11/06/24 16:08	
Copper	ug/L	<25.0	25.0	11/06/24 16:08	
Iron	ug/L	<100	100	11/06/24 16:08	
Lead	ug/L	<5.0	5.0	11/06/24 16:08	
Magnesium	ug/L	<200	200	11/06/24 16:08	
Manganese	ug/L	<10.0	10.0	11/06/24 16:08	
Nickel	ug/L	<40.0	40.0	11/06/24 16:08	
Potassium	ug/L	1570J	5000	11/06/24 16:08	
Sodium	ug/L	<5000	5000	11/06/24 16:08	
Tot Hardness asCaCO3 (SM 2340B)	ug/L	<830	830	11/06/24 16:08	
Zinc	ug/L	<20.0	20.0	11/06/24 16:08	

LABORATORY CONTROL SAMPLE: 1930930

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	24200	97	85-115	
Barium	ug/L	500	475	95	85-115	
Calcium	ug/L	25000	23900	96	85-115	
Chromium	ug/L	500	489	98	85-115	
Copper	ug/L	500	478	96	85-115	
Iron	ug/L	12500	12000	96	85-115	
Lead	ug/L	500	486	97	85-115	
Magnesium	ug/L	25000	23600	94	85-115	
Manganese	ug/L	500	488	98	85-115	
Nickel	ug/L	500	490	98	85-115	
Potassium	ug/L	25000	24700	99	85-115	
Sodium	ug/L	25000	24200	97	85-115	
Tot Hardness asCaCO3 (SM 2340B)	ug/L		157000			
Zinc	ug/L	500	475	95	85-115	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

MATRIX SPIKE SAMPLE: 1930932		70319475009	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Aluminum	ug/L	<200	12500	12700	101	70-130	
Barium	ug/L	81.0J	500	573	98	70-130	
Calcium	ug/L	18800	12500	31000	98	70-130	
Chromium	ug/L	<10.0	500	517	103	70-130	
Copper	ug/L	<25.0	500	508	102	70-130	
Iron	ug/L	<100	5000	4910	98	70-130	
Lead	ug/L	<5.0	500	508	102	70-130	
Magnesium	ug/L	5100	12500	16800	94	70-130	
Manganese	ug/L	668	500	1170	100	70-130	
Nickel	ug/L	18.7J	500	507	98	70-130	
Potassium	ug/L	10300	12500	23100	102	70-130	
Sodium	ug/L	113000	12500	126000	104	70-130	
Tot Hardness asCaCO3 (SM 2340B	ug/L	67900		147000			
Zinc	ug/L	33.1	500	536	101	70-130	

MATRIX SPIKE SAMPLE: 1930934		70319475011	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Aluminum	ug/L	71.7J	12500	12600	100	70-130	
Barium	ug/L	80.3J	500	571	98	70-130	
Calcium	ug/L	7430	12500	19500	97	70-130	
Chromium	ug/L	<10.0	500	514	103	70-130	
Copper	ug/L	<25.0	500	504	101	70-130	
Iron	ug/L	<100	5000	4910	98	70-130	
Lead	ug/L	<5.0	500	509	102	70-130	
Magnesium	ug/L	5450	12500	17100	93	70-130	
Manganese	ug/L	103	500	607	101	70-130	
Nickel	ug/L	12.2J	500	498	97	70-130	
Potassium	ug/L	6930	12500	18900	96	70-130	
Sodium	ug/L	25500	12500	37700	98	70-130	
Tot Hardness asCaCO3 (SM 2340B	ug/L	41000		119000			
Zinc	ug/L	11.0J	500	511	100	70-130	

SAMPLE DUPLICATE: 1930931		70319475009	Dup	RPD	Qualifiers
Parameter	Units	Result	Result		
Aluminum	ug/L	<200	<200		
Barium	ug/L	81.0J	80.7J		
Calcium	ug/L	18800	18700	1	
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	<100	<100		
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	5100	5080	0	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

SAMPLE DUPLICATE: 1930931

Parameter	Units	70319475009 Result	Dup Result	RPD	Qualifiers
Manganese	ug/L	668	664		1
Nickel	ug/L	18.7J	19.0J		
Potassium	ug/L	10300	10200		1
Sodium	ug/L	113000	112000		1
Tot Hardness asCaCO3 (SM 2340B)	ug/L	67900	67600		0
Zinc	ug/L	33.1	32.9		1

SAMPLE DUPLICATE: 1930933

Parameter	Units	70319475011 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	71.7J	73.5J		
Barium	ug/L	80.3J	81.0J		
Calcium	ug/L	7430	7480		1
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	<100	<100		
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	5450	5470		0
Manganese	ug/L	103	103		0
Nickel	ug/L	12.2J	12.6J		
Potassium	ug/L	6930	6900		0
Sodium	ug/L	25500	25600		0
Tot Hardness asCaCO3 (SM 2340B)	ug/L	41000	41200		1
Zinc	ug/L	11.0J	11.1J		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch: 368696

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70319475001, 70319475002, 70319475004

METHOD BLANK: 1925780

Matrix: Water

Associated Lab Samples: 70319475001, 70319475002, 70319475004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	10/30/24 17:25	
1,1-Dichloroethane	ug/L	<1.0	1.0	10/30/24 17:25	
1,1-Dichloroethene	ug/L	<1.0	1.0	10/30/24 17:25	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	10/30/24 17:25	
1,2-Dichloroethane	ug/L	<1.0	1.0	10/30/24 17:25	
1,2-Dichloropropane	ug/L	<1.0	1.0	10/30/24 17:25	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	10/30/24 17:25	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	10/30/24 17:25	
Benzene	ug/L	<1.0	1.0	10/30/24 17:25	
Bromodichloromethane	ug/L	<1.0	1.0	10/30/24 17:25	
Bromoform	ug/L	<1.0	1.0	10/30/24 17:25	
Carbon tetrachloride	ug/L	<1.0	1.0	10/30/24 17:25	
Chlorobenzene	ug/L	<1.0	1.0	10/30/24 17:25	
Chloroethane	ug/L	<1.0	1.0	10/30/24 17:25	
Chloroform	ug/L	<1.0	1.0	10/30/24 17:25	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	10/30/24 17:25	
Dibromochloromethane	ug/L	<1.0	1.0	10/30/24 17:25	
Dichlorodifluoromethane	ug/L	<1.0	1.0	10/30/24 17:25	IL
Ethylbenzene	ug/L	<1.0	1.0	10/30/24 17:25	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	10/30/24 17:25	
m&p-Xylene	ug/L	<2.0	2.0	10/30/24 17:25	
Methylene Chloride	ug/L	<1.0	1.0	10/30/24 17:25	
n-Butylbenzene	ug/L	<1.0	1.0	10/30/24 17:25	
o-Xylene	ug/L	<1.0	1.0	10/30/24 17:25	
tert-Butylbenzene	ug/L	<1.0	1.0	10/30/24 17:25	
Tetrachloroethene	ug/L	<1.0	1.0	10/30/24 17:25	
Toluene	ug/L	<1.0	1.0	10/30/24 17:25	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	10/30/24 17:25	
Trichloroethene	ug/L	<1.0	1.0	10/30/24 17:25	
Vinyl chloride	ug/L	<1.0	1.0	10/30/24 17:25	
Xylene (Total)	ug/L	<3.0	3.0	10/30/24 17:25	
1,2-Dichloroethane-d4 (S)	%	89	80-120	10/30/24 17:25	
4-Bromofluorobenzene (S)	%	97	80-120	10/30/24 17:25	
Toluene-d8 (S)	%	100	80-120	10/30/24 17:25	

LABORATORY CONTROL SAMPLE: 1925781

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.3	115	72-122	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

LABORATORY CONTROL SAMPLE: 1925781

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	50	50.2	100	72-131	
1,1-Dichloroethene	ug/L	50	53.7	107	71-128	
1,2-Dichlorobenzene	ug/L	50	50.0	100	75-112	
1,2-Dichloroethane	ug/L	50	38.9	78	74-118	
1,2-Dichloropropane	ug/L	50	47.7	95	75-121	
1,3-Dichlorobenzene	ug/L	50	53.3	107	72-119	
1,4-Dichlorobenzene	ug/L	50	52.1	104	74-114	
Benzene	ug/L	50	53.0	106	74-121	
Bromodichloromethane	ug/L	50	47.1	94	76-121	
Bromoform	ug/L	50	44.4	89	60-135	
Carbon tetrachloride	ug/L	50	56.4	113	69-129	
Chlorobenzene	ug/L	50	53.0	106	82-113	
Chloroethane	ug/L	50	50.3	101	59-140	IH
Chloroform	ug/L	50	49.6	99	78-126	
cis-1,2-Dichloroethene	ug/L	50	49.6	99	78-128	
Dibromochloromethane	ug/L	50	46.6	93	70-125	
Dichlorodifluoromethane	ug/L	50	49.9	100	22-145	IL
Ethylbenzene	ug/L	50	56.4	113	79-113	
Isopropylbenzene (Cumene)	ug/L	50	57.8	116	73-117	
m&p-Xylene	ug/L	100	114	114	81-113	L1
Methylene Chloride	ug/L	50	48.0	96	70-127	
n-Butylbenzene	ug/L	50	57.6	115	71-124	
o-Xylene	ug/L	50	54.9	110	79-112	
tert-Butylbenzene	ug/L	50	57.2	114	69-120	
Tetrachloroethene	ug/L	50	58.7	117	76-123	
Toluene	ug/L	50	73.1	146	82-118	L1,v1
trans-1,2-Dichloroethene	ug/L	50	55.7	111	73-130	
Trichloroethene	ug/L	50	57.1	114	82-123	
Vinyl chloride	ug/L	50	51.8	104	51-144	
Xylene (Total)	ug/L	150	169	113	81-112	LS
1,2-Dichloroethane-d4 (S)	%			81	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1926168 1926169

Parameter	Units	70319450002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1-Trichloroethane	ug/L	<1.0	50	50	57.5	55.3	115	111	69-137	4					
1,1-Dichloroethane	ug/L	<1.0	50	50	55.9	52.7	112	105	74-136	6					
1,1-Dichloroethene	ug/L	<1.0	50	50	56.7	52.0	113	104	74-138	9					
1,2-Dichlorobenzene	ug/L	<1.0	50	50	56.6	55.9	113	112	75-119	1					
1,2-Dichloroethane	ug/L	<1.0	50	50	52.7	51.0	105	102	74-121	3					
1,2-Dichloropropane	ug/L	<1.0	50	50	56.7	55.5	113	111	75-127	2					
1,3-Dichlorobenzene	ug/L	<1.0	50	50	58.8	56.9	118	114	70-123	3					

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Parameter	70319450002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
1,4-Dichlorobenzene	ug/L	<1.0	50	50	58.0	56.0	116	112	74-120	3				
Benzene	ug/L	<1.0	50	50	57.0	55.4	114	111	70-133	3				
Bromodichloromethane	ug/L	<1.0	50	50	56.8	55.6	114	111	76-129	2				
Bromoform	ug/L	<1.0	50	50	53.3	53.8	107	108	51-140	1				
Carbon tetrachloride	ug/L	<1.0	50	50	56.8	53.8	114	108	59-146	5				
Chlorobenzene	ug/L	<1.0	50	50	58.1	56.1	116	112	77-124	4				
Chloroethane	ug/L	<1.0	50	50	53.3	50.6	107	101	56-158	5	IH			
Chloroform	ug/L	<1.0	50	50	57.3	53.9	115	108	80-133	6				
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	58.0	53.8	116	108	78-135	8				
Dibromochloromethane	ug/L	<1.0	50	50	56.1	55.3	112	111	65-132	1				
Dichlorodifluoromethane	ug/L	<1.0	50	50	50.3	46.3	101	93	13-157	8	IL			
Ethylbenzene	ug/L	<1.0	50	50	58.9	55.8	118	112	71-126	5				
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	56.2	53.0	112	106	76-126	6				
m&p-Xylene	ug/L	<2.0	100	100	121	114	121	114	78-120	5	M0			
Methylene Chloride	ug/L	<1.0	50	50	59.2	56.1	118	112	73-132	5				
n-Butylbenzene	ug/L	<1.0	50	50	61.1	56.8	122	114	70-137	7				
o-Xylene	ug/L	<1.0	50	50	59.8	57.3	120	115	74-121	4				
tert-Butylbenzene	ug/L	<1.0	50	50	58.3	54.6	117	109	72-128	7				
Tetrachloroethene	ug/L	<1.0	50	50	58.6	54.3	117	109	72-131	8				
Toluene	ug/L	<1.0	50	50	59.9	57.5	120	115	72-135	4	v1			
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	60.1	57.4	120	115	77-138	5				
Trichloroethene	ug/L	<1.0	50	50	58.0	55.0	116	110	79-137	5				
Vinyl chloride	ug/L	<1.0	50	50	53.3	49.3	107	99	48-158	8				
Xylene (Total)	ug/L	<3.0	150	150	180	172	120	114	77-120	5	MS			
1,2-Dichloroethane-d4 (S)	%						95	93	80-120					
4-Bromofluorobenzene (S)	%						102	102	80-120					
Toluene-d8 (S)	%						98	98	80-120					

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch: 369765 Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70319475006, 70319475008, 70319475011, 70319475015, 70319475017, 70319475018, 70319475020, 70319475022, 70319475024, 70319475025, 70319475027, 70319475029

METHOD BLANK: 1932493 Matrix: Water

Associated Lab Samples: 70319475006, 70319475008, 70319475011, 70319475015, 70319475017, 70319475018, 70319475020, 70319475022, 70319475024, 70319475025, 70319475027, 70319475029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	11/07/24 10:59	
1,1-Dichloroethane	ug/L	<1.0	1.0	11/07/24 10:59	
1,1-Dichloroethene	ug/L	<1.0	1.0	11/07/24 10:59	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	11/07/24 10:59	
1,2-Dichloroethane	ug/L	<1.0	1.0	11/07/24 10:59	
1,2-Dichloropropane	ug/L	<1.0	1.0	11/07/24 10:59	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	11/07/24 10:59	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	11/07/24 10:59	
Benzene	ug/L	<1.0	1.0	11/07/24 10:59	
Bromodichloromethane	ug/L	<1.0	1.0	11/07/24 10:59	
Bromoform	ug/L	<1.0	1.0	11/07/24 10:59	
Carbon tetrachloride	ug/L	<1.0	1.0	11/07/24 10:59	
Chlorobenzene	ug/L	<1.0	1.0	11/07/24 10:59	
Chloroethane	ug/L	<1.0	1.0	11/07/24 10:59	
Chloroform	ug/L	<1.0	1.0	11/07/24 10:59	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	11/07/24 10:59	
Dibromochloromethane	ug/L	<1.0	1.0	11/07/24 10:59	
Dichlorodifluoromethane	ug/L	<1.0	1.0	11/07/24 10:59	v3
Ethylbenzene	ug/L	<1.0	1.0	11/07/24 10:59	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	11/07/24 10:59	
m&p-Xylene	ug/L	<2.0	2.0	11/07/24 10:59	
Methylene Chloride	ug/L	<1.0	1.0	11/07/24 10:59	
n-Butylbenzene	ug/L	<1.0	1.0	11/07/24 10:59	
o-Xylene	ug/L	<1.0	1.0	11/07/24 10:59	
tert-Butylbenzene	ug/L	<1.0	1.0	11/07/24 10:59	
Tetrachloroethene	ug/L	<1.0	1.0	11/07/24 10:59	
Toluene	ug/L	<1.0	1.0	11/07/24 10:59	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	11/07/24 10:59	
Trichloroethene	ug/L	<1.0	1.0	11/07/24 10:59	
Vinyl chloride	ug/L	<1.0	1.0	11/07/24 10:59	v3
Xylene (Total)	ug/L	<3.0	3.0	11/07/24 10:59	
1,2-Dichloroethane-d4 (S)	%	85	80-120	11/07/24 10:59	
4-Bromofluorobenzene (S)	%	103	80-120	11/07/24 10:59	
Toluene-d8 (S)	%	114	80-120	11/07/24 10:59	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

LABORATORY CONTROL SAMPLE: 1932494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	43.8	88	72-122	
1,1-Dichloroethane	ug/L	50	40.5	81	72-131	
1,1-Dichloroethene	ug/L	50	47.1	94	71-128	
1,2-Dichlorobenzene	ug/L	50	53.1	106	75-112	
1,2-Dichloroethane	ug/L	50	40.5	81	74-118	
1,2-Dichloropropane	ug/L	50	44.4	89	75-121	
1,3-Dichlorobenzene	ug/L	50	48.4	97	72-119	
1,4-Dichlorobenzene	ug/L	50	48.3	97	74-114	
Benzene	ug/L	50	44.1	88	74-121	
Bromodichloromethane	ug/L	50	45.4	91	76-121	
Bromoform	ug/L	50	48.6	97	60-135	
Carbon tetrachloride	ug/L	50	46.5	93	69-129	
Chlorobenzene	ug/L	50	53.3	107	82-113	
Chloroethane	ug/L	50	41.3	83	59-140	
Chloroform	ug/L	50	44.2	88	78-126	
cis-1,2-Dichloroethene	ug/L	50	44.3	89	78-128	
Dibromochloromethane	ug/L	50	54.7	109	70-125	
Dichlorodifluoromethane	ug/L	50	20.6	41	22-145 v3	
Ethylbenzene	ug/L	50	51.6	103	79-113	
Isopropylbenzene (Cumene)	ug/L	50	53.0	106	73-117	
m&p-Xylene	ug/L	100	105	105	81-113	
Methylene Chloride	ug/L	50	47.5	95	70-127	
n-Butylbenzene	ug/L	50	55.5	111	71-124	
o-Xylene	ug/L	50	47.9	96	79-112	
tert-Butylbenzene	ug/L	50	47.0	94	69-120	
Tetrachloroethene	ug/L	50	56.4	113	76-123	
Toluene	ug/L	50	47.3	95	82-118	
trans-1,2-Dichloroethene	ug/L	50	43.7	87	73-130	
Trichloroethene	ug/L	50	46.5	93	82-123	
Vinyl chloride	ug/L	50	35.8	72	51-144 v3	
Xylene (Total)	ug/L	150	153	102	81-112	
1,2-Dichloroethane-d4 (S)	%			89	80-120	
4-Bromofluorobenzene (S)	%			105	80-120	
Toluene-d8 (S)	%			113	80-120	

SAMPLE DUPLICATE: 1933036

Parameter	Units	70319475011 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichlorobenzene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

SAMPLE DUPLICATE: 1933036

Parameter	Units	70319475011 Result	Dup Result	RPD	Qualifiers
1,4-Dichlorobenzene	ug/L	<1.0	<1.0		
Benzene	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	1.1	1.1		0
cis-1,2-Dichloroethene	ug/L	11.1	10.9		3
Dibromochloromethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		v3
Ethylbenzene	ug/L	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	<1.0	<1.0		
m&p-Xylene	ug/L	<2.0	<2.0		
Methylene Chloride	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	<1.0	<1.0		
o-Xylene	ug/L	<1.0	<1.0		
tert-Butylbenzene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	7.1	7.2		2
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	1.1	1.2		11
Vinyl chloride	ug/L	<1.0	<1.0		v3
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	87	89		
4-Bromofluorobenzene (S)	%	105	103		
Toluene-d8 (S)	%	112	113		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch: 370017

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70319475009, 70319475013

METHOD BLANK: 1933822

Matrix: Water

Associated Lab Samples: 70319475009, 70319475013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	11/08/24 11:51	
1,1-Dichloroethane	ug/L	<1.0	1.0	11/08/24 11:51	
1,1-Dichloroethene	ug/L	<1.0	1.0	11/08/24 11:51	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	11/08/24 11:51	
1,2-Dichloroethane	ug/L	<1.0	1.0	11/08/24 11:51	
1,2-Dichloropropane	ug/L	<1.0	1.0	11/08/24 11:51	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	11/08/24 11:51	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	11/08/24 11:51	
Benzene	ug/L	<1.0	1.0	11/08/24 11:51	
Bromodichloromethane	ug/L	<1.0	1.0	11/08/24 11:51	
Bromoform	ug/L	<1.0	1.0	11/08/24 11:51	
Carbon tetrachloride	ug/L	<1.0	1.0	11/08/24 11:51	
Chlorobenzene	ug/L	<1.0	1.0	11/08/24 11:51	
Chloroethane	ug/L	<1.0	1.0	11/08/24 11:51	
Chloroform	ug/L	<1.0	1.0	11/08/24 11:51	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	11/08/24 11:51	
Dibromochloromethane	ug/L	<1.0	1.0	11/08/24 11:51	
Dichlorodifluoromethane	ug/L	<1.0	1.0	11/08/24 11:51	v3
Ethylbenzene	ug/L	<1.0	1.0	11/08/24 11:51	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	11/08/24 11:51	
m&p-Xylene	ug/L	<2.0	2.0	11/08/24 11:51	
Methylene Chloride	ug/L	<1.0	1.0	11/08/24 11:51	
n-Butylbenzene	ug/L	<1.0	1.0	11/08/24 11:51	
o-Xylene	ug/L	<1.0	1.0	11/08/24 11:51	
tert-Butylbenzene	ug/L	<1.0	1.0	11/08/24 11:51	
Tetrachloroethene	ug/L	<1.0	1.0	11/08/24 11:51	
Toluene	ug/L	<1.0	1.0	11/08/24 11:51	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	11/08/24 11:51	
Trichloroethene	ug/L	<1.0	1.0	11/08/24 11:51	
Vinyl chloride	ug/L	<1.0	1.0	11/08/24 11:51	v3
Xylene (Total)	ug/L	<3.0	3.0	11/08/24 11:51	
1,2-Dichloroethane-d4 (S)	%	83	80-120	11/08/24 11:51	
4-Bromofluorobenzene (S)	%	103	80-120	11/08/24 11:51	
Toluene-d8 (S)	%	113	80-120	11/08/24 11:51	

LABORATORY CONTROL SAMPLE: 1933823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	43.9	88	72-122	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

LABORATORY CONTROL SAMPLE: 1933823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	50	43.9	88	72-131	
1,1-Dichloroethene	ug/L	50	46.4	93	71-128	
1,2-Dichlorobenzene	ug/L	50	49.4	99	75-112	
1,2-Dichloroethane	ug/L	50	40.6	81	74-118	
1,2-Dichloropropane	ug/L	50	44.7	89	75-121	
1,3-Dichlorobenzene	ug/L	50	49.8	100	72-119	
1,4-Dichlorobenzene	ug/L	50	49.3	99	74-114	
Benzene	ug/L	50	46.3	93	74-121	
Bromodichloromethane	ug/L	50	46.1	92	76-121	
Bromoform	ug/L	50	56.2	112	60-135 v1	
Carbon tetrachloride	ug/L	50	45.9	92	69-129	
Chlorobenzene	ug/L	50	54.8	110	82-113	
Chloroethane	ug/L	50	39.8	80	59-140	
Chloroform	ug/L	50	46.1	92	78-126	
cis-1,2-Dichloroethene	ug/L	50	49.2	98	78-128	
Dibromochloromethane	ug/L	50	55.9	112	70-125 v1	
Dichlorodifluoromethane	ug/L	50	19.4	39	22-145 v3	
Ethylbenzene	ug/L	50	53.2	106	79-113	
Isopropylbenzene (Cumene)	ug/L	50	44.4	89	73-117	
m&p-Xylene	ug/L	100	107	107	81-113	
Methylene Chloride	ug/L	50	50.3	101	70-127	
n-Butylbenzene	ug/L	50	44.1	88	71-124	
o-Xylene	ug/L	50	53.1	106	79-112	
tert-Butylbenzene	ug/L	50	44.1	88	69-120	
Tetrachloroethene	ug/L	50	55.6	111	76-123 v1	
Toluene	ug/L	50	48.5	97	82-118	
trans-1,2-Dichloroethene	ug/L	50	47.5	95	73-130	
Trichloroethene	ug/L	50	46.8	94	82-123	
Vinyl chloride	ug/L	50	35.6	71	51-144 v3	
Xylene (Total)	ug/L	150	160	107	81-112	
1,2-Dichloroethane-d4 (S)	%			88	80-120	
4-Bromofluorobenzene (S)	%			111	80-120	
Toluene-d8 (S)	%			112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1934260 1934261

Parameter	Units	70319910011		MS		MSD		% Rec		Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,1,1-Trichloroethane	ug/L	<1.0	50	50	50.2	50.0	100	100	69-137	1		
1,1-Dichloroethane	ug/L	<1.0	50	50	49.5	49.3	99	99	74-136	0		
1,1-Dichloroethene	ug/L	<1.0	50	50	53.1	48.2	106	96	74-138	10		
1,2-Dichlorobenzene	ug/L	<1.0	50	50	50.0	49.5	100	99	75-119	1		
1,2-Dichloroethane	ug/L	<1.0	50	50	43.6	43.5	87	87	74-121	0		
1,2-Dichloropropane	ug/L	<1.0	50	50	49.1	48.7	98	97	75-127	1		
1,3-Dichlorobenzene	ug/L	<1.0	50	50	50.9	49.7	102	99	70-123	2		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Parameter	70319910011		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
1,4-Dichlorobenzene	ug/L	<1.0	50	50	50.3	49.3	101	99	74-120	2				
Benzene	ug/L	<1.0	50	50	50.9	49.9	102	100	70-133	2				
Bromodichloromethane	ug/L	<1.0	50	50	49.4	50.0	99	100	76-129	1				
Bromoform	ug/L	<1.0	50	50	54.5	55.5	109	111	51-140	2	v1			
Carbon tetrachloride	ug/L	<1.0	50	50	52.2	52.3	104	105	59-146	0				
Chlorobenzene	ug/L	<1.0	50	50	57.8	57.5	116	115	77-124	1				
Chloroethane	ug/L	3.1	50	50	52.3	52.0	98	98	56-158	1				
Chloroform	ug/L	<1.0	50	50	50.5	50.7	101	101	80-133	0				
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	54.6	54.7	109	109	78-135	0				
Dibromochloromethane	ug/L	<1.0	50	50	56.2	57.1	112	114	65-132	2	v1			
Dichlorodifluoromethane	ug/L	<1.0	50	50	32.6	32.2	65	64	13-157	1	v3			
Ethylbenzene	ug/L	<1.0	50	50	57.6	56.8	115	114	71-126	1				
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	48.9	48.2	98	96	76-126	1				
m&p-Xylene	ug/L	<2.0	100	100	116	115	116	115	78-120	0				
Methylene Chloride	ug/L	<1.0	50	50	53.1	55.4	106	111	73-132	4				
n-Butylbenzene	ug/L	<1.0	50	50	49.7	47.9	99	96	70-137	4				
o-Xylene	ug/L	<1.0	50	50	57.7	56.9	115	114	74-121	1				
tert-Butylbenzene	ug/L	<1.0	50	50	49.4	49.4	99	99	72-128	0				
Tetrachloroethene	ug/L	<1.0	50	50	61.8	59.7	124	119	72-131	3	v1,v3			
Toluene	ug/L	<1.0	50	50	53.9	53.4	108	107	72-135	1				
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	53.9	55.1	108	110	77-138	2				
Trichloroethene	ug/L	<1.0	50	50	53.7	52.0	107	104	79-137	3				
Vinyl chloride	ug/L	<1.0	50	50	46.8	46.9	94	94	48-158	0	v3			
Xylene (Total)	ug/L	<3.0	150	150	174	172	116	115	77-120	1				
1,2-Dichloroethane-d4 (S)	%						90	90	80-120					
4-Bromofluorobenzene (S)	%						112	111	80-120					
Toluene-d8 (S)	%						110	109	80-120					

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	369963	Analysis Method:	SM22 2320B
QC Batch Method:	SM22 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475002, 70319475004, 70319475006

METHOD BLANK: 1933503 Matrix: Water
 Associated Lab Samples: 70319475002, 70319475004, 70319475006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	11/08/24 09:27	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	11/08/24 09:27	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	11/08/24 09:27	

LABORATORY CONTROL SAMPLE: 1933504

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	24.7	99	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		0.88J			
Alkalinity,Carbonate (CaCO3)	mg/L	25	23.9	95	85-115	

MATRIX SPIKE SAMPLE: 1933509

Parameter	Units	70319392003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	50	47.8	96	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0		1.5			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	46.3	93	75-125	

SAMPLE DUPLICATE: 1933508

Parameter	Units	70319392003 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	<1.0		
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	<1.0		
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch: 370763

Analysis Method: SM22 2320B

QC Batch Method: SM22 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70319475009, 70319475011, 70319475013, 70319475015

METHOD BLANK: 1938711

Matrix: Water

Associated Lab Samples: 70319475009, 70319475011, 70319475013, 70319475015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	11/14/24 09:28	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	11/14/24 09:28	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	11/14/24 09:28	

LABORATORY CONTROL SAMPLE: 1938712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	21.4	86	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		1.5			
Alkalinity,Carbonate (CaCO3)	mg/L	25	19.9	80	85-115 L2	

MATRIX SPIKE SAMPLE: 1938714

Parameter	Units	70320704001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	12.0	50	62.0	100	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	12.0		52.2			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	9.8	20	75-125 M0	

SAMPLE DUPLICATE: 1938713

Parameter	Units	70320704001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	12.0	11.8	2	
Alkalinity,Bicarbonate (CaCO3)	mg/L	12.0	11.8	2	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	371009	Analysis Method:	SM22 2320B
QC Batch Method:	SM22 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475018, 70319475020, 70319475022, 70319475027, 70319475029

METHOD BLANK: 1940120 Matrix: Water
 Associated Lab Samples: 70319475018, 70319475020, 70319475022, 70319475027, 70319475029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	11/15/24 09:42	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	11/15/24 09:42	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	11/15/24 09:42	

LABORATORY CONTROL SAMPLE: 1940121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	21.6	86	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		1.6			
Alkalinity,Carbonate (CaCO3)	mg/L	25	20.0	80	85-115	L2

MATRIX SPIKE SAMPLE: 1940123

Parameter	Units	70319475018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	4.0	50	53.5	99	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	4.0		26.9			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	26.6	53	75-125	M0

SAMPLE DUPLICATE: 1940122

Parameter	Units	70319475018 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	4.0	3.9	2	
Alkalinity,Bicarbonate (CaCO3)	mg/L	4.0	3.9	2	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	370248	Analysis Method:	SM22 2320B
QC Batch Method:	SM22 2320B	Analysis Description:	2320B Alkalinity, High Level
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475015

METHOD BLANK: 1935474 Matrix: Water

Associated Lab Samples: 70319475015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.5	11/11/24 14:47	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.5	11/11/24 14:47	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.5	11/11/24 14:47	

LABORATORY CONTROL SAMPLE: 1935475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	125	124	99	80-120	
Alkalinity,Bicarbonate (CaCO3)	mg/L		<5.0			
Alkalinity,Carbonate (CaCO3)	mg/L	125	118	94	80-120	

MATRIX SPIKE SAMPLE: 1935477

Parameter	Units	70319392001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	2060	625	2770	114	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	2060		2250			
Alkalinity,Carbonate (CaCO3)	mg/L	<5.0	625	517	83	75-125	

SAMPLE DUPLICATE: 1935476

Parameter	Units	70319392001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	2060	2070	1	
Alkalinity,Bicarbonate (CaCO3)	mg/L	2060	2070	1	
Alkalinity,Carbonate (CaCO3)	mg/L	<5.0	<5.0		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	370434	Analysis Method:	SM22 2320B
QC Batch Method:	SM22 2320B	Analysis Description:	2320B Alkalinity, High Level
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475025

METHOD BLANK: 1936908 Matrix: Water

Associated Lab Samples: 70319475025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.5	11/12/24 15:06	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.5	11/12/24 15:06	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.5	11/12/24 15:06	

LABORATORY CONTROL SAMPLE: 1936909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	125	126	100	80-120	
Alkalinity,Bicarbonate (CaCO3)	mg/L		<5.0			
Alkalinity,Carbonate (CaCO3)	mg/L	125	120	96	80-120	

MATRIX SPIKE SAMPLE: 1936911

Parameter	Units	70321451001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	7520	625	8010	78	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	7520		8010			
Alkalinity,Carbonate (CaCO3)	mg/L	<5.0	625	<5.0	0	75-125 M1	

SAMPLE DUPLICATE: 1936910

Parameter	Units	70321451001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	7520	6810	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	7520	6810	10	
Alkalinity,Carbonate (CaCO3)	mg/L	<5.0	<5.0		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	369316	Analysis Method:	SM22 2540C
QC Batch Method:	SM22 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475002, 70319475004, 70319475006

METHOD BLANK: 1929353 Matrix: Water
 Associated Lab Samples: 70319475002, 70319475004, 70319475006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	11/05/24 13:37	

LABORATORY CONTROL SAMPLE: 1929354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	472	94	85-115	

MATRIX SPIKE SAMPLE: 1929356

Parameter	Units	70319534001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L		265	300	579	105	75-125

MATRIX SPIKE SAMPLE: 1929358

Parameter	Units	70319548002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	<25.0	300	305	99	75-125	

SAMPLE DUPLICATE: 1929355

Parameter	Units	70319534001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	265	273	3	

SAMPLE DUPLICATE: 1929357

Parameter	Units	70319548002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	<25.0	7.0J		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch: 369785

Analysis Method: SM22 2540C

QC Batch Method: SM22 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70319475009, 70319475011, 70319475013, 70319475015

METHOD BLANK: 1932614

Matrix: Water

Associated Lab Samples: 70319475009, 70319475011, 70319475013, 70319475015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	11/07/24 13:51	

LABORATORY CONTROL SAMPLE: 1932615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	474	95	85-115	

MATRIX SPIKE SAMPLE: 1932617

Parameter	Units	70319701001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	85.0	300	381	99	75-125	

MATRIX SPIKE SAMPLE: 1932619

Parameter	Units	70319721001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	64.0	300	358	98	75-125	

SAMPLE DUPLICATE: 1932616

Parameter	Units	70319701001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	85.0	88.0	3	

SAMPLE DUPLICATE: 1932618

Parameter	Units	70319721001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	64.0	68.0	6	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch: 370011 Analysis Method: SM22 2540C
 QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Melville
 Associated Lab Samples: 70319475018, 70319475020, 70319475022, 70319475025, 70319475027, 70319475029

METHOD BLANK: 1933795 Matrix: Water
 Associated Lab Samples: 70319475018, 70319475020, 70319475022, 70319475025, 70319475027, 70319475029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	11/08/24 13:56	

LABORATORY CONTROL SAMPLE: 1933796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	496	99	85-115	

MATRIX SPIKE SAMPLE: 1933798

Parameter	Units	70320593001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	459	300	772	104	75-125	

MATRIX SPIKE SAMPLE: 1933800

Parameter	Units	70320643002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	27.0	300	334	102	75-125	

SAMPLE DUPLICATE: 1933797

Parameter	Units	70320593001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	459	476	4	

SAMPLE DUPLICATE: 1933799

Parameter	Units	70320643002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	27.0	29.0	7	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch: 368682 Analysis Method: SM22 3500-Cr B
 QC Batch Method: SM22 3500-Cr B Analysis Description: Chromium, Hexavalent by 3500
 Laboratory: Pace Analytical Services - Melville
 Associated Lab Samples: 70319475002, 70319475003, 70319475004, 70319475005, 70319475006, 70319475007

METHOD BLANK: 1925587 Matrix: Water
 Associated Lab Samples: 70319475002, 70319475003, 70319475004, 70319475005, 70319475006, 70319475007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	10/29/24 20:39	

LABORATORY CONTROL SAMPLE: 1925588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.20	100	85-115	

MATRIX SPIKE SAMPLE: 1925716

Parameter	Units	70319570005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.20	96	75-125	

SAMPLE DUPLICATE: 1925717

Parameter	Units	70319570005 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	368862	Analysis Method:	SM22 3500-Cr B
QC Batch Method:	SM22 3500-Cr B	Analysis Description:	Chromium, Hexavalent by 3500
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475009, 70319475010, 70319475011, 70319475012, 70319475013, 70319475014, 70319475015, 70319475016

METHOD BLANK: 1926522 Matrix: Water

Associated Lab Samples: 70319475009, 70319475010, 70319475011, 70319475012, 70319475013, 70319475014, 70319475015, 70319475016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	10/31/24 19:19	

LABORATORY CONTROL SAMPLE: 1926523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.20	100	85-115	

MATRIX SPIKE SAMPLE: 1926524

Parameter	Units	70319475015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.20	100	75-125	

SAMPLE DUPLICATE: 1926525

Parameter	Units	70319475015 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	369210	Analysis Method:	SM22 3500-Cr B
QC Batch Method:	SM22 3500-Cr B	Analysis Description:	Chromium, Hexavalent by 3500
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70319475018, 70319475019, 70319475020, 70319475021, 70319475022, 70319475023		

METHOD BLANK: 1929003 Matrix: Water
 Associated Lab Samples: 70319475018, 70319475019, 70319475020, 70319475021, 70319475022, 70319475023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	11/01/24 20:02	

LABORATORY CONTROL SAMPLE: 1929004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.21	103	85-115	

MATRIX SPIKE SAMPLE: 1929005

Parameter	Units	70319475018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.21	103	75-125	

SAMPLE DUPLICATE: 1929006

Parameter	Units	70319475018 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	369211	Analysis Method:	SM22 3500-Cr B
QC Batch Method:	SM22 3500-Cr B	Analysis Description:	Chromium, Hexavalent by 3500
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70319475025, 70319475026, 70319475027, 70319475028, 70319475029, 70319475030		

METHOD BLANK:	1929007	Matrix:	Water
Associated Lab Samples:	70319475025, 70319475026, 70319475027, 70319475028, 70319475029, 70319475030		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	11/04/24 22:35	

LABORATORY CONTROL SAMPLE:	1929008					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.20	99	85-115	

MATRIX SPIKE SAMPLE:	1929009						
Parameter	Units	70319475025 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.20	100	75-125	

SAMPLE DUPLICATE:	1929010					
Parameter	Units	70319475025 Result	Dup Result	RPD	Qualifiers	
Chromium, Hexavalent	mg/L	<0.020	<0.020			

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	369985	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475002, 70319475004, 70319475006

METHOD BLANK: 1933592 Matrix: Water
 Associated Lab Samples: 70319475002, 70319475004, 70319475006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<5.0	5.0	11/08/24 16:57	

LABORATORY CONTROL SAMPLE: 1933593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	10.3	103	90-110	

MATRIX SPIKE SAMPLE: 1933675

Parameter	Units	70319392001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	8.1	10	16.0	79	90-110	M1

MATRIX SPIKE SAMPLE: 1933677

Parameter	Units	70319475004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	17.2	10	26.8	96	90-110	

SAMPLE DUPLICATE: 1933676

Parameter	Units	70319392001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	8.1	8.0	2	

SAMPLE DUPLICATE: 1933678

Parameter	Units	70319475004 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	17.2	17.2	0	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	370851	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475009, 70319475011, 70319475013, 70319475015

METHOD BLANK: 1939334 Matrix: Water
 Associated Lab Samples: 70319475009, 70319475011, 70319475013, 70319475015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<5.0	5.0	11/18/24 22:36	

LABORATORY CONTROL SAMPLE: 1939335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE SAMPLE: 1939339

Parameter	Units	70319721001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	28.4	10	38.9	105	90-110	

MATRIX SPIKE SAMPLE: 1939341

Parameter	Units	70320319002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	<5.0	10	12.1	111	90-110	M1

SAMPLE DUPLICATE: 1939340

Parameter	Units	70319721001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	28.4	28.6	1	

SAMPLE DUPLICATE: 1939342

Parameter	Units	70320319002 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	<5.0	1.0J		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	371224	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475018, 70319475020, 70319475022, 70319475025, 70319475027, 70319475029

METHOD BLANK: 1942003 Matrix: Water
 Associated Lab Samples: 70319475018, 70319475020, 70319475022, 70319475025, 70319475027, 70319475029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<5.0	5.0	11/18/24 11:50	

LABORATORY CONTROL SAMPLE: 1942004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	10.0	100	90-110	

MATRIX SPIKE SAMPLE: 1942005

Parameter	Units	70320338003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	33.9	10	42.3	84	90-110	M1

MATRIX SPIKE SAMPLE: 1942007

Parameter	Units	70321420001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	18.9	10	28.7	98	90-110	

SAMPLE DUPLICATE: 1942006

Parameter	Units	70320338003 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	33.9	32.6	4	

SAMPLE DUPLICATE: 1942008

Parameter	Units	70321420001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	18.9	18.9	0	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	369927	Analysis Method:	EPA 351.2
QC Batch Method:	EPA 351.2	Analysis Description:	351.2 TKN
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70319475002, 70319475004, 70319475006, 70319475009, 70319475011, 70319475013, 70319475015, 70319475018, 70319475020, 70319475022, 70319475025, 70319475027, 70319475029		

METHOD BLANK:	1933397	Matrix:	Water
Associated Lab Samples:	70319475002, 70319475004, 70319475006, 70319475009, 70319475011, 70319475013, 70319475015, 70319475018, 70319475020, 70319475022, 70319475025, 70319475027, 70319475029		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.094	11/08/24 22:04	

LABORATORY CONTROL SAMPLE:	1933398					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	3.8	96	90-110	

MATRIX SPIKE SAMPLE:	1933399						
Parameter	Units	70319475002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	4	2.9	73	90-110	

MATRIX SPIKE SAMPLE:	1933401						
Parameter	Units	70320707001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.50	4	2.3	58	90-110	

SAMPLE DUPLICATE:	1933402					
Parameter	Units	70320707001 Result	Dup Result	RPD	Qualifiers	
Nitrogen, Kjeldahl, Total	mg/L	<0.50	<0.50			

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	368557	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70319475002, 70319475004, 70319475006		

METHOD BLANK: 1925080 Matrix: Water

Associated Lab Samples: 70319475002, 70319475004, 70319475006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	10/30/24 00:22	

LABORATORY CONTROL SAMPLE: 1925081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	100	90-110	

MATRIX SPIKE SAMPLE: 1925082

Parameter	Units	70319460002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.45	0.5	0.94	97	90-110	

MATRIX SPIKE SAMPLE: 1929023

Parameter	Units	70320070002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.43	84	90-110	M1

SAMPLE DUPLICATE: 1925083

Parameter	Units	70319460002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	0.45	0.45	0	

SAMPLE DUPLICATE: 1929024

Parameter	Units	70320070002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch: 368871

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrite, Unpres.

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70319475015

METHOD BLANK: 1926548

Matrix: Water

Associated Lab Samples: 70319475015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	10/31/24 23:45	

LABORATORY CONTROL SAMPLE: 1926549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 1926550

Parameter	Units	70319613002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.30	0.5	0.77	94	90-110	

MATRIX SPIKE SAMPLE: 1926552

Parameter	Units	70319638003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.050 U	0.5	0.48	96	90-110	

SAMPLE DUPLICATE: 1926551

Parameter	Units	70319613002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	0.30	0.28	4	

SAMPLE DUPLICATE: 1926553

Parameter	Units	70319638003 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	0.050 U	<0.050		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	368872	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475009, 70319475011, 70319475013

METHOD BLANK: 1926554 Matrix: Water

Associated Lab Samples: 70319475009, 70319475011, 70319475013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	11/01/24 00:21	

LABORATORY CONTROL SAMPLE: 1926555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	102	90-110	

MATRIX SPIKE SAMPLE: 1926556

Parameter	Units	70319701001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.47	94	90-110	

MATRIX SPIKE SAMPLE: 1926558

Parameter	Units	70319475013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.47	93	90-110	

SAMPLE DUPLICATE: 1926557

Parameter	Units	70319701001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1926559

Parameter	Units	70319475013 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch: 369031	Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2	Analysis Description: 353.2 Nitrite, Unpres.
	Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70319475018, 70319475020, 70319475022

METHOD BLANK: 1927412 Matrix: Water
 Associated Lab Samples: 70319475018, 70319475020, 70319475022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	11/02/24 00:15	

LABORATORY CONTROL SAMPLE: 1927413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 1927414

Parameter	Units	70319739002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.22	0.5	0.71	98	90-110	

MATRIX SPIKE SAMPLE: 1927416

Parameter	Units	70319838002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.27	0.5	0.81	107	90-110	

SAMPLE DUPLICATE: 1927415

Parameter	Units	70319739002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	0.22	0.25	14	

SAMPLE DUPLICATE: 1927417

Parameter	Units	70319838002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	0.27	0.27	1	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	369219	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475025, 70319475027, 70319475029

METHOD BLANK: 1929030 Matrix: Water

Associated Lab Samples: 70319475025, 70319475027, 70319475029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	11/04/24 23:34	

LABORATORY CONTROL SAMPLE: 1929031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	0.93	93	90-110	

MATRIX SPIKE SAMPLE: 1929032

Parameter	Units	70320089001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.027	0.5	0.50	96	90-110	

MATRIX SPIKE SAMPLE: 1929034

Parameter	Units	70320137001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.45	89	90-110	M1

SAMPLE DUPLICATE: 1929033

Parameter	Units	70320089001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.027	<0.050		

SAMPLE DUPLICATE: 1929035

Parameter	Units	70320137001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	369451	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475002, 70319475004, 70319475006

METHOD BLANK: 1930747 Matrix: Water

Associated Lab Samples: 70319475002, 70319475004, 70319475006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	11/06/24 03:05	

LABORATORY CONTROL SAMPLE: 1930748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	102	90-110	

MATRIX SPIKE SAMPLE: 1930749

Parameter	Units	70318775001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.9	2.5	5.2	94	90-110	

MATRIX SPIKE SAMPLE: 1930751

Parameter	Units	70320264002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.83	0.5	1.3	101	90-110	

SAMPLE DUPLICATE: 1930750

Parameter	Units	70318775001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.9	2.8	0	

SAMPLE DUPLICATE: 1930752

Parameter	Units	70320264002 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.83	0.84	1	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	370830	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70319475009, 70319475011, 70319475013, 70319475015, 70319475018, 70319475020, 70319475022, 70319475025, 70319475027, 70319475029		

METHOD BLANK:	1939223	Matrix:	Water
Associated Lab Samples:	70319475009, 70319475011, 70319475013, 70319475015, 70319475018, 70319475020, 70319475022, 70319475025, 70319475027, 70319475029		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	11/14/24 13:17	

LABORATORY CONTROL SAMPLE:	1939224					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	0.96	96	90-110	

MATRIX SPIKE SAMPLE:	1939225						
Parameter	Units	70321800001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.90	0.5	1.4	108	90-110	

MATRIX SPIKE SAMPLE:	1939244						
Parameter	Units	70319475018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.39	0.5	0.92	105	90-110	

SAMPLE DUPLICATE:	1939226					
Parameter	Units	70321800001 Result	Dup Result	RPD	Qualifiers	
Nitrate-Nitrite (as N)	mg/L	0.90	0.89	0		

SAMPLE DUPLICATE:	1939245					
Parameter	Units	70319475018 Result	Dup Result	RPD	Qualifiers	
Nitrate-Nitrite (as N)	mg/L	0.39	0.36	9		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch: 368673

Analysis Method: SM22 4500-CN-E

QC Batch Method: SM20/22 4500-CN-C

Analysis Description: 4500 CNE Cyanide, Total

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70319475002, 70319475004, 70319475006

METHOD BLANK: 1925561

Matrix: Water

Associated Lab Samples: 70319475002, 70319475004, 70319475006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	10/31/24 14:44	

LABORATORY CONTROL SAMPLE: 1925562

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	72.4	97	85-115	

MATRIX SPIKE SAMPLE: 1925563

Parameter	Units	70319186007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	17.5	100	119	101	75-125	

SAMPLE DUPLICATE: 1925564

Parameter	Units	70319186007 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	17.5	22.3	24	D6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	369092	Analysis Method:	SM22 4500-CN-E
QC Batch Method:	SM20/22 4500-CN-C	Analysis Description:	4500 CNE Cyanide, Total
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475009, 70319475011, 70319475013, 70319475015

METHOD BLANK: 1927824 Matrix: Water
 Associated Lab Samples: 70319475009, 70319475011, 70319475013, 70319475015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	11/04/24 15:06	

LABORATORY CONTROL SAMPLE: 1927825

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	68.7	92	85-115	

MATRIX SPIKE SAMPLE: 1927826

Parameter	Units	70319660003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<10.0	100	110	105	75-125	

SAMPLE DUPLICATE: 1927827

Parameter	Units	70319660003 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	<10.0	<10.0		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	369483	Analysis Method:	SM22 4500-CN-E
QC Batch Method:	SM20/22 4500-CN-C	Analysis Description:	4500 CNE Cyanide, Total
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475018, 70319475020, 70319475022, 70319475025, 70319475027, 70319475029

METHOD BLANK: 1930883 Matrix: Water
 Associated Lab Samples: 70319475018, 70319475020, 70319475022, 70319475025, 70319475027, 70319475029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	11/06/24 13:11	

LABORATORY CONTROL SAMPLE: 1930884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	79.3	106	85-115	

MATRIX SPIKE SAMPLE: 1930885

Parameter	Units	70319641003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	23.6	100	122	98	75-125	

SAMPLE DUPLICATE: 1930886

Parameter	Units	70319641003 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	23.6	21.2	11	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	369060	Analysis Method:	SM22 4500-Cl-E
QC Batch Method:	SM22 4500-Cl-E	Analysis Description:	4500 Chloride
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475002, 70319475004, 70319475006

METHOD BLANK: 1927716 Matrix: Water

Associated Lab Samples: 70319475002, 70319475004, 70319475006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	11/03/24 16:26	

LABORATORY CONTROL SAMPLE: 1927717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.4	95	90-110	

MATRIX SPIKE SAMPLE: 1927718

Parameter	Units	70319689001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	207	250	423	87	80-120	

SAMPLE DUPLICATE: 1927719

Parameter	Units	70319689001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	207	204	1	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	369486	Analysis Method:	SM22 4500-Cl-E
QC Batch Method:	SM22 4500-Cl-E	Analysis Description:	4500 Chloride
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475009, 70319475011, 70319475013, 70319475015, 70319475018, 70319475020, 70319475022, 70319475025, 70319475027, 70319475029

METHOD BLANK: 1930893 Matrix: Water

Associated Lab Samples: 70319475009, 70319475011, 70319475013, 70319475015, 70319475018, 70319475020, 70319475022, 70319475025, 70319475027, 70319475029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	11/06/24 10:04	

LABORATORY CONTROL SAMPLE: 1930894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.9	94	90-110	

MATRIX SPIKE SAMPLE: 1930895

Parameter	Units	70320076001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	198	250	383	74	80-120	M1

SAMPLE DUPLICATE: 1930896

Parameter	Units	70320076001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	198	201	2	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch: 368775 Analysis Method: SM22 4500 NH3 H
 QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
 Laboratory: Pace Analytical Services - Melville
 Associated Lab Samples: 70319475002, 70319475004, 70319475006

METHOD BLANK: 1926046 Matrix: Water
 Associated Lab Samples: 70319475002, 70319475004, 70319475006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	10/31/24 12:07	

LABORATORY CONTROL SAMPLE: 1926047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	110	90-110	

MATRIX SPIKE SAMPLE: 1926048

Parameter	Units	70319464001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	22.8	10	31.9	91	75-125	

SAMPLE DUPLICATE: 1926049

Parameter	Units	70319464001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	22.8	22.0	4	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch: 369584 Analysis Method: SM22 4500 NH3 H
 QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
 Laboratory: Pace Analytical Services - Melville
 Associated Lab Samples: 70319475009, 70319475011, 70319475013, 70319475015, 70319475018, 70319475020

METHOD BLANK: 1931436 Matrix: Water
 Associated Lab Samples: 70319475009, 70319475011, 70319475013, 70319475015, 70319475018, 70319475020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	11/06/24 14:04	

LABORATORY CONTROL SAMPLE: 1931437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 1931438

Parameter	Units	70320333001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	13.2	10	24.6	114	75-125	

SAMPLE DUPLICATE: 1931439

Parameter	Units	70320333001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	13.2	13.3	1	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

QC Batch:	369585	Analysis Method:	SM22 4500 NH3 H
QC Batch Method:	SM22 4500 NH3 H	Analysis Description:	4500 Ammonia
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70319475022, 70319475025, 70319475027, 70319475029

METHOD BLANK: 1931440 Matrix: Water
 Associated Lab Samples: 70319475022, 70319475025, 70319475027, 70319475029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	11/06/24 14:38	

LABORATORY CONTROL SAMPLE: 1931441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 1931442

Parameter	Units	70320395001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	25.1	10	34.4	92	75-125	

SAMPLE DUPLICATE: 1931443

Parameter	Units	70320395001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	25.1	26.2	4	

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QUALIFIERS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 70319475

[2] Bottles fro 11/1/24 were labeled MW-08A. The cliient confirms that the chain of custody is correct and the sample is MW-06A.

BATCH QUALIFIERS

Batch: 368770

[1] The post digestion spike for sample 70319480002 (PDS 1926030) did not meet acceptance criteria for Silver and Sodium.

[2] The serial dilution for sample 70319480002 (SD 1926031) did not meet acceptance criteria for Aluminum, Arsenic, Potassium and Antimony.

[3] The post digestion spike for sample 70319392001 (PDS 1926032) did not meet acceptance criteria for Silver, Calcium, Potassium, Magnesium and Sodium.

[4] The serial dilution for sample 70319392001 (SD 1926033) did not meet acceptance criteria for Silver, Aluminum, Antimony and Selenium.

Batch: 369359

[1] The serial dilution for sample 70319475010 (SD 1929977) did not meet acceptance criteria for Zinc.

Batch: 369528

[1] The post digestion spike for sample 70319475009 (PDS 1931135) did not meet acceptance criteria for Sodium.

[2] The serial dilution for sample 70319475009 (SD 1931136) did not meet acceptance criteria for Potassium.

[3] The serial dilution for sample 70319475009 (SD 1931138) did not meet acceptance criteria for Potassium.

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QUALIFIERS

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

ANALYTE QUALIFIERS

- B Analyte was detected in the associated method blank.
- D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
- IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
- IL This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
- LS Analyte recovery in the laboratory control sample (LCS) was outside QC limits for one or more of the constituent analytes used in the calculated result.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
- v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
- v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70319475002	MW-05B_10/29/24	EPA 200.7	368730	EPA 200.7	368770
70319475004	MW-09B_10/29/24	EPA 200.7	368730	EPA 200.7	368770
70319475006	MW-09C_10/29/24	EPA 200.7	368730	EPA 200.7	368770
70319475009	MW-08B_10/31/24	EPA 200.7	369495	EPA 200.7	369528
70319475011	MW-08A_10/31/26	EPA 200.7	369495	EPA 200.7	369528
70319475013	OBS-1_10/31/28	EPA 200.7	369495	EPA 200.7	369528
70319475015	BLIND DUPLICATE_10/31/30	EPA 200.7	369495	EPA 200.7	369528
70319475018	MW-06A_11/1/24	EPA 200.7	369495	EPA 200.7	369528
70319475020	MW-06C_11/1/26	EPA 200.7	369495	EPA 200.7	369528
70319475022	MW-06B_11/1/28	EPA 200.7	369495	EPA 200.7	369528
70319475025	LF-2_11/4/24	EPA 200.7	369495	EPA 200.7	369528
70319475027	LF-1_11/4/24	EPA 200.7	369495	EPA 200.7	369528
70319475029	FIELD BLANK_11/4/24	EPA 200.7	369495	EPA 200.7	369528
70319475003	MW-05B_DISS_10/29/25	EPA 200.7	368769		
70319475005	MW-09B_DISS_10/29/25	EPA 200.7	368769		
70319475007	MW-09C_DISS_10/29/25	EPA 200.7	368769		
70319475010	MW-08B_DISS_10/31/25	EPA 200.7	369359		
70319475012	MW-08A_DISS_10/31/27	EPA 200.7	369359		
70319475014	OBS-1_DISS_10/31/29	EPA 200.7	369359		
70319475016	BLIND DUPLICATE_DISS_10/31/31	EPA 200.7	369359		
70319475019	MW-06A_DISS_11/1/25	EPA 200.7	369359		
70319475021	MW-06C_DISS_11/1/27	EPA 200.7	369359		
70319475023	MW-06B_DISS_11/1/29	EPA 200.7	369359		
70319475026	LF-2_DISS_11/4/25	EPA 200.7	369359		
70319475028	LF-1_DISS_11/4/25	EPA 200.7	369359		
70319475030	FIELD BLANK_DISS_11/4/25	EPA 200.7	369359		
70319475002	MW-05B_10/29/24	SM22 2340B	368860		
70319475004	MW-09B_10/29/24	SM22 2340B	368860		
70319475006	MW-09C_10/29/24	SM22 2340B	368860		
70319475009	MW-08B_10/31/24	SM22 2340B	369866		
70319475011	MW-08A_10/31/26	SM22 2340B	369866		
70319475013	OBS-1_10/31/28	SM22 2340B	369866		
70319475015	BLIND DUPLICATE_10/31/30	SM22 2340B	369866		
70319475018	MW-06A_11/1/24	SM22 2340B	369866		
70319475020	MW-06C_11/1/26	SM22 2340B	369866		
70319475022	MW-06B_11/1/28	SM22 2340B	369866		
70319475025	LF-2_11/4/24	SM22 2340B	369866		
70319475027	LF-1_11/4/24	SM22 2340B	369866		
70319475029	FIELD BLANK_11/4/24	SM22 2340B	369866		
70319475002	MW-05B_10/29/24	EPA 245.1	369474	EPA 245.1	369508
70319475004	MW-09B_10/29/24	EPA 245.1	369474	EPA 245.1	369508
70319475006	MW-09C_10/29/24	EPA 245.1	369474	EPA 245.1	369508
70319475009	MW-08B_10/31/24	EPA 245.1	369720	EPA 245.1	369745
70319475011	MW-08A_10/31/26	EPA 245.1	369720	EPA 245.1	369745

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70319475013	OBS-1_10/31/28	EPA 245.1	370181	EPA 245.1	370216
70319475015	BLIND DUPLICATE_10/31/30	EPA 245.1	370181	EPA 245.1	370216
70319475018	MW-06A_11/1/24	EPA 245.1	370181	EPA 245.1	370216
70319475020	MW-06C_11/1/26	EPA 245.1	370181	EPA 245.1	370216
70319475022	MW-06B_11/1/28	EPA 245.1	370181	EPA 245.1	370216
70319475025	LF-2_11/4/24	EPA 245.1	370181	EPA 245.1	370216
70319475027	LF-1_11/4/24	EPA 245.1	370181	EPA 245.1	370216
70319475029	FIELD BLANK_11/4/24	EPA 245.1	370320	EPA 245.1	370373
70319475003	MW-05B_DISS_10/29/25	EPA 245.1	370754	EPA 245.1	370792
70319475005	MW-09B_DISS_10/29/25	EPA 245.1	370754	EPA 245.1	370792
70319475007	MW-09C_DISS_10/29/25	EPA 245.1	370754	EPA 245.1	370792
70319475010	MW-08B_DISS_10/31/25	EPA 245.1	370754	EPA 245.1	370792
70319475012	MW-08A_DISS_10/31/27	EPA 245.1	370754	EPA 245.1	370792
70319475014	OBS-1_DISS_10/31/29	EPA 245.1	370754	EPA 245.1	370792
70319475016	BLIND DUPLICATE_DISS_10/31/31	EPA 245.1	370754	EPA 245.1	370792
70319475019	MW-06A_DISS_11/1/25	EPA 245.1	370754	EPA 245.1	370792
70319475021	MW-06C_DISS_11/1/27	EPA 245.1	370754	EPA 245.1	370792
70319475023	MW-06B_DISS_11/1/29	EPA 245.1	370754	EPA 245.1	370792
70319475026	LF-2_DISS_11/4/25	EPA 245.1	370754	EPA 245.1	370792
70319475028	LF-1_DISS_11/4/25	EPA 245.1	370754	EPA 245.1	370792
70319475030	FIELD BLANK_DISS_11/4/25	EPA 245.1	370754	EPA 245.1	370792
70319475001	Trip Blank_10/29/24	EPA 8260C/5030C	368696		
70319475002	MW-05B_10/29/24	EPA 8260C/5030C	368696		
70319475004	MW-09B_10/29/24	EPA 8260C/5030C	368696		
70319475006	MW-09C_10/29/24	EPA 8260C/5030C	369765		
70319475008	TRIP BLANK-10/31/24	EPA 8260C/5030C	369765		
70319475009	MW-08B_10/31/24	EPA 8260C/5030C	370017		
70319475011	MW-08A_10/31/26	EPA 8260C/5030C	369765		
70319475013	OBS-1_10/31/28	EPA 8260C/5030C	370017		
70319475015	BLIND DUPLICATE_10/31/30	EPA 8260C/5030C	369765		
70319475017	TRIP BLANK_11/1/2024	EPA 8260C/5030C	369765		
70319475018	MW-06A_11/1/24	EPA 8260C/5030C	369765		
70319475020	MW-06C_11/1/26	EPA 8260C/5030C	369765		
70319475022	MW-06B_11/1/28	EPA 8260C/5030C	369765		
70319475024	TRIP BLANK_11/4/24	EPA 8260C/5030C	369765		
70319475025	LF-2_11/4/24	EPA 8260C/5030C	369765		
70319475027	LF-1_11/4/24	EPA 8260C/5030C	369765		
70319475029	FIELD BLANK_11/4/24	EPA 8260C/5030C	369765		
70319475002	MW-05B_10/29/24	SM22 2320B	369963		
70319475004	MW-09B_10/29/24	SM22 2320B	369963		
70319475006	MW-09C_10/29/24	SM22 2320B	369963		
70319475009	MW-08B_10/31/24	SM22 2320B	370763		
70319475011	MW-08A_10/31/26	SM22 2320B	370763		

REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70319475013	OBS-1_10/31/28	SM22 2320B	370763		
70319475015	BLIND DUPLICATE_10/31/30	SM22 2320B	370763		
70319475018	MW-06A_11/1/24	SM22 2320B	371009		
70319475020	MW-06C_11/1/26	SM22 2320B	371009		
70319475022	MW-06B_11/1/28	SM22 2320B	371009		
70319475027	LF-1_11/4/24	SM22 2320B	371009		
70319475029	FIELD BLANK_11/4/24	SM22 2320B	371009		
70319475015	BLIND DUPLICATE_10/31/30	SM22 2320B	370248		
70319475025	LF-2_11/4/24	SM22 2320B	370434		
70319475002	MW-05B_10/29/24	SM22 2540C	369316		
70319475004	MW-09B_10/29/24	SM22 2540C	369316		
70319475006	MW-09C_10/29/24	SM22 2540C	369316		
70319475009	MW-08B_10/31/24	SM22 2540C	369785		
70319475011	MW-08A_10/31/26	SM22 2540C	369785		
70319475013	OBS-1_10/31/28	SM22 2540C	369785		
70319475015	BLIND DUPLICATE_10/31/30	SM22 2540C	369785		
70319475018	MW-06A_11/1/24	SM22 2540C	370011		
70319475020	MW-06C_11/1/26	SM22 2540C	370011		
70319475022	MW-06B_11/1/28	SM22 2540C	370011		
70319475025	LF-2_11/4/24	SM22 2540C	370011		
70319475027	LF-1_11/4/24	SM22 2540C	370011		
70319475029	FIELD BLANK_11/4/24	SM22 2540C	370011		
70319475002	MW-05B_10/29/24	SM22 3500-Cr B	368682		
70319475003	MW-05B_DISS_10/29/25	SM22 3500-Cr B	368682		
70319475004	MW-09B_10/29/24	SM22 3500-Cr B	368682		
70319475005	MW-09B_DISS_10/29/25	SM22 3500-Cr B	368682		
70319475006	MW-09C_10/29/24	SM22 3500-Cr B	368682		
70319475007	MW-09C_DISS_10/29/25	SM22 3500-Cr B	368682		
70319475009	MW-08B_10/31/24	SM22 3500-Cr B	368862		
70319475010	MW-08B_DISS_10/31/25	SM22 3500-Cr B	368862		
70319475011	MW-08A_10/31/26	SM22 3500-Cr B	368862		
70319475012	MW-08A_DISS_10/31/27	SM22 3500-Cr B	368862		
70319475013	OBS-1_10/31/28	SM22 3500-Cr B	368862		
70319475014	OBS-1_DISS_10/31/29	SM22 3500-Cr B	368862		
70319475015	BLIND DUPLICATE_10/31/30	SM22 3500-Cr B	368862		
70319475016	BLIND DUPLICATE_DISS_10/31/31	SM22 3500-Cr B	368862		
70319475018	MW-06A_11/1/24	SM22 3500-Cr B	369210		
70319475019	MW-06A_DISS_11/1/25	SM22 3500-Cr B	369210		
70319475020	MW-06C_11/1/26	SM22 3500-Cr B	369210		
70319475021	MW-06C_DISS_11/1/27	SM22 3500-Cr B	369210		
70319475022	MW-06B_11/1/28	SM22 3500-Cr B	369210		
70319475023	MW-06B_DISS_11/1/29	SM22 3500-Cr B	369210		
70319475025	LF-2_11/4/24	SM22 3500-Cr B	369211		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70319475026	LF-2 DISS_11/4/25	SM22 3500-Cr B	369211		
70319475027	LF-1_11/4/24	SM22 3500-Cr B	369211		
70319475028	LF-1 DISS_11/4/25	SM22 3500-Cr B	369211		
70319475029	FIELD BLANK_11/4/24	SM22 3500-Cr B	369211		
70319475030	FIELD BLANK DISS_11/4/25	SM22 3500-Cr B	369211		
70319475002	MW-05B_10/29/24	EPA 300.0	369985		
70319475004	MW-09B_10/29/24	EPA 300.0	369985		
70319475006	MW-09C_10/29/24	EPA 300.0	369985		
70319475009	MW-08B_10/31/24	EPA 300.0	370851		
70319475011	MW-08A_10/31/26	EPA 300.0	370851		
70319475013	OBS-1_10/31/28	EPA 300.0	370851		
70319475015	BLIND DUPLICATE_10/31/30	EPA 300.0	370851		
70319475018	MW-06A_11/1/24	EPA 300.0	371224		
70319475020	MW-06C_11/1/26	EPA 300.0	371224		
70319475022	MW-06B_11/1/28	EPA 300.0	371224		
70319475025	LF-2_11/4/24	EPA 300.0	371224		
70319475027	LF-1_11/4/24	EPA 300.0	371224		
70319475029	FIELD BLANK_11/4/24	EPA 300.0	371224		
70319475002	MW-05B_10/29/24	EPA 351.2	369927	EPA 351.2	369933
70319475004	MW-09B_10/29/24	EPA 351.2	369927	EPA 351.2	369933
70319475006	MW-09C_10/29/24	EPA 351.2	369927	EPA 351.2	369933
70319475009	MW-08B_10/31/24	EPA 351.2	369927	EPA 351.2	369933
70319475011	MW-08A_10/31/26	EPA 351.2	369927	EPA 351.2	369933
70319475013	OBS-1_10/31/28	EPA 351.2	369927	EPA 351.2	369933
70319475015	BLIND DUPLICATE_10/31/30	EPA 351.2	369927	EPA 351.2	369933
70319475018	MW-06A_11/1/24	EPA 351.2	369927	EPA 351.2	369933
70319475020	MW-06C_11/1/26	EPA 351.2	369927	EPA 351.2	369933
70319475022	MW-06B_11/1/28	EPA 351.2	369927	EPA 351.2	369933
70319475025	LF-2_11/4/24	EPA 351.2	369927	EPA 351.2	369933
70319475027	LF-1_11/4/24	EPA 351.2	369927	EPA 351.2	369933
70319475029	FIELD BLANK_11/4/24	EPA 351.2	369927	EPA 351.2	369933
70319475002	MW-05B_10/29/24	EPA 353.2	369451		
70319475004	MW-09B_10/29/24	EPA 353.2	369451		
70319475006	MW-09C_10/29/24	EPA 353.2	369451		
70319475009	MW-08B_10/31/24	EPA 353.2	370830		
70319475011	MW-08A_10/31/26	EPA 353.2	370830		
70319475013	OBS-1_10/31/28	EPA 353.2	370830		
70319475015	BLIND DUPLICATE_10/31/30	EPA 353.2	370830		
70319475018	MW-06A_11/1/24	EPA 353.2	370830		
70319475020	MW-06C_11/1/26	EPA 353.2	370830		
70319475022	MW-06B_11/1/28	EPA 353.2	370830		
70319475025	LF-2_11/4/24	EPA 353.2	370830		
70319475027	LF-1_11/4/24	EPA 353.2	370830		
70319475029	FIELD BLANK_11/4/24	EPA 353.2	370830		
70319475002	MW-05B_10/29/24	EPA 353.2	368557		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Table with 6 columns: Lab ID, Sample ID, QC Batch Method, QC Batch, Analytical Method, Analytical Batch. It lists various sample IDs and their corresponding QC and analytical data.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/29

Pace Project No.: 70319475

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70319475013	OBS-1_10/31/28	SM22 4500 NH3 H	369584		
70319475015	BLIND DUPLICATE_10/31/30	SM22 4500 NH3 H	369584		
70319475018	MW-06A_11/1/24	SM22 4500 NH3 H	369584		
70319475020	MW-06C_11/1/26	SM22 4500 NH3 H	369584		
70319475022	MW-06B_11/1/28	SM22 4500 NH3 H	369585		
70319475025	LF-2_11/4/24	SM22 4500 NH3 H	369585		
70319475027	LF-1_11/4/24	SM22 4500 NH3 H	369585		
70319475029	FIELD BLANK_11/4/24	SM22 4500 NH3 H	369585		

REPORT OF LABORATORY ANALYSIS

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WO#: 70319475



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-custody is a LEGAL DOCUMENT - Complete all relevant fields

Pace® Location Requested (City/State): **NEW YORK**

Company Name: **D+B Engineers / Town of Schoharie**
 Street Address: **450 Milk Place / Schoharie NY 13741**
 Customer Project #: **3617 Bethpage Landfill**
 Project Name: **old Bethpage Landfill**
 Site Collection Info/Facility ID (as applicable): **old Bethpage Landfill**

Chain-of-custody is a LEGAL DOCUMENT - Complete all relevant fields

Phone #: **MATT ROSSO**
 E-Mail: **K.Ross@db-engineers.com**
 Cc E-Mail: **Matt.Rosso**
 Invoice to: **M.Rosso@Tobay.net**
 Invoice E-mail: **M.Rosso@Tobay.net**
 Purchase Order # (if applicable): **---**
 Quote #: **---**

Regulatory Program (DW, RCRA, etc.) as applicable: **NEW YORK**

Rush (Pre-approval required): **---**

Date Results Requested: **Standard**

Customer Sample ID	Matrix*	Comp / Grab	Composite Start	Collected or Composite End	# Cont.	Residual Chlorine
Date	Time	Date	Time	Units	Result	Units
Tr-p Blanks-10/29/24	AD	-	-	-	2	-
MW-05B-10/29/24	GW	G	11:20 AM	-	1	-
MW-09B-10/29/24	GW	G	1:30 PM	-	1	-
MW-09C-10/29/24	GW	G	4:30 PM	-	1	-

Additional Instructions from Pace: **Sample bottles collected with (F) We're field testing for metals + PCB's See data to Lab data to db-engineers**

Collected By: **Keith Roberts (D+B)**
 Printed Name: **Keith Roberts**
 Signature: *Keith Roberts*

Date/Time: **10/29/24 5:40 PM**
 Received by/Company: **DB Engineers**
 Signature: *[Signature]*

Customer Remarks / Special Conditions / Possible Hazards: **CMVCs Leachate in tanks / Tanks / Dissolved Metals + CR16**

Coolers: **TH11 TO3A 1:6**

Trade Number: **10/29/24, 17:48**

Delivered by: **Person**

Page: **1** of **1**



Specify Container Size: **10/100**

Identify Container Preservative Type: **---**

Analysis Requested: **TKN, NH3, NO3, Diss. Vol. Phos (F), Diphos (F), Alk. Cl, SO4, CO3, Cyanide**

Lab Use Only	Proj. Mgr.	Account / Client ID:	Table #:	Profile / Template:	Prod. / Bottle Ord. ID:	Sample Comment
6	---	---	---	---	---	Phos (F)
3	---	---	---	---	---	TKN
3	---	---	---	---	---	TKN
3	---	---	---	---	---	TKN
4	---	---	---	---	---	TKN

Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at <https://info.pacelab.com/hubfs/pas-standard-terms.pdf>

Effective Date:

WO#: 70319475

Client Name:

TOY

Project #

PM: LAB

Due Date: 11/13/24

CLIENT: TOY

Courier: Fed Ex UPS USPS Client Commercial Parcel Other

Tracking #:

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Temperature Blank Present: Yes No
Packing Material: Bubble Wrap Bubble Bags Ziplo Non Other Type of Ice: Wet Blue None

Thermometer Used: 16211 Correction Factor: 0.3 Samples on ice, cooling process has begun

Cooler Temperature(°C): 1.6 Cooler Temperature Corrected(°C): 1.9 Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 5.0°C

USDA Regulated Soil N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? Yes No

Did samples originate from a foreign source including Hawaii and Puerto Rico? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents:

10/29/24
PH

	COMMENTS:
Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes date/time/ID/Analysis Matrix: <u>SL</u> <u>WT</u> <u>OIL</u> <u>OTHER</u>	

Date and Initials of person checking preservation:

10/29/24
PH

All containers needing preservation have been <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A pH paper Lot # <u>217624</u>	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	Sample #
Samples checked for dechlorination: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A KI starch test strips Lot # <u>14-860</u>	Initial when completed: Lot # of added preservative: Date/Time preservative added:
Residual chlorine strips Lot #	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Lead Acetate Strips Lot # <u>14-862</u>	15. Positive for Sulfide? Y N
Headspace in ALK Bottle (>6mm): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

WO#: 70319475

PM: LAB

CLIENT: TOY

Due Date: 11/13/24

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Pace
Pace Analytical Long Island NY
575 Broad Hollow Rd, Melville, NY 11747

Company Name: Town of Oyster Bay
Street Address: 150 Miller Place
City: null
State: NY 11791

Contact/Report To: Russo, Matt
Phone #: NONE
E-Mail: mrusso@toybay.net
Cc E-Mail: K.Robias@db-ny.com

Customer Project #: 3617-09
Project Name: Old Bethpage Landfill

Invoice To: Matt Russo
Invoice E-Mail: MRUSSO@toybay.net
Purchase Order # (if applicable):

Site Collection Info/Facility ID (as applicable):
S/O Bethpage Landfill

Quote #:
County / State origin of sample(s): New York

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
Data Deliverables: [] Level II [] Level III [] Level IV
[] EQUIS
[] Other: CATALAN 118

Regulatory Program (DW, RCRA, etc.) as applicable: [] Yes [] No
Rush (Pre-approval required): [] 1 Day [] 2 Day [] 3 Day [] Other:
Field Filtered (if applicable): [] Yes [] No
Analysis: CATO / Dissolved Metals

Date Results Requested: 5/13/24
Date Results Requested: 5/13/24
Date Results Requested: 5/13/24
Date Results Requested: 5/13/24

Matrix *
TRIP 610K-10/31/24
MW-08B-10/31/24
MW-08A-10/31/24
CBS-1-10/31/24

Customer Sample ID
Matrix *
Comp / Grab
Date
Time
Collected or Composite End
Date
Time
Cont.

Res. Chlorine
Results
Units
Time
Date
Time
Cont.

Customer Sample ID	Matrix *	Comp / Grab	Date	Time	Collected or Composite End	Date	Time	# Cont.	Res. Chlorine
TRIP 610K-10/31/24	AQ	-	10/31/24					12	
MW-08B-10/31/24	GW	G-	10/31/24	4:00 PM				12	
MW-08A-10/31/24	GW	G-	10/31/24	5:00 PM				12	
CBS-1-10/31/24	GW	G-	10/31/24	12:00 PM				12	

Additional Instructions from Pace:
Old Bethpage Landfill - dissolved metals; field filtered
CATO - TOY TO NEED
Provide CATERO B Deliverables
Send data to Lab data@db-ny.com
Egg.com

Collected By: YOUN ROBINS
Signature: Keith Robins

Relinquished by/Company: (Signature)
Date/Time: 10/31/24 5:50 pm

Received by/Company: (Signature)
Date/Time: 11/13/24

Relinquished by/Company: (Signature)
Date/Time:

Received by/Company: (Signature)
Date/Time:

Relinquished by/Company: (Signature)
Date/Time:

Received by/Company: (Signature)
Date/Time:

Relinquished by/Company: (Signature)
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Date/Time:

Received by/Company: (Signature)
Date/Time:

Relinquished by/Company: (Signature)
Date/Time:

Received by/Company: (Signature)
Date/Time:

Specify Container Size **
*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Identify Container Preservative Type ***
Analysis Requested

Lab Use Only
Proj. Mgr: Lori Beyer
AcctNum / Client ID:
Table #: 6506
Profile / Template:
Prelog / Bottle Ord. ID: 1177492

Alkalinity
Cyanide
Dissolved Cr+6 (field filtered)
Dissolved Metals (field filtered)
NH3, NO3, TKN
NO2, TDS
Phenolics by 420.1
Total Metals & Hardness
VOC by 8260

Preservation non-conformance identified for
Sample Comment

Customer Remarks / Special Conditions / Possible Hazards:
10g, reduce metals, total dissolved metals (EPA)
Coolings: 1
Thermometer ID: THERM
Obs. Temp (°C): 7.3
Corrected Temp (°C): 7.6
On Ice: w

Tracking Number:
Date/Time: 11/13/24

Delivered by: (Signature)
Date/Time:

Delivered by: (Signature)
Date/Time:

Delivered by: (Signature)
Date/Time:

Delivered by: (Signature)
Date/Time:

Delivered by: (Signature)
Date/Time:

Delivered by: (Signature)
Date/Time:

Delivered by: (Signature)
Date/Time:

Delivered by: (Signature)
Date/Time:

Delivered by: (Signature)
Date/Time:

WO#: 70319475
PM: LAB **Due Date: 11/13/24**
CLIENT: TOY

Client Name: TOY Project # _____
 Courier: Fed Ex UPS USPS Chen Commercial Parcel Other
 Tracking #: _____

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Temperature Blank Present: Yes No
 Packing Material: Bubble Wrap Bubble Bags Ziplo None Other Type of Ice: Wet Blue None
 Thermometer Used: JHZ11 Correction Factor: +0.3 Samples on ice, cooling process has begun
 Cooler Temperature (°C): 7.3 Cooler Temperature Corrected (°C): 7.6 Date/Time 5035A kits placed in freezer _____
 Temp should be above freezing to 5.0°C

USDA Regulated Soil (N/A, water sample)
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? Yes No

Did samples originate from a foreign source including Hawaii and Puerto Rico? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: AEB 11/1/24

		COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes date/time/ID/Analysis Matrix:	SL <input checked="" type="checkbox"/> OIL OTHER	

Date and Initials of person checking preservation: AEB 11/1/24

All containers needing preservation have been	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # <u>213624</u>		Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).		Initial when completed: Lot # of added preservative: Date/Time preservative added:
Per Method, VOA pH is checked after analysis		
Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
KI starch test strips Lot # <u>14-860</u>		Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #		15.
SM 4500 CN samples checked for sul	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Positive for Sulfide? Y N
Lead Acetate Strips Lot # <u>14-862</u>		
Headspace in ALK Bottle (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	17.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/ Resolution: _____ Field Data Required? Y / I / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

Pace
 Pace® Location Requested (City/State):
 Pace Analytical Long Island NY
 575 Broad Hollow Rd, Melville, NY 11747

CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO#: 70319475
PM: LAB **Due Date: 11/15/24**
CLIENT: TOY

Company Name: Town of Oyster Bay
 Street Address: 150 Miller Place
 null
 Syosset, NY 11791

Contact/Report To: Russo, Matt
 Phone #: NONE
 E-Mail: mrusso@toysays.net
 Cc E-Mail: *MATT RUSSO, K Robins @db-eg.com*

Customer Project #: *3617-09*
 Project Name: *Old Bethpage Landfill*
2nd Semi-annual Event 2024
 Site Collection Info/Facility ID (as applicable): *Old Bethpage Landfill*

Invoice To: *M Russo @ toysays.net*
 Invoice E-Mail: *M Russo @ toysays.net*
 Purchase Order # (if applicable):
 Quote #:

County / State origin of sample(s): New York
 Reportable Yes No
 DW PWSID # or WW Permit # as applicable:

Customer Sample ID	Matrix *	Comp / Grab	Composite Start			Collected or Composite End			# Cont.	Res. Chlorine Results	Units
			Date	Time	Date	Time					
<i>TRIP Blank-11/1/24</i>	<i>AW</i>		<i>11/1/24</i>					<i>2</i>			
<i>MW-06A-11/1/24</i>	<i>GW</i>	<i>G</i>	<i>11/1/24</i>	<i>2:40pm</i>				<i>12</i>			
<i>MW-06C-11/1/24</i>	<i>GW</i>	<i>G</i>	<i>11/1/24</i>	<i>12:00pm</i>				<i>12</i>			
<i>MW-06B-11/1/24</i>	<i>GW</i>	<i>G</i>	<i>11/1/24</i>	<i>11:00am</i>				<i>12</i>			

Additional Instructions from Pace:
Old Bethpage Landfill - dissolved metals; field filtered, vials taken & stored for analysis for metals and CP+6 send data to: bob.dela@db-eg.com

Collected By: *Keith Robins*
 Signature: *Keith Robins*

Received by/Company: *ABB Pace CI*
 Date/Time: *11/1/24 3:55pm*

Relinquished by/Company: *Keith Robins / O-16 Engineers*
 Date/Time: *11/1/24*

Relinquished by/Company: _____
 Date/Time: _____

Relinquished by/Company: _____
 Date/Time: _____

Relinquished by/Company: _____
 Date/Time: _____

Specify Container Size **
 2 1 3 3 3 1 1 1 3 6
 Identify Container Preservative Type **
 1 1 5 1 2 3 1 3 2 4

Analysis Requested:
 HNO3, (1) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Alkalinity	Cyanide	Dissolved Cr+6 (field filter)	Dissolved Metals (field filter)	NH3, NO3, TN	No2, TDS	Phenolics by 420.1	Total Metals & Hardness	VOC by 8260	Sample Comment
<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	
<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	
<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	
<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	

Customer Remarks / Special Conditions / Possible Hazards:
 # Coolant: _____
 Thermometer ID: *THZ11* Correction Factor (°C): *+0.3* Obs. Temp. (°C): *1.6* Corrected Temp. (°C): *1.9* Dia. (in): *W*

Date/Time: *11/1/24 15:58*
 Tracking Number: _____
 Delivered by: *Person* Courier: _____
 Date/Time: _____
 Date/Time: _____
 Date/Time: _____
 Page: _____ of _____

Effective Date:

WO#: 70319475
PM: LAB **Due Date: 11/15/24**
CLIENT: TOY

Client Name: TOY

Project #

Courier: Fed Ex UPS USPS ~~Chen~~ Commercial Pac Other

Tracking #:

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Temperature Blank Present: Yes No
 Packing Material: Bubble Wrap Bubble Bags Ziplo None Other Type of Ice: Wet Blue None

Thermometer Used: THZ11 Correction Factor: +0.3 Samples on ice, cooling process has begun
 Cooler Temperature(°C): 1.6 Cooler Temperature Corrected(°C): 1.9 Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? Yes No

Did samples originate from a foreign source including Hawaii and Puerto Rico? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: KEB 11/14/24

	COMMENTS:
Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No -Includes date/time/ID/Analysis Matrix: SL <u>WT</u> OIL OTHER	12. <u>Sample 18,19 (MW-06A) read MW-08A on beffle 4 times match on COC and bottles</u>

Date and Initials of person checking preservation: KEB 11/14/24

All containers needing preservation have been <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A pH paper Lot # <u>213624</u> All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl Sample #
Samples checked for dechlorination: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A KI starch test strips Lot # <u>14-860</u> Residual chlorine strips Lot #	Initial when completed: Lot # of added preservative: Date/Time preservative added:
SM 4500 CN samples checked for sulfide: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Lead Acetate Strips Lot # <u>14-862</u>	14. Positive for Res. Chlorine? Y <input checked="" type="checkbox"/> N
Headspace in ALK Bottle (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15. Positive for Sulfide? Y <input checked="" type="checkbox"/> N
Trip Blank Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Trip Blank Custody Seals Present <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16. 17.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

WO#: 70319475

Client Name: TOY

Project #:

PM: LAB

Due Date: 11/15/24

Courier: Fed Ex UPS USPS Other Commercial Pac Other

CLIENT: TOY

Tracking #:

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Temperature Blank Present: Yes No
Packing Material: Bubble Wrap Bubble Bags Ziplo Non Other Type of Ice: Wet Blue None

Thermometer Used: TH211 Correction Factor: +0.3 Samples on ice, cooling process has begun
Cooler Temperature (°C): 3.6 Cooler Temperature Corrected (°C): 3.9 Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 6°C

USDA Regulated Soil N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? Yes No

Did samples originate from a foreign source including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: ABB 11/4/24

	COMMENTS:
Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes date/time/ID/Analysis Matrix: SL <input checked="" type="checkbox"/> WT <input type="checkbox"/> OIL <input type="checkbox"/> OTHER	

Date and Initials of person checking preservation: ABB 11/4/24

All containers needing preservation have been pH paper Lot # <u>213624</u> All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A NAOH > 12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl Sample #
Samples checked for dechlorination: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A KI starch test strips Lot # <u>14-866</u> Residual chlorine strips Lot #	Initial when completed: Lot # of added preservative: Date/Time preservative added:
SM 4500 CN samples checked for sul <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Lead Acetate Strips Lot # <u>14-862</u>	14. Positive for Res. Chlorine? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Headspace in ALK Bottle (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15. Positive for Sulfide? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Trip Blank Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Trip Blank Custody Seals Present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. 17.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.



ANALYTICAL REPORT

Lab Number:	L2465006
Client:	Pace Analytical Services Inc 575 Broad Hollow Road Melville, NY 11747
ATTN:	Lori Beyer
Phone:	(516) 370-6014
Project Name:	OLD BETHPAGE LANDFILL 10/29
Project Number:	70320463
Report Date:	11/20/24

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

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

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

Project Name: OLD BETHPAGE LANDFILL 10/29

Project Number: 70320463

Lab Number: L2465006

Report Date: 11/20/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2465006-01	MW-05B_10/29/24	WATER	NY	10/29/24 11:20	11/06/24
L2465006-02	MW-09B_10/29/24	WATER	NY	10/29/24 13:45	11/06/24
L2465006-03	MW-09C_10/29/24	WATER	NY	10/29/24 16:30	11/06/24
L2465006-04	MW-08B_10/31/24	WATER	NY	10/31/24 16:00	11/06/24
L2465006-05	MW-08A_10/31/26	WATER	NY	10/31/24 17:00	11/06/24
L2465006-06	OBS-1_10/31/28	WATER	NY	10/31/24 12:25	11/06/24
L2465006-07	BLIND DUPLICATE_10/31/30	WATER	NY	10/31/24 00:00	11/06/24
L2465006-08	MW-06A_11/1/24	WATER	NY	11/01/24 14:40	11/06/24
L2465006-09	MW-06C_11/1/26	WATER	NY	11/01/24 13:20	11/06/24
L2465006-10	MW-06B_11//1/28	WATER	NY	11/01/24 11:00	11/06/24
L2465006-11	LF-1_11/4/24	WATER	NY	11/04/24 11:20	11/06/24
L2465006-12	LF-2_11/4/24	WATER	NY	11/04/24 15:00	11/06/24
L2465006-13	FIELD BLANK_11/4/24	WATER	NY	11/04/24 15:30	11/06/24

Project Name: OLD BETHPAGE LANDFILL 10/29
Project Number: 70320463

Lab Number: L2465006
Report Date: 11/20/24

Case Narrative

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

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

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

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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: OLD BETHPAGE LANDFILL 10/29
Project Number: 70320463

Lab Number: L2465006
Report Date: 11/20/24

Case Narrative (continued)

Report Submission

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

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:

 Caitlin Walukevich

Title: Technical Director/Representative

Date: 11/20/24

INORGANICS & MISCELLANEOUS

Project Name: OLD BETHPAGE LANDFILL 10/29
Project Number: 70320463

Lab Number: L2465006
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465006-01
Client ID: MW-05B_10/29/24
Sample Location: NY

Date Collected: 10/29/24 11:20
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:39	4,420.1	KEM



Project Name: OLD BETHPAGE LANDFILL 10/29
Project Number: 70320463

Lab Number: L2465006
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465006-02
Client ID: MW-09B_10/29/24
Sample Location: NY

Date Collected: 10/29/24 13:45
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:42	4,420.1	KEM



Project Name: OLD BETHPAGE LANDFILL 10/29
Project Number: 70320463

Lab Number: L2465006
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465006-03
Client ID: MW-09C_10/29/24
Sample Location: NY

Date Collected: 10/29/24 16:30
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:43	4,420.1	KEM



Project Name: OLD BETHPAGE LANDFILL 10/29

Lab Number: L2465006

Project Number: 70320463

Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465006-04

Date Collected: 10/31/24 16:00

Client ID: MW-08B_10/31/24

Date Received: 11/06/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:44	4,420.1	KEM



Project Name: OLD BETHPAGE LANDFILL 10/29
Project Number: 70320463

Lab Number: L2465006
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465006-05
Client ID: MW-08A_10/31/26
Sample Location: NY

Date Collected: 10/31/24 17:00
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:45	4,420.1	KEM



Project Name: OLD BETHPAGE LANDFILL 10/29

Lab Number: L2465006

Project Number: 70320463

Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465006-06

Date Collected: 10/31/24 12:25

Client ID: OBS-1_10/31/28

Date Received: 11/06/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:46	4,420.1	KEM



Project Name: OLD BETHPAGE LANDFILL 10/29
Project Number: 70320463

Lab Number: L2465006
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465006-07
Client ID: BLIND DUPLICATE_10/31/30
Sample Location: NY

Date Collected: 10/31/24 00:00
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:46	4,420.1	KEM



Project Name: OLD BETHPAGE LANDFILL 10/29

Lab Number: L2465006

Project Number: 70320463

Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465006-08

Date Collected: 11/01/24 14:40

Client ID: MW-06A_11/1/24

Date Received: 11/06/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:47	4,420.1	KEM



Project Name: OLD BETHPAGE LANDFILL 10/29

Lab Number: L2465006

Project Number: 70320463

Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465006-09

Date Collected: 11/01/24 13:20

Client ID: MW-06C_11/1/26

Date Received: 11/06/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Phenolics, Total	0.006	J	mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:48	4,420.1	KEM



Project Name: OLD BETHPAGE LANDFILL 10/29
Project Number: 70320463

Lab Number: L2465006
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465006-10
Client ID: MW-06B_11//1/28
Sample Location: NY

Date Collected: 11/01/24 11:00
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Phenolics, Total	0.014	J	mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:49	4,420.1	KEM



Project Name: OLD BETHPAGE LANDFILL 10/29

Lab Number: L2465006

Project Number: 70320463

Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465006-11

Date Collected: 11/04/24 11:20

Client ID: LF-1_11/4/24

Date Received: 11/06/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Phenolics, Total	0.008	J	mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:50	4,420.1	KEM



Project Name: OLD BETHPAGE LANDFILL 10/29

Lab Number: L2465006

Project Number: 70320463

Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465006-12

Date Collected: 11/04/24 15:00

Client ID: LF-2_11/4/24

Date Received: 11/06/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Phenolics, Total	0.009	J	mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:53	4,420.1	KEM



Project Name: OLD BETHPAGE LANDFILL 10/29

Lab Number: L2465006

Project Number: 70320463

Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465006-13

Date Collected: 11/04/24 15:30

Client ID: FIELD BLANK_11/4/24

Date Received: 11/06/24

Sample Location: NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:54	4,420.1	KEM



Project Name: OLD BETHPAGE LANDFILL 10/29
Project Number: 70320463

Lab Number: L2465006
Report Date: 11/20/24

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-13 Batch: WG1999280-1									
Phenolics, Total	ND	mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:35	4,420.1	KEM

Lab Control Sample Analysis Batch Quality Control

Project Name: OLD BETHPAGE LANDFILL 10/29
Project Number: 70320463

Lab Number: L2465006
Report Date: 11/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 Batch: WG1999280-2								
Phenolics, Total	89		-		70-130	-		

Matrix Spike Analysis Batch Quality Control

Project Name: OLD BETHPAGE LANDFILL 10/29

Lab Number: L2465006

Project Number: 70320463

Report Date: 11/20/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1999280-4 QC Sample: L2466048-01 Client ID: MS Sample												
Phenolics, Total	0.008J	0.4	0.34	84	-	-	-	-	70-130	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1999280-6 QC Sample: L2466048-02 Client ID: MS Sample												
Phenolics, Total	0.013J	0.4	0.35	86	-	-	-	-	70-130	-	-	20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: OLD BETHPAGE LANDFILL 10/29

Project Number: 70320463

Lab Number: L2465006

Report Date: 11/20/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1999280-3 QC Sample: L2466048-01 Client ID: DUP Sample						
Phenolics, Total	0.008J	0.010J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1999280-5 QC Sample: L2466048-02 Client ID: DUP Sample						
Phenolics, Total	0.013J	0.017J	mg/l	NC		20

Project Name: OLD BETHPAGE LANDFILL 10/29**Lab Number:** L2465006**Project Number:** 70320463**Report Date:** 11/20/24**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2465006-01A	Amber 1000ml H2SO4 preserved	B	<2	<2	4.6	Y	Absent		NY-TPHENOL-420(28)
L2465006-02A	Amber 1000ml H2SO4 preserved	B	<2	<2	4.6	Y	Absent		NY-TPHENOL-420(28)
L2465006-03A	Amber 1000ml H2SO4 preserved	B	<2	<2	4.6	Y	Absent		NY-TPHENOL-420(28)
L2465006-04A	Amber 1000ml H2SO4 preserved	C	<2	<2	3.2	Y	Absent		NY-TPHENOL-420(28)
L2465006-05A	Amber 1000ml H2SO4 preserved	C	<2	<2	3.2	Y	Absent		NY-TPHENOL-420(28)
L2465006-06A	Amber 1000ml H2SO4 preserved	B	<2	<2	4.6	Y	Absent		NY-TPHENOL-420(28)
L2465006-07A	Amber 1000ml H2SO4 preserved	B	<2	<2	4.6	Y	Absent		NY-TPHENOL-420(28)
L2465006-08A	Amber 1000ml H2SO4 preserved	C	<2	<2	3.2	Y	Absent		NY-TPHENOL-420(28)
L2465006-09A	Amber 1000ml H2SO4 preserved	C	<2	<2	3.2	Y	Absent		NY-TPHENOL-420(28)
L2465006-10A	Amber 1000ml H2SO4 preserved	C	<2	<2	3.2	Y	Absent		NY-TPHENOL-420(28)
L2465006-11A	Amber 1000ml H2SO4 preserved	B	<2	<2	4.6	Y	Absent		NY-TPHENOL-420(28)
L2465006-12A	Amber 1000ml H2SO4 preserved	C	<2	<2	3.2	Y	Absent		NY-TPHENOL-420(28)
L2465006-13A	Amber 1000ml H2SO4 preserved	B	<2	<2	4.6	Y	Absent		NY-TPHENOL-420(28)

Project Name: OLD BETHPAGE LANDFILL 10/29
Project Number: 70320463

Lab Number: L2465006
Report Date: 11/20/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: OLD BETHPAGE LANDFILL 10/29
Project Number: 70320463

Lab Number: L2465006
Report Date: 11/20/24

Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: OLD BETHPAGE LANDFILL 10/29
Project Number: 70320463

Lab Number: L2465006
Report Date: 11/20/24

Data Qualifiers

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

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

Report Format: DU Report with 'J' Qualifiers



Project Name: OLD BETHPAGE LANDFILL 10/29
Project Number: 70320463

Lab Number: L2465006
Report Date: 11/20/24

REFERENCES

- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

EPA 625.1: alpha-Terpineol

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

EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.

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

Mansfield Facility

SM 2540D: TSS.

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

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

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

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

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

Non-Potable Water

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

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

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

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522, EPA 537.1.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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

					Comments
Transfers	Released By	Date/Time	Received By	Date/Time	
1	<i>[Signature]</i>	<i>11/6/24 19:30</i>	<i>MSMA(AAL)</i>	<i>11/6 19:30</i>	
2	<i>[Signature]</i>	<i>11/6 2024</i>	<i>Anthony Green</i>	<i>NOV 06 2024 22:35</i>	
3	<i>Anthony Green</i>		<i>[Signature]</i>	<i>11/7/24 3:10</i>	
Cooler Temperature on Receipt _____ °C		Custody Seal Y or		Received on Ice Y or	
					Samples Intact Y or

Pace Pace® Location Requested (City/State): **CHAIN-OF-CUSTODY Analytical Request Document**
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name: **D+B Engineers / Town of York** Request/Report to: **MATT RUSSO**
 Street Address: **#50 Miller Place, Syosset NY 11791** Phone #: **-**
 E-Mail: **M.RUSSO@tobay.net**
 Cc E-Mail: **K.Robins@db-eng.com**
 Customer Project #: **3617** Invoice to: **Matt Russo**
 Project Name: **Old Bethpage Landfill** Invoice E-mail: **M.RUSSO@Tobay.net**
 Site Collection Info/Facility ID (as applicable): **Old Bethpage Landfill** Purchase Order # (if applicable): **-**
 Quote #: **-** County / State origin of samples: **New York**

Time Zone Collected: AK PT MT CT ED Reportable Yes No

Data Deliverables: Regulatory Program (DW, RCRA, etc.) as applicable: **-** Reportable Yes No
 Level I Level II Level III
 Other **Category A** Rush (Pre-approval required): Same Day 1 Day 2 Day 3 Day Other **Standard**
 Date Results Requested: **Standard** DW PWSID # or WW Permit # as applicable: **-**
 Field Filtered (if applicable) Yes No Analysis: **Value retained - no**

* Matrix Codes (present on Matrix Check-out): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Waste (WP), Tissue (TS), Biostay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Cask (CK), Leachate (LL), Biofilm (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Result/Units		Preservation	Lab Use Only	Sample Comment
			Date	Time	Date	Time		Result	Units			
Trip Blank - 10/29/24	AD	-	10/29/24	-	-	-	2	-	-	-	-	-
MW-05B - 10/29/24	GW	G	10/29/24	11:20 am	-	-	12	-	-	-	-	Keep TKN
MW-09B - 10/29/24	GW	G	10/29/24	1:45 pm	-	-	12	-	-	-	-	Keep TKN
MW-09C - 10/29/24	GW	G	10/29/24	4:30 pm	-	-	12	-	-	-	-	Keep TKN

Additional Instructions from Pace: **Sample bottles decontaminated with HCl (F) were held in place for metals + Cr+6. Sent to Lab for analysis - db-eng.com**

Collected By: **Keith Robins (D+B)** Signature: **Keith Robins**

Customer Remarks / Special Conditions / Possible Hazards: **CVOCs Leachate indicator (Total/dissolved metals + Cr+6)**

Received by Company (Signature): **Keith Robins / D+B Engineers** Date/Time: **10/29/24 5:40 pm**

Received by Company (Signature): **Keith P-LZ** Date/Time: **10/29/24 17:48**

Tracking Number: **10/29/24 17:48**

Delivered by: In-Person Courier FedEx UPS Other

Page: **1** of **1**

WO#: 70319475



70319475

Specify Container Site **

6	1	3	3	3	2	1	3	3	1
---	---	---	---	---	---	---	---	---	---

Identify Container Preservative Type ***

4	1	5	1	2	1	1	2	1	1
---	---	---	---	---	---	---	---	---	---

Analysis Requested

Preservation Acknowledgment - conformance identified for sample.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at <https://www.pacedbs.com/hubs/pas-standard-terms.pdf>. ENV-FRM-CORQ-0019_v02_110123 ©

DC# Title: Excel Form Template
Effective Date:

Client Name:

Courier: Fed Ex UPS USPS Client Commercial Parcel Other

Tracking #:

Project #

W0# : 70319475

PH : LRB Due Date: 11/13/24
CLIENT : TOY

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No Temperature Blank Present: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc Non Other Type of Ice: Wet Blue None

Thermometer Used: 1611 Correction Factor: 0.3 Samples on ice, cooling process has begun Date/Time 5035A kits placed in freezer

Cooler Temperature (C): 1.6 Cooler Temperature Corrected (C): 1.9 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil N/A, water sample
Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? Yes No

Did samples originate from a foreign source including Hawaii and Puerto Rico? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork. Date and Initials of person examining contents: 10/29/24

	Chain of Custody Present:	Chain of Custody Filled Out:	Chain of Custody Relinquished:	Sampler Name & Signature on COC:	Samples Arrived within Hold Time:	Short Hold Time Analysis (<72hr):	Rush Turn Around Time Requested:	Sufficient Volume: (Triple volume provided for MS/MSD)	Correct Containers Used:	- Pace Containers Used:	Containers Intact:	Filtered volume received for Dissolved tests:	Sample Labels match COC:	- Includes date/time/method/analysis Matrix:	COMMENTS:
1.	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>10/29/24</u>
2.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>10/29/24</u>
3.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>10/29/24</u>
4.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>10/29/24</u>
5.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>10/29/24</u>
6.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>10/29/24</u>
7.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>10/29/24</u>
8.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>10/29/24</u>
9.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>10/29/24</u>
10.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>10/29/24</u>
11.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>10/29/24</u>
12.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>10/29/24</u>

Date and Initials of person checking preservation: 10/29/24

All containers needing preservation have been pH paper Lot #	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	Sample #	Initial when completed	Lot # of added preservative:	Date/time preservative added		
217624	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	13.	<input type="checkbox"/> HNO ₃	<input type="checkbox"/> H ₂ SO ₄	<input type="checkbox"/> NaOH	<input type="checkbox"/> HCl	<u>10/29/24</u>
All containers needing preservation are found to be in compliance with method recommendations? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH+8 Sulfide <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A NaOH+12 Cyanide)									
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).									
Per Method: VOA, pH is checked after analysis									
Samples checked for dechlorination: KI starch test strips Lot # <u>14-86</u>									
Residual chlorine strips Lot #									
SM 4500 CN samples checked for sul <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A									
Lead Acetate Strips Lot # <u>14-862</u>									
Headspace in ALK Bottle (>6mm): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A									
Headspace in VOA Vials (>6mm): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A									
Trip Blank Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A									
Trip Blank Custody Seals Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A									

Field Data Required? Y / N

Client Notification/ Resolution:

Person Contacted:

Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

WO#: 70319475

PM: LAB
CLIENT: TOY

Due Date: 11/13/24

Pace Location Requested (City/State):
Pace Analytical Long Island NY
575 Broad Hollow Rd, Melville, NY 11747

CHAIN-OF-CUSTODY Analytical Request Document
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name: Town of Oyster Bay
Street Address: 150 Miller Place
null
Syosset, NY 11791

Contact/Report To: Russo, Matt
Phone #: NONE
E-Mail: mrusso@tobays.net
Cc E-Mail: K.Robins@db-ny.com

Customer Project #: 3017-09
Project Name: Old Bethpage Landfill

Invoice To: Matt Russo
Invoice E-Mail: mrusso@tobays.net
Purchase Order # (if applicable):
Quote #:

Site Collection Info/Facility (as applicable):
Old Bethpage Landfill

Time Zone Collected: [] AK [] PT [] MT [] CT [X] ET
County / State origin of sample(s): New York

Data Deliverables:
[] Level II [] Level III [] Level IV
[X] EQUIS
[] Other: Colours "B"

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [X] No
Rush (Pre-approval required):
[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other
Date Results Requested: STANDARD
Field Filtered (if applicable): [X] Yes [] No
Analysis: CR70 / CR30, lead, nickel

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix*	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine		Alkalinity	Cyanide	Dissolved Cr+6 (field filter)	Dissolved Metals (field filter)	NH3, NO3, TKN	NO2, TDS	Phenolics by 420.1	Total Metals & Hardness	VOC by 8260	
			Date	Time	Date	Time		Results	Units										
TRIP B/CAR-10/31/24	AQ	-	10/31/24	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
MW-08B-10/31/24	GW	G-	10/31/24	4:00 pm	-	-	12	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW-08A-10/31/24	GW	G-	10/31/24	5:00 pm	-	-	12	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CRS-1-10/31/24	GW	G-	10/31/24	12:25 pm	-	-	12	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Specify Container Size **
Identify Container Preservative Type***
Analysis Requested

Proj. Mgr:
Lori Beyer
AcctNum / Client ID:
Table #:
Profile / Template:
6506
Prelog / Bottle Ord. ID:
1177492

Additional Instructions from Pace*:
Old Bethpage Landfill - dissolved metals; field filtered
CR70 - field filtered
Provide Category B deliverables
Send data to Lab data@db-ny.com

Collected By: (Printed Name) Keith N Robins
Signature: Keith Robins

Customer Remarks / Special Conditions / Possible Hazards:
VOC, leachate indicators, total dissolved metals (CR70)

Coolers: 11
Thermometer ID: TH211
Correction Factor (°C): +0.3
Obs. Temp. (°C): 7.3
Corrected Temp. (°C): 7.6
On Ice: w

Relinquished by/Company: (Signature) Keith Robins - D/B Engineers
Date/Time: 10/31/24 5:50 pm

Received by/Company: (Signature) [Signature]
Date/Time: 11/13/24

Tracking Number:
Delivered by [X] Person [] Courier
[] FedEx [] UPS [] Other

Page: 1 of 1

MO#: 70319475

PH: LAB Due Date: 11/13/24
CLIENT: TOY

Client Name: **TOY**

Courier: FedEx UPS USPS Commercial Parcel Other

Tracking #: _____

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No
Temperature Blank Present: Yes No
Packing Material: Bubble Wrap Bubble Bags Paper None Other Type of Ice: Wet Blue None

Thermometer Used: **FH211** Correction Factor: **10.3** Samples on ice, cooling process has begun
Cooler Temperature: **7.3** Cooler Temperature Corrected: **7.6** Date/Time 5035A kits placed in freezer _____
Temp should be above freezing to 5°C

USDA Regulated Soil N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX,
or VA (check map)? Yes No

Did samples originate from a foreign source including Hawaii and Puerto Rico? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCURCOC paperwork.

Date and Initials of person examining contents: **AFB 11/124**

COMMENTS:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3.
Sample Name & Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	4. N/A
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	9.
- Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	10.
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	11. Note: If sediment is visible in the dissolved container.
Filtered volume received for Dissolved tests:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	12. N/A
Sample Labels match COC: -Includes date/name/DNA/analysis	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	12. Matrix: SL (M) OIL OTHER

Date and Initials of person checking preservation: **AFB 11/124**

All containers needing preservation have been	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	N/A
pH paper Lot #	213624		
All containers needing preservation are found to be in compliance with method recommendations? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH+9 Sulfide, NaOH+12 Cyanide)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	N/A
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water), Per Method, VOA pH is checked after analysis			
Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	N/A
KI starch test strips Lot #	14-860		
Residual chlorine strips Lot #			
SM 4500 CN samples checked for sul	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	N/A
Lead Acetate Strips Lot #	14-862		
Headspace in ALK Bottle (26mm):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	N/A
Headspace in VOA Vials (26mm):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	N/A
Trip Blank Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	N/A
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	N/A

Initial when completed:	Lot # of sealed preservation:	Date/Time preservative added:

14. Positive for Res. Chlorine? Y N

15. Positive for Sulfide? Y N

16.

17.

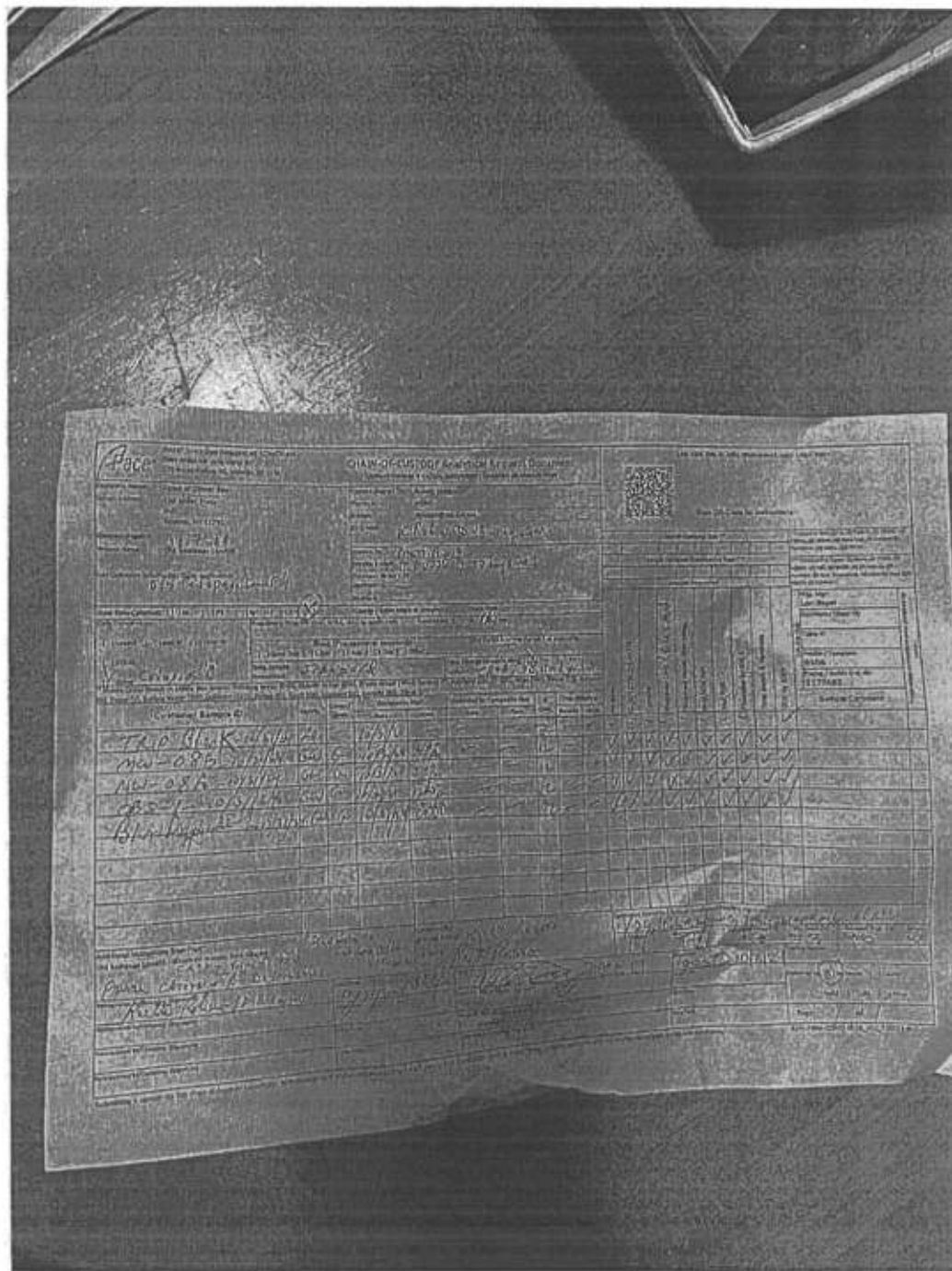
Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted/ Comments/ Resolution:

Date/Time:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIS.



Pace Location Requested (City/State):
Pace Analytical Long Island NY
575 Broad Hollow Rd, Melville, NY 11747

CHAIN-OF-CUSTODY Analytical Request Document
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO#: 70319475
PM: LAB Due Date: 11/15/24
CLIENT: TOY

Company Name: Town of Oyster Bay
Street Address: 150 Miller Place
null
Syosset, NY 11791
Customer Project #: 3617-09
Project Name: Old Bethpage Landfill
2nd Semi Annual Event 2024
Site Collection Info/Facility ID (as applicable):
old Bethpage Landfill

Contact/Report To: Russo, Matt
Phone #: NONE
E-Mail: mrusso@toyards.net
Cc E-Mail: K Robins @db-ny.com
Invoice To: M Russo @ toyards.net
Invoice E-Mail: M Russo @ toyards.net
Purchase Order # (if applicable):
Quote #:

Specify Container Size **
1 1 3 3 2 1 1 3 6
Identify Container Preservative Type**
1 1 5 1 2 3 1 3 2 4
Analysis Requested

Time Zone Collected: [] AK [] PT [] MT [] CT [X] ET
Data Deliverables:
[] Level II [] Level III [] Level IV
REGIONS
[X] Other: CATEGORIES B

Regulatory Program (D/W, RCRA, etc.) as applicable: Reportable [] Yes [X] No
Rush (Pre-approval required):
[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other
Date Results Requested: Standard
Field Filtered (if applicable): [X] Yes [] No
Analysis: Dissolved metals + CR+6

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EcoCirc, (8) TerraCore, (9) 90mL, (20) Other
*** Preservative Types: (1) None, (2) HNO3, (4) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other
Proj. Mgr: Lori Beyer
AcctNum / Client ID:
Table #:
Profile / Template: 6506
Prelog / Bottle Ord. ID: 1177492

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine		Alkalinity	Cl, SO4, CO3, Cr6, HCO3	Cyanide	Dissolved Cr+6 (Field Filtered) (F)	Dissolved Metals (Field Filtered) (F)	NH3, NO3, TN	Na2, TDS	Phenolics by 420.1	Total Metals & Hardness	VOC by 8260	Sample Comment	
			Date	Time	Date	Time		Results	Units												
Trip Blank - 11/1/24	AW	-	11/1/24	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-06A - 11/1/24	SW	G	11/1/24	2:40 pm	-	-	12	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW-06C - 11/1/24	SW	G	11/1/24	1:20 pm	-	-	12	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW-06B - 11/1/24	SW	G	11/1/24	11:00 am	-	-	12	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Additional Instructions from Pace*:
Old Bethpage Landfill - dissolved metals; field filtered; bottles decontaminated (F)
VOC field filtered for dissolved metals and CR+6
Send data f. Lab data @db-ny.com

Collected By: (Printed Name) Keith Robins
Signature: Keith Robins

Customer Remarks / Special Conditions / Possible Hazards:
Cools: 7 Thermometer ID: JH211 Correction Factor (°C): +0.3 Obs. Temp. (°C): 1.6 Corrected Temp. (°C): 1.9 (W)

Relinquished by/Person (Signature): Keith Robins / O+B Engineers	Date/Time: 11/1/24 3:55 pm	Received by/Company (Signature): AEB Pace LI	Date/Time: 11/1/24 15:58	Tracking Number:
Relinquished by/Company (Signature):	Date/Time:	Received by/Company (Signature):	Date/Time:	Delivered by: [X] In-Person [] Courier
Relinquished by/Company (Signature):	Date/Time:	Received by/Company (Signature):	Date/Time:	[] FedEx [] UPS [] Other
Relinquished by/Company (Signature):	Date/Time:	Received by/Company (Signature):	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace* Terms and Conditions found at <https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/> ENV-FRM-CORQ-0019_02_110123 ©

DC# Title: Excel Form Template
Effective Date:

Client Name: TOY
 Courier: Fed Ex UPS USPS Gen Commercial Pac Other
 Tracking #: _____
 Project # _____

W0#: 70319475
 PH: LAB Due Date: 11/15/24
 CLIENT: TOY

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No
 Temperature Blank Present: Yes No
 Packing Material: Bubble Wrap Bubble Bags Ziploc None Other
 Type of Ice: Wet Blue None
 Thermometer Used: TH211 Correction Factor: +0.5 Samples on Ice, cooling process has begun
 Cooler Temperature (°C): 1.6 Cooler Temperature Corrected (°C): 1.9 Date/Time 5035A kits placed in freezer _____
Temp should be above freezing to 6°C
 USDA Regulated Soil N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? Yes No

Did samples originate from a foreign source including Hawaii and Puerto Rico? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: ASB 11/14/24

COMMENTS:	
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sufficient Volume: (Triple volume provided for MS/MSD)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Filtered volume received for Dissolved Tests:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
-Includes date/time and Analysis Matrix:	SL <input checked="" type="checkbox"/> MT <input type="checkbox"/> OIL <input type="checkbox"/> OTHER
All containers needing preservation have been <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A pH paper Lot # <u>213624</u> All containers needing preservation are found to be in compliance with method recommendation? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A NaOH > 12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/015 (water), Per Method, VOA pH is checked after analysis Samples checked for dechlorination: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A KI starch test strips Lot # <u>14-86</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Residual chlorine strips Lot # _____ SM 4500 CN samples checked for sulfides <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Lead Acetate Strips Lot # <u>14-862</u> Headspace in ALK Bottle (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Trip Blank Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Trip Blank Custody Seals Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
13.	<input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
14.	Initial when completed
15.	Positive for Res. Chlorine? <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N
16.	Positive for Sulfide? <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N
17.	

12. Sample 13, 14 (14-06A) read above 0.84 on bottles
 bottles times method on COC and bottles on
 Date and Initials of person checking preservation: ASB 11/14/24

Client Notification/ Resolution: _____
 Person Contacted: _____
 Comments/ Resolution: _____
 Field Data Required? Y N
 Date/Time: _____

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

Pace Pace* Location Requested (City/State):
Pace Analytical Long Island NY
575 Broad Hollow Rd, Melville, NY 11747

CHAIN-OF-CUSTODY Analytical Request Document
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO#: 70319475

PM: LAB Due Date: 11/15/24
CLIENT: TOY

Company Name: Town of Oyster Bay
Street Address: 150 Miller Place
null
Syosset, NY 11791

Customer Project #: 3617-09
Project Name: Old Bethpage Landfill

Site Collection Info/Facility ID (as applicable):
old Bethpage Landfill

Contact/Report To: Russo, Matt
Phone #: NONE
E-Mail: mrusso@tobays.net
Cc E-Mail: *KRobins@db-ny.com*

Invoice To: *MATT Russo*
Invoice E-Mail: *MRUSSO@4obays.NET*
Purchase Order # (if applicable):
Quote #:

Time Zone Collected: [] AX [] PT [] MT [] CT [X] ET County / State origin of sample(s): New York

Data Deliverables: Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [X] No

[] Level II [] Level III [] Level IV
[] EQURS
[X] Other: *CATEGORY "B"*

Rush (Pre-approval required) [] Same Day [] 1 Day [] 2 Day [] 3 Day [X] Other: _____
Date Results Requested: *STANDARD* Field Filtered (if applicable): [X] Yes [] No
Analysis: *AR-106 + CR-16*

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine		Alkalinity	CL, SO4, CO3, Cr6, HCO3	Cyanide	Dissolved Cr+6 (field filling)	Dissolved Metals (field filling)	NH3, NO3, TKN	Na2, TDS	Phenolics by 420.1	Total Metals & Hardness	VOC by 8260	
			Date	Time	Date	Time		Results	Units											
<i>TRIP Blank - 11/4/24</i>	<i>AR</i>	<i>-</i>	<i>11/4/24</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>2</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
<i>LF-2 - 11/4/24</i>	<i>GW</i>	<i>G</i>	<i>11/4/24</i>	<i>11:20 am</i>	<i>-</i>	<i>-</i>	<i>12</i>	<i>-</i>	<i>-</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>
<i>LF-1 - 11/4/24</i>	<i>GW</i>	<i>G</i>	<i>11/4/24</i>	<i>3:00 pm</i>	<i>-</i>	<i>-</i>	<i>12</i>	<i>-</i>	<i>-</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>
<i>Field Blank - 11/4/24</i>	<i>AR</i>	<i>G</i>	<i>11/4/24</i>	<i>3:50 pm</i>	<i>-</i>	<i>-</i>	<i>12</i>	<i>-</i>	<i>-</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>

Additional Instructions from Pace*:
Old Bethpage Landfill - dissolved metals; field filtered, samples stored in 4F, send data to Lab data @ db-ny.com

Collected By: *Keith Robins*
Signature: *Keith Robins*

Customer Remarks / Special Conditions / Possible Hazards:
VOCs, leachate, and metals out (CR+6)

Coolers: *1* Thermometer ID: *THERM* Correction Factor (°C): *10.3* Obs. Temp. (°C): *3.6* Corrected Temp. (°C): *3.9* Onset: *4*

Relinquished by Company (Signature): *Keith Robins / OIB Engineers*
Date/Time: *11/4/24 4:15 pm*

Received by Company (Signature): *[Signature]*
Date/Time: *11/4/24 16:17*

Tracking Number: _____
Delivered by: [X] In Person [] Courier
[] FedEx [] UPS [] Other
Page: *1* of *1*

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace* Terms and Conditions found at <https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/>

ENV-FRM-CORQ-0018_v02_110123 ©

Client Name: TOY
 Courier: FedEx UPS USPS Commercial Parcel Other

Project # MO#: 70319475
 PH: LAB
 CLIENT: TOY
 Due Date: 11/15/24

Tracking #: _____
 Custody Seal on Cooler/Box Present: Yes No Seal's Intact: Yes No Temperature Blank Present: Yes No
 Packing Material: Bubble Wrap Bubble Bags Ziploc None Other Type of Ice: Wet Blue None
 Thermometer Used: TH11 Correction Factor: 0.3 Samples on ice, cooling process has begun
 Cooler Temperature (C): 3.6 Cooler Temperature corrected (C): 3.9 Date/Time 5035A kits placed in freezer _____
 Temp should be above freezing in g/lpc
 USDA Regulated Soil N/A, water sample)
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? Yes No
 Did samples originate from a foreign source including Hawaii and Puerto Rico? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELY-0076) and include with SCUR/COC paperwork.
 Date and Initials of person examining contents: KEB 11/4/24

Chain of Custody Present:	Chain of Custody Filled Out:	Chain of Custody Relinquished:	Sampler Name & Signature on COC:	Samples Arrived within Hold Time:	Short Hold Time Analysis (<72hr):	Rush Turn Around Time Requested	Sufficient Volume: (Triple volume provided for MS/MSD)	Correct Containers Used:	Trace Containers Used:	Containers Intact:	Filtered volume received for Dissolved tests	Sample Labels match COC: (includes delineation/analysis)	Matrix:	Other	COMMENTS:
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	1.
<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	2.
<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	3.
<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	4.
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	5.
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	6.
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	7.
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	8.
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	9.
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	10.
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	11.
<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No	12.

Date and Initials of person checking preservation: ABB 11/4/24

All containers needing preservation have been	pH paper Lot #	All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, Yes No) (NaOH > 12 Cyanide)	Exceptions: VOA, Coliform, TOC/DLOC, Oil and Grease, DRO/8015 (water), Per Method, VOA pH is checked after analysis	Samples checked for dechlorination:	KI starch test strips Lot #	Residual chlorine strips Lot #	SM 4500 CN samples checked for sulf	Lead Acetate Strips Lot #	Headspace in ALK Bottle (>6mm):	Headspace in VOA Vials (>6mm):	Trip Blank Present:	Trip Blank Custody Seals Present:	Initials when completed:	Lot # of added preservative:	Date/Time preservative added:	
<input checked="" type="checkbox"/> Yes	<u>213624</u>	<input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes	<u>14-866</u>	<input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes	<u>14-866</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A				
																13.
																14.
																15.
																16.
																17.

Client Notification/ Resolution: _____
 Person Contacted: _____
 Comments/ Resolution: _____

Field Data Required? Y / N
 Date/Time: _____



November 25, 2024

Robbin Petrella
Dvirka & Bartilucci
330 Crossways Park Drive
Woodbury, NY 11797

RE: Project: OLD BETHPAGE LANDFILL 11/5
Pace Project No.: 70320463

Dear Robbin Petrella:

Enclosed are the analytical results for sample(s) received by the laboratory on November 06, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lori A. Beyer
lori.beyer@pacelabs.com
516-370-6014
Project Manager

Enclosures

cc: Donna Brown, D&B Engineers and Architects, P.C.
Tom Fox, D&B Engineers and Architects, P.C.
John Gerlach, Lockwood Kessler & Bartlett



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Texas Certification #: T104704582

Florida Certification #: E871198

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Town of Oyster Bay

Date: November 25, 2024

General Information:

2 samples were analyzed for EPA 200.7 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 369949

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70320196001,70320239001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1933445)

- Manganese

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

The post digestion spike for sample 70320239001 (PDS 1933546) did not meet acceptance criteria for Silver.

- QC Batch: 369978

The post digestion spike for sample 70320463004 (PDS 1935348) did not meet acceptance criteria for Silver, Iron and Sodium.

- QC Batch: 370239

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Town of Oyster Bay

Date: November 25, 2024

Batch Comments:

The serial dilution for sample 70320239001 (SD 1933547) did not meet acceptance criteria for Aluminum, Arsenic, Potassium, Molybdenum, Sodium, Lead, Antimony and Selenium.

- QC Batch: 369978

The serial dilution for sample 70320463004 (SD 1935349) did not meet acceptance criteria for Boron, Cobalt and Potassium.

- QC Batch: 370239

The post digestion spike for sample 70320196001 (PDS 1933548) did not meet acceptance criteria for Silver, Manganese and Sodium.

- QC Batch: 369978

The post digestion spike for sample 70320492002 (PDS 1935555) did not meet acceptance criteria for Silver and Sodium.

- QC Batch: 370239

The serial dilution for sample 70320196001 (SD 1933549) did not meet acceptance criteria for Aluminum, Arsenic, Barium, Copper, Potassium, Nickel, Lead, Selenium and Zinc.

- QC Batch: 369978

The serial dilution for sample 70320492002 (SD 1935556) did not meet acceptance criteria for Aluminum, Arsenic, Boron, Barium, Barium, Calcium, Iron, Potassium, Magnesium, Manganese, Sodium, Nickel, Lead, Strontium and Zinc.

- QC Batch: 370239

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Method: EPA 200.7

Description: 200.7 Metals, Dissolved

Client: Town of Oyster Bay

Date: November 25, 2024

General Information:

2 samples were analyzed for EPA 200.7 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Method: SM22 2340B

Description: 2340B Hardness, Total (Calc.)

Client: Town of Oyster Bay

Date: November 25, 2024

General Information:

2 samples were analyzed for SM22 2340B by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Method: EPA 245.1

Description: 245.1 Mercury

Client: Town of Oyster Bay

Date: November 25, 2024

General Information:

2 samples were analyzed for EPA 245.1 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Method: EPA 245.1

Description: 245.1 Mercury, Dissolved

Client: Town of Oyster Bay

Date: November 25, 2024

General Information:

2 samples were analyzed for EPA 245.1 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5
Pace Project No.: 70320463

Method: EPA 8260C/5030C
Description: 8260C Volatile Organics
Client: Town of Oyster Bay
Date: November 25, 2024

General Information:

3 samples were analyzed for EPA 8260C/5030C by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 370378

v1: The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- DUP (Lab ID: 1937001)
 - Tetrachloroethene
- LCS (Lab ID: 1936278)
 - Bromoform
 - Tetrachloroethene
- MS (Lab ID: 1937002)
 - Bromoform
 - Tetrachloroethene

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Method: EPA 8260C/5030C

Description: 8260C Volatile Organics

Client: Town of Oyster Bay

Date: November 25, 2024

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Method: SM22 2320B

Description: 2320B Alkalinity

Client: Town of Oyster Bay

Date: November 25, 2024

General Information:

2 samples were analyzed for SM22 2320B by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 371009

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 1940121)
- Alkalinity, Carbonate (CaCO₃)

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 371009

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70319475018

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1940123)
- Alkalinity, Carbonate (CaCO₃)

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Method: SM22 2540C

Description: 2540C Total Dissolved Solids

Client: Town of Oyster Bay

Date: November 25, 2024

General Information:

2 samples were analyzed for SM22 2540C by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5
Pace Project No.: 70320463

Method: SM22 3500-Cr B
Description: Chromium, Hexavalent
Client: Town of Oyster Bay
Date: November 25, 2024

General Information:

4 samples were analyzed for SM22 3500-Cr B by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Town of Oyster Bay

Date: November 25, 2024

General Information:

2 samples were analyzed for EPA 300.0 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Method: EPA 351.2

Description: 351.2 Total Kjeldahl Nitrogen

Client: Town of Oyster Bay

Date: November 25, 2024

General Information:

2 samples were analyzed for EPA 351.2 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂/NO₃ pres.

Client: Town of Oyster Bay

Date: November 25, 2024

General Information:

2 samples were analyzed for EPA 353.2 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Method: EPA 353.2

Description: 353.2 Nitrogen, NO2

Client: Town of Oyster Bay

Date: November 25, 2024

General Information:

2 samples were analyzed for EPA 353.2 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Method: SM22 4500-CN-E

Description: SM 4500 CNE Cyanide, Total

Client: Town of Oyster Bay

Date: November 25, 2024

General Information:

2 samples were analyzed for SM22 4500-CN-E by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with SM20/22 4500-CN-C with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 370203

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1934916)
- Cyanide

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Method: SM22 4500-CI-E

Description: 4500 Chloride

Client: Town of Oyster Bay

Date: November 25, 2024

General Information:

2 samples were analyzed for SM22 4500-CI-E by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 11/5
Pace Project No.: 70320463

Method: SM22 4500 NH3 H
Description: 4500 Ammonia Water
Client: Town of Oyster Bay
Date: November 25, 2024

General Information:

2 samples were analyzed for SM22 4500 NH3 H by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Sample: TRIP BLANK_11/5/24	Lab ID: 70320463001	Collected: 11/05/24 00:00	Received: 11/06/24 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		11/12/24 13:16	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/12/24 13:16	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/12/24 13:16	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/12/24 13:16	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/12/24 13:16	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/12/24 13:16	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/12/24 13:16	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/12/24 13:16	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/12/24 13:16	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/12/24 13:16	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/12/24 13:16	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/12/24 13:16	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		11/12/24 13:16	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/12/24 13:16	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/12/24 13:16	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/12/24 13:16	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/12/24 13:16	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/12/24 13:16	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/12/24 13:16	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/12/24 13:16	78-87-5	
Ethylbenzene	<1.0	ug/L	1.0	1		11/12/24 13:16	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/12/24 13:16	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		11/12/24 13:16	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		11/12/24 13:16	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/12/24 13:16	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/12/24 13:16	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		11/12/24 13:16	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/12/24 13:16	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		11/12/24 13:16	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		11/12/24 13:16	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		11/12/24 13:16	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	80-120	1		11/12/24 13:16	17060-07-0	
4-Bromofluorobenzene (S)	96	%	80-120	1		11/12/24 13:16	460-00-4	
Toluene-d8 (S)	109	%	80-120	1		11/12/24 13:16	2037-26-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Sample: MW-06F_11/5/24	Lab ID: 70320463002	Collected: 11/05/24 18:15	Received: 11/06/24 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum	266	ug/L	200	1	11/08/24 07:10	11/11/24 13:42	7429-90-5	
Barium	317	ug/L	200	1	11/08/24 07:10	11/11/24 13:42	7440-39-3	
Calcium	54400	ug/L	200	1	11/08/24 07:10	11/11/24 13:42	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	11/08/24 07:10	11/11/24 13:42	7440-47-3	
Copper	<25.0	ug/L	25.0	1	11/08/24 07:10	11/11/24 13:42	7440-50-8	
Iron	<100	ug/L	100	1	11/08/24 07:10	11/11/24 13:42	7439-89-6	
Lead	2.2J	ug/L	5.0	1	11/08/24 07:10	11/11/24 13:42	7439-92-1	
Magnesium	20400	ug/L	200	1	11/08/24 07:10	11/11/24 13:42	7439-95-4	
Manganese	171	ug/L	10.0	1	11/08/24 07:10	11/11/24 13:42	7439-96-5	
Nickel	40.6	ug/L	40.0	1	11/08/24 07:10	11/11/24 13:42	7440-02-0	
Potassium	12400	ug/L	5000	1	11/08/24 07:10	11/11/24 13:42	7440-09-7	
Sodium	218000	ug/L	5000	1	11/08/24 07:10	11/11/24 13:42	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B)	220000	ug/L	830	1	11/08/24 07:10	11/11/24 13:42		
Zinc	32.3	ug/L	20.0	1	11/08/24 07:10	11/11/24 13:42	7440-66-6	
2340B Hardness, Total (Calc.)		Analytical Method: SM22 2340B Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	220000	ug/L	830	1		11/11/24 13:42		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury	0.39	ug/L	0.20	1	11/12/24 07:17	11/12/24 14:47	7439-97-6	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		11/12/24 14:35	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/12/24 14:35	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/12/24 14:35	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/12/24 14:35	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/12/24 14:35	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/12/24 14:35	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/12/24 14:35	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/12/24 14:35	75-00-3	
Chloroform	1.0	ug/L	1.0	1		11/12/24 14:35	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/12/24 14:35	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/12/24 14:35	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/12/24 14:35	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		11/12/24 14:35	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/12/24 14:35	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/12/24 14:35	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/12/24 14:35	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/12/24 14:35	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/12/24 14:35	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/12/24 14:35	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/12/24 14:35	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Sample: MW-06F_11/5/24	Lab ID: 70320463002	Collected: 11/05/24 18:15	Received: 11/06/24 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Ethylbenzene	<1.0	ug/L	1.0	1		11/12/24 14:35	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/12/24 14:35	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		11/12/24 14:35	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		11/12/24 14:35	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/12/24 14:35	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/12/24 14:35	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		11/12/24 14:35	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/12/24 14:35	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		11/12/24 14:35	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		11/12/24 14:35	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		11/12/24 14:35	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		11/12/24 14:35	17060-07-0	
4-Bromofluorobenzene (S)	88	%	80-120	1		11/12/24 14:35	460-00-4	
Toluene-d8 (S)	108	%	80-120	1		11/12/24 14:35	2037-26-5	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	<1.0	mg/L	1.0	1		11/15/24 13:14		
Alkalinity,Bicarbonate (CaCO3)	<1.0	mg/L	1.0	1		11/15/24 13:14		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		11/15/24 13:14		L2
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	894	mg/L	50.0	1		11/08/24 14:28		
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		11/06/24 12:42	18540-29-9	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Sulfate	<5.0	mg/L	5.0	1		11/18/24 10:40	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	<0.10	mg/L	0.10	1	11/08/24 03:31	11/08/24 22:36	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	3.7	mg/L	0.25	5		11/15/24 16:47	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<0.050	mg/L	0.050	1		11/07/24 02:22	14797-65-0	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Sample: MW-06F_11/5/24		Lab ID: 70320463002		Collected: 11/05/24 18:15	Received: 11/06/24 08:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville						
Cyanide	<10.0	ug/L	10.0	1	11/11/24 14:15	11/11/24 15:55	57-12-5	
4500 Chloride		Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville						
Chloride	403	mg/L	20.0	10		11/10/24 15:23	16887-00-6	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	0.40	mg/L	0.10	1		11/07/24 12:24	7664-41-7	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Sample: MW-06F_DISS_11/5/24 Lab ID: 70320463003 Collected: 11/05/24 18:15 Received: 11/06/24 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved		Analytical Method: EPA 200.7 Pace Analytical Services - Melville						
Aluminum, Dissolved	240	ug/L	200	1		11/07/24 12:03	7429-90-5	
Barium, Dissolved	301	ug/L	200	1		11/07/24 12:03	7440-39-3	
Calcium, Dissolved	50900	ug/L	1000	1		11/07/24 12:03	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		11/07/24 12:03	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		11/07/24 12:03	7440-50-8	
Iron, Dissolved	<100	ug/L	100	1		11/07/24 12:03	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		11/07/24 12:03	7439-92-1	
Magnesium, Dissolved	19700	ug/L	1000	1		11/07/24 12:03	7439-95-4	
Manganese, Dissolved	164	ug/L	10.0	1		11/07/24 12:03	7439-96-5	
Nickel, Dissolved	38.7J	ug/L	40.0	1		11/07/24 12:03	7440-02-0	
Potassium, Dissolved	12100	ug/L	5000	1		11/07/24 12:03	7440-09-7	
Sodium, Dissolved	219000	ug/L	5000	1		11/07/24 12:03	7440-23-5	
Zinc, Dissolved	31.2	ug/L	20.0	1		11/07/24 12:03	7440-66-6	
245.1 Mercury, Dissolved		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville						
Mercury, Dissolved	0.35	ug/L	0.20	1	11/14/24 07:12	11/14/24 13:35	7439-97-6	
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		11/06/24 12:43	18540-29-9	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Sample: MW-06E_11/5/24	Lab ID: 70320463004	Collected: 11/05/24 13:25	Received: 11/06/24 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Aluminum	<200	ug/L	200	1	11/11/24 09:20	11/11/24 16:01	7429-90-5	
Barium	103J	ug/L	200	1	11/11/24 09:20	11/11/24 16:01	7440-39-3	
Calcium	18300	ug/L	200	1	11/11/24 09:20	11/11/24 16:01	7440-70-2	
Chromium	<10.0	ug/L	10.0	1	11/11/24 09:20	11/11/24 16:01	7440-47-3	
Copper	<25.0	ug/L	25.0	1	11/11/24 09:20	11/11/24 16:01	7440-50-8	
Iron	24300	ug/L	100	1	11/11/24 09:20	11/11/24 16:01	7439-89-6	
Lead	<5.0	ug/L	5.0	1	11/11/24 09:20	11/11/24 16:01	7439-92-1	
Magnesium	13000	ug/L	200	1	11/11/24 09:20	11/11/24 16:01	7439-95-4	
Manganese	189	ug/L	10.0	1	11/11/24 09:20	11/11/24 16:01	7439-96-5	
Nickel	11.0J	ug/L	40.0	1	11/11/24 09:20	11/11/24 16:01	7440-02-0	
Potassium	19700	ug/L	5000	1	11/11/24 09:20	11/11/24 16:01	7440-09-7	
Sodium	141000	ug/L	5000	1	11/11/24 09:20	11/11/24 16:01	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B)	99200	ug/L	830	1	11/11/24 09:20	11/11/24 16:01		
Zinc	8.7J	ug/L	20.0	1	11/11/24 09:20	11/11/24 16:01	7440-66-6	
2340B Hardness, Total (Calc.)								
Analytical Method: SM22 2340B								
Pace Analytical Services - Melville								
Tot Hardness asCaCO3 (SM 2340B)	99200	ug/L	830	1		11/11/24 16:01		
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Melville								
Mercury	<0.20	ug/L	0.20	1	11/12/24 07:17	11/12/24 14:51	7439-97-6	
8260C Volatile Organics								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
Benzene	<1.0	ug/L	1.0	1		11/12/24 14:55	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/12/24 14:55	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/12/24 14:55	75-25-2	
n-Butylbenzene	<1.0	ug/L	1.0	1		11/12/24 14:55	104-51-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		11/12/24 14:55	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/12/24 14:55	56-23-5	
Chlorobenzene	1.4	ug/L	1.0	1		11/12/24 14:55	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/12/24 14:55	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/12/24 14:55	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/12/24 14:55	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		11/12/24 14:55	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		11/12/24 14:55	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		11/12/24 14:55	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		11/12/24 14:55	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/12/24 14:55	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/12/24 14:55	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/12/24 14:55	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/12/24 14:55	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		11/12/24 14:55	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/12/24 14:55	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Sample: MW-06E_11/5/24	Lab ID: 70320463004	Collected: 11/05/24 13:25	Received: 11/06/24 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Ethylbenzene	<1.0	ug/L	1.0	1		11/12/24 14:55	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		11/12/24 14:55	98-82-8	
Methylene Chloride	<1.0	ug/L	1.0	1		11/12/24 14:55	75-09-2	
Tetrachloroethene	<1.0	ug/L	1.0	1		11/12/24 14:55	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/12/24 14:55	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/12/24 14:55	71-55-6	
Trichloroethene	<1.0	ug/L	1.0	1		11/12/24 14:55	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/12/24 14:55	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		11/12/24 14:55	1330-20-7	
m&p-Xylene	<2.0	ug/L	2.0	1		11/12/24 14:55	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		11/12/24 14:55	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		11/12/24 14:55	17060-07-0	
4-Bromofluorobenzene (S)	96	%	80-120	1		11/12/24 14:55	460-00-4	
Toluene-d8 (S)	99	%	80-120	1		11/12/24 14:55	2037-26-5	
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	128	mg/L	1.0	1		11/15/24 13:24		
Alkalinity,Bicarbonate (CaCO3)	128	mg/L	1.0	1		11/15/24 13:24		
Alkalinity,Carbonate (CaCO3)	<1.0	mg/L	1.0	1		11/15/24 13:24		L2
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	556	mg/L	50.0	1		11/08/24 14:29		
Chromium, Hexavalent		Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		11/06/24 12:38	18540-29-9	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Sulfate	79.7	mg/L	5.0	1		11/18/24 10:57	14808-79-8	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	9.9	mg/L	0.50	5	11/08/24 03:31	11/08/24 22:52	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate-Nitrite (as N)	0.25	mg/L	0.050	1		11/15/24 16:32	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	0.036J	mg/L	0.050	1		11/07/24 02:21	14797-65-0	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Sample: MW-06E_11/5/24		Lab ID: 70320463004		Collected: 11/05/24 13:25	Received: 11/06/24 08:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM 4500 CNE Cyanide, Total		Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville						
Cyanide	17.8	ug/L	10.0	1	11/11/24 14:15	11/11/24 15:57	57-12-5	
4500 Chloride		Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville						
Chloride	165	mg/L	10.0	5		11/10/24 15:24	16887-00-6	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	10.7	mg/L	0.50	5		11/07/24 12:26	7664-41-7	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Sample: MW-06E_DISS_11/5/24 Lab ID: 70320463005 Collected: 11/05/24 13:25 Received: 11/06/24 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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200.7 Metals, Dissolved

Analytical Method: EPA 200.7
Pace Analytical Services - Melville

Aluminum, Dissolved	<200	ug/L	200	1		11/07/24 12:05	7429-90-5	
Barium, Dissolved	103J	ug/L	200	1		11/07/24 12:05	7440-39-3	
Calcium, Dissolved	17900	ug/L	1000	1		11/07/24 12:05	7440-70-2	
Chromium, Dissolved	<10.0	ug/L	10.0	1		11/07/24 12:05	7440-47-3	
Copper, Dissolved	<25.0	ug/L	25.0	1		11/07/24 12:05	7440-50-8	
Iron, Dissolved	24200	ug/L	100	1		11/07/24 12:05	7439-89-6	
Lead, Dissolved	<5.0	ug/L	5.0	1		11/07/24 12:05	7439-92-1	
Magnesium, Dissolved	13100	ug/L	1000	1		11/07/24 12:05	7439-95-4	
Manganese, Dissolved	191	ug/L	10.0	1		11/07/24 12:05	7439-96-5	
Nickel, Dissolved	11.2J	ug/L	40.0	1		11/07/24 12:05	7440-02-0	
Potassium, Dissolved	20400	ug/L	5000	1		11/07/24 12:05	7440-09-7	
Sodium, Dissolved	149000	ug/L	5000	1		11/07/24 12:05	7440-23-5	
Zinc, Dissolved	8.6J	ug/L	20.0	1		11/07/24 12:05	7440-66-6	

245.1 Mercury, Dissolved

Analytical Method: EPA 245.1 Preparation Method: EPA 245.1
Pace Analytical Services - Melville

Mercury, Dissolved	<0.20	ug/L	0.20	1	11/14/24 07:12	11/14/24 13:36	7439-97-6	
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Chromium, Hexavalent

Analytical Method: SM22 3500-Cr B
Pace Analytical Services - Melville

Chromium, Hexavalent	<0.020	mg/L	0.020	1		11/06/24 12:41	18540-29-9	
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

QC Batch: 369800

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70320463003, 70320463005

METHOD BLANK: 1932710

Matrix: Water

Associated Lab Samples: 70320463003, 70320463005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	11/07/24 11:59	
Barium, Dissolved	ug/L	<200	200	11/07/24 11:59	
Calcium, Dissolved	ug/L	<1000	1000	11/07/24 11:59	
Chromium, Dissolved	ug/L	<10.0	10.0	11/07/24 11:59	
Copper, Dissolved	ug/L	<25.0	25.0	11/07/24 11:59	
Iron, Dissolved	ug/L	<100	100	11/07/24 11:59	
Lead, Dissolved	ug/L	<5.0	5.0	11/07/24 11:59	
Magnesium, Dissolved	ug/L	<1000	1000	11/07/24 11:59	
Manganese, Dissolved	ug/L	<10.0	10.0	11/07/24 11:59	
Nickel, Dissolved	ug/L	<40.0	40.0	11/07/24 11:59	
Potassium, Dissolved	ug/L	<5000	5000	11/07/24 11:59	
Sodium, Dissolved	ug/L	<5000	5000	11/07/24 11:59	
Zinc, Dissolved	ug/L	<20.0	20.0	11/07/24 11:59	

LABORATORY CONTROL SAMPLE & LCSD: 1932711

1932712

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	25000	24500	24400	98	98	85-115	0	20	
Barium, Dissolved	ug/L	500	487	485	97	97	85-115	0	20	
Calcium, Dissolved	ug/L	25000	25000	24900	100	100	85-115	0	20	
Chromium, Dissolved	ug/L	500	486	484	97	97	85-115	0	20	
Copper, Dissolved	ug/L	500	487	487	97	97	85-115	0	20	
Iron, Dissolved	ug/L	12500	12500	12400	100	99	85-115	1	20	
Lead, Dissolved	ug/L	500	493	493	99	99	85-115	0	20	
Magnesium, Dissolved	ug/L	25000	24600	24600	98	98	85-115	0	20	
Manganese, Dissolved	ug/L	500	488	487	98	97	85-115	0	20	
Nickel, Dissolved	ug/L	500	495	493	99	99	85-115	0	20	
Potassium, Dissolved	ug/L	25000	24700	24600	99	98	85-115	0	20	
Sodium, Dissolved	ug/L	25000	25000	24900	100	100	85-115	0	20	
Zinc, Dissolved	ug/L	500	493	491	99	98	85-115	0	20	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

QC Batch:	370320	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70320463002, 70320463004

METHOD BLANK: 1936068 Matrix: Water

Associated Lab Samples: 70320463002, 70320463004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	11/12/24 14:32	

LABORATORY CONTROL SAMPLE: 1936069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.90	90	85-115	

MATRIX SPIKE SAMPLE: 1936070

Parameter	Units	70320463002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.39	1	1.6	124	70-130	

MATRIX SPIKE SAMPLE: 1936072

Parameter	Units	70320892002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.2	110	70-130	

SAMPLE DUPLICATE: 1936071

Parameter	Units	70320463002 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	0.39	0.36	8	

SAMPLE DUPLICATE: 1936073

Parameter	Units	70320892002 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

QC Batch: 370754

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70320463003, 70320463005

METHOD BLANK: 1938696

Matrix: Water

Associated Lab Samples: 70320463003, 70320463005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.20	0.20	11/14/24 13:09	

LABORATORY CONTROL SAMPLE: 1938697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	1	0.97	97	85-115	

MATRIX SPIKE SAMPLE: 1938698

Parameter	Units	70319475003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	<0.20	1	0.93	89	70-130	

MATRIX SPIKE SAMPLE: 1938700

Parameter	Units	70320463005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	<0.20	1	0.99	93	70-130	

SAMPLE DUPLICATE: 1938699

Parameter	Units	70319475003 Result	Dup Result	RPD	Qualifiers
Mercury, Dissolved	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1938701

Parameter	Units	70320463005 Result	Dup Result	RPD	Qualifiers
Mercury, Dissolved	ug/L	<0.20	<0.20		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

QC Batch: 369949

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70320463002

METHOD BLANK: 1933440

Matrix: Water

Associated Lab Samples: 70320463002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	11/11/24 13:10	
Barium	ug/L	<200	200	11/11/24 13:10	
Calcium	ug/L	<200	200	11/11/24 13:10	
Chromium	ug/L	<10.0	10.0	11/11/24 13:10	
Copper	ug/L	<25.0	25.0	11/11/24 13:10	
Iron	ug/L	<100	100	11/11/24 13:10	
Lead	ug/L	<5.0	5.0	11/11/24 13:10	
Magnesium	ug/L	<200	200	11/11/24 13:10	
Manganese	ug/L	<10.0	10.0	11/11/24 13:10	
Nickel	ug/L	<40.0	40.0	11/11/24 13:10	
Potassium	ug/L	<5000	5000	11/11/24 13:10	
Sodium	ug/L	<5000	5000	11/11/24 13:10	
Tot Hardness asCaCO3 (SM 2340B)	ug/L	<830	830	11/11/24 13:10	
Zinc	ug/L	<20.0	20.0	11/11/24 13:10	

LABORATORY CONTROL SAMPLE: 1933441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	23900	96	85-115	
Barium	ug/L	500	499	100	85-115	
Calcium	ug/L	25000	26000	104	85-115	
Chromium	ug/L	500	494	99	85-115	
Copper	ug/L	500	493	99	85-115	
Iron	ug/L	12500	12900	103	85-115	
Lead	ug/L	500	504	101	85-115	
Magnesium	ug/L	25000	24900	100	85-115	
Manganese	ug/L	500	499	100	85-115	
Nickel	ug/L	500	502	100	85-115	
Potassium	ug/L	25000	24500	98	85-115	
Sodium	ug/L	25000	24600	98	85-115	
Tot Hardness asCaCO3 (SM 2340B)	ug/L		167000			
Zinc	ug/L	500	495	99	85-115	

MATRIX SPIKE SAMPLE: 1933443

Parameter	Units	70320239001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	256	12500	12900	101	70-130	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

MATRIX SPIKE SAMPLE: 1933443		70320239001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Barium	ug/L	<200	500	582	107	70-130	
Calcium	ug/L	21500	12500	34400	103	70-130	
Chromium	ug/L	<10.0	500	545	108	70-130	
Copper	ug/L	90.6	500	611	104	70-130	
Iron	ug/L	3540	5000	8730	104	70-130	
Lead	ug/L	25.3	500	567	108	70-130	
Magnesium	ug/L	2680	12500	15300	101	70-130	
Manganese	ug/L	81.5	500	615	107	70-130	
Nickel	ug/L	<40.0	500	532	105	70-130	
Potassium	ug/L	<5000	12500	16800	99	70-130	
Sodium	ug/L	14400	12500	26800	99	70-130	
Tot Hardness asCaCO3 (SM 2340B	ug/L	64700		149000			
Zinc	ug/L	437	500	942	101	70-130	

MATRIX SPIKE SAMPLE: 1933445		70320196001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Aluminum	ug/L	<200	12500	12900	102	70-130	
Barium	ug/L	<200	500	535	107	70-130	
Calcium	ug/L	5100	12500	18800	110	70-130	
Chromium	ug/L	<10.0	500	533	107	70-130	
Copper	ug/L	29.8	500	564	107	70-130	
Iron	ug/L	274	5000	5680	108	70-130	
Lead	ug/L	<5.0	500	549	109	70-130	
Magnesium	ug/L	2240	12500	14900	101	70-130	
Manganese	ug/L	26900	500	28800	380	70-130 M1	
Nickel	ug/L	<40.0	500	528	105	70-130	
Potassium	ug/L	<5000	12500	14800	100	70-130	
Sodium	ug/L	96100	12500	108000	95	70-130	
Tot Hardness asCaCO3 (SM 2340B	ug/L	22000		108000			
Zinc	ug/L	36.1	500	580	109	70-130	

SAMPLE DUPLICATE: 1933442		70320239001	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
Aluminum	ug/L	256	264	3	
Barium	ug/L	<200	49.3J		
Calcium	ug/L	21500	21100	2	
Chromium	ug/L	<10.0	4.2J		
Copper	ug/L	90.6	92.4	2	
Iron	ug/L	3540	3530	0	
Lead	ug/L	25.3	24.3	4	
Magnesium	ug/L	2680	2620	2	
Manganese	ug/L	81.5	80.6	1	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

SAMPLE DUPLICATE: 1933442

Parameter	Units	70320239001 Result	Dup Result	RPD	Qualifiers
Nickel	ug/L	<40.0	9.6J		
Potassium	ug/L	<5000	4310J		
Sodium	ug/L	14400	14000	3	
Tot Hardness asCaCO3 (SM 2340B)	ug/L	64700	63500	2	
Zinc	ug/L	437	432	1	

SAMPLE DUPLICATE: 1933444

Parameter	Units	70320196001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	158J		
Barium	ug/L	<200	<200		
Calcium	ug/L	5100	5220	2	
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	29.8	29.7	0	
Iron	ug/L	274	288	5	
Lead	ug/L	<5.0	4.1J		
Magnesium	ug/L	2240	2240	0	
Manganese	ug/L	26900	28400	5	
Nickel	ug/L	<40.0	<40.0		
Potassium	ug/L	<5000	1430J		
Sodium	ug/L	96100	95600	1	
Tot Hardness asCaCO3 (SM 2340B)	ug/L	22000	22300	1	
Zinc	ug/L	36.1	37.1	3	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

QC Batch: 370194

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70320463004

METHOD BLANK: 1934852

Matrix: Water

Associated Lab Samples: 70320463004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	11/11/24 15:36	
Barium	ug/L	<200	200	11/11/24 15:36	
Calcium	ug/L	<200	200	11/11/24 15:36	
Chromium	ug/L	<10.0	10.0	11/11/24 15:36	
Copper	ug/L	<25.0	25.0	11/11/24 15:36	
Iron	ug/L	<100	100	11/11/24 15:36	
Lead	ug/L	<5.0	5.0	11/11/24 15:36	
Magnesium	ug/L	<200	200	11/11/24 15:36	
Manganese	ug/L	<10.0	10.0	11/11/24 15:36	
Nickel	ug/L	<40.0	40.0	11/11/24 15:36	
Potassium	ug/L	<5000	5000	11/11/24 15:36	
Sodium	ug/L	<5000	5000	11/11/24 15:36	
Tot Hardness asCaCO3 (SM 2340B)	ug/L	<830	830	11/11/24 15:36	
Zinc	ug/L	<20.0	20.0	11/11/24 15:36	

LABORATORY CONTROL SAMPLE: 1934853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	23800	95	85-115	
Barium	ug/L	500	501	100	85-115	
Calcium	ug/L	25000	26200	105	85-115	
Chromium	ug/L	500	494	99	85-115	
Copper	ug/L	500	492	98	85-115	
Iron	ug/L	12500	12900	103	85-115	
Lead	ug/L	500	507	101	85-115	
Magnesium	ug/L	25000	25000	100	85-115	
Manganese	ug/L	500	500	100	85-115	
Nickel	ug/L	500	506	101	85-115	
Potassium	ug/L	25000	24400	98	85-115	
Sodium	ug/L	25000	24800	99	85-115	
Tot Hardness asCaCO3 (SM 2340B)	ug/L		168000			
Zinc	ug/L	500	494	99	85-115	

MATRIX SPIKE SAMPLE: 1934857

Parameter	Units	70320463004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	12500	12400	99	70-130	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

MATRIX SPIKE SAMPLE: 1934857		70320463004	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Barium	ug/L	103J	500	621	104	70-130	
Calcium	ug/L	18300	12500	31600	106	70-130	
Chromium	ug/L	<10.0	500	518	104	70-130	
Copper	ug/L	<25.0	500	517	103	70-130	
Iron	ug/L	24300	5000	29500	104	70-130	
Lead	ug/L	<5.0	500	526	105	70-130	
Magnesium	ug/L	13000	12500	25400	99	70-130	
Manganese	ug/L	189	500	706	103	70-130	
Nickel	ug/L	11.0J	500	515	101	70-130	
Potassium	ug/L	19700	12500	32900	106	70-130	
Sodium	ug/L	141000	12500	155000	112	70-130	
Tot Hardness asCaCO3 (SM 2340B	ug/L	99200		184000			
Zinc	ug/L	8.7J	500	527	104	70-130	

MATRIX SPIKE SAMPLE: 1935548		70320492002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Aluminum	ug/L	<200	12500	12600	101	70-130	
Barium	ug/L	<200	500	527	104	70-130	
Calcium	ug/L	43600	12500	56300	102	70-130	
Chromium	ug/L	<10.0	500	523	105	70-130	
Copper	ug/L	<25.0	500	522	104	70-130	
Iron	ug/L	<100	5000	5300	105	70-130	
Lead	ug/L	<5.0	500	526	105	70-130	
Magnesium	ug/L	25600	12500	37800	98	70-130	
Manganese	ug/L	168	500	685	103	70-130	
Nickel	ug/L	<40.0	500	514	100	70-130	
Potassium	ug/L	15800	12500	29200	107	70-130	
Sodium	ug/L	183000	12500	193000	80	70-130	
Tot Hardness asCaCO3 (SM 2340B	ug/L	214000		296000			
Zinc	ug/L	<20.0	500	538	104	70-130	

SAMPLE DUPLICATE: 1934856		70320463004	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	103J	105J		
Calcium	ug/L	18300	18600	2	
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	24300	24800	2	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	13000	13300	2	
Manganese	ug/L	189	193	2	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

SAMPLE DUPLICATE: 1934856

Parameter	Units	70320463004 Result	Dup Result	RPD	Qualifiers
Nickel	ug/L	11.0J	11.3J		
Potassium	ug/L	19700	20000	2	
Sodium	ug/L	141000	143000	1	
Tot Hardness asCaCO3 (SM 2340B)	ug/L	99200	101000	2	
Zinc	ug/L	8.7J	9.0J		

SAMPLE DUPLICATE: 1935547

Parameter	Units	70320492002 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	<200	<200		
Calcium	ug/L	43600	43600	0	
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	<100	57.6J		
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	25600	25700	0	
Manganese	ug/L	168	169	1	
Nickel	ug/L	<40.0	14.2J		
Potassium	ug/L	15800	15900	1	
Sodium	ug/L	183000	184000	1	
Tot Hardness asCaCO3 (SM 2340B)	ug/L	214000	215000	0	
Zinc	ug/L	<20.0	19.4J		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

QC Batch: 370378 Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70320463001, 70320463002, 70320463004

METHOD BLANK: 1936277 Matrix: Water

Associated Lab Samples: 70320463001, 70320463002, 70320463004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	11/12/24 11:33	
1,1-Dichloroethane	ug/L	<1.0	1.0	11/12/24 11:33	
1,1-Dichloroethene	ug/L	<1.0	1.0	11/12/24 11:33	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	11/12/24 11:33	
1,2-Dichloroethane	ug/L	<1.0	1.0	11/12/24 11:33	
1,2-Dichloropropane	ug/L	<1.0	1.0	11/12/24 11:33	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	11/12/24 11:33	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	11/12/24 11:33	
Benzene	ug/L	<1.0	1.0	11/12/24 11:33	
Bromodichloromethane	ug/L	<1.0	1.0	11/12/24 11:33	
Bromoform	ug/L	<1.0	1.0	11/12/24 11:33	
Carbon tetrachloride	ug/L	<1.0	1.0	11/12/24 11:33	
Chlorobenzene	ug/L	<1.0	1.0	11/12/24 11:33	
Chloroethane	ug/L	<1.0	1.0	11/12/24 11:33	
Chloroform	ug/L	<1.0	1.0	11/12/24 11:33	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	11/12/24 11:33	
Dibromochloromethane	ug/L	<1.0	1.0	11/12/24 11:33	
Dichlorodifluoromethane	ug/L	<1.0	1.0	11/12/24 11:33	
Ethylbenzene	ug/L	<1.0	1.0	11/12/24 11:33	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	11/12/24 11:33	
m&p-Xylene	ug/L	<2.0	2.0	11/12/24 11:33	
Methylene Chloride	ug/L	<1.0	1.0	11/12/24 11:33	
n-Butylbenzene	ug/L	<1.0	1.0	11/12/24 11:33	
o-Xylene	ug/L	<1.0	1.0	11/12/24 11:33	
tert-Butylbenzene	ug/L	<1.0	1.0	11/12/24 11:33	
Tetrachloroethene	ug/L	<1.0	1.0	11/12/24 11:33	
Toluene	ug/L	<1.0	1.0	11/12/24 11:33	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	11/12/24 11:33	
Trichloroethene	ug/L	<1.0	1.0	11/12/24 11:33	
Vinyl chloride	ug/L	<1.0	1.0	11/12/24 11:33	
Xylene (Total)	ug/L	<3.0	3.0	11/12/24 11:33	
1,2-Dichloroethane-d4 (S)	%	103	80-120	11/12/24 11:33	
4-Bromofluorobenzene (S)	%	103	80-120	11/12/24 11:33	
Toluene-d8 (S)	%	109	80-120	11/12/24 11:33	

LABORATORY CONTROL SAMPLE: 1936278

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.0	100	72-122	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

LABORATORY CONTROL SAMPLE: 1936278

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	50	47.2	94	72-131	
1,1-Dichloroethene	ug/L	50	46.5	93	71-128	
1,2-Dichlorobenzene	ug/L	50	52.9	106	75-112	
1,2-Dichloroethane	ug/L	50	44.5	89	74-118	
1,2-Dichloropropane	ug/L	50	50.1	100	75-121	
1,3-Dichlorobenzene	ug/L	50	51.8	104	72-119	
1,4-Dichlorobenzene	ug/L	50	51.2	102	74-114	
Benzene	ug/L	50	51.0	102	74-121	
Bromodichloromethane	ug/L	50	50.5	101	76-121	
Bromoform	ug/L	50	53.4	107	60-135 v1	
Carbon tetrachloride	ug/L	50	52.6	105	69-129	
Chlorobenzene	ug/L	50	55.6	111	82-113	
Chloroethane	ug/L	50	43.8	88	59-140	
Chloroform	ug/L	50	47.2	94	78-126	
cis-1,2-Dichloroethene	ug/L	50	47.9	96	78-128	
Dibromochloromethane	ug/L	50	57.2	114	70-125	
Dichlorodifluoromethane	ug/L	50	28.6	57	22-145	
Ethylbenzene	ug/L	50	53.6	107	79-113	
Isopropylbenzene (Cumene)	ug/L	50	51.2	102	73-117	
m&p-Xylene	ug/L	100	108	108	81-113	
Methylene Chloride	ug/L	50	44.2	88	70-127	
n-Butylbenzene	ug/L	50	48.9	98	71-124	
o-Xylene	ug/L	50	52.0	104	79-112	
tert-Butylbenzene	ug/L	50	46.6	93	69-120	
Tetrachloroethene	ug/L	50	60.6	121	76-123 v1	
Toluene	ug/L	50	51.7	103	82-118	
trans-1,2-Dichloroethene	ug/L	50	41.8	84	73-130	
Trichloroethene	ug/L	50	51.6	103	82-123	
Vinyl chloride	ug/L	50	38.6	77	51-144	
Xylene (Total)	ug/L	150	160	107	81-112	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			109	80-120	

MATRIX SPIKE SAMPLE: 1937002

Parameter	Units	70320535002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	54.8	110	69-137	
1,1-Dichloroethane	ug/L	2.5	50	52.7	100	74-136	
1,1-Dichloroethene	ug/L	ND	50	51.6	103	74-138	
1,2-Dichlorobenzene	ug/L	ND	50	51.7	103	75-119	
1,2-Dichloroethane	ug/L	ND	50	47.3	95	74-121	
1,2-Dichloropropane	ug/L	ND	50	53.8	108	75-127	
1,3-Dichlorobenzene	ug/L	ND	50	52.2	104	70-123	
1,4-Dichlorobenzene	ug/L	ND	50	52.8	106	74-120	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

MATRIX SPIKE SAMPLE: 1937002		70320535002	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
Benzene	ug/L	ND	50	53.6	107	70-133	
Bromodichloromethane	ug/L	ND	50	53.7	107	76-129	
Bromoform	ug/L	ND	50	55.8	112	51-140 v1	
Carbon tetrachloride	ug/L	ND	50	55.6	111	59-146	
Chlorobenzene	ug/L	ND	50	57.8	116	77-124	
Chloroethane	ug/L	ND	50	52.0	104	56-158	
Chloroform	ug/L	ND	50	51.7	103	80-133	
cis-1,2-Dichloroethene	ug/L	4.4	50	56.7	105	78-135	
Dibromochloromethane	ug/L	ND	50	53.4	107	65-132	
Dichlorodifluoromethane	ug/L	ND	50	29.0	58	13-157	
Ethylbenzene	ug/L	ND	50	57.2	114	71-126	
Isopropylbenzene (Cumene)	ug/L	ND	50	51.2	102	76-126	
m&p-Xylene	ug/L	ND	100	117	117	78-120	
Methylene Chloride	ug/L	1.9	50	53.3	103	73-132	
n-Butylbenzene	ug/L	ND	50	51.9	104	70-137	
o-Xylene	ug/L	ND	50	58.0	116	74-121	
tert-Butylbenzene	ug/L	ND	50	52.0	104	72-128	
Tetrachloroethene	ug/L	ND	50	56.4	113	72-131 v1	
Toluene	ug/L	ND	50	52.2	104	72-135	
trans-1,2-Dichloroethene	ug/L	ND	50	51.1	102	77-138	
Trichloroethene	ug/L	ND	50	54.5	109	79-137	
Vinyl chloride	ug/L	ND	50	43.1	86	48-158	
Xylene (Total)	ug/L	ND	150	175	117	77-120	
1,2-Dichloroethane-d4 (S)	%				100	80-120	
4-Bromofluorobenzene (S)	%				103	80-120	
Toluene-d8 (S)	%				99	80-120	

SAMPLE DUPLICATE: 1937001

Parameter	Units	70320535001	Dup	RPD	Qualifiers
		Result	Result		
1,1,1-Trichloroethane	ug/L	ND	<1.0		
1,1-Dichloroethane	ug/L	1.8	1.6	8	
1,1-Dichloroethene	ug/L	ND	<1.0		
1,2-Dichlorobenzene	ug/L	ND	<1.0		
1,2-Dichloroethane	ug/L	ND	<1.0		
1,2-Dichloropropane	ug/L	ND	<1.0		
1,3-Dichlorobenzene	ug/L	ND	<1.0		
1,4-Dichlorobenzene	ug/L	1.2	1.2	2	
Benzene	ug/L	ND	<1.0		
Bromodichloromethane	ug/L	ND	<1.0		
Bromoform	ug/L	ND	<1.0		
Carbon tetrachloride	ug/L	ND	<1.0		
Chlorobenzene	ug/L	ND	<1.0		
Chloroethane	ug/L	ND	<1.0		
Chloroform	ug/L	ND	<1.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

SAMPLE DUPLICATE: 1937001

Parameter	Units	70320535001 Result	Dup Result	RPD	Qualifiers
cis-1,2-Dichloroethene	ug/L	5.6	5.0	11	
Dibromochloromethane	ug/L	ND	<1.0		
Dichlorodifluoromethane	ug/L	ND	<1.0		
Ethylbenzene	ug/L	ND	<1.0		
Isopropylbenzene (Cumene)	ug/L	ND	<1.0		
m&p-Xylene	ug/L	ND	1.8J		
Methylene Chloride	ug/L	2.0	1.7	18	
n-Butylbenzene	ug/L	ND	<1.0		
o-Xylene	ug/L	ND	<1.0		
tert-Butylbenzene	ug/L	ND	<1.0		
Tetrachloroethene	ug/L	1.7	1.5	9 v1	
Toluene	ug/L	ND	<1.0		
trans-1,2-Dichloroethene	ug/L	ND	<1.0		
Trichloroethene	ug/L	2.5	2.7	7	
Vinyl chloride	ug/L	ND	<1.0		
Xylene (Total)	ug/L	ND	1.8J		
1,2-Dichloroethane-d4 (S)	%	98	95		
4-Bromofluorobenzene (S)	%	96	101		
Toluene-d8 (S)	%	109	107		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

QC Batch: 371009

Analysis Method: SM22 2320B

QC Batch Method: SM22 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70320463002, 70320463004

METHOD BLANK: 1940120

Matrix: Water

Associated Lab Samples: 70320463002, 70320463004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	11/15/24 09:42	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	11/15/24 09:42	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	11/15/24 09:42	

LABORATORY CONTROL SAMPLE: 1940121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	21.6	86	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		1.6			
Alkalinity,Carbonate (CaCO3)	mg/L	25	20.0	80	85-115 L2	

MATRIX SPIKE SAMPLE: 1940123

Parameter	Units	70319475018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	4.0	50	53.5	99	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	4.0		26.9			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	26.6	53	75-125 M0	

SAMPLE DUPLICATE: 1940122

Parameter	Units	70319475018 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	4.0	3.9	2	
Alkalinity,Bicarbonate (CaCO3)	mg/L	4.0	3.9	2	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

QC Batch: 370011	Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70320463002, 70320463004

METHOD BLANK: 1933795 Matrix: Water

Associated Lab Samples: 70320463002, 70320463004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	11/08/24 13:56	

LABORATORY CONTROL SAMPLE: 1933796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	496	99	85-115	

MATRIX SPIKE SAMPLE: 1933798

Parameter	Units	70320593001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	459	300	772	104	75-125	

MATRIX SPIKE SAMPLE: 1933800

Parameter	Units	70320643002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	27.0	300	334	102	75-125	

SAMPLE DUPLICATE: 1933797

Parameter	Units	70320593001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	459	476	4	

SAMPLE DUPLICATE: 1933799

Parameter	Units	70320643002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	27.0	29.0	7	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

QC Batch:	369536	Analysis Method:	SM22 3500-Cr B
QC Batch Method:	SM22 3500-Cr B	Analysis Description:	Chromium, Hexavalent by 3500
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70320463002, 70320463003, 70320463004, 70320463005

METHOD BLANK: 1931171 Matrix: Water
 Associated Lab Samples: 70320463002, 70320463003, 70320463004, 70320463005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	11/06/24 12:34	

LABORATORY CONTROL SAMPLE: 1931172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.19	96	85-115	

MATRIX SPIKE SAMPLE: 1931173

Parameter	Units	70320463004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.20	101	75-125	

SAMPLE DUPLICATE: 1931174

Parameter	Units	70320463004 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

QC Batch: 371228

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70320463002, 70320463004

METHOD BLANK: 1942019

Matrix: Water

Associated Lab Samples: 70320463002, 70320463004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<5.0	5.0	11/18/24 03:58	

LABORATORY CONTROL SAMPLE: 1942020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	9.9	99	90-110	

MATRIX SPIKE SAMPLE: 1942021

Parameter	Units	70320310001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	<5.0	10	10.4	100	90-110	

MATRIX SPIKE SAMPLE: 1942023

Parameter	Units	70320897001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	23.7	10	34.0	103	90-110	

SAMPLE DUPLICATE: 1942022

Parameter	Units	70320310001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	<5.0	<5.0		

SAMPLE DUPLICATE: 1942024

Parameter	Units	70320897001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	23.7	23.7	0	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

QC Batch: 369928

Analysis Method: EPA 351.2

QC Batch Method: EPA 351.2

Analysis Description: 351.2 TKN

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70320463002, 70320463004

METHOD BLANK: 1933403

Matrix: Water

Associated Lab Samples: 70320463002, 70320463004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.094	11/08/24 22:30	

LABORATORY CONTROL SAMPLE: 1933404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	4.2	105	90-110	

MATRIX SPIKE SAMPLE: 1933405

Parameter	Units	70320854003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	4	4.2	103	90-110	

SAMPLE DUPLICATE: 1933406

Parameter	Units	70320854003 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	<0.10		

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

QC Batch: 369682

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrite, Unpres.

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70320463002, 70320463004

METHOD BLANK: 1932248

Matrix: Water

Associated Lab Samples: 70320463002, 70320463004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	11/07/24 02:15	

LABORATORY CONTROL SAMPLE: 1932249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.1	108	90-110	

MATRIX SPIKE SAMPLE: 1932250

Parameter	Units	70320638003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.48	96	90-110	H3

MATRIX SPIKE SAMPLE: 1932252

Parameter	Units	70320642002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.22	0.5	0.70	95	90-110	

SAMPLE DUPLICATE: 1932251

Parameter	Units	70320638003 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		H3

SAMPLE DUPLICATE: 1932253

Parameter	Units	70320642002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	0.22	0.22	0	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

QC Batch: 371094

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70320463002, 70320463004

METHOD BLANK: 1940897

Matrix: Water

Associated Lab Samples: 70320463002, 70320463004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	11/15/24 16:06	

LABORATORY CONTROL SAMPLE: 1940898

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.1	109	90-110	

MATRIX SPIKE SAMPLE: 1940899

Parameter	Units	70321752001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1.2	0.5	1.8	106	90-110	

MATRIX SPIKE SAMPLE: 1940901

Parameter	Units	70321169001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.067	0.5	0.58	103	90-110	

SAMPLE DUPLICATE: 1940900

Parameter	Units	70321752001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1.2	1.2	1	

SAMPLE DUPLICATE: 1940902

Parameter	Units	70321169001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.067	0.079	16	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

QC Batch: 370203

Analysis Method: SM22 4500-CN-E

QC Batch Method: SM20/22 4500-CN-C

Analysis Description: 4500 CNE Cyanide, Total

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70320463002, 70320463004

METHOD BLANK: 1934913

Matrix: Water

Associated Lab Samples: 70320463002, 70320463004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	11/11/24 15:46	

LABORATORY CONTROL SAMPLE: 1934914

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	81.1	108	85-115	

MATRIX SPIKE SAMPLE: 1934915

Parameter	Units	70320512003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	59.0	100	147	88	75-125	

SAMPLE DUPLICATE: 1934916

Parameter	Units	70320512003 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	59.0	33.9	54	D6

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

QC Batch:	370157	Analysis Method:	SM22 4500-Cl-E
QC Batch Method:	SM22 4500-Cl-E	Analysis Description:	4500 Chloride
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70320463002, 70320463004

METHOD BLANK: 1934706 Matrix: Water

Associated Lab Samples: 70320463002, 70320463004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	11/10/24 14:38	

LABORATORY CONTROL SAMPLE: 1934707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	45.5	91	90-110	

MATRIX SPIKE SAMPLE: 1934708

Parameter	Units	70320854008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	111	125	221	88	80-120	

SAMPLE DUPLICATE: 1934709

Parameter	Units	70320854008 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	111	110	0	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

QC Batch:	369772	Analysis Method:	SM22 4500 NH3 H
QC Batch Method:	SM22 4500 NH3 H	Analysis Description:	4500 Ammonia
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70320463002, 70320463004

METHOD BLANK: 1932521 Matrix: Water

Associated Lab Samples: 70320463002, 70320463004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	11/07/24 12:05	

LABORATORY CONTROL SAMPLE: 1932522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	105	90-110	

MATRIX SPIKE SAMPLE: 1932523

Parameter	Units	70320617002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	4.8	10	17.0	123	75-125	

SAMPLE DUPLICATE: 1932524

Parameter	Units	70320617002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	4.8	4.8	0	

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QUALIFIERS

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 369978

- [1] The post digestion spike for sample 70320239001 (PDS 1933546) did not meet acceptance criteria for Silver.
- [2] The serial dilution for sample 70320239001 (SD 1933547) did not meet acceptance criteria for Aluminum, Arsenic, Potassium, Molybdenum, Sodium, Lead, Antimony and Selenium.
- [3] The post digestion spike for sample 70320196001 (PDS 1933548) did not meet acceptance criteria for Silver, Manganese and Sodium.
- [4] The serial dilution for sample 70320196001 (SD 1933549) did not meet acceptance criteria for Aluminum, Arsenic, Barium, Copper, Potassium, Nickel, Lead, Selenium and Zinc.

Batch: 370239

- [1] The post digestion spike for sample 70320463004 (PDS 1935348) did not meet acceptance criteria for Silver, Iron and Sodium.
- [2] The serial dilution for sample 70320463004 (SD 1935349) did not meet acceptance criteria for Boron, Cobalt and Potassium.
- [3] The post digestion spike for sample 70320492002 (PDS 1935555) did not meet acceptance criteria for Silver and Sodium.
- [4] The serial dilution for sample 70320492002 (SD 1935556) did not meet acceptance criteria for Aluminum, Arsenic, Boron, Barium, Barium, Calcium, Iron, Potassium, Magnesium, Manganese, Sodium, Nickel, Lead, Strontium and Zinc.

ANALYTE QUALIFIERS

- D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
- H3 Sample was received or analysis requested beyond the recognized method holding time.

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QUALIFIERS

Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

ANALYTE QUALIFIERS

- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

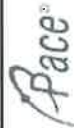
Project: OLD BETHPAGE LANDFILL 11/5

Pace Project No.: 70320463

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70320463002	MW-06F_11/5/24	EPA 200.7	369949	EPA 200.7	369978
70320463004	MW-06E_11/5/24	EPA 200.7	370194	EPA 200.7	370239
70320463003	MW-06F DISS_11/5/24	EPA 200.7	369800		
70320463005	MW-06E DISS_11/5/24	EPA 200.7	369800		
70320463002	MW-06F_11/5/24	SM22 2340B	371276		
70320463004	MW-06E_11/5/24	SM22 2340B	371276		
70320463002	MW-06F_11/5/24	EPA 245.1	370320	EPA 245.1	370373
70320463004	MW-06E_11/5/24	EPA 245.1	370320	EPA 245.1	370373
70320463003	MW-06F DISS_11/5/24	EPA 245.1	370754	EPA 245.1	370792
70320463005	MW-06E DISS_11/5/24	EPA 245.1	370754	EPA 245.1	370792
70320463001	TRIP BLANK_11/5/24	EPA 8260C/5030C	370378		
70320463002	MW-06F_11/5/24	EPA 8260C/5030C	370378		
70320463004	MW-06E_11/5/24	EPA 8260C/5030C	370378		
70320463002	MW-06F_11/5/24	SM22 2320B	371009		
70320463004	MW-06E_11/5/24	SM22 2320B	371009		
70320463002	MW-06F_11/5/24	SM22 2540C	370011		
70320463004	MW-06E_11/5/24	SM22 2540C	370011		
70320463002	MW-06F_11/5/24	SM22 3500-Cr B	369536		
70320463003	MW-06F DISS_11/5/24	SM22 3500-Cr B	369536		
70320463004	MW-06E_11/5/24	SM22 3500-Cr B	369536		
70320463005	MW-06E DISS_11/5/24	SM22 3500-Cr B	369536		
70320463002	MW-06F_11/5/24	EPA 300.0	371228		
70320463004	MW-06E_11/5/24	EPA 300.0	371228		
70320463002	MW-06F_11/5/24	EPA 351.2	369928	EPA 351.2	369934
70320463004	MW-06E_11/5/24	EPA 351.2	369928	EPA 351.2	369934
70320463002	MW-06F_11/5/24	EPA 353.2	371094		
70320463004	MW-06E_11/5/24	EPA 353.2	371094		
70320463002	MW-06F_11/5/24	EPA 353.2	369682		
70320463004	MW-06E_11/5/24	EPA 353.2	369682		
70320463002	MW-06F_11/5/24	SM20/22 4500-CN-C	370203	SM22 4500-CN-E	370253
70320463004	MW-06E_11/5/24	SM20/22 4500-CN-C	370203	SM22 4500-CN-E	370253
70320463002	MW-06F_11/5/24	SM22 4500-CI-E	370157		
70320463004	MW-06E_11/5/24	SM22 4500-CI-E	370157		
70320463002	MW-06F_11/5/24	SM22 4500 NH3 H	369772		
70320463004	MW-06E_11/5/24	SM22 4500 NH3 H	369772		

REPORT OF LABORATORY ANALYSIS

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Pace* Location Requested (City/State):
Pace Analytical Long Island NY
575 Broad Hollow Rd, Melville, NY 11747

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO#: 70320463

Company Name: Town of Oyster Bay
Street Address: 150 Miller Place
null
Syosset, NY 11791

Customer Project #: 3617-09
Project Name: Old Bethpage Landfill

Site Collection Info/Facility ID (as applicable):
Old Bethpage Landfill

Contact/Report To: Russo, Matt
Phone #: NONE
E-Mail: mrusso@tobays.net
Cc E-Mail: Robbins ddb - Pay.com

Invoice To: Matt Russo
Invoice E-Mail: MRusso@Tobays.net
Purchase Order # (if applicable):
Quote #:

Time Zone Collected: [] AK [] JC [] MT [] CT [] ET
Regulatory Program (D.W., RCRA, etc.) as applicable: Reportable [] Yes [] No

Rush (Pre-approval required):
[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other

Date Results Requested: 5/18/24
Field Filtered (if applicable): Yes [] No []
Analysis: 100% W/AC, 100% W/AC, 100% W/AC, 100% W/AC

Matrix Codes (insert in Matrix box below): Drinking Water (DW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SK), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix*	Comp / Grab	Composite Start		Collected or Composite End		#	Res. Chlorine
			Date	Time	Date	Time		
TRIP Blank - 11/5/24	AQ	-	11/5/24	-	-	2	-	
MW-06F - 11/5/24	GW	6	11/5/24	6:15pm	-	12	-	
MW-06E - 11/5/24	GW	6	11/5/24	12:50pm	-	12	-	

Additional Instructions from Pace*:
Bottles cleaned with (F) and (CR16) were for use in Old Bethpage Landfill - dissolved metals; field filtered and CR16
Send daily to Lab ddb @ 06-24-24 AM

Collected By: (Printed Name) Keith Robbins
Signature: Keith Robbins

Received by Company: (Signature) Keith Robbins
Date/Time: 11/6/2024 9:42

Relinquished by Company: (Signature) Keith Robbins
Date/Time: 11/6/2024 9:42

Relinquished by Company: (Signature)
Date/Time:

Relinquished by Company: (Signature)
Date/Time:

Relinquished by Company: (Signature)
Date/Time:

Specify Container Size **

Identify Container Preservative Type ***

Analysis Requested

Lab Use Only	Table #:	Profile / Template:	Prelog / Bottle Ord. ID:	Sample Comment
		6506	1177492	
Preservation non-conformance identified for sample				

Customer Remarks / Special Conditions / Possible Hazards:
VOCs, Leachate, dissolved metals, TDS (+ dissolved metals + CR16)

Thermometer ID: T1211
Thermometer Temp (°C): 5.5
Corrected Temp (°C): 5.8
On Ice: W

Tracking Number: 116924 9:42

Delivered by: [X] Person [] Courier [] FedEx [] UPS [] Other

Date/Time: 11/6/2024 9:42

Effective Date

WO#: 70320463

Client Name: TOY

Project #

PM: LAB

Due Date: 11/20/24

CLIENT: TOY

Courier: Fed Ex UPS USPS Client Commercial Pac Other

Tracking #:

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Temperature Blank Present: Yes No
Packing Material: Bubble Wrap Bubble Bags Ziplo Non Other Type of Ice: Wet Blue None

Thermometer Used: TH211 Correction Factor: +0.3 Samples on ice, cooling process has begun
Cooler Temperature (°C): _____ Cooler Temperature Corrected (°C): _____ Date/Time 5035A kits placed in freezer _____
Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? Yes No

Did samples originate from a foreign source including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: SH 11/5/24

	COMMENTS:
Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished: <input type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Note: if sediment is visible in the dissolved container.
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes date/time/ID/Analysis Matrix: <u>SL</u> <input type="checkbox"/> WT <input type="checkbox"/> OIL <input type="checkbox"/> OTHER	

Date and Initials of person checking preservation: SH 11/5/24

All containers needing preservation have been <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A pH paper Lot # <u>205324</u> All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl Sample #
Samples checked for dechlorination: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A KI starch test strips Lot # <u>14-860</u> Residual chlorine strips Lot #	Initial when completed: _____ Lot # of added preservative: _____ Date/Time preservative added: _____ 14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Lead Acetate Strips Lot # <u>14-862</u>	15. Positive for Sulfide? Y N
Headspace in ALK Bottle (>6mm): <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	17.
Trip Blank Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Custody Seals Present <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.



ANALYTICAL REPORT

Lab Number:	L2465005
Client:	Pace Analytical Services Inc 575 Broad Hollow Road Melville, NY 11747
ATTN:	Lori Beyer
Phone:	(516) 370-6014
Project Name:	OLD BETHPAGE LF 11/5
Project Number:	70320463
Report Date:	11/20/24

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

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

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

Project Name: OLD BETHPAGE LF 11/5
Project Number: 70320463

Lab Number: L2465005
Report Date: 11/20/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2465005-01	MW-06F_11/5/24	WATER	NY	11/05/24 18:15	11/06/24
L2465005-02	MW-06E_11/5/24	WATER	NY	11/05/24 13:25	11/06/24

Project Name: OLD BETHPAGE LF 11/5
Project Number: 70320463

Lab Number: L2465005
Report Date: 11/20/24

Case Narrative

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

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

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

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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: OLD BETHPAGE LF 11/5
Project Number: 70320463

Lab Number: L2465005
Report Date: 11/20/24

Case Narrative (continued)

Report Submission

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

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:

 Caitlin Walukevich

Title: Technical Director/Representative

Date: 11/20/24

INORGANICS & MISCELLANEOUS

Project Name: OLD BETHPAGE LF 11/5
Project Number: 70320463

Lab Number: L2465005
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465005-01
Client ID: MW-06F_11/5/24
Sample Location: NY

Date Collected: 11/05/24 18:15
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:37	4,420.1	KEM



Project Name: OLD BETHPAGE LF 11/5
Project Number: 70320463

Lab Number: L2465005
Report Date: 11/20/24

SAMPLE RESULTS

Lab ID: L2465005-02
Client ID: MW-06E_11/5/24
Sample Location: NY

Date Collected: 11/05/24 13:25
Date Received: 11/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Phenolics, Total	0.016	J	mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:38	4,420.1	KEM



Project Name: OLD BETHPAGE LF 11/5

Lab Number: L2465005

Project Number: 70320463

Report Date: 11/20/24

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1999280-1									
Phenolics, Total	ND	mg/l	0.030	0.006	1	11/19/24 08:20	11/19/24 12:35	4,420.1	KEM

Lab Control Sample Analysis Batch Quality Control

Project Name: OLD BETHPAGE LF 11/5
Project Number: 70320463

Lab Number: L2465005
Report Date: 11/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1999280-2								
Phenolics, Total	89		-		70-130	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: OLD BETHPAGE LF 11/5

Lab Number: L2465005

Project Number: 70320463

Report Date: 11/20/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1999280-4 QC Sample: L2466048-01 Client ID: MS Sample												
Phenolics, Total	0.008J	0.4	0.34	84	-	-	-	-	70-130	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1999280-6 QC Sample: L2466048-02 Client ID: MS Sample												
Phenolics, Total	0.013J	0.4	0.35	86	-	-	-	-	70-130	-	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: OLD BETHPAGE LF 11/5

Project Number: 70320463

Lab Number: L2465005

Report Date: 11/20/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1999280-3 QC Sample: L2466048-01 Client ID: DUP Sample						
Phenolics, Total	0.008J	0.010J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1999280-5 QC Sample: L2466048-02 Client ID: DUP Sample						
Phenolics, Total	0.013J	0.017J	mg/l	NC		20

Project Name: OLD BETHPAGE LF 11/5

Project Number: 70320463

Serial_No:11202413:27

Lab Number: L2465005

Report Date: 11/20/24

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2465005-01A	Amber 1000ml H2SO4 preserved	C	<2	<2	3.2	Y	Absent		NY-TPHENOL-420(28)
L2465005-02A	Amber 1000ml H2SO4 preserved	C	<2	<2	3.2	Y	Absent		NY-TPHENOL-420(28)

Project Name: OLD BETHPAGE LF 11/5
Project Number: 70320463

Lab Number: L2465005
Report Date: 11/20/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: OLD BETHPAGE LF 11/5
Project Number: 70320463

Lab Number: L2465005
Report Date: 11/20/24

Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: OLD BETHPAGE LF 11/5
Project Number: 70320463

Lab Number: L2465005
Report Date: 11/20/24

Data Qualifiers

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

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

Report Format: DU Report with 'J' Qualifiers



Project Name: OLD BETHPAGE LF 11/5
Project Number: 70320463

Lab Number: L2465005
Report Date: 11/20/24

REFERENCES

- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

EPA 625.1: alpha-Terpineol

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

EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.

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

Mansfield Facility

SM 2540D: TSS.

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

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

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

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

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

Non-Potable Water

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

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

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

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522, EPA 537.1.

Non-Potable Water

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

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

EPA 245.1 Hg.


SM2340B

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

Pace® Pace* Location Requested (City/State):
Pace Analytical Long Island NY
575 Broad Hollow Rd, Melville, NY 11747

CHAIN-OF-CUSTODY Analytical Request Document
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 70320463



70320463

Company Name: Town of Oyster Bay
Street Address: 150 Miller Place
null
Syosset, NY 11791

Customer Project #: 3617-09
Project Name: Old Bethpage Landfill

Site Collection Info/Facility ID (as applicable):
Old Bethpage Landfill

Contact/Report To: Russo, Matt
Phone #: NONE
E-Mail: mrusso@tobays.net
Cc E-Mail: KRobins@db-pag.com

Invoice To: Matt Russo
Invoice E-Mail: MRusso@TOBAYS.net
Purchase Order # (if applicable):
Quote #:

Specify Container Size **
Identify Container Preservative Type***
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other
*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Time Zone Collected: AK PT MT CT ET
County / State origin of sample(s): New York

Data Deliverables:
 Level II Level III Level IV
 EQUIS
 Other CATAG "B"

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable Yes No
Rush (Pre-approval required):
 Same Day 1 Day 2 Day 3 Day Other
Date Results Requested: Standard
Field Filtered (if applicable): Yes No
Analysis: dissolved metals + CR16

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine		Alkalinity	Cyanide	Dissolved Cr+6 (field filtered)	Dissolved Metals (field filtered)	NH3, NO3, TKN	No2, TDS	Phenolics by 420.1	Total Metals & Hardness	VOC by 8260	Lab Use Only	Sample Comment	
			Date	Time	Date	Time		Results	Units												
TRIP Blank - 11/5/24	AQ	-	11/5/24	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-06F - 11/5/24	GW	G	11/5/24	6:15pm	-	-	12	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW-06E - 11/5/24	GW	G	11/5/24	1:25pm	-	-	12	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Additional Instructions from Pace*:
Old Bethpage Landfill - dissolved metals; field filtered and CR16
Send data to lab data@db-pag.com

Collected By: (Printed Name) Keith Robins
Signature: Keith Robins

Customer Remarks / Special Conditions / Possible Hazards:
VOCs, Leachate indicators total + dissolved metals + CR16

# Coolers: 7	Thermometer ID: TR211	Correction Factor (°C): +.3	Obs. Temp. (°C): 6.5	Corrected Temp. (°C): 5.8	On Ice: W
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Relinquished by/Company: (Signature) Keith Robins / DIB Engineer
Date/Time: 11/6/2024 9:42

Received by/Company: (Signature) [Signature]
Date/Time: 11/6/2024 9:42

Tracking Number:
Delivered by: Person Courier
 FedEx UPS Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace* Terms and Conditions found at <https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/>

Effective Date:

Client Name:

TOY

Project #

MO# : 70320463

PH: LAB

Due Date: 11/20/24

CLIENT: TOY

Courier: Fed Ex UPS USPS Client Commercial Parcel Other

Tracking #: _____

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No Temperature Blank Present: Yes No
 Packing Material: Bubble Wrap Bubble Bags Ziplo None Other Type of Ice: Wet Blue None

Thermometer Used: TH211 Correction Factor: -0.3 Samples on ice, cooling process has begun
 Cooler Temperature (°C): _____ Cooler Temperature Corrected (°C): _____ Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX
 or VA (check map)? Yes No

Did samples originate from a foreign source including Hawaii and Puerto Rico? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCURCOC paperwork.

Date and Initials of person examining contents: SH 11/18/24

COMMENTS:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Rush Turn Around Time Requested	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Sufficient Volume: (Triple volume provided for MSMSD)	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Peace Containers Used:	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Filtered volume received for	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Dissolved tests	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
-Includes date/time/ID/Analysis	SL	WT	OIL OTHER
Date and Initials of person checking preservation:	<u>SH 11/18/24</u>		

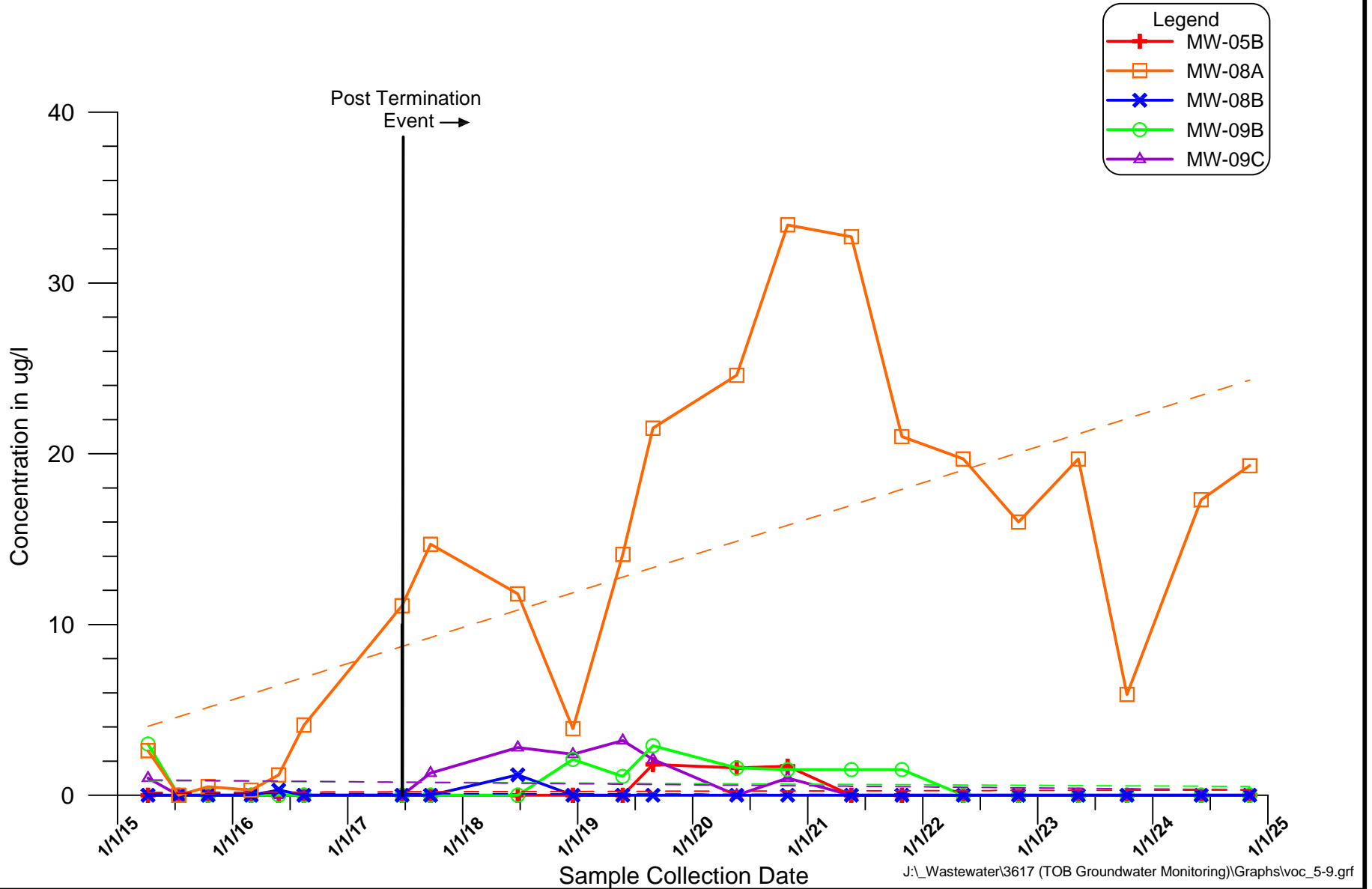
All containers needing preservation have been	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Sample #
pH paper Lot #	<u>205324</u>			
All containers needing preservation are found to be in compliance with method recommendations?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
NAOH>12 Cyanide)				
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water),				Initial when completed:
Per Method, VOA pH is checked after analysis				Lot # of added preservative:
Samples checked for dechlorination: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A				Date/Time preservative added:
KI starch test strips Lot #	<u>14-860</u>			
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide				15. Positive for Sulfide? Y N
Lead Acetate Strips Lot #	<u>14-862</u>			
Headspace in ALK Bottle (>6mm):	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	16.
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	17.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	

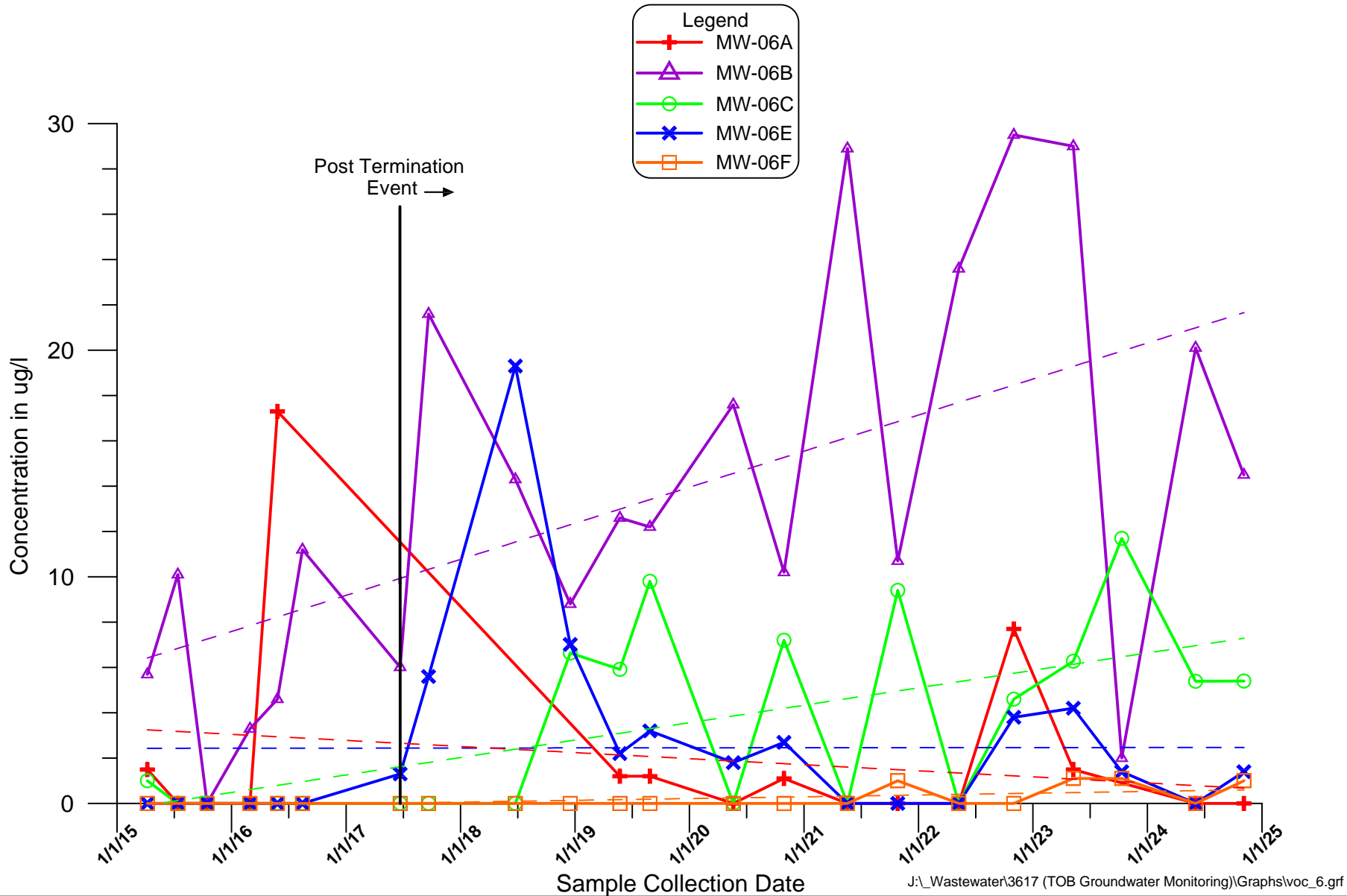
Client Notification/ Resolution: _____
 Person Contacted: _____
 Comments/ Resolution: _____
 Field Data Required? Y / N
 Date/Time: _____

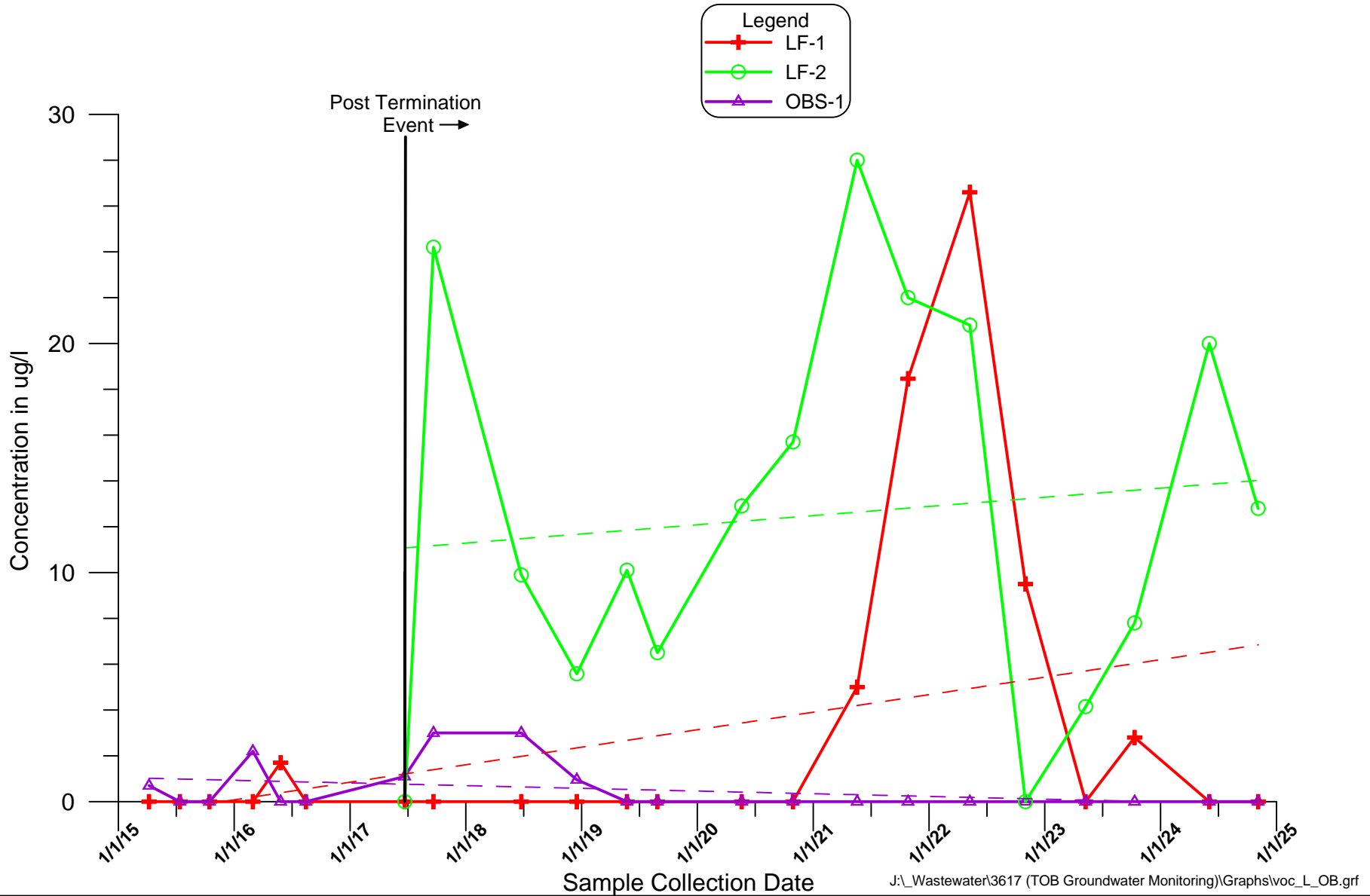
* PM (Project Manager) review (which includes the SCUR) is documented electronically in LMS.

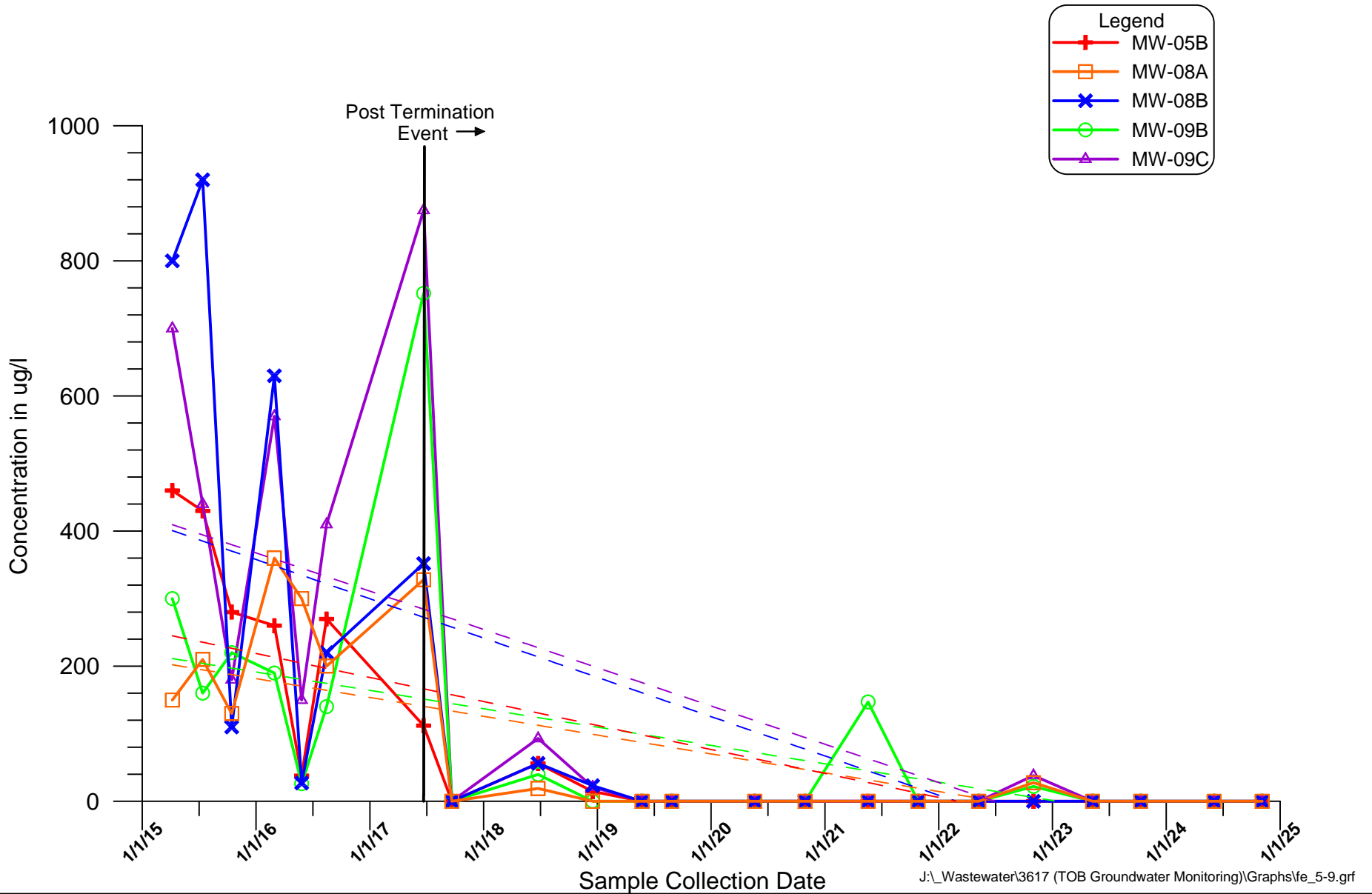
APPENDIX E

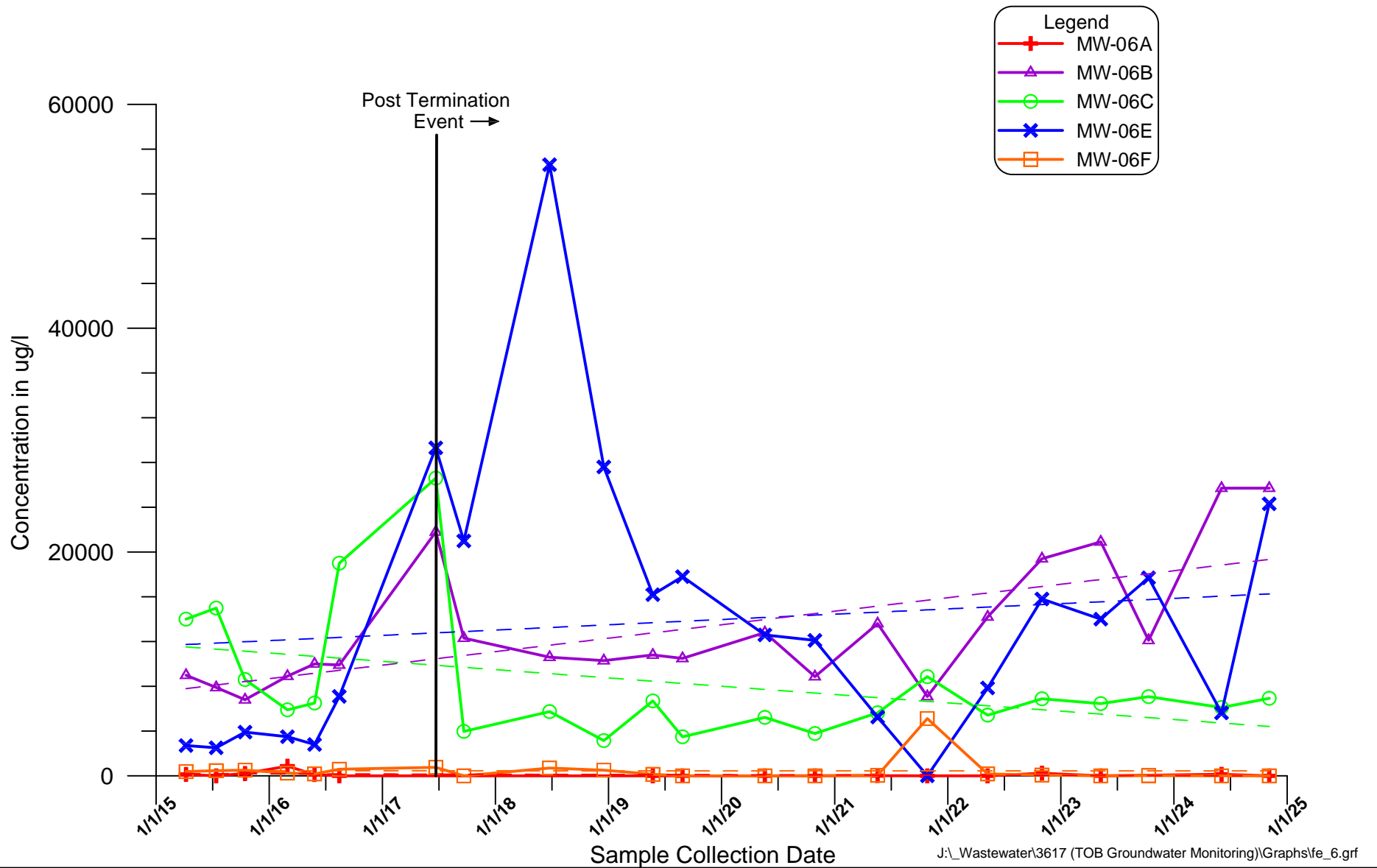
**POST-TERMINATION HISTORICAL
GROUNDWATER TREND GRAPHS**







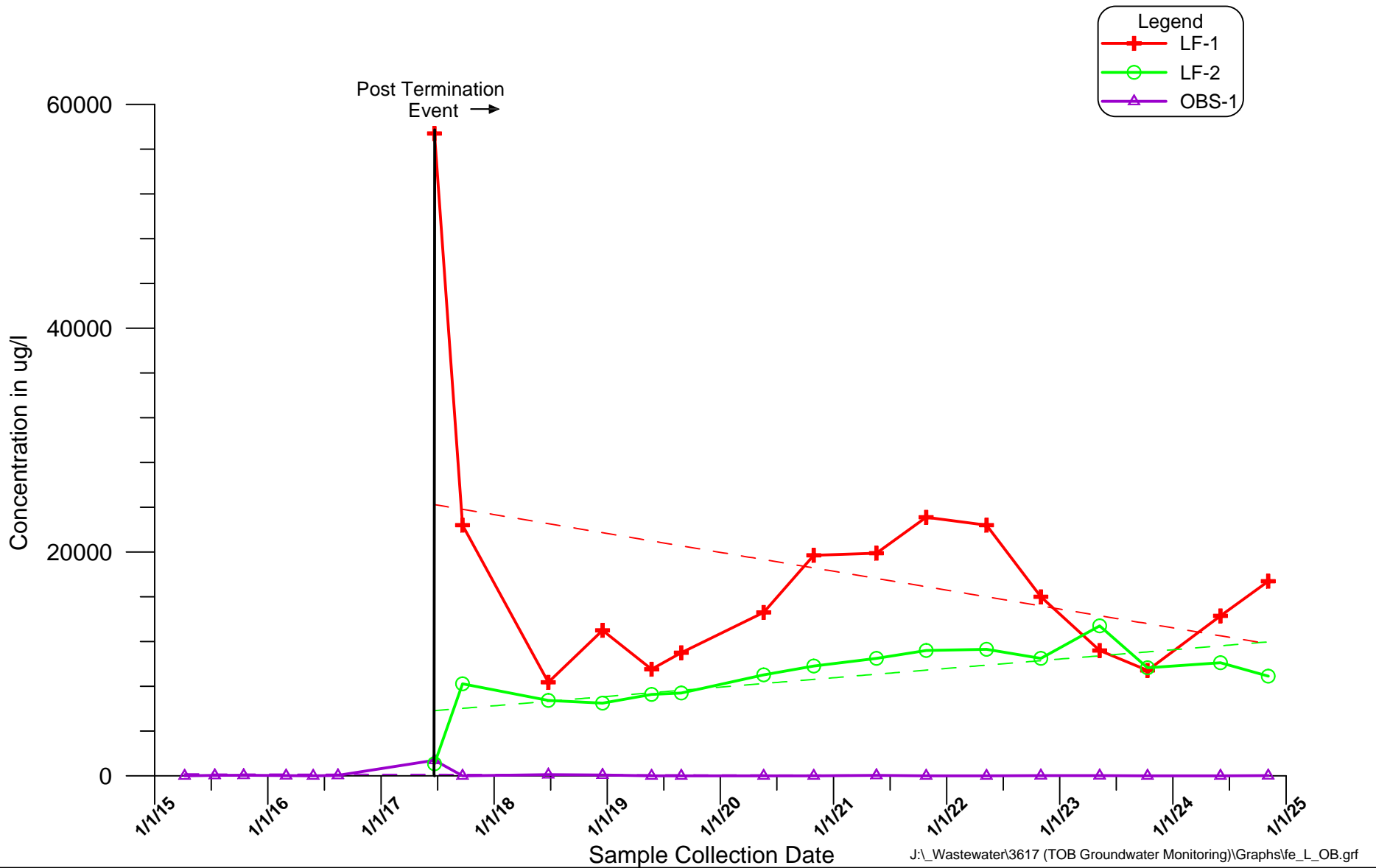




Town of Oyster Bay
 Old Bethpage Landfill
 Historical Iron
 Data for Monitoring Well Cluster 6



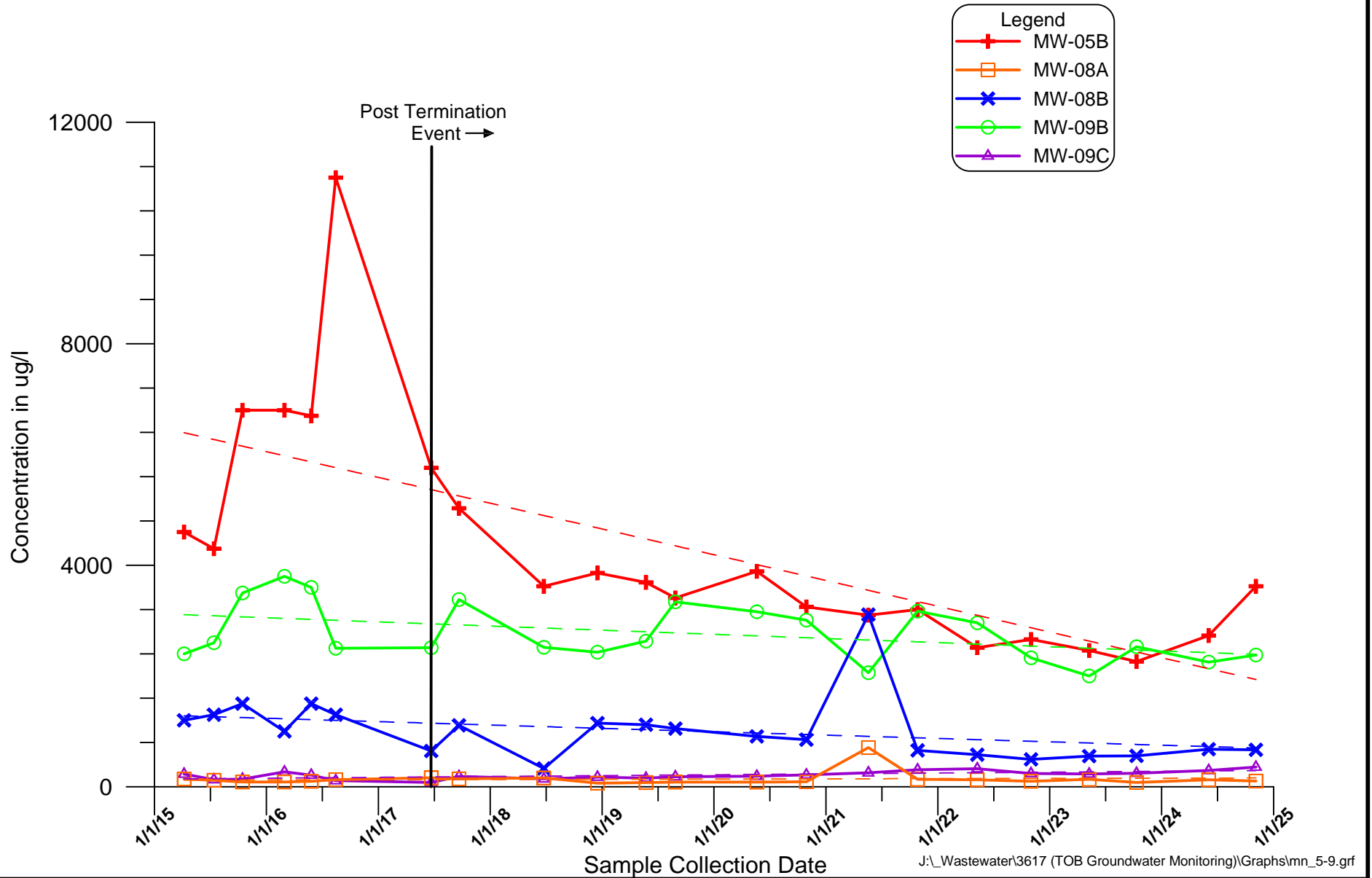
Figure E



Town of Oyster Bay
 Old Bethpage Landfill
 Historical Iron
 Data for Wells LF-1, LF-2 & OBS-1

Figure
 E

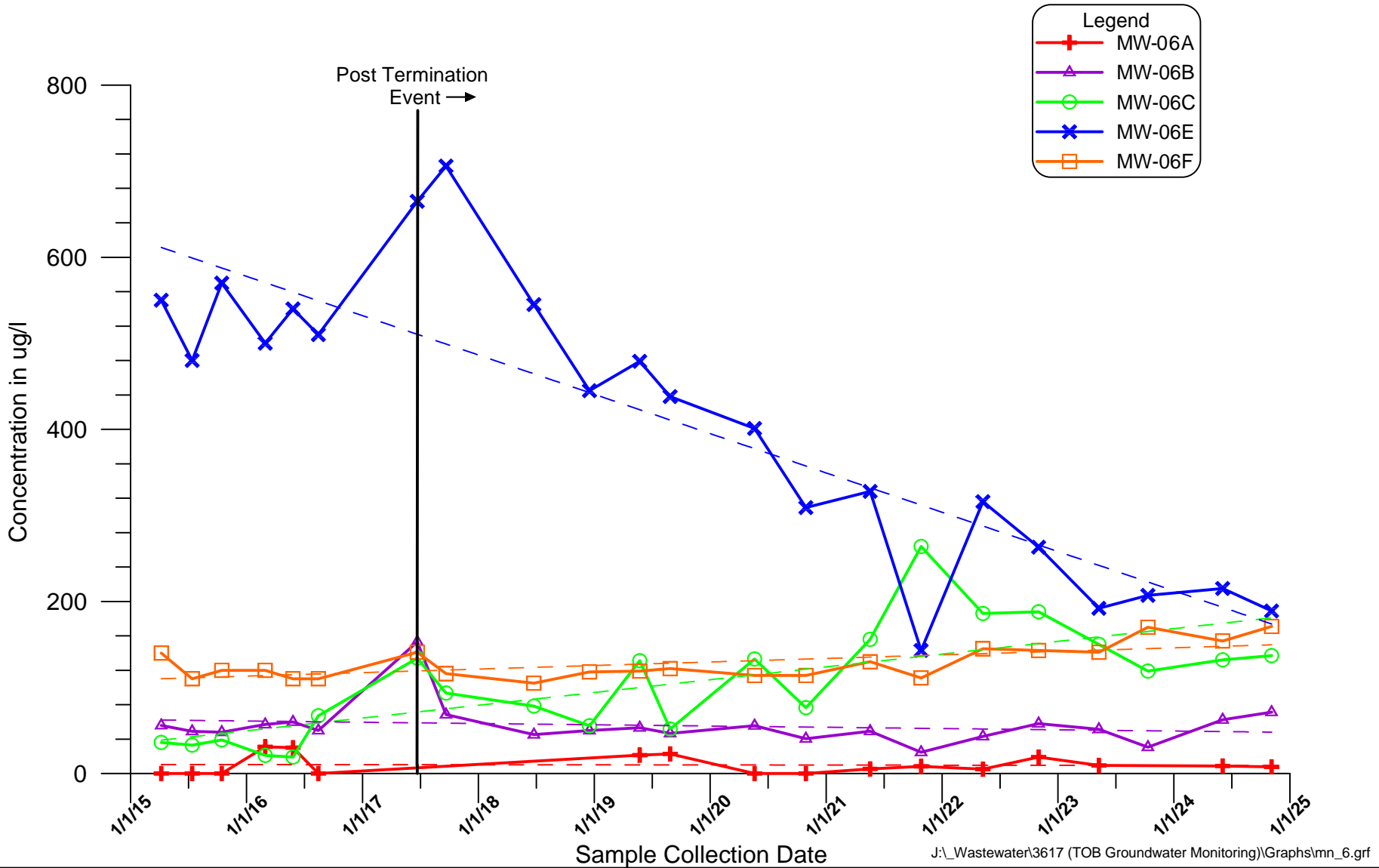




Town of Oyster Bay
 Old Bethpage Landfill
 Historical Manganese
 Data for Monitoring Wells 5, 8, & 9

Figure
 E

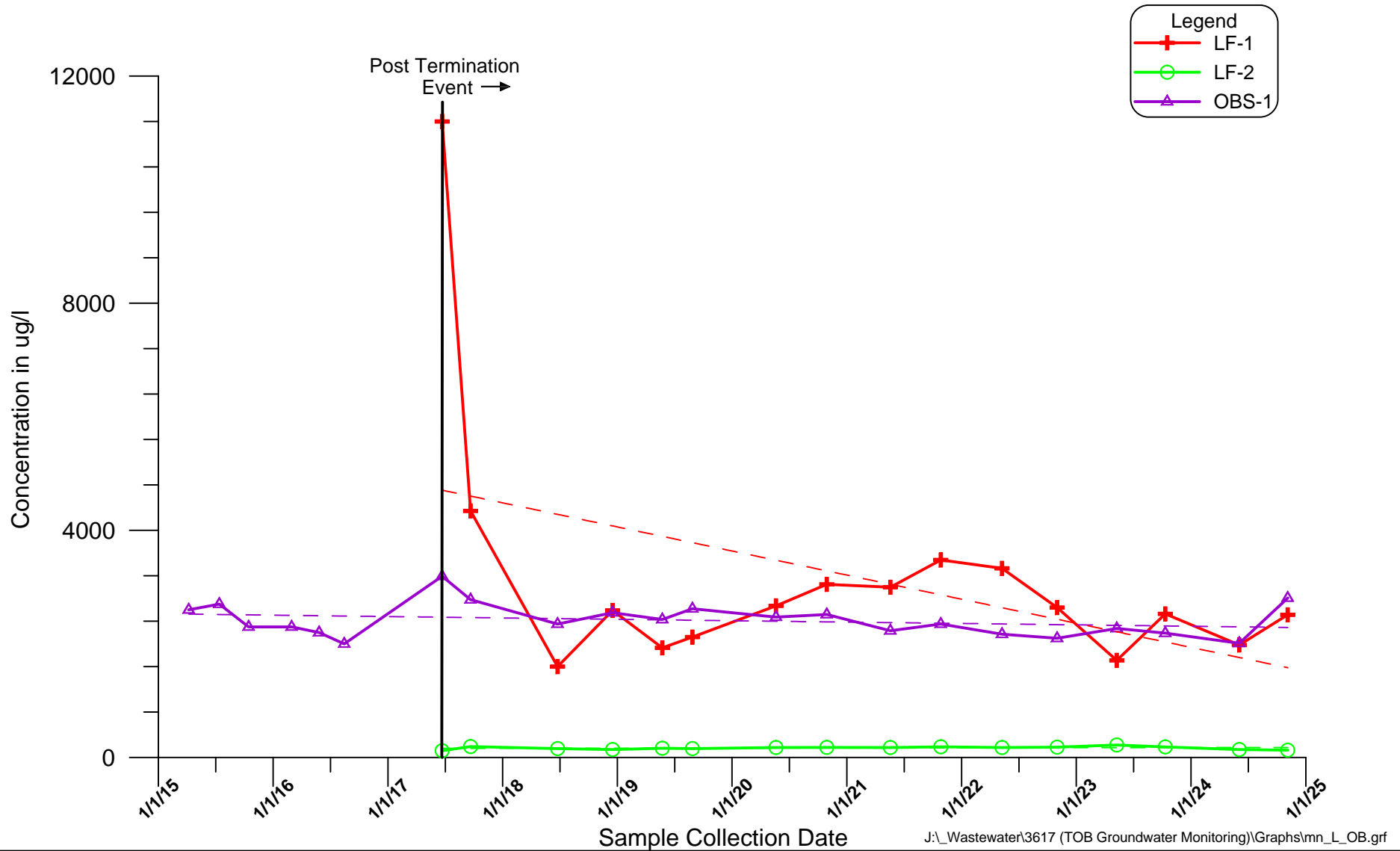




Town of Oyster Bay
 Old Bethpage Landfill
 Historical Manganese
 Data for Monitoring Well Cluster 6

Figure
 E

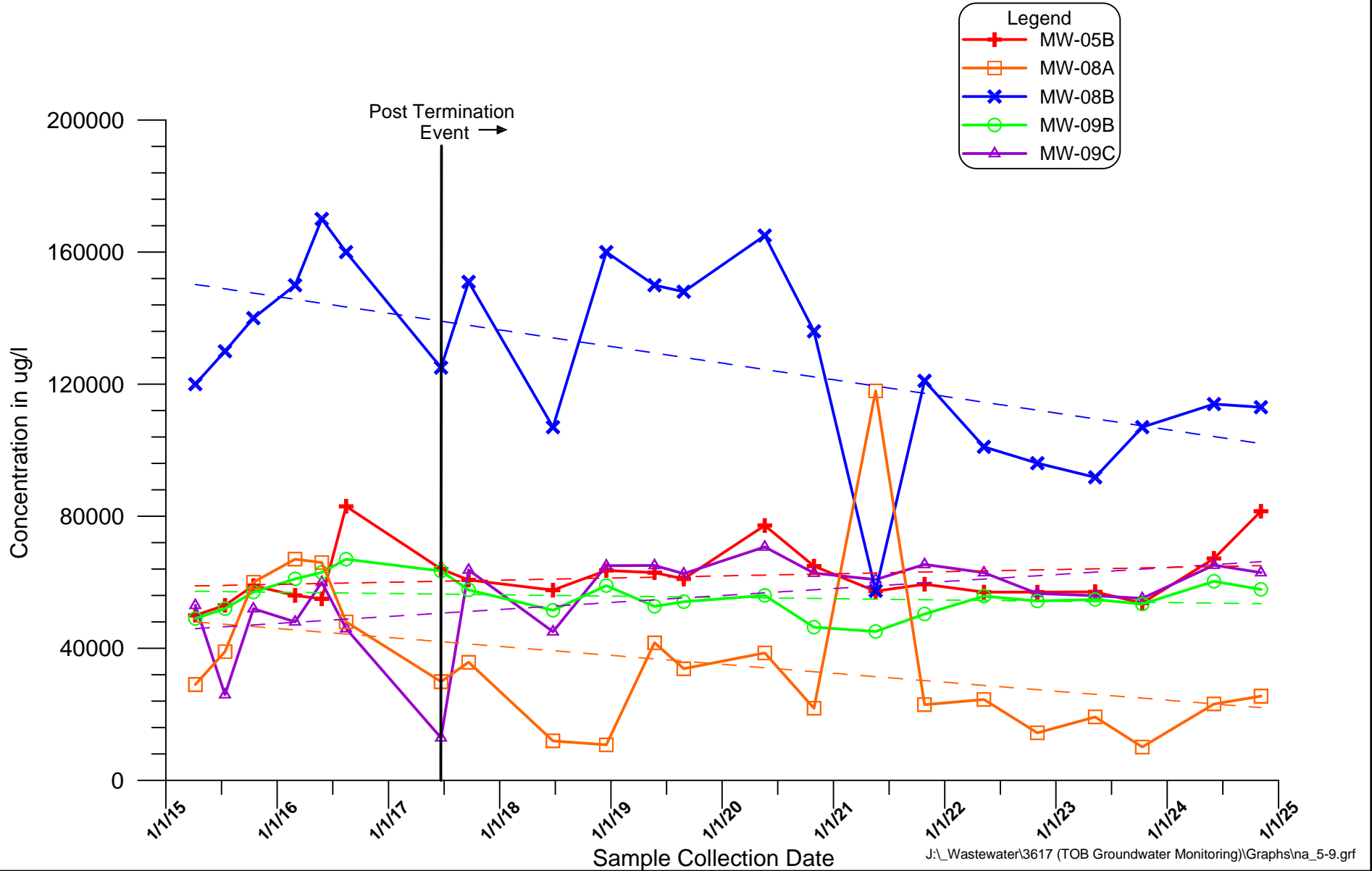




Town of Oyster Bay
 Old Bethpage Landfill
 Historical Manganese
 Data for Wells LF-1, LF-2 & OBS-1

Figure
 E

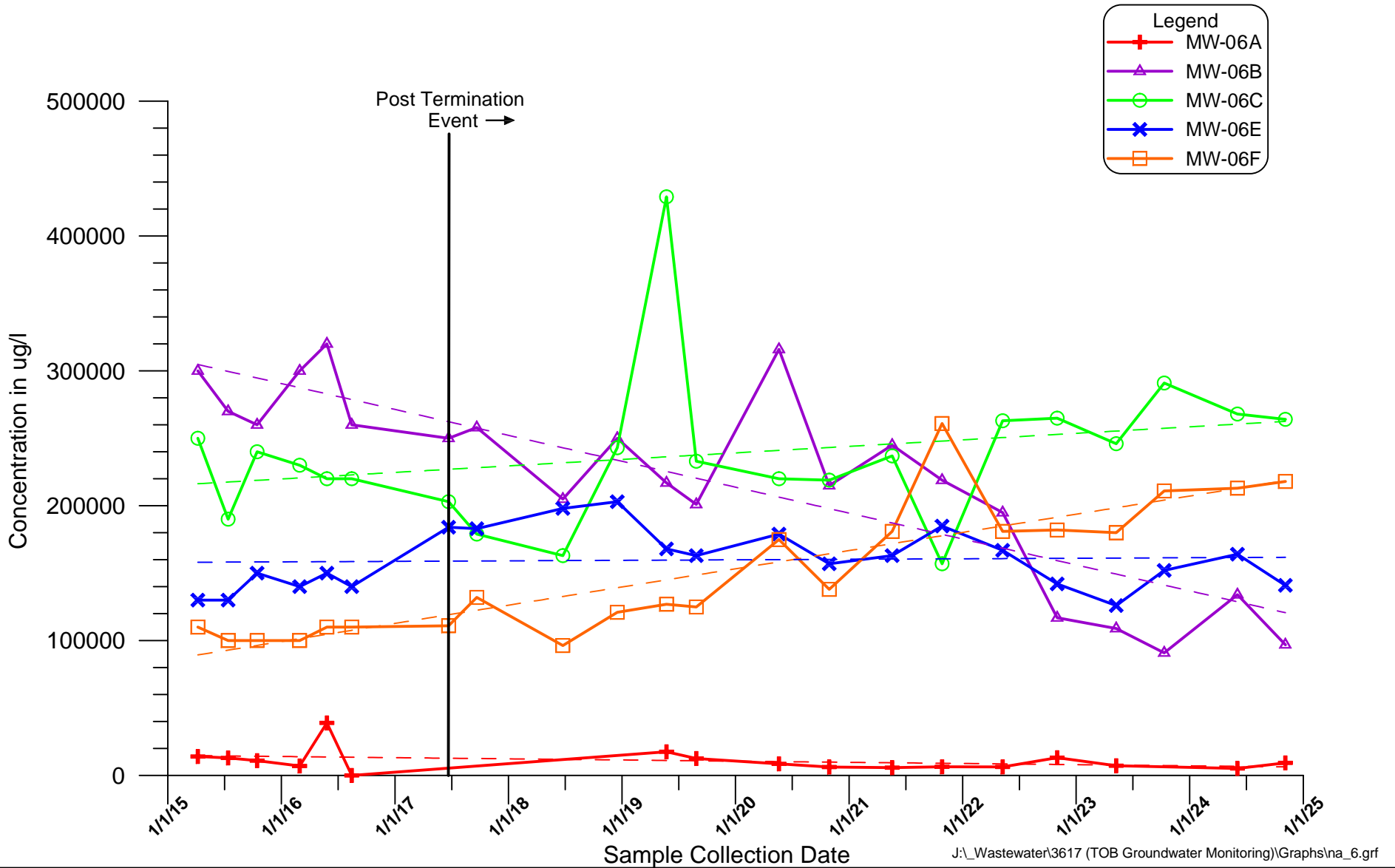


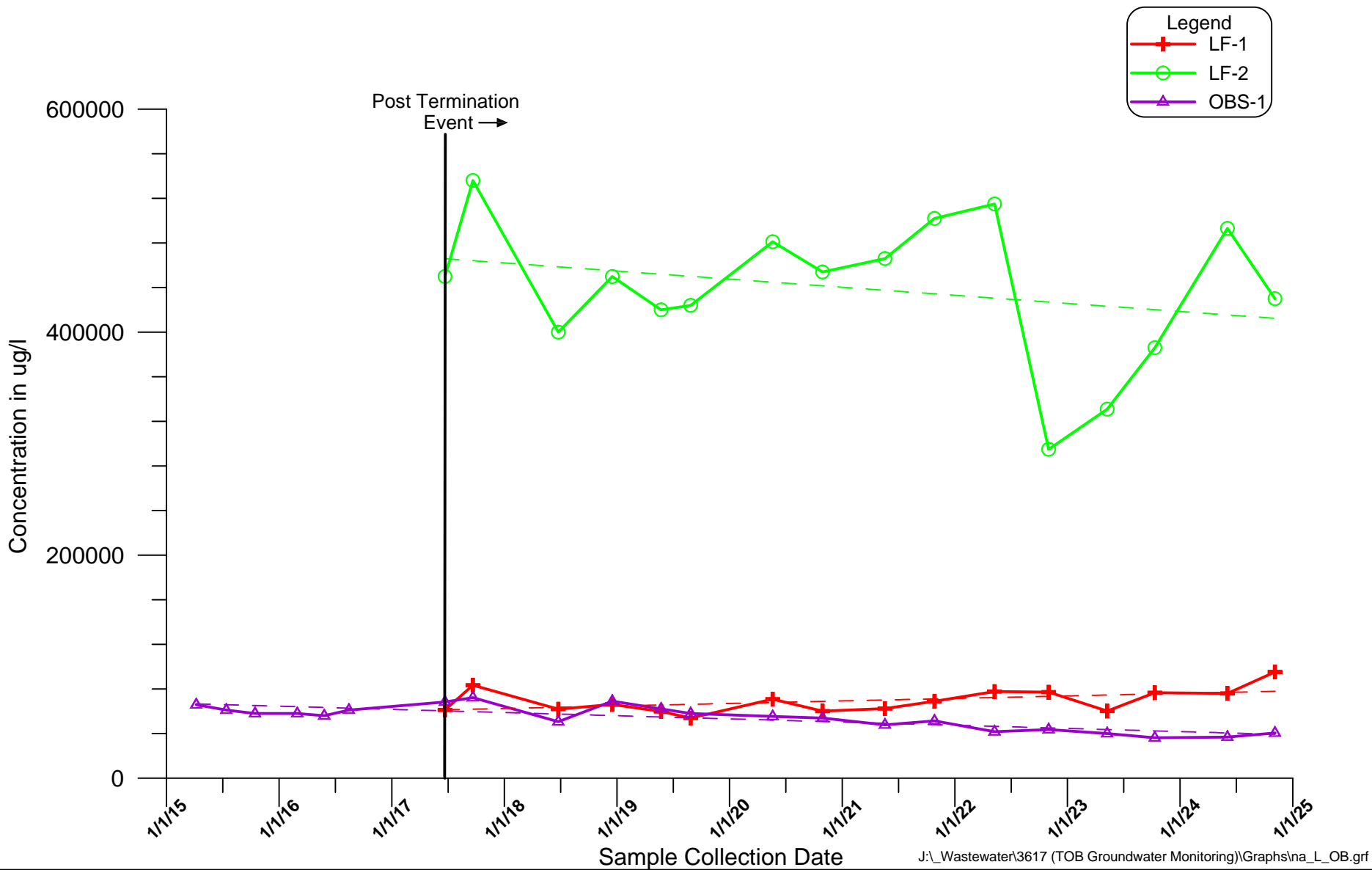


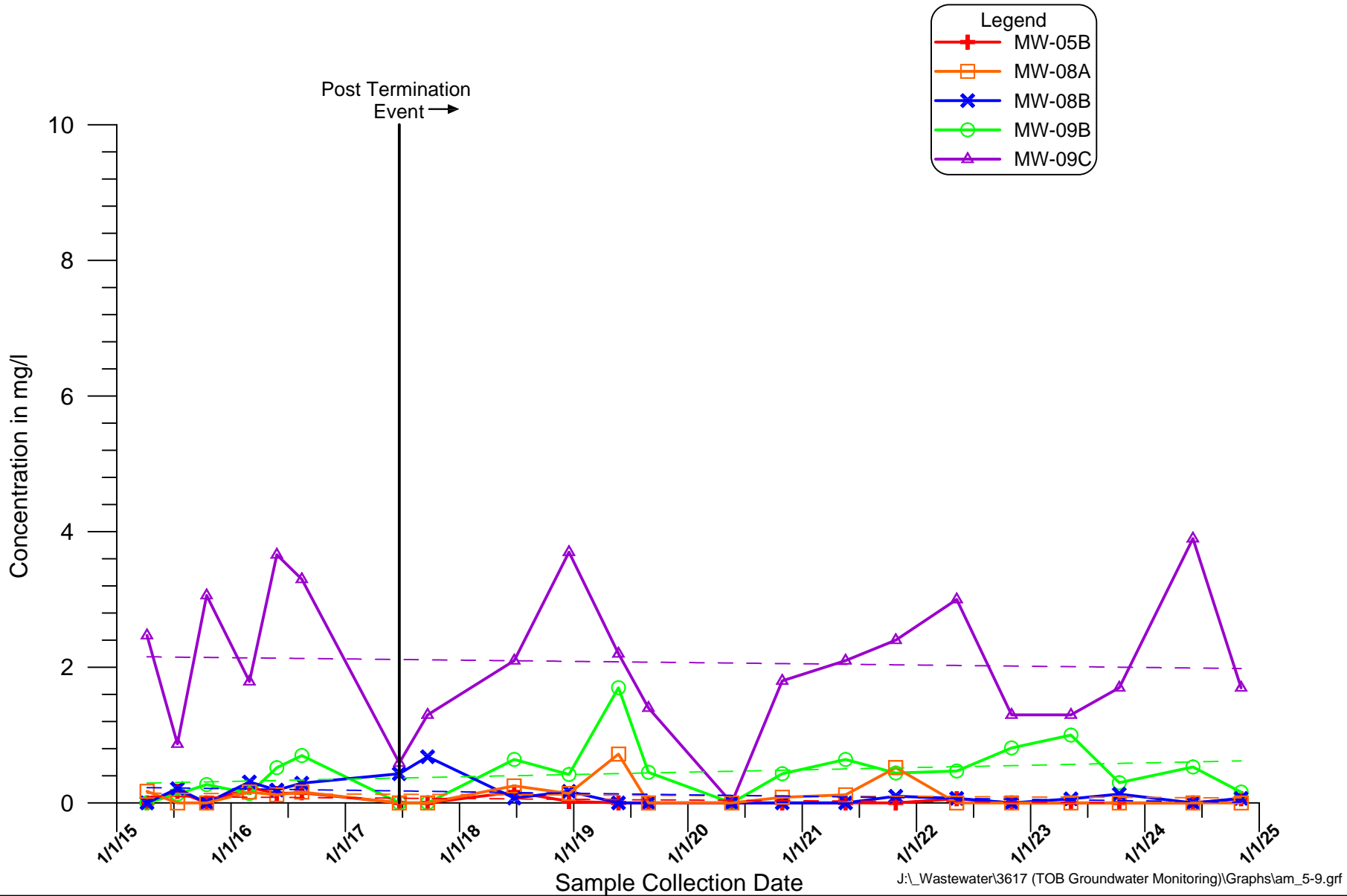
**Town of Oyster Bay
Old Bethpage Landfill
Historical Sodium
Data for Monitoring Wells 5, 8, & 9**

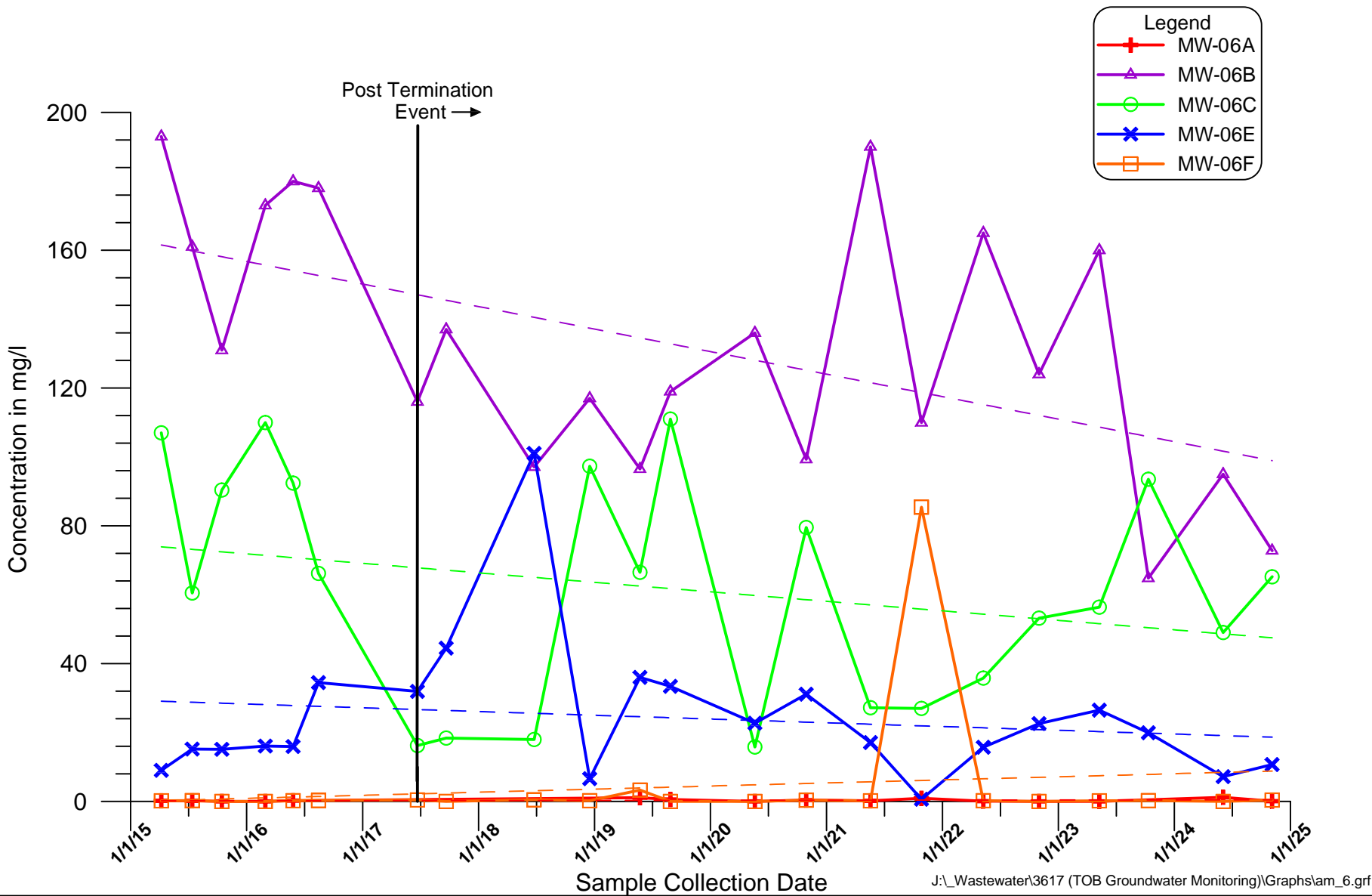
**Figure
E**







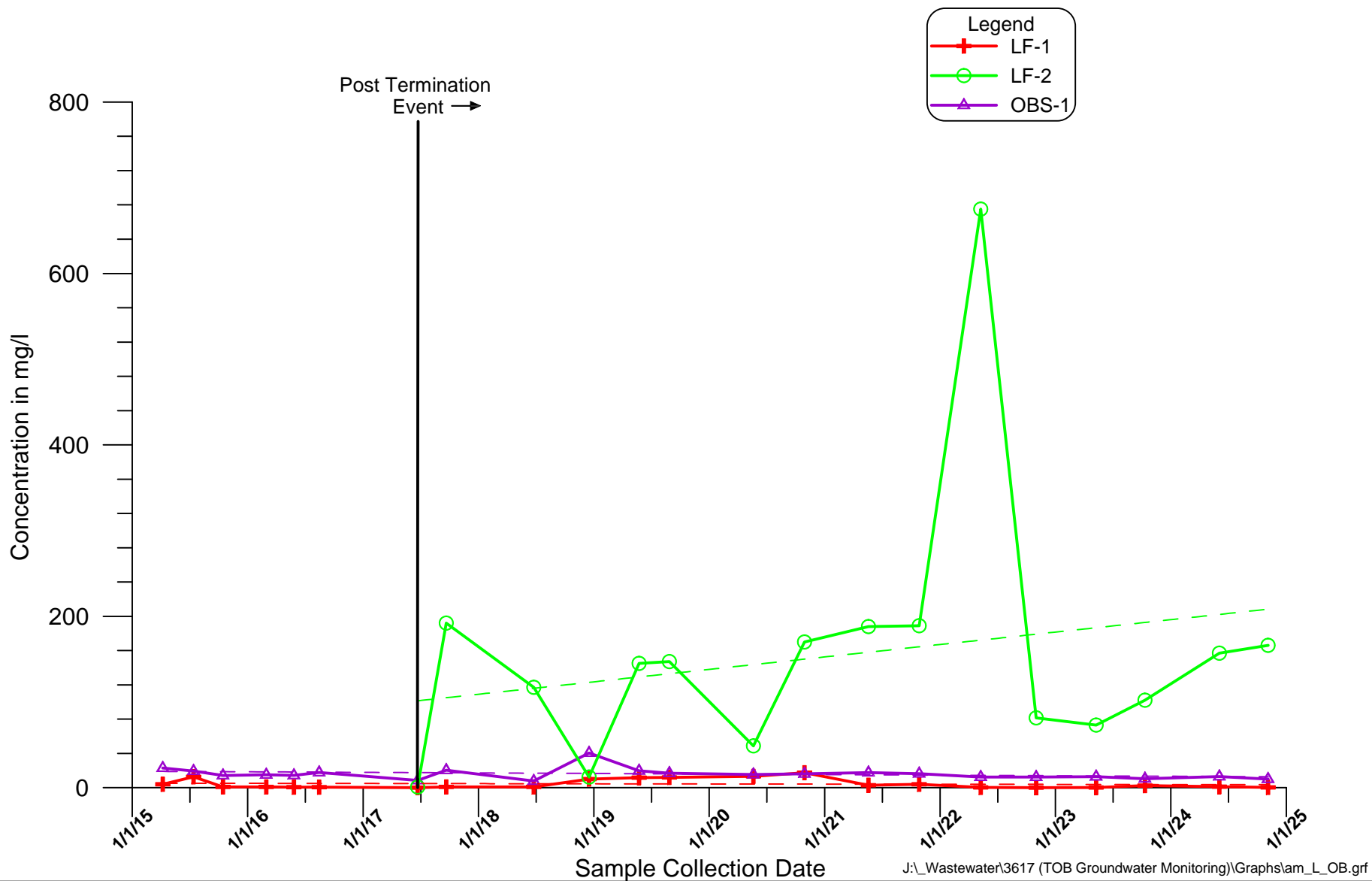




**Town of Oyster Bay
Old Bethpage Landfill
Historical Ammonia
Data for Monitoring Well Cluster 6**

**Figure
E**

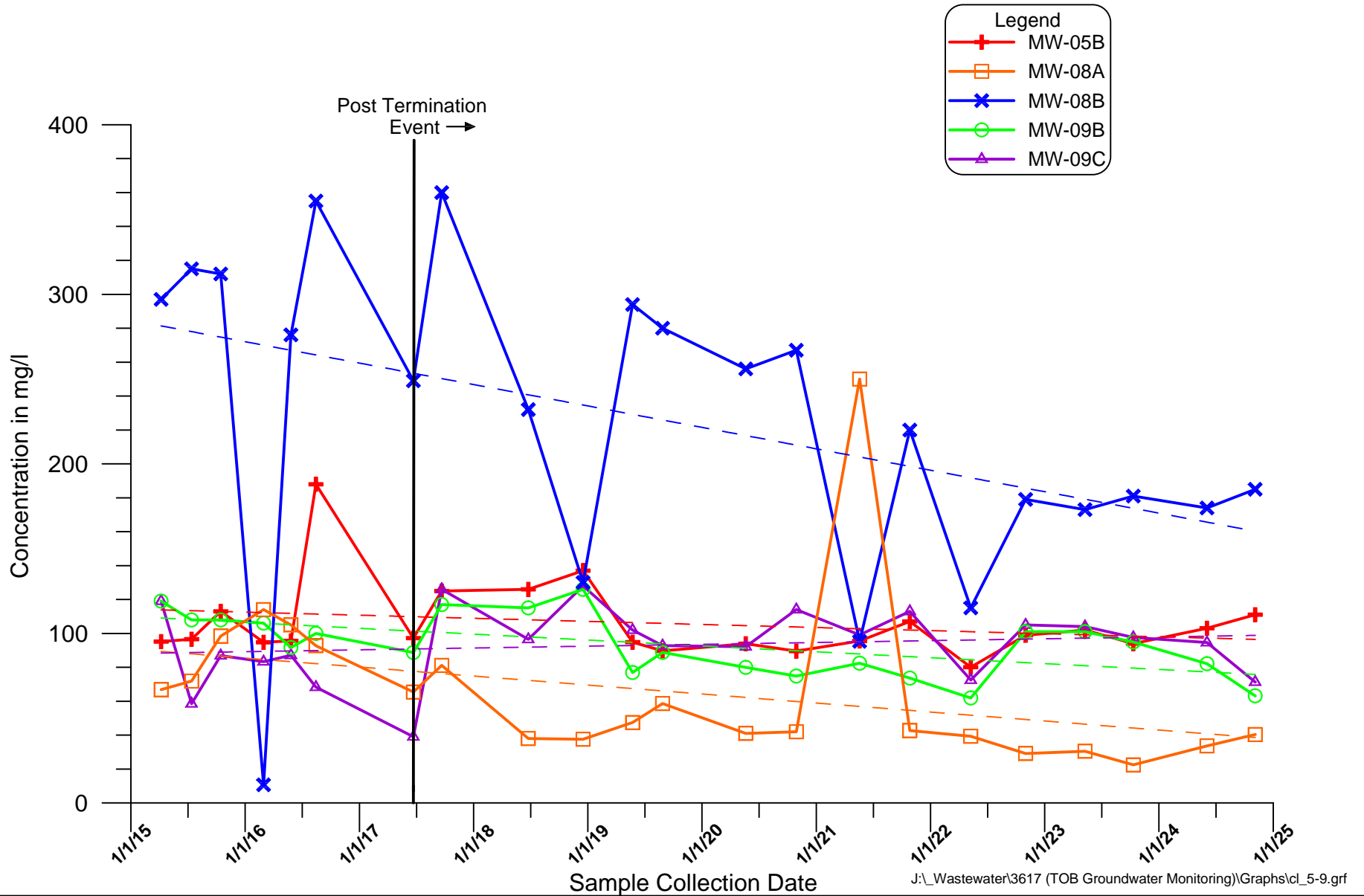


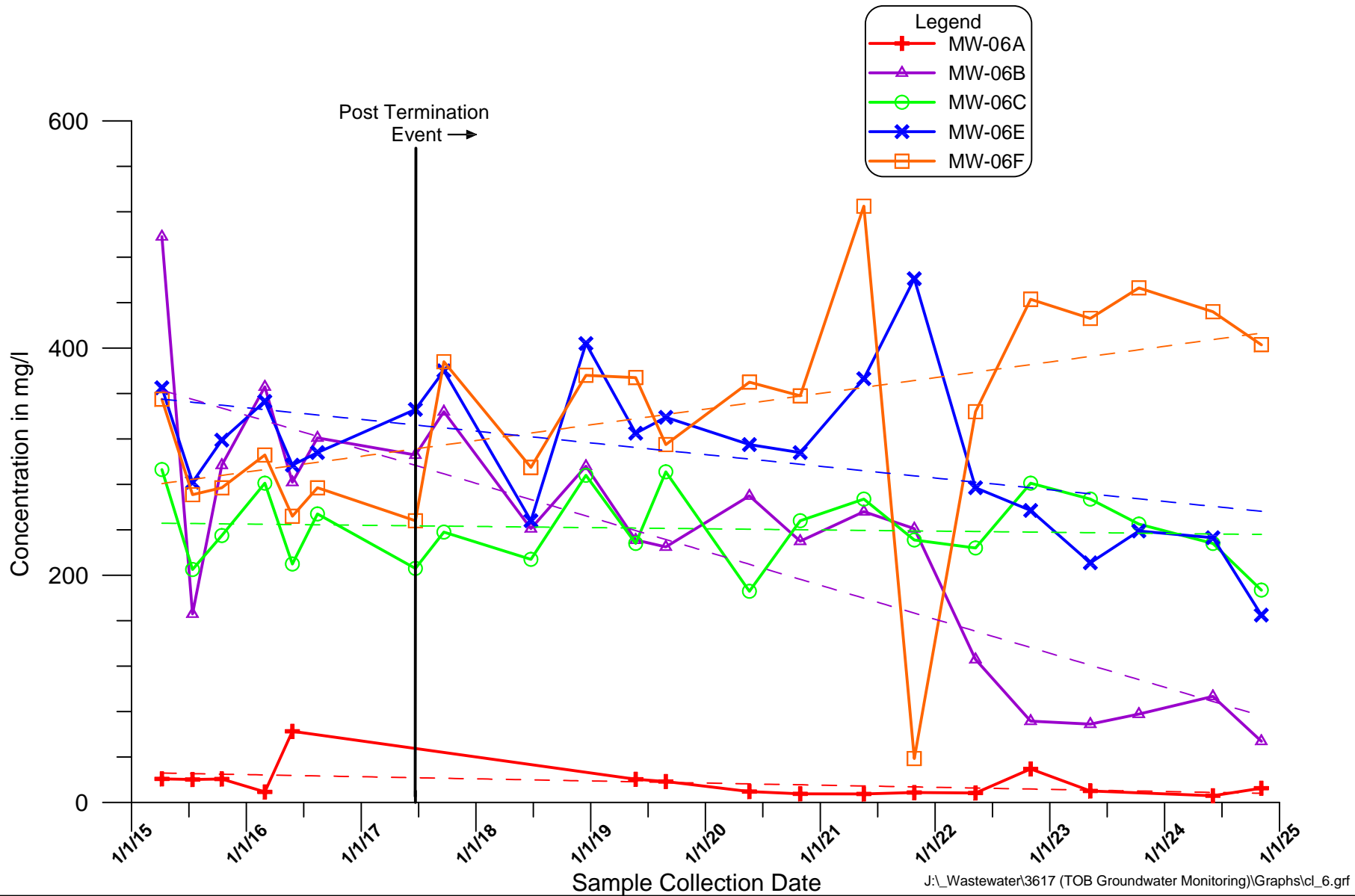


Town of Oyster Bay
 Old Bethpage Landfill
 Historical Ammonia
 Data for Wells LF-1, LF-2 & OBS-1



Figure E

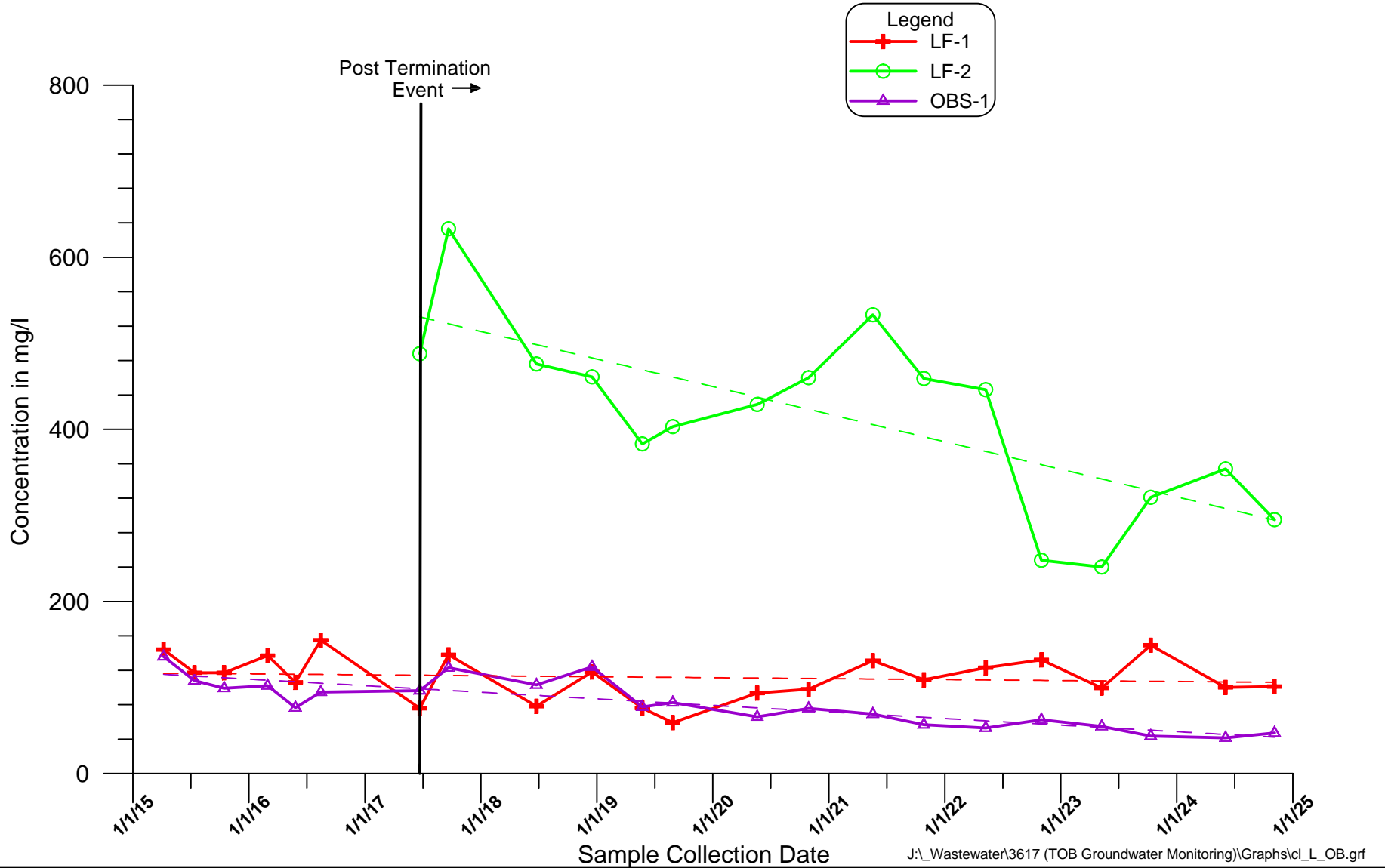




**Town of Oyster Bay
Old Bethpage Landfill
Historical Chloride
Data for Monitoring Well Cluster 6**

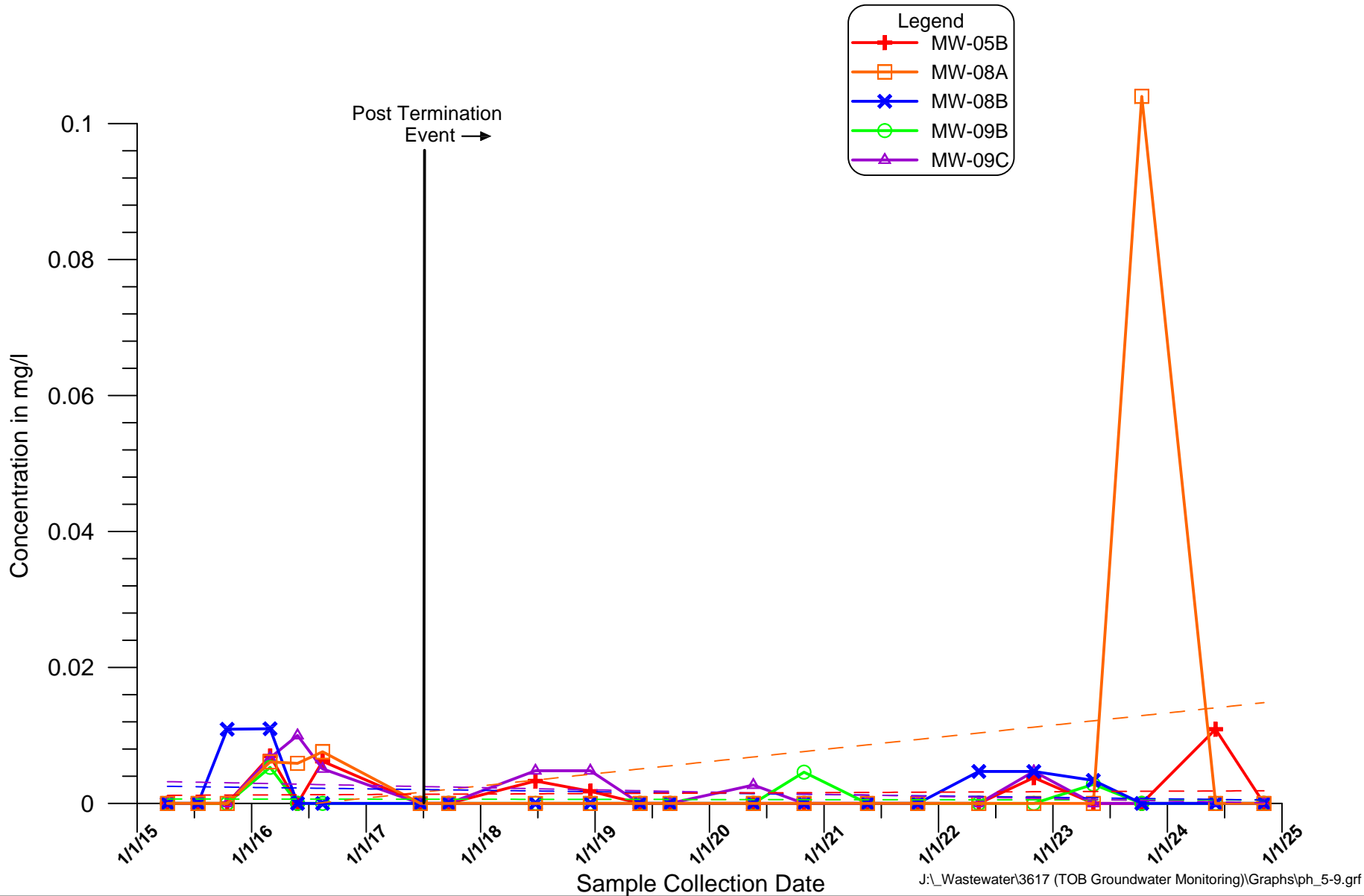
**Figure
E**

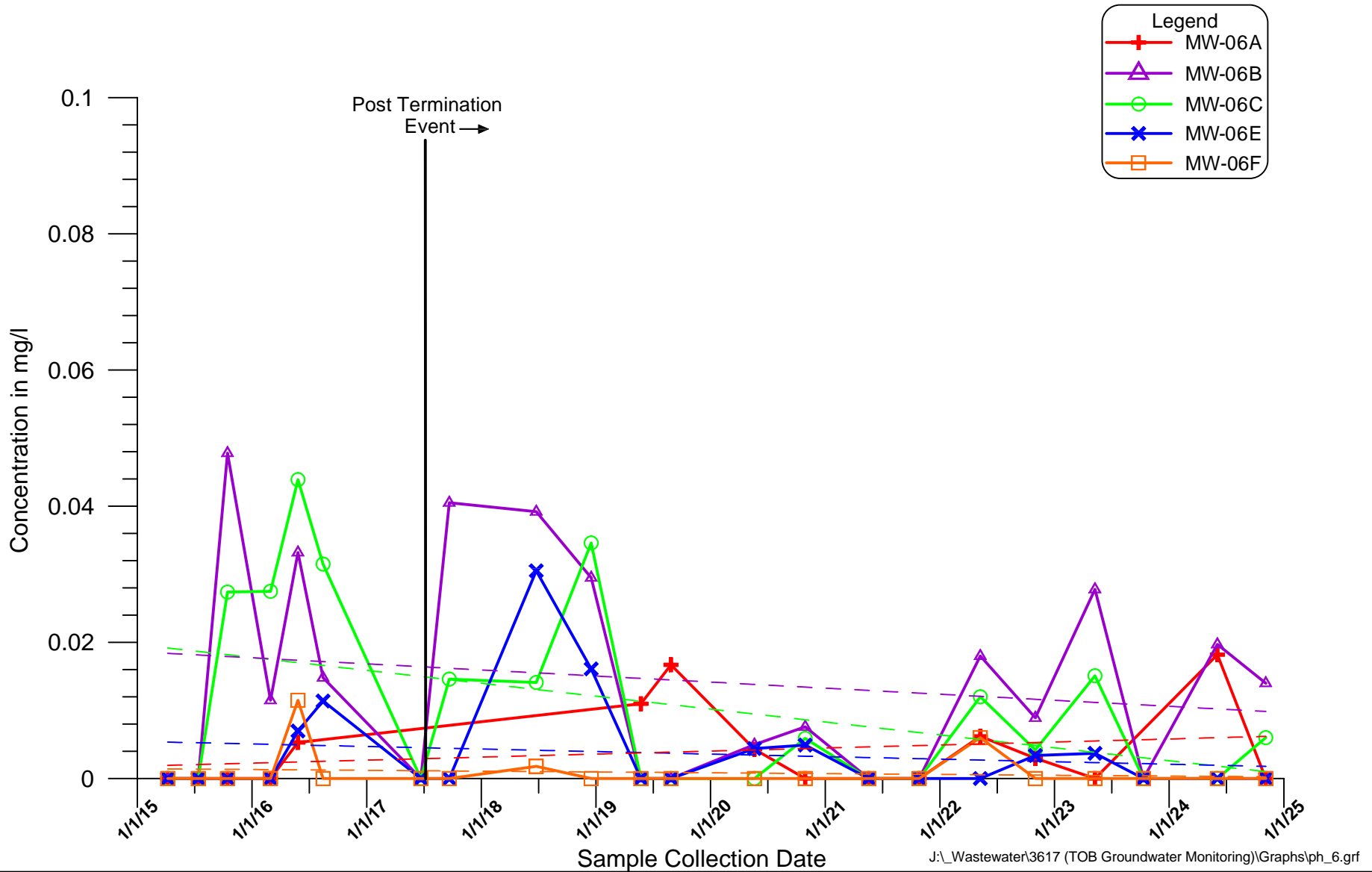




**Town of Oyster Bay
Old Bethpage Landfill
Historical Chloride
Data for Wells LF-1, LF-2 & OBS-1**

**Figure
E**

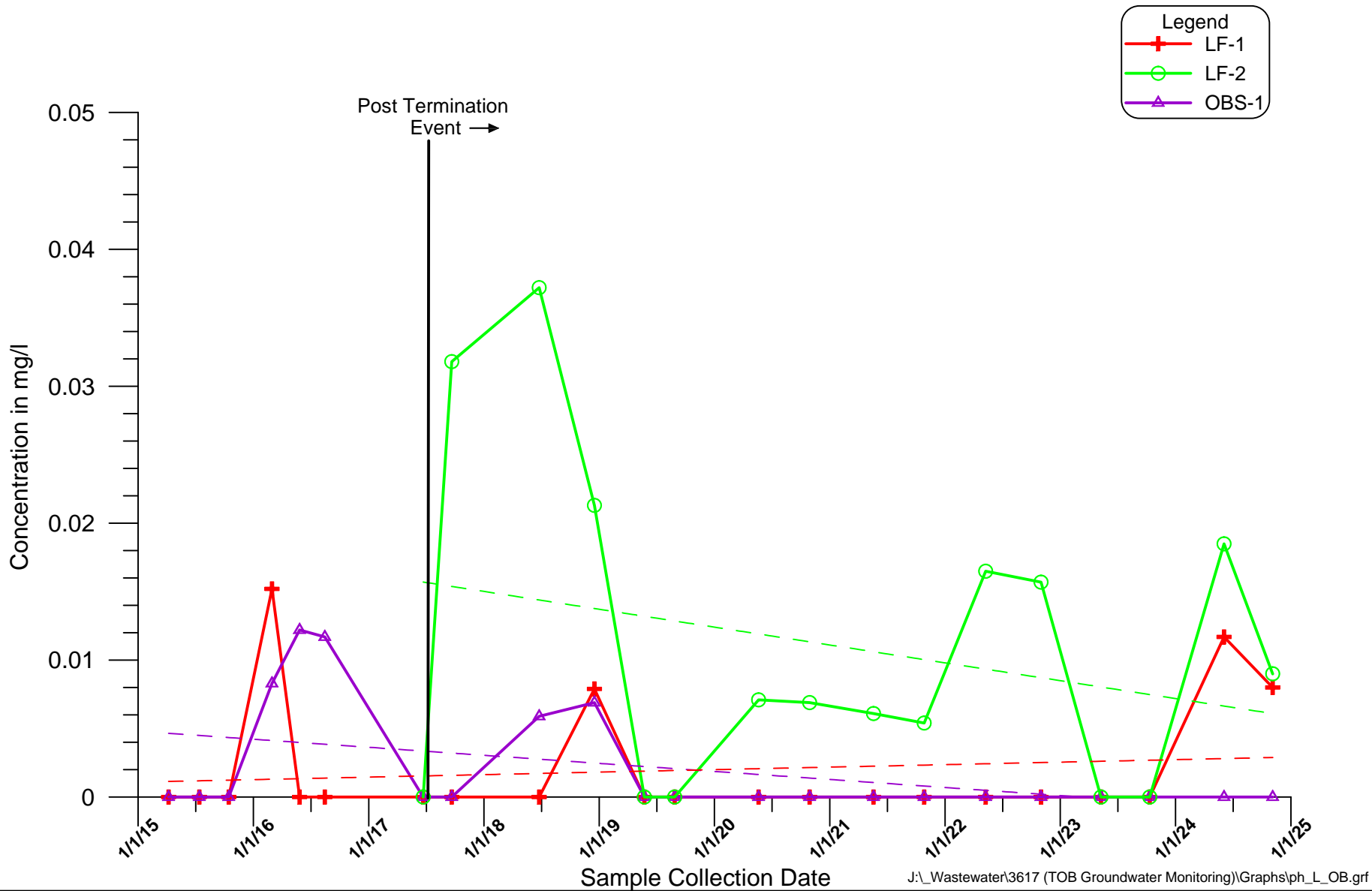


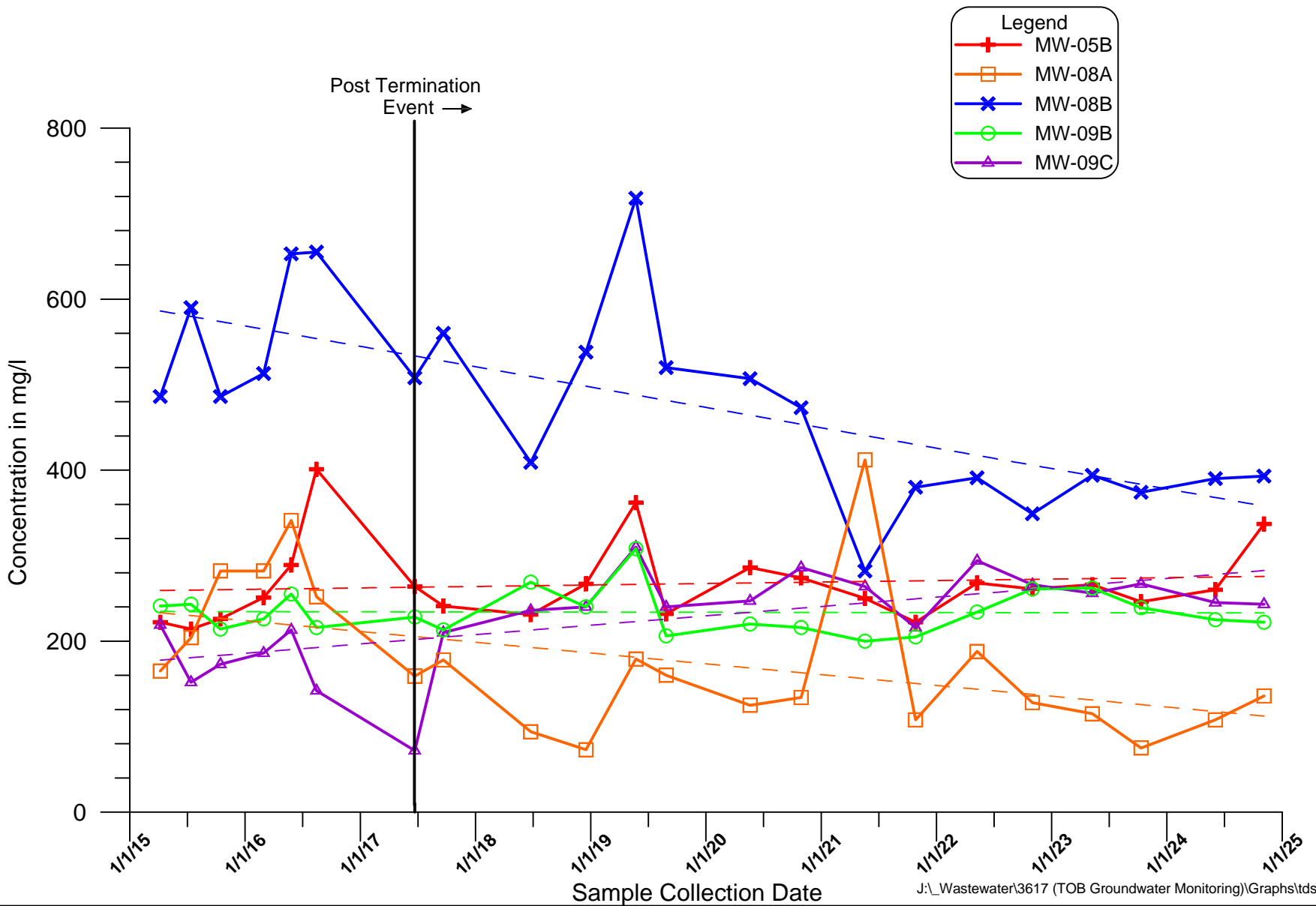


Town of Oyster Bay
 Old Bethpage Landfill
 Historical Phenolics
 Data for Monitoring Well Cluster 6

Figure
 E





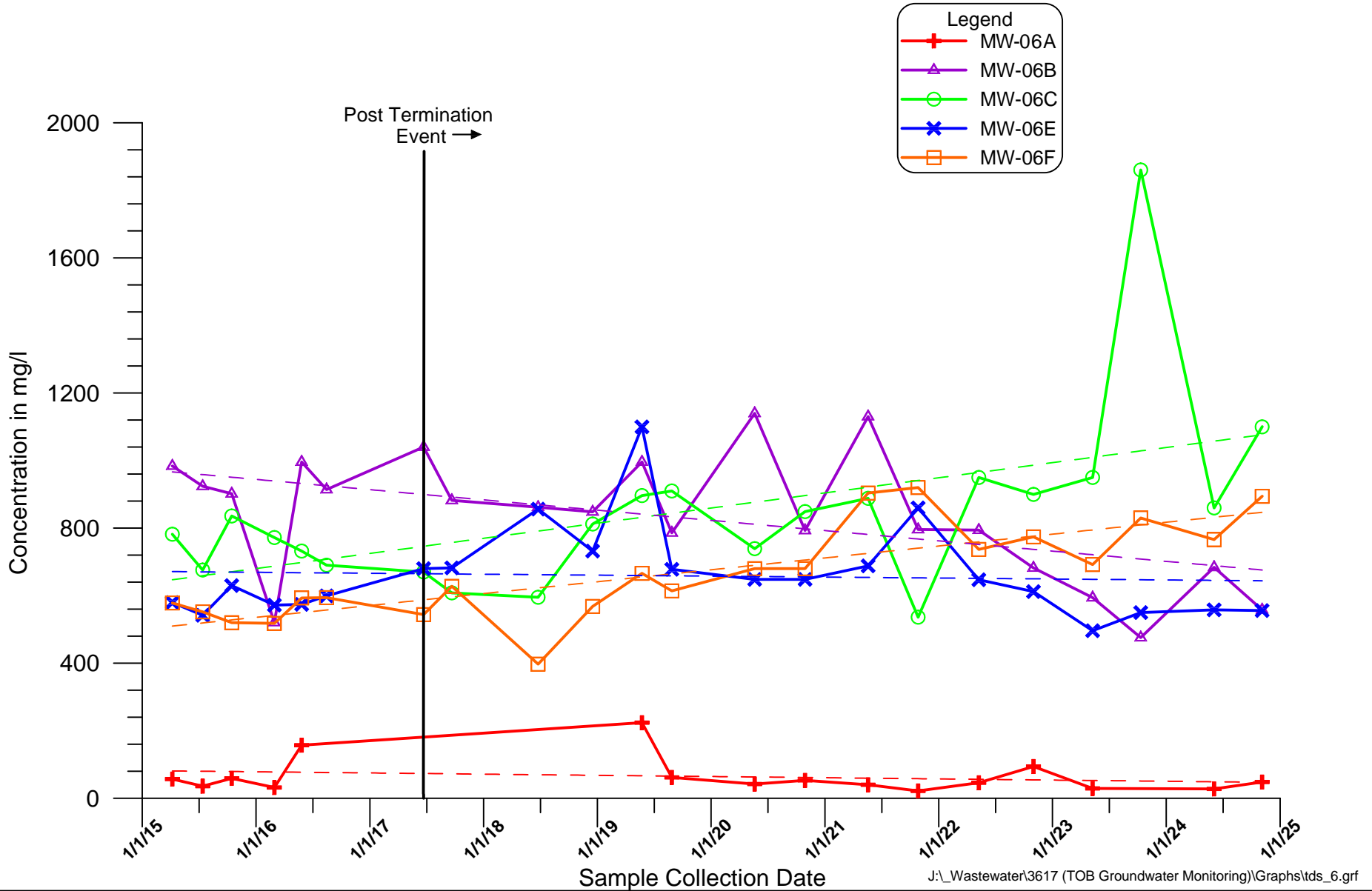


J:_Wastewater\3617 (TOB Groundwater Monitoring)\Graphs\tds_5-9.grf

**Town of Oyster Bay
Old Bethpage Landfill
Historical Total Dissolved Solids
Data for Monitoring Wells 5, 8, & 9**

**Figure
E**

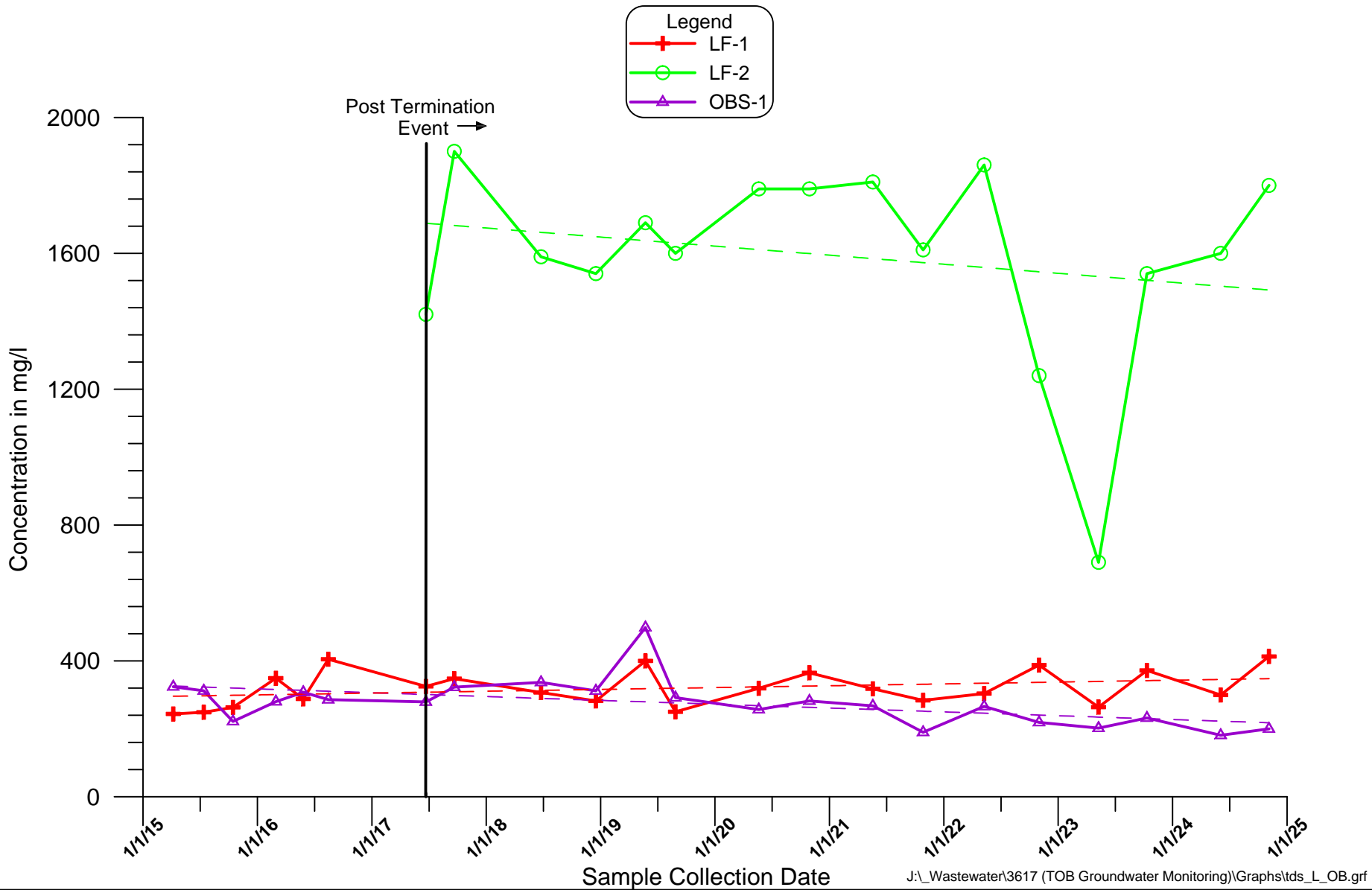




**Town of Oyster Bay
Old Bethpage Landfill
Historical Total Dissolved Solids
Data for Monitoring Well Cluster 6**

**Figure
E**





**Town of Oyster Bay
 Old Bethpage Landfill
 Historical Total Dissolved Solids
 Data for Wells LF-1, LF-2 & OBS-1**

**Figure
 E**



APPENDIX F

**PREVIOUSLY COLLECTED POST-TERMINATION
GROUNDWATER MONITORING DATA**

Table 1
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Volatile Organic Compounds

Sample ID	Sample Date	LF-1	LF-2	MW-5B	MW-6B	MW-6C	MW-6E	MW-6F	MW-8A	MW-8B	MW-9B	MW-9C	OBS-1
Units in ug/l		06/22/2017	06/20/2017	06/20/2017	06/21/2017	06/21/2017	06/21/2017	06/21/2017	06/22/2017	06/22/2017	06/20/2017	06/20/2017	06/20/2017
	NYSDEC Class GA Standard or Guidance Value												
VOLATILE COMPOUNDS													
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1.1 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1.1 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	1 U	1 U	0.71 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1.9 J	1 U	1.3	1 U	1 U	1 U	1 U	1 U	1.1
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3.8	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	1 U	1 U	1.2 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.6	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.7	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total Volatile Compounds	--	ND	ND	ND	6.01	ND	1.3	ND	11.1	ND	ND	ND	1.1

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- U Compound was analyzed for but not detected
- J Estimated value or limit
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Note that well MW-06A was dry and could not be sampled



Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Units in ug/l	Sample ID Sample Date Type:	LF-1	LF-1	LF-2	LF-2	MW-5B	MW-5B	MW-6B	MW-6B	MW-6C	MW-6C	MW-6E	MW-6E
		06/22/2017 Total	06/22/2017 Dissolved	06/20/2017 Total	06/20/2017 Dissolved	06/20/2017 Total	06/20/2017 Dissolved	06/21/2017 Total	06/21/2017 Dissolved	06/21/2017 Total	06/21/2017 Dissolved	06/21/2017 Total	06/21/2017 Dissolved
METALS	NYSDEC Class GA Standard or Guidance Value												
Aluminum	--	112 J	200 U	195 J	48.8 J	200 U	200 U	437	200 U	41.7 J	200 U	39.4 J	200 U
Barium	1000	368	8.9 J	56.9 J	42.9 J	55.3 J	31.6 J	59 J	37.6 J	43.7 J	21.9 J	196 J	151 J
Calcium	--	28900 J	24200	28800	21400	14600	12300	17300	13800	42400	34800	33800	27700
Chromium	50	10 U	10 U	7.6 J	2.9 J	4.7 J	10 U	4.9 UB	10 U	10 U	10 U	10 U	10 U
Copper	200	41.4 J	2.8 J	90.1	71.7	25 U	25 U	23.7 J	11.5 J	4.8 J	25 U	4.9 J	25 U
Iron	300	57400	100 U	1080	23 J	112	100 U	21800	53.1 J	26600	100 U	29300	610
Lead	25	5 U	5 U	370	32	4 UB	5 U	24.1	1.3 J	3.8 UB	5 U	2.9 UB	5 U
Magnesium	35000	17600	15000	11400	10000	6870	5900	13300	11100	10300	8670	15400	12900
Manganese	300	11200	11.3 UB	120 J	40.7	5760 J	5220	153 J	48	134 J	77.2	665 J	513
Mercury	0.7	0.087 UB	0.067 UB	0.1 UB	0.2 U	0.097 UB	0.10 UB	0.038 UB	0.067 UB	0.047 UB	0.066 UB	0.18 UB	0.066 UB
Nickel	100	8.2 J	2.1 J	12.7 J	9.7 J	4.3 J	3.1 J	17.6 J	13.2 J	7.6 UB	6.3 J	15.3 J	10 J
Potassium	--	9820	7540	148000	122000	12600	10200	88800	74200	26100	22400	33800	29000
Sodium	20000	61100	54500	450000	404000	64000	54900	250000	214000	203000	176000	184000	157000
Zinc	2000	509	7.9 UB	147	53.9	7 UB	5.7 UB	43.1	17.1 J	29.1	11 J	50.1	11.1 J

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- UB Non-detect based on blank results
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Note that well MW-06A was dry and could not be sampled

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Units in ug/l	Sample ID Sample Date Type:	MW-6F	MW-6F	MW-8A	MW-8A	MW-8B	MW-8B	MW-9B	MW-9B	MW-9C	MW-9C	OBS-1	OBS-1
		06/21/2017 Total	06/21/2017 Dissolved	06/22/2017 Total	06/22/2017 Dissolved	06/22/2017 Total	06/22/2017 Dissolved	06/20/2017 Total	06/20/2017 Dissolved	06/20/2017 Total	06/20/2017 Dissolved	06/20/2017 Total	06/20/2017 Dissolved
	NYSDEC Class GA Standard or Guidance Value												
METALS													
Aluminum	--	90.3 J	38.4 J	91 J	14 J	100 J	200 U	51 J	200 U	19.2 J	200 U	29.5 J	200 U
Barium	1000	201	172 J	69.5 J	62.2 J	109 J	92 J	94.4 J	88.2 J	36.2 J	30.9 J	91.1 J	73 J
Calcium	--	33700	27700	5940 J	5180	30200 J	27600	16500	13900	3760	3650	16900	16800
Chromium	50	3.3 UB	10 U	4.4 J	10 U	10.4	10 U	3.5 J	10 U	3.6 J	10 U	1.7 J	10 U
Copper	200	6.6 J	7.8 J	85.5 J	89.4	4.8 J	25 U	10.6 J	25 U	12.4 J	4.2 J	2.8 J	3.9 J
Iron	300	756	32.9 J	328	100 U	352	100 U	752	100 U	875	100 U	1390	100 U
Lead	25	7.1 UB	3 J	3.8 UB	4 J	7.7 UB	5 U	6.6 UB	5 U	8.1 UB	5 U	5.6 UB	5 U
Magnesium	35000	12400	10500	5850	5040	7770	6810	6100	5390	1900	2430	12000	12100
Manganese	300	141 J	120	162	155	647	540	2510 J	3090	77.8 J	60.8	3190 J	2950
Mercury	0.7	0.14 UB	0.2 U	0.07 UB	0.07 UB	0.094 UB	0.063 UB	0.1 UB	0.1 UB	0.098 UB	0.098 UB	0.14 UB	0.11 UB
Nickel	100	39.7 J	35.5 J	5.7 J	5.6 J	11.1 J	7.5 J	3.7 J	1.8 J	3 J	1.7 J	3.4 J	3.5 J
Potassium	--	7510	6450	14700	13400	9900	8770	8990	7100	2950 J	3080 J	18100	16700
Sodium	20000	111000	91600	29900	24100	125000	113000	63400	52600	12900	15800	68400	63200
Zinc	2000	1600	1400	302	386	32	25.1	17.8 J	5.6 UB	15.2 J	9.8 UB	33.4	9 UB

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- UB Non-detect based on blank results
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Note that well MW-06A was dry and could not be sampled

Table 3
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 06/22/2017	LF-2 06/20/2017	MW-5B 06/20/2017	MW-6B 06/21/2017	MW-6C 06/21/2017	MW-6E 06/21/2017	MW-6F 06/21/2017	MW-8A 06/22/2017	MW-8B 06/22/2017	MW-9B 06/20/2017	MW-9C 06/20/2017	OBS-1 06/20/2017
Units in mg/l													
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value												
Alkalinity, Total	---	112 J	466 J	30 J	905 J	331 J	177 J	3.6 J	7.2 J	45 J	34.4 J	12 J	144 J
Alkalinity,Bicarbonate	---	112	466 J	30 J	905 J	331 J	177 J	3.6 J	7.2	45	34.4 J	12 J	144 J
Alkalinity,Carbonate	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloride	250	75.8	488	97.2	306	206	346	248	65.4	249	88.7	39	96.3
Cyanide	0.2	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Hardness	---	190	120	70	120	176	152	180	40	104	72	19	100
Hexavalent Chromium	0.05	0.02 U	0.02 U	0.02 U	0.0064 J	0.023 J	0.014 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Nitrogen, Ammonia	2	0.026 UB	0.68 J	0.03 UB	116	16.2	31.9	0.42	0.021 UB	0.43	0.19 UB	0.59 J	8.4 J
Nitrogen, Kjeldahl, Total	---	0.65 J	3.2	0.1 U	114 J	12.4 J	30.2 J	0.1 UJ	0.1 UJ	0.65 J	0.35	0.9	9.1
Nitrate	10	5.5	5.6	5.6	0.091 J	0.034 J	1.7 J	3.3 J	4.5	0.63	4	0.75	0.19
Nitrite	1	0.05 U	0.045 J	0.068	0.05 U	0.05 U	0.05 U	0.022 UB	0.012 J	0.05 U	0.05 U	0.05 U	0.05 U
Phenolics, Total	0.001	0.0011 UB	0.0021 UB	0.0016 UB	0.017 UB	0.0135 UB	0.0049 UB	0.0034 UB	0.0011 UB	0.0029 UB	0.0025 UB	0.003 UB	0.0094 UB
Sulfate	250	45.4	40.8	18.8	1 J	42.4	20.9	0.48 J	37.9	35.3	19.9	10.6	27.8
Total Dissolved Solids	---	325	1420	264	1040	670	680	544	159	508	228	72	279

Footnotes/Qualifiers:

- mg/l Milligrams per liter
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Note that well MW-06A was dry and could not be sampled

Table 1
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Volatile Organic Compounds

Sample ID Sample Date		LF-1 09/21/17	LF-2 09/21/17	MW-5B 09/21/17	MW-6B 09/22/17	MW-6C 09/22/17	MW-6E 09/22/17	MW-6F 09/22/17	MW-8A 09/22/17	MW-8B 09/22/17	MW-9B 09/21/17	MW-9C 09/21/17	OBS-1 09/21/17
Units in ug/l													
VOLATILE COMPOUNDS													
	NYSDEC Class GA Standard or Guidance Value												
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1.3	1 U	1.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
1,2-Dichloropropane	1	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	3.3	1 U	3.8	1 U	1.0	1 U	1 U	1 U	1 U	1 U	1.2
Benzene	1	1 U	3.4	1 U	1.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	2.7	1 U	7.7	1 U	3.2	1 U	1 U	1 U	1 U	1 U	1.8
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	6.4	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	9.7	1 U	6.0	1 U	1.4	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.5	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.8	1 U	1 U	1.3	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	2 U	3.8	2 U	1.1 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total Volatile Compounds	--	ND	24.2	ND	21.6	ND	5.6	ND	14.7	ND	ND	1.3	3

Footnotes/Qualifiers:
 ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated value or limit
 -- No standard
 ND Not detected

Exceeds NYSDEC Class GA Standard or Guidance Value

Note that well MW-06A was dry and could not be sampled



Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		LF-1 09/21/17 Total	LF-1 09/21/17 Dissolved	LF-2 09/21/17 Total	LF-2 09/21/17 Dissolved	MW-5B 09/21/17 Total	MW-5B 09/21/17 Dissolved	MW-6B 09/22/17 Total	MW-6B 09/22/17 Dissolved	MW-6C 09/22/17 Total	MW-6C 09/22/17 Dissolved	MW-6E 09/22/17 Total	MW-6E 09/22/17 Dissolved
Units in ug/l													
NYSDEC Class GA Standard or Guidance Value													
METALS													
Aluminum	--	200 U	15.6 UB	38.5 J	200 U	16.4 J	200 U	159 J	14.2 UB	200 U	200 U	200 U	200 U
Barium	1000	83 J	72.8 J	56 J	55.7 J	40.2 J	36.6 J	55 J	51.2 J	24.6 J	23 J	208	192 J
Calcium	--	19000	17200	35700	34400	14000	12400	18200	17000	36600	34200	35900	33300
Chromium	50	10 U	10 U	12.2	13.5	10 U	10 U	3.6 J	2.2 J	10 U	10 U	10 U	10 U
Copper	200	25 U	3.3 J	25 U	25 U	25 U	25 U	2.8 J	25 U	25 U	25 U	25 U	4.4 J
Iron	300	22400	19500	8220	7840	200 U	20 U	12300	9140	3970	3580	21000	19100
Lead	25	2.3 J	5 U	2.1 J	5 U	1.8 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	16500	14800	24500	22900	6740	5980	12600	11900	8790	8420	16800	15900
Manganese	300	4340	4260	193	184	5030	5270	68.5	37.3	93.4	83.3	706	640
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	3.8 J	2.7 UB	20.8 J	19.6 J	2.2 J	2.5 UB	17.7 J	13.7 J	6.4 J	5.5 UB	15 J	12.2 J
Potassium	--	9790	10000	160000	162000	11200	11000	90200	91200	23400	24200	36300	36300
Sodium	20000	83400	86400	536000	535000	60700	63200	258000	274000	179000	189000	183000	190000
Zinc	2000	8.1 UB	3.1 UB	7.4 UB	2.3 UB	3.4 UB	1.7 UB	6.4 UB	1.6 UB	4.2 UB	20 UB	21.5 UB	16.7 UB

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- UB Non-detect based on blank results
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Note that well MW-06A was dry and could not be sampled

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		MW-6F 09/22/17 Total	MW-6F 09/22/17 Dissolved	MW-8A 09/22/17 Total	MW-8A 09/22/17 Dissolved	MW-8B 09/22/17 Total	MW-8B 09/22/17 Dissolved	MW-9B 09/21/17 Total	MW-9B 09/21/17 Dissolved	MW-9C 09/21/17 Total	MW-9C 09/21/17 Dissolved	OBS-1 09/21/17 Total	OBS-1 09/21/17 Dissolved
Units in ug/l													
	NYSDEC Class GA Standard or Guidance Value												
METALS													
Aluminum	--	166 J	162 UB	55.5 J	46.5 UB	26.2 J	32.3 UB	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	223	205	82.3 J	78.1 J	156 J	143 J	99 J	95.6 J	52.2 J	48.5 J	64.6 J	60.5 J
Calcium	--	37100	34500	9430	10300	24000	22300	15400	14400	7830	7100	24000	21700
Chromium	50	10 U	10 U	2.2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Copper	200	2.5 J	25 U	24.5 J	19.1 J	3.1 J	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300	63.2 UB	49.7 UB	64 UB	19.5 UB	19.6 UB	32.1 UB	200 U	20 U	20.5 UB	20 U	53.5 UB	51.9 UB
Lead	25	5 U	2.3 J	3.6 J	3.5 J	5 U	5 U	1.5 J	5 U	1.8 J	5 U	2 J	5 U
Magnesium	35000	14600	13800	6960	6950	8300	7850	6370	5840	9760	8800	16300	14700
Manganese	300	116	107	143	128	1110	1000	3380	3480	187	169	2780	2680
Mercury	0.7	0.11 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.092 J	0.07 J
Nickel	100	22.2 J	20.7 J	6.7 J	5.9 UB	21.5 J	20 J	40 U	1 UB	1.4 J	2 UB	3.4 J	3.4 UB
Potassium	--	7750	7870	12700	13200	10300	10600	8550	8800	10600	10400	24800	24400
Sodium	20000	132000	139000	35800	39000	151000	162000	57700	59500	63700	63300	72300	72400
Zinc	2000	47.4 UB	43.3 UB	114 UB	107 UB	63.2 UB	58 UB	2.6 UB	20 U	3.1 UB	1.3 UB	2.9 UB	20 U

Footnotes/Qualifiers:
 ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated detection limit or value
 UB Non-detect based on blank results
 -- No standard
Exceeds NYSDEC Class GA Standard or Guidance Value
 Note that well MW-06A was dry and could not be sampled



Table 3
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 09/21/17	LF-2 09/21/17	MW-5B 09/21/17	MW-6B 09/22/17	MW-6C 09/22/17	MW-6E 09/22/17	MW-6F 09/22/17	MW-8A 09/22/17	MW-8B 09/22/17	MW-9B 09/21/17	MW-9C 09/21/17	OBS-1 09/21/17
Units in mg/l													
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value												
Alkalinity, Total	---	124	1590	34.2	957	272	328	1 U	13.2	8.4	34.6	44	196
Alkalinity, Bicarbonate	---	124 J	--	34.2 J	--	272 J	328 J	--	13.2 J	8.4 J	34.6 J	44 J	196 J
Alkalinity, Carbonate	---	1 U	--	1 U	--	1 U	1 U	--	1 U	1 U	1 U	1 U	1 U
Chloride	250	138	633	125	344	238	380	388	81.1	360	117	126	123
Cyanide	0.2	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 U
Hardness	---	100	147	60	88	112	144	120	46	84	60	48	108
Hexavalent Chromium	0.05	0.1 U	0.1 U	0.02 U	0.1 U	0.1 U	0.1 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Nitrogen, Ammonia	2	0.83	192	0.22 UB	137 J	18.4	44.5	0.14 UB	0.018 UB	0.68 J	0.23 UB	1.3	20.4
Nitrogen, Kjeldahl, Total	---	1.7 J	192 J	1.2 J	146	16.1	41.2	0.1 U	0.17	2.4	0.1 U	1.4 J	18.9 J
Nitrate	10	0.037 UB	0.05 U	5.9	0.05 U	0.05 U	1.7 UB	4.1	3.3	1.8 UB	5.1	0.57 UB	0.24 UB
Nitrite	1	0.017 J	0.05 U	0.056	0.05 U	0.05 UJ	0.0096 J	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Phenolics, Total	0.001	0.0038 UB	0.0318	0.005 U	0.0405	0.0146	0.0065 UB	0.0016 UB	0.0011 UB	0.0034 UB	0.005 U	0.0016 UB	0.0087 UB
Sulfate	250	44.3	0.42 UB	23.9	0.61 UB	42.8	18.6	0.39 UB	33	27.3	21.6	21.7	45.2
Total Dissolved Solids	---	348	1900	241	882	608	682	628	178	560	213	210	323

Footnotes/Qualifiers:

- mg/l Milligrams per liter
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- UB Non-detect based on blank results
- No standard or not analyzed

Exceeds NYSDEC Class GA Standard or Guidance Value

Note that well MW-06A was dry and could not be sampled

Table 1. Summary of Second Quarter 2018 Field Parameter Results and Comparison to Standards

PARAMETER	UNITS	CLASS GA STANDARD	WELL NUMBER AND FIELD PARAMETER RESULTS					
			5B	6B	6C	6E	6F	8A
Temperature	°C	No Std.	15.6	17.4	17.8	17.8	16.7	14.6
pH	Units	6.5-8.5	6.10	7.14	6.84	6.99	4.76	4.38
Dissolved Oxygen	mg/L	No Std.	0.56	0.47	0.49	0.27	0.34	8.04
Conductivity	mS/cm	No Std.	0.544	2.390	1.280	2.490	0.900	0.185
Eh	pHmV	No Std.	34.5	-23.5	-7.5	-15.5	111	130
ORP	mV	No. Std.	128	-164	-37.5	-159	162	228
Turbidity	NTU	<5	1	159	16	30	2	0
Floaters or Sinkers	N/A	No Std.	None	None	None	None	None	None
Field Observations	N/A	No Std.	Clear, No Odor	Cloudy, Lt. Orange, Strong Odor	Sity. Cloudy, Moderate Odor	Sity. Cloudy, Foam, Strong Odor	Clear, No Odor	Clear, No Odor

PARAMETER	UNITS	CLASS GA STANDARD	WELL NUMBER AND FIELD PARAMETER RESULTS					
			8B	9B	9C	OBS-1	LF-1	LF-2
Temperature	°C	No Std.	14.3	14.5	14.8	15.9	17.5	18.1
pH	Units	6.5-8.5	5.76	5.92	5.72	5.78	6.70	7.27
Dissolved Oxygen	mg/L	No Std.	1.80	0.38	2.79	0.50	2.60	0.25
Conductivity	mS/cm	No Std.	0.880	0.491	0.370	0.519	0.610	3.530
Eh	pHmV	No Std.	52.2	44.2	55.3	52.4	0.90	-31.4
ORP	mV	No Std.	213	131	127	153	-71.6	-176
Turbidity	NTU	<5	1	1	3	1	4	0
Floaters or Sinkers	N/A	No Std.	None	None	None	None	None	None
Field Observations	N/A	No Std.	Clear, No Odor	Clear, No Odor	Clear, No Odor	Clear, No Odor	Clear, Odor	Foam, Strong Odor

Notes: Class GA Standards are the groundwater standards listed in 6NYCRR Part 703.5.

Bold values exceed Class GA standard.

°C = degrees Celsius.

mg/L = milligrams per Liter.

mS/cm = milliSiemens per centimeter.

pHmV = pH in milliVolts.

ORP = Oxidation-Reduction Potential

mV = milliVolts.

NTU = Nephelometric turbidity units.

N/A = Not applicable.

Table 2. Summary of Second Quarter 2018 VOC Results and Comparison to Standards

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND VOC RESULTS					
		MW-5B	MW-6B	MW-6C	MW-6E	MW-6F	MW-8A
Aromatic Hydrocarbons:							
Benzene	1	<1.0	2.0	<1.0	3.1	<1.0	<1.0
Chlorobenzene	5	<1.0	6.0	<1.0	9.4	<1.0	<1.0
1,2-Dichlorobenzene	3	<1.0	1.2	<1.0	1.1	<1.0	<1.0
1,4-Dichlorobenzene	3	<1.0	3.2	<1.0	3.9	<1.0	<1.0
Isopropylbenzene	5	<1.0	3.1	<1.0	2.9	<1.0	<1.0
Chlorinated Solvents:							
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	2.1
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	8.6
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	1.1

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND VOC RESULTS					
		MW-8B	MW-9B	MW-9C	OBS-1	LF-1	LF-2
Aromatic Hydrocarbons:							
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	1.7
Chlorobenzene	5	<1.0	<1.0	<1.0	1.8	<1.0	2.0
1,2-Dichlorobenzene	3	<1.0	<1.0	<1.0	<1.0	<1.0	1.0
1,4-Dichlorobenzene	3	<1.0	<1.0	<1.0	1.2	<1.0	2.4
Isopropylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	3.8
Chlorinated Solvents:							
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	1.2	<1.0	2.8	<1.0	<1.0	<1.0

Notes: Parameters listed are the VOCs that were detected in at least one groundwater sample.
 Class GA Standards are the groundwater standards listed in 6NYCRR Part 703.5.
 Results are in units of micrograms per Liter (ug/L).
 Bold results exceed Class GA standard.

Table 3. Summary of Second Quarter 2018 Leachate Indicator Parameter Results and Comparison to Standards

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND LEACHATE INDICATOR PARAMETER RESULT					
		5B	6B	6C	6E	6F	8A
Alkalinity	No Std.	24.0	696	316	742	4.0 J	2.0 J
Ammonia	2	0.16	97.1	18.0	101	0.49	0.25
Chloride	250	126	241	214	248	295	38.0
Cyanide	0.2	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate	10	6.6	<0.050	<0.050	0.094	2.8	1.8
Nitrite	1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate and Nitrite	10	6.6	<0.050	<0.050	0.1	2.8	1.8
Sulfate	250	27.0	4.3 J	49.2	5.9	0.33 J	19.0
Total Dissolved Solids	500 (SMCL)	231	862	595	856	397	94.0
Total Hardness	No Std.	60.0	136	112	128	120	34.0
Total Kjeldahl Nitrogen	No Std.	<0.10	137	23.4	115	0.69	0.10
Total Phenols	0.001	0.0033 J	0.0392	0.0141	0.0305	0.0018 J	<0.005

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND LEACHATE INDICATOR PARAMETER RESULT					
		8B	9B	9C	OBS-1	LF-1	LF-2
Alkalinity	No Std.	48.0	26.0	22.0	184	120	30.0
Ammonia	2	0.069 J	0.64	2.1	7.8	0.87	117
Chloride	250	232	115	96.5	103	78.2	476
Cyanide	0.2	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate	10	1.3	3.5	1.4	0.34	1.4	<0.050
Nitrite	1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate and Nitrite	10	1.3	3.5	1.4	0.3	1.4	<0.050
Sulfate	250	38.0	24.2	22.8	33.5	42.4	0.48 J
Total Dissolved Solids	500 (SMCL)	409	269	236	337	307	1,590
Total Hardness	No Std.	84.0	56.0	38.0	110	100	132
Total Kjeldahl Nitrogen	No Std.	0.69	0.72	4.0	14.8	4.5	150
Total Phenols	0.001	<0.005	<0.005	0.0048 J	0.0059	<0.005	0.0372

Notes: Standards are the Class GA groundwater standards listed in 6NYCRR Part 703.5, except for TDS. Standard for TDS is the more stringent federal secondary maximum contaminant level (SMCL). Results are in units of milligrams per Liter (mg/L). J = Estimated result above method detection limit but below reporting limit. Bold results exceed Class GA standard.

Table 4. Summary of Second Quarter 2018 Inorganic Parameter Results and Comparison to Standards

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND TOTAL INORGANIC PARAMETER RESULT					
		5B	6B	6C	6E	6F	8A
Aluminum	No. Std.	38.5 J	216	86.0 J	48.6 J	249	30.9 J
Barium	1,000	30.6 J	36.8 J	23.0 J	138 J	162 J	50.2 J
Calcium	No Std.	12,700	12,100	32,000	29,800	27,300	4,850
Chromium, Total	50	<10.0	4.9 J	2.8 J	<10.0	1.7 J	1.7 J
Chromium, Hexavalent	50	<20	<20	<20	<40	3.0 J	3.0 J
Copper	200	<25.0	<25.0	<25.0	<25.0	<25.0	4.2 J
Iron	300	55.9	10,600	5,730	54,600	693	19.0 J
Iron and Manganese	500	3,676	10,645	5,808	55,145	798	178 J
Lead	25	<5.0	2.9 J	3.2 J	<5.0	<5.0	1.3 J
Magnesium	No Std.	5,900	8,920	7,930	17,100	10,600	5,420
Manganese	300	3,620	45.1	78.4	545	105	159
Mercury	0.7	0.14 J	<0.20	<0.20	0.16 J	0.18 J	<0.20
Nickel	100	8.6 J	16.4 J	12.6 J	11.6 J	27.0 J	11.8 J
Potassium	No Std.	11,000	83,700	27,400	71,000	7,660	5,010
Sodium	20,000	57,600	205,000	163,000	198,000	96,300	11,900
Zinc	2,000 ^{GV}	1.3 J	11.6 J	63.0	8.1 J	140	36.2

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND TOTAL INORGANIC PARAMETER RESULT					
		8B	9B	9C	OBS-1	LF-1	LF-2
Aluminum	No. Std.	21.4 J	27.9 J	13.7 J	41.8 J	29.6 J	155 J
Barium	1,000	75.8 J	77.9 J	50.1 J	67.0 J	42.9 J	39.6 J
Calcium	No Std.	24,600	12,700	6,590	14,200	19,800	26,300
Chromium, Total	50	5.4 J	<10.0	<10.0	<10.0	<10.0	9.4 J
Chromium, Hexavalent	50	5.8 J	<20	3.7 J	<20	<20	<20
Copper	200	<25.0	<25.0	3.3 J	<25.0	<25.0	<25.0
Iron	300	56.2	39.6	93.1	104	8,360	6,730
Iron and Manganese	500	387	2,560	237	2,454	9,960	6,887
Lead	25	<5.0	3.6 J	<5.0	<5.0	<5.0	<5.0
Magnesium	No Std.	6,170	5,890	5,940	9,680	14,100	18,000
Manganese	300	331	2,520	144	2,350	1,600	157
Mercury	0.7	<0.20	<0.20	0.28	<0.20	0.15 J	0.13 J
Nickel	100	10.2 J	4.4 J	5.7 J	5.6 J	9.2 J	17.1 J
Potassium	No Std.	8,820	8,460	8,950	12,400	10,800	123,000
Sodium	20,000	107,000	51,500	45,000	50,700	61,900	400,000
Zinc	2,000 ^{GV}	16.6 J	2.5 J	3.4 J	1.5 J	5.6 J	2.8 J

Notes: Class GA Standards are the groundwater standards listed in 6NYCRR Part 703.5.
 GV = Guidance Value, there is no Class GA standard for this parameter.
 Results are in units of micrograms per Liter (ug/L).
 J = Estimated result above method detection limit but below reporting limit.
 Bold results exceed Class GA standard.

Table 1. Summary of Fourth Quarter 2018 Field Parameter Results and Comparison to Standards

PARAMETER	UNITS	CLASS GA STANDARD	WELL NUMBER AND FIELD PARAMETER RESULTS					
			5B	6B	6C	6E	6F	8A
Temperature	°C	No Std.	15.5	17.6	17.6	17.7	16.5	13.5
pH	Units	6.5-8.5	6.33	7.32	7.35	6.92	4.82	4.97
Dissolved Oxygen	mg/L	No Std.	0.59	0.37	0.31	0.38	0.67	8.25
Conductivity	mS/cm	No Std.	0.507	2.238	1.831	1.977	1.006	0.136
Eh	pHmV	No Std.	524	-34.8	-36.5	-11.6	109	99.8
ORP	mV	No. Std.	153	-109	-86.1	-97	193	161
Turbidity	NTU	<5	2.7	32.2	1.6	108	4.2	4.6
Floaters or Sinkers	N/A	No Std.	None	None	None	None	None	None
Field Observations	N/A	No Std.	Clear, No Odor	Cloudy, Strong Sulfur Odor	Sltly. Cloudy, Moderate Sulfur Odor	Sltly. Cloudy, Foam, Strong Sulfur Odor	Clear, No Odor	Clear, No Odor

PARAMETER	UNITS	CLASS GA STANDARD	WELL NUMBER AND FIELD PARAMETER RESULTS					
			8B	9B	9C	OBS-1	LF-1	LF-2
Temperature	°C	No Std.	13.8	14.8	15.3	16.1	16.3	16.8
pH	Units	6.5-8.5	4.13	6.19	N/A	6.62	7.00	7.43
Dissolved Oxygen	mg/L	No Std.	0.36	0.52	0.40	0.46	0.56	0.58
Conductivity	mS/cm	No Std.	1.160	0.464	0.492	0.747	0.634	3.170
Eh	pHmV	No Std.	147	29.9	524	5.7	-16.10	-41.5
ORP	mV	No Std.	254	154	972	112	-81.8	-138
Turbidity	NTU	<5	4.6	0.29	1.2	0.47	1.8	2.3
Floaters or Sinkers	N/A	No Std.	None	None	None	None	None	None
Field Observations	N/A	No Std.	Clear, No Odor	Clear, No Odor	Clear, No Odor	Clear, No Odor	Clear, Odor	Light Yellow, Strong Odor

Notes: Class GA Standards are the groundwater standards listed in 6NYCRR Part 703.5.

Bold values exceed Class GA standard.

°C = degrees Celsius.

mg/L = milligrams per Liter.

mS/cm = milliSiemens per centimeter.

pHmV = pH in millivolts.

ORP = Oxidation-Reduction Potential

mV = millivolts.

NTU = Nephelometric turbidity units.

N/A = Not applicable.

Table 2. Summary of Fourth Quarter 2018 VOC Results and Comparison to Standards

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND VOC RESULTS					
		MW-5B	MW-6B	MW-6C	MW-6E	MW-6F	MW-8A
Aromatic Hydrocarbons:							
Benzene	1	<1.0	1.0	0.94 J	0.95 J	<1.0	<1.0
Chlorobenzene	5	<1.0	3.6	2.4	3.9	<1.0	<1.0
1,4-Dichlorobenzene	3	<1.0	1.8	1.5	1.3	<1.0	<1.0
Isopropylbenzene	5	<1.0	2.4	1.8	0.87 J	<1.0	<1.0
Chlorinated Solvents:							
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	1.1
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	2.8
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND VOC RESULTS					
		MW-8B	MW-9B	MW-9C	OBS-1	LF-1	LF-2
Aromatic Hydrocarbons:							
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	1.2
Chlorobenzene	5	<1.0	<1.0	<1.0	0.96 J	<1.0	0.98 J
1,4-Dichlorobenzene	3	<1.0	<1.0	<1.0	<1.0	<1.0	1.1
Isopropylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	2.3
Chlorinated Solvents:							
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	2.1	2.4	<1.0	<1.0	<1.0

Notes: Parameters listed are the VOCs that were detected in at least one groundwater sample.
 Class GA Standards are the potable groundwater standards listed in 6NYCRR Part 703.5.
 Results are in units of micrograms per Liter (ug/L).
 Bold results exceed Class GA standard.

Table 3. Summary of Fourth Quarter 2018 Leachate Indicator Parameter Results and Comparison to Standards

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND LEACHATE INDICATOR PARAMETER RESULT					
		5B	6B	6C	6E	6F	8A
Alkalinity	No Std.	31.3	763	741	426	0.63 J	1.3
Ammonia	2	0.024 J	117	97.3	6.6	0.20	0.14
Chloride	250	137	296	288	404	376	37.6
Cyanide	0.2	<0.010	0.003 J	<0.010	<0.010	<0.010	<0.010
Nitrate	10	4.4	<0.050	<0.050	1.1	3.4	1.2
Nitrite	1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate and Nitrite	10	4.4	<0.050	<0.050	1.1	3.4	1.2
Sulfate	250	27.3	0.69 J	4.7 J	23.8	<5	11.2
Total Dissolved Solids	500 (SMCL)	267	848	812	732	568	73.0
Total Hardness	No Std.	58.0	72.0	100	148	140	24.0
Total Kjeldahl Nitrogen	No Std.	<0.10	129	107	68.0	<0.10	<0.10
Total Phenols	0.001	0.0018 J	0.0295	0.0346	0.0161	<0.005	<0.005

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND LEACHATE INDICATOR PARAMETER RESULT					
		8B	9B	9C	OBS-1	LF-1	LF-2
Alkalinity	No Std.	10.3	29.0	39.0	191	122	1,160
Ammonia	2	0.17	0.42	3.7	40.4	10	12.3
Chloride	250	130	126	128	124	118	461
Cyanide	0.2	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate	10	1.1	3.3	1.8	0.39	<0.050	<0.050
Nitrite	1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate and Nitrite	10	1.1	3.3	1.8	0.39	<0.050	<0.050
Sulfate	250	32.2	23.2	22.7	35.6	43.9	8.5
Total Dissolved Solids	500 (SMCL)	538	240	240	312	282	1,540
Total Hardness	No Std.	80.0	56.0	57.0	99.0	88.0	130
Total Kjeldahl Nitrogen	No Std.	0.33	<0.10	3.1	20.7	10.5	136
Total Phenols	0.001	<0.005	<0.005	0.0048 J	0.0069	0.0079	0.0213

Notes: Standards are the Class GA groundwater standards listed in 6NYCRR Part 703.5, except for TDS. Standard for TDS is the more stringent federal secondary maximum contaminant level (SMCL). Results are in units of milligrams per Liter (mg/L). J = Estimated result above method detection limit but below reporting limit. Bold results exceed Class GA standard or SMCL.

Table 4. Summary of Fourth Quarter 2018 Inorganic Parameter Results and Comparison to Standards

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND TOTAL INORGANIC PARAMETER RESULT					
		5B	6B	6C	6E	6F	8A
Aluminum	No. Std.	15.4 J	166 J	24.5 J	37.0 J	229	35.7 J
Barium	1,000	32.6 J	42.4 J	23.0 J	194 J	202	41.4 J
Calcium	No Std.	13,300	14,300	24,300	35,800	35,500	4,040
Chromium, Total	50	<10.0	1.8 J	<10.0	<10.0	<10.0	<10.0
Chromium, Hexavalent	50	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Copper	200	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Iron	300	14.5 J	10,300	3,140	27,600	500	<100
Iron and Manganese	500	3,875 J	10,350	3,195	28,045	618	65.1
Lead	25	1.4 J	3.7 J	<5.0	1.3 J	1.5 J	<5.0
Magnesium	No Std.	6,060	10,500	9,910	17,500	13,700	4,600
Manganese	300	3,860	50.0	55.4	445	118	65.1
Mercury	0.7	0.14 J	<0.20	<0.20	0.21	0.19 J	<0.20
Nickel	100	5.8 J	13.0 J	11.2 J	12.0 J	26.5 J	8.2 J
Potassium	No Std.	10,300	92,800	76,200	49,400	7,120	3,260 J
Sodium	20,000	63,600	250,000	243,000	203,000	121,000	10,800
Zinc	2,000 ^{GV}	4.5 J	9.5 J	5.4 J	18.1 J	63.9	38.8

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND TOTAL INORGANIC PARAMETER RESULT					
		8B	9B	9C	OBS-1	LF-1	LF-2
Aluminum	No. Std.	52.3 J	14.0 J	15.9 J	14.1 J	13.8 J	27.6 J
Barium	1,000	144 J	91.0 J	53.7 J	48.3 J	75.8 J	41.2 J
Calcium	No Std.	26,300	13,700	7,840	17,100	17,200	26,700
Chromium, Total	50	<10.0	<10.0	<10.0	<10.0	<10.0	6.7 J
Chromium, Hexavalent	50	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Copper	200	<25.0	<25.0	<25.0	<25.0	4.5 J	<25.0
Iron	300	23.1 J	<100	21.0 J	74.6 J	13,000	6,490
Iron and Manganese	500	1,173 J	2,430	195	2,625 J	15,590	6,628
Lead	25	<5.0	<5.0	<5.0	2.0 J	<5.0	3.1 J
Magnesium	No Std.	8,710	5,910	7,120	13,800	13,500	17,500
Manganese	300	1,150	2,430	174	2,550	2,590	138
Mercury	0.7	<0.20	<0.20	<0.20	0.18 J	<0.20	<0.20
Nickel	100	24.4 J	2.5 J	4.0 J	3.9 J	7.3 J	13.6 J
Potassium	No Std.	10,700	8,110	12,400	24,700	13,300	125,000
Sodium	20,000	160,000	59,000	65,000	69,100	66,100	450,000
Zinc	2,000 ^{GV}	59.0	5.7 J	6.4 J	5.4 J	5.5 J	5.3 J

Notes: Class GA Standards are the potable groundwater standards listed in 6NYCRR Part 703.5.
 GV = Guidance Value from NYSDEC TOGS 1.1.1, there is no Class GA standard for this parameter.
 Results are in units of micrograms per Liter (ug/L).
 J = Estimated result above method detection limit but below reporting limit.
 Bold results exceed Class GA standard.

Table 5. Summary of Fourth Quarter 2018 Dissolved Inorganic Parameter Results and Comparison to Standards

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND DISSOLVED INORGANIC PARAMETER RESULT					
		5B	6B	6C	6E	6F	8A
Aluminum	No. Std.	<200	102 J	16.7 J	22.5 J	180 J	32.6 J
Barium	1,000	30.6 J	34.8 J	19.5 J	165 J	198 J	39.9 J
Calcium	No Std.	13,200	13,000	23,200	34,400	34,900	3,930
Chromium, Total	50	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Chromium, Hexavalent	50	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Copper	200	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Iron	300	<20.0	1,570	271	4,440	395	<20.0
Iron and Manganese	500	3,740	1,593	321	4,844	510	62.6
Lead	25	1.6 J	<5.0	<5.0	<5.0	<5.0	2.5 J
Magnesium	No Std.	5,960	9,560	9,400	16,800	13,400	4,480
Manganese	300	3,740	23.2	49.5	404	115	62.6
Mercury	0.7	<0.20	<0.20	<0.20	<0.20	0.16 J	<0.20
Nickel	100	6.0 J	9.6 J	10.9 J	10.8 J	26.1 J	7.7 J
Potassium	No Std.	9,960	87,000	74,000	48,000	7,080	3,210 J
Sodium	20,000	61,100	232,000	234,000	199,000	116,000	9,880
Zinc	2,000 ^{GV}	2.8 J	3.5 J	3.3 J	4.7 J	60.1	39.4

PARAMETER	CLASS GA STANDARD	WELL NUMBER AND DISSOLVED INORGANIC PARAMETER RESULT					
		8B	9B	9C	OBS-1	LF-1	LF-2
Aluminum	No. Std.	49.5 J	<200	<200	15.0 J	<200	29.8 J
Barium	1,000	138 J	87.8 J	51.0 J	47.2 J	68.9 J	34.8 J
Calcium	No Std.	25,200	13,300	7,500	16,700	16,200	25,400
Chromium, Total	50	<10.0	<10.0	<10.0	<10.0	<10.0	6.3 J
Chromium, Hexavalent	50	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Copper	200	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Iron	300	13.9 J	<20.0	<20.0	49.5	6,040	3,010
Iron and Manganese	500	1,094 J	2,350	167	2,580	8,510	3,139
Lead	25	<5.0	1.8 J	<5.0	<5.0	1.8 J	<5.0
Magnesium	No Std.	8,310	5,730	6,770	13,400	12,800	16,400
Manganese	300	1,080	2,350	167	2,530	2,470	129
Mercury	0.7	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	100	22.9 J	<40.0	2.9 J	4.8 J	5.5 J	14.2 J
Potassium	No Std.	10,300	7,880	11,900	23,800	12,800	121,000
Sodium	20,000	155,000	56,900	62,200	66,500	63,800	437,000
Zinc	2,000 ^{GV}	53.4	3.2 J	3.7 J	2.9 J	5.3 J	3.5 J

Notes: Class GA Standards are the potable groundwater standards listed in 6NYCRR Part 703.5.
 GV = Guidance Value from NYSDEC TOGS 1.1.1, there is no Class GA standard for this parameter.
 Results are in units of micrograms per Liter (ug/L).
 J = Estimated result above method detection limit but below reporting limit.
 Bold results exceed Class GA standard.

Table 1
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Volatile Organic Compounds

Sample ID		LF-1	LF-2	MW-05B	MW-06A	MW-06B	MW-06C	MW-06E	MW-06F	MW-08A	MW-08B	MW-09B	MW-09C	OBS-1
Sample Date		05/24/19	05/23/19	05/22/19	05/23/19	05/23/19	05/23/19	05/23/19	05/23/19	05/22/19	05/22/19	05/22/19	05/22/19	05/22/19
Units in ug/l														
NYSDEC Class GA Standard or Guidance Value														
VOLATILE COMPOUNDS														
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1.6	1 U	1 U	2.4	1.3	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	2.3	1 U	1 U	2.1	0.92 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1.2	1 U	1 U	5.4	2.3	2.2	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	5	1 U	1 U	2.7	1.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.2	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	1 U	1 U	1 U	1.2	1 U	1 U	1 U	1 U	1.9	1 U	1.1	3.2	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Total Volatile Compounds	--	ND	10.1	ND	1.2	12.6	5.9	2.2	ND	14.1	ND	1.1	3.2	ND

Footnotes/Qualifiers:
 ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated value or limit
 -- No standard
 ND Not detected

Exceeds NYSDEC Class GA Standard or Guidance Value



Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		LF-1 05/24/19 Total	LF-1 05/24/19 Dissolved	LF-2 05/23/19 Total	LF-2 05/23/19 Dissolved	MW-5B 05/22/19 Total	MW-5B 05/22/19 Dissolved	MW-6A 05/23/19 Total	MW-6A 05/23/19 Dissolved	MW-6B 05/23/19 Total	MW-6B 05/23/19 Dissolved	MW-6C 05/23/19 Total	MW-6C 05/23/19 Dissolved	MW-6E 05/23/19 Total
Units in ug/l														
METALS	NYSDEC Class GA Standard or Guidance Value													
Aluminum	--	200 U	200 UJ	200 U	200 UJ	200 U	200 UJ	200 U	200 UJ	200 U	200 UJ	200 U	200 UJ	200 U
Barium	1000	71.2 J	69 J	47 J	45.8 J	38 J	36.9 J	50.1 J	46.7 J	53.3 J	50.9 J	46.7 J	21.6 J	212
Calcium	-	13100	13000	29800	29100	13000	12700	3130	3000	18000	17200	52700	24500	33300
Chromium	50	10 U	10 U	13.8	5.8 J	3 J	10 U	3.7 J	10 U	7.7 J	10 U	3.8 J	10 U	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	9520	8970 J	7280	7180 J	25.4 UB	20 UJ	29.4 UB	13.2 J	10800	9570 J	6700	3070 J	16200
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	10100	9990	20400	19500	5810	5660	3110	2930	14500	13600	21000	9730	15500
Manganese	300 #	1930	1870	162	151	3690	3530	21.4	17.4	53.3	47.2	131	51.3	479
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.03 J	0.2 U	0.07 J	0.2 U	0.2 U	0.2 U	0.04 J	0.2 U	0.03 J	0.2 U
Nickel	100	8.1 J	7.6 J	18.9 J	15.2 J	9.7 J	6.9 J	9.4 J	7.5 J	11.9 J	7.2 J	23 J	9.6 J	15.2 J
Potassium	-	16800	16000	132000	128000	11300	10800	3580 J	3200 J	92200	87000	139000	63000	39200
Sodium	20000	59700	58700	420000	411000	62900	61200	17600	16100	217000	207000	429000	207000	168000
Zinc	2000	20 U	20 U	20 U	20 U	20 U	20 U	12 J	8.7 J	20 U	20 U	20 U	20 U	16.4 J

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- # Standard for total iron and manganese is 500 ug/l
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- UB Non-detect based on blank results
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		MW-6E 05/23/19 Dissolved	MW-6F 05/23/19 Total	MW-6F 05/23/19 Dissolved	MW-8A 05/22/19 Total	MW-8A 05/22/19 Dissolved	MW-8B 05/22/19 Total	MW-8B 05/22/19 Dissolved	MW-9B 05/22/19 Total	MW-9B 05/22/19 Dissolved	MW-9C 05/22/19 Total	MW-9C 05/22/19 Dissolved	OBS-1 05/22/19 Total	OBS-1 05/22/19 Dissolved
Units in ug/l														
METALS	NYSDEC Class GA Standard or Guidance Value													
Aluminum	--	200 UJ	155 J	139 J	200 U	200 UJ	200 U	200 UJ	200 U	200 UJ	200 U	200 UJ	200 U	200 UJ
Barium	1000	210	212	203	55.8 J	55.7 J	141 J	141 J	80.4 J	77.2 J	53.7 J	51.8 J	50.6 J	49.3 J
Calcium	--	33300	36900	35400	12500	12600	23100	23400	11700	11700	7910	7660	16900	16600
Chromium	50	10 U	4 J	10 U	6.1 J	10 U	4 J	10 U	3.9 J	10 U	5.1 J	10 U	3 J	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	5.3 J	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	16000 J	137	99.6 J	48.6 UB	6 J	32.6 UB	8 J	38.2 UB	12.9 J	35.7 UB	20 UJ	65.5 UB	39.8 J
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	15400	14500	13900	5110	5210	7890	7980	5040	5040	8750	8480	13200	13000
Manganese	300 #	497	119	107	75.1	66.4	1120	1110	2630	2440	156	140	2430	2330
Mercury	0.7	0.2 U	0.21	0.1 J	0.2 U	0.07 J	0.2 U	0.13 J	0.2 U	0.05 J	0.2 U	0.06 J	0.2 U	0.05 J
Nickel	100	13.4 J	28.9 J	25.9 J	9.3 J	6 J	27.9 J	25.5 J	5.5 J	40 U	6.6 J	4.9 J	6.5 J	40 U
Potassium	--	38500	8570	8400	6420	6290	10800	10600	8580	8500	12000	11500	24500	23600
Sodium	20000	166000	127000	123000	41700	42000	150000	151000	52700	52300	65100	62900	62100	60500
Zinc	2000	15.1 J	29.3	27.1	17.7 J	16.9 J	66	65.9	12.6 J	10.5 J	20 U	20 U	20 U	20 U

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- # Standard for total iron and manganese is 500 ug/l
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- UB Non-detect based on blank results
- No standard

~~Exceeds NYSDEC Class GA Standard or Guidance Value~~

Table 3
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 05/24/19	LF-2 05/23/19	MW-05B 05/22/19	MW-06A 05/23/19	MW-06B 05/23/19	MW-06C 05/23/19	MW-06E 05/23/19	MW-06F 05/23/19	MW-08A 05/22/19	MW-08B 05/22/19	MW-09B 05/22/19	MW-09C 06/22/19
Units in mg/l													
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value												
Alkalinity, Total	—	117	1230	30.3	2.5	808	620	217	1.0 U	21.6	4.1	30.3	38.9
Alkalinity,Bicarbonate	—	117	1230	30.3	2.5	808	620	217	1.0 U	21.6	4.1	30.3	38.9
Alkalinity,Carbonate	—	1.0 U	1230	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloride	250	76.2	383	94.8	20.5	231	228	325	374	47.4	254	76.9	102
Cyanide	0.2	0.01 U	0.01 U	0.01 U	0.01 U	0.004 J	0.0036 J	0.0036 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Hardness	--	25.0	100	53.3	14.0	80.0	70.0	80.0	120	40.0	85.0	46.7	43.3
Hexavalent Chromium	0.05	0.020 UJ	0.10 U	0.020 U	0.020 U	0.10 U	0.10 U	0.10 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Nitrogen, Ammonia	2	11.7	145	0.10 U	1.1	96.5	88.5	36.0	3.3	0.72	0.32 UB	1.7	2.2
Nitrogen, Kjeldahl, Total	—	11.2 J	131	0.10 U	0.77	137	128	37.2	0.58	0.18	0.15	0.86	2.0
Nitrate	10	0.47	0.050 UJ	4.7	1.5 J	0.050 UJ	0.050 UJ	2.3 J	3.6	2.3	1.1	4.6	2.3
Nitrite	1	0.050 U	0.050 U	0.13 J	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Phenolics, Total	0.001	0.010 U	0.010 U	0.010 U	0.011	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sulfate	250	36.6	5.0 U	24.3	13.3	5.0 U	4.7 J	24.7	5.0 U	27.9	31.6	20.7	21.4
Total Dissolved Solids	—	400 J	1690 J	362 J	224 J	996 J	896 J	1100 J	666 J	179 J	718 J	308 J	310 J

Footnotes/Qualifiers:
 mg/l Milligrams per liter
 U Compound was analyzed for but not detected
 J Estimated detection limit or value
 UB Non-detect based on blank results
 -- No standard or not analyzed
Exceeds NYSDEC Class GA Standard or Guidance Value

Table 3
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Leachate Indicator Parameters

Sample ID Sample Date		OBS-1 05/22/19
Units in mg/l		
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value	
Alkalinity, Total	—	186
Alkalinity,Bicarbonate	—	186
Alkalinity,Carbonate	—	1.0 U
Chloride	250	77.3
Cyanide	0.2	0.01 U
Hardness	—	85.0
Hexavalent Chromium	0.05	0.020 U
Nitrogen, Ammonia	2	19.7
Nitrogen, Kjeldahl, Total	—	18.0
Nitrate	10	0.42
Nitrite	1	0.050 U
Phenolics, Total	0.001	0.010 U
Sulfate	250	32.0
Total Dissolved Solids	—	498 J

Table 1
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Volatile Organic Compounds

Sample ID Sample Date		LF-1 08/28/19	LF-2 08/28/19	MW-05B 08/26/19	MW-06A 08/27/19	MW-06B 08/27/19	MW-06C 08/27/19	MW-06E 08/27/19	MW-06F 08/27/19
Units In ug/l									
VOLATILE COMPOUNDS									
	NYSDEC Class GA Standard or Guidance Value								
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	2.3	1 U	1 U	2.7	2.1	1.1	1 U
Benzene	1	1 U	2.8 J	1 U	1 U	1.7	1.5	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1.4	1 U	1 U	5.7	4.2	2.1	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	1 U	1 U	1 U	2.1	2	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	1 U	1 U	1.8	1.2	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Total Volatile Compounds	--	ND	6.5	1.8	1.2	12.2	9.8	3.2	ND

Footnotes/Qualifiers:
 ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated value or limit
 -- No standard
 ND Not detected

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 1
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Volatile Organic Compounds

Sample ID Sample Date		MW-08A 08/26/19	MW-08B 08/26/19	MW-09B 08/26/19	MW-09C 08/26/19	OBS-1 08/26/19
Units in ug/l						
	NYSDEC Class GA Standard or Guidance Value					
VOLATILE COMPOUNDS						
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	15.5	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	3.5	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	2.5	1 U	2.9	2.1	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	3 U	3 U	3 U	3 U	3 U
Total Volatile Compounds	--	21.5	ND	2.9	2.1	ND

Footnotes/Qualifiers:

ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated value or limit
 -- No standard
 ND Not detected

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Units in ug/l	Sample ID Sample Date Type:	LF-1 08/28/19		LF-2 08/28/19		MW-05B 08/26/19		MW-06A 08/27/19		MW-06B 08/27/19		MW-06C 08/27/19	
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
METALS	NYSDEC Class GA Standard or Guidance Value												
Aluminum	--	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	74.1 J	79.7 J	47.3 J	49.2 J	37.1 J	39.6 J	31.5 J	33.4 J	51.2 J	53.4 J	22.2 J	23.2 J
Calcium	--	11300	12100	31600	32300	13000	13800	2040	2130	18000	18500	20300	20800
Chromium	50	10 U	10 U	9.6 J	9 J	10 U	10 U	1.5 J	10 U	10 U	10 U	10 U	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300*	11000	11500	7400	7540	100 U	20 U	151 UB	146	10500	10600	3490	3520
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	9330	9930	21300	21500	5670	6050	2080	2160	14500	14700	12600	12800
Manganese	300*	2120	2240	157	160	3410	3610	22.8	21.7	46.6	45.8	51.7	52.6
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	6.6 J	7.5 J	17 J	17.1 J	6.6 J	8 J	6.8 J	7.8 J	6.8 J	7.5 J	11.4 J	12.1 J
Potassium	--	16300	17500	133000	145000	11200	12100	2460 J	2680 J	89200	95800	81500	87500
Sodium	20000	53900	59100	424000	451000	61000	65900	12500	13400	201000	214000	233000	248000
Zinc	2000	20 U	20 U	20 U	20 U	20 U	20 U	20 UB	20 UB	20 U	20 U	20 U	20 U

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- UB Non-detect based on blank results
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

* Iron and magnesium sum is 500

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		MW-06E 08/27/19		MW-06F 08/27/19		MW-08A 08/26/19		MW-08B 08/26/19		MW-09B 08/26/19		MW-09C 08/26/19	
Units in ug/l		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
METALS	NYSDEC Class GA Standard or Guidance Value												
Aluminum	--	200 U	200 U	138 J	145 J	200 U	200 U	200 U	100 J	200 U	200 U	200 U	200 U
Barium	1000	207	228	207	227	52 J	53.7 J	123 J	130 J	98.3 J	107 J	57 J	62.3 J
Calcium	--	32100	34900	36200	39200	11900	12000	24600	26000	14000	15100	8630	9290
Chromium	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Copper	200	6.7 J	25 U	7.1 J	12.2 J	25 U	25 U	5.6 J	25 U	25 U	25 U	25 U	25 U
Iron	300*	17800	19000	100 UB	100	100 U	20 U	100 UB	77.1	100 U	20 UB	100 UB	20 U
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	15000	16200	14100	15300	4730	4840	7790	8200	5800	6290	9050	9780
Manganese	300*	438	475	122	120	82.8	66.6	1050	1100	3340	3560	181	195
Mercury	0.7	0.2 U	0.2 U	0.32	0.2 U	0.2 U	0.11 J	0.11 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	14.1 J	15.5 J	26.6 J	29.9 J	6.4 J	7.1 J	20.8 J	21.8 J	40 U	40 U	4.5 J	5.8 J
Potassium	--	36200	40500	8790	9510	5780	6030	11500	12300	9830	10900	11800	13200
Sodium	20000	163000	183000	125000	139000	33800	35200	148000	158000	54100	59600	82600	69200
Zinc	2000	20 UB	20 UB	26.8 UB	29.2 UB	20 UB	20 UB	50.1	51.3 UB	20 U	20 U	20 U	20 U

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- UB Non-detect based on blank results
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

* Iron and magnesium sum is 500

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		OBS-1 08/26/19	
		Total	Dissolved
Units in ug/l			
	NYSDEC Class GA Standard or Guidance Value		
METALS			
Aluminum	--	200 U	168 J
Barium	1000	51.8 J	89.1 J
Calcium	--	17500	18600
Chromium	50	10 U	10 U
Copper	200	25 U	25 U
Iron	300*	100 UB	62.8 UB
Lead	25	5 U	5 U
Magnesium	35000	13500	14200
Manganese	300*	2620	2770
Mercury	0.7	0.2 U	0.2 U
Nickel	100	40 U	5.2 J
Potassium	--	23200	24900
Sodium	20000	58000	62900
Zinc	2000	20 U	20 UB

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- UB Non-detect based on blank results
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

* Iron and magnesium sum is 500

Table 3
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 08/28/19	LF-2 08/28/19	MW-05B 08/26/19	MW-06A 08/27/19	MW-06B 08/27/19	MW-06C 08/27/19	MW-06E 08/27/19	MW-06F 08/27/19	MW-06A 08/26/19	MW-06B 08/26/19
Units in mg/l											
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value										
Alkalinity, Total	--	109	1170	26.3 J	4.1 J	726 J	691 J	172 J	1 U	12.8 J	10.6 J
Alkalinity,Bicarbonate	--	109	1170	26.3 J	4.1 J	726 J	691 J	172 J	1 U	12.8 J	10.6 J
Alkalinity,Carbonate	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloride	250	59.1	403	89.7	18.5	225	297	339	316	58.6	290
Cyanide	0.2	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Hardness	--	70.0	140	45.0	10.0	100	93.3	200	133	40.0	73.3
Hexavalent Chromium	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.1 U	0.1 U	0.02 U	0.02 U	0.02 U	0.02 U
Nitrogen, Ammonia	2	11.9	147	0.1 UB	0.55	179	111	33.4	0.16 UB	0.1 U	0.1 UB
Nitrogen, Kjeldahl, Total	--	12.6 J	137 J	0.1 UJ	1.2 J	111 J	98.6 J	34.6 J	1.1 J	0.076 UJB	0.057 UJB
Nitrate	10	0.05 U	0.05 U	5.0	0.85	0.05 UJ	0.05 UJ	2.3 J	3.7	1.8	1.4
Nitrite	1	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 U
Phenolics, Total	0.001	0.005 UB	0.005 UB	0.005 U	0.0167	0.005 UB	0.005 U	0.005 UB	0.005 U	0.005 U	0.005 U
Sulfate	250	45.7	5 U	28.8	14.2	5 U	5.8	41.1	5 U	36.1	38.0
Total Dissolved Solids	--	250	1600	232	62.0 J	786 J	910 J	678 J	614 J	160	520

Footnotes/Qualifiers:
 mg/l Milligrams per liter
 U Compound was analyzed for but not detected
 J Estimated detection limit or value
 UB Non-detect based on blank results
 -- No standard or not analyzed

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 3
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Leachate Indicator Parameters

Sample ID Sample Date		MW-09B 08/26/19	MW-09C 08/26/19	OBS-1 08/26/19
Units in mg/l				
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value			
Alkalinity, Total	—	27.4 J	42.8 J	153 J
Alkalinity,Bicarbonate	—	27.4 J	42.8 J	153 J
Alkalinity,Carbonate	—	1 U	1 U	1 U
Chloride	250	88.8	92.8	82.4
Cyanide	0.2	0.01 U	0.01 U	0.01 U
Hardness	—	50.0	45.0	86.7
Hexavalent Chromium	0.05	0.02 U	0.02 U	0.02 U
Nitrogen, Ammonia	2	0.45	1.4	16.9
Nitrogen, Kjeldahl, Total	—	0.45 UJB	1.4 J	15.6 J
Nitrate	10	3.8	0.42	0.52
Nitrite	1	0.05 U	0.05 U	0.05 U
Phenolics, Total	0.001	0.005 U	0.005 U	0.005 U
Sulfate	250	23.3	26.1	40.2
Total Dissolved Solids	—	206	240	292

Footnotes/Qualifiers:

- mg/l Milligrams per liter
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- UB Non-detect based on blank results
- No standard or not analyzed

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 1
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Volatile Organic Compounds

Sample ID Sample Date		LF-1 5/20/20	LF-2 5/20/20	MW_05B 5/18/20	MW_06A 5/19/20	MW_06B 5/19/20	MW_06C 5/19/20	MW_06E 5/19/20	MW_06F 5/19/20	MW_08A 5/18/20	MW_08B 5/18/20	MW_09B 5/18/20	MW_09C 5/18/20	OBS_1 5/18/20
Units in ug/l														
VOLATILE COMPOUNDS														
	NYSDEC Class GA Standard or Guidance Value													
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1.8	1 U	1 U	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	3.1	1 U	1 U	3.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1.8	1 U	1 U	8.9	1 U	1.8	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	17.2	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	4.9	1 U	1 U	2.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.5	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	1 U	1 U	1.6	1 U	1 U	1 U	1 U	1 U	2.9	1 U	1.6	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	3 U	1.3 J	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Total Volatile Compounds	--	ND	12.9	1.6	ND	17.6	ND	1.8	ND	24.6	ND	1.6	ND	ND

Footnotes/Qualifiers:
 ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated value or limit
 -- No standard
 ND Not detected

Exceeds NYSDEC Class GA Standard or Guidance Value



Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		LF-1 5/20/20 Total	LF-1 5/20/20 Dissolved	LF-2 5/20/20 Total	LF-2 5/20/20 Dissolved	MW_05B 5/18/20 Total	MW_05B 5/18/20 Dissolved	MW_06A 5/19/20 Total	MW_06A 5/19/20 Dissolved	MW_06B 5/19/20 Total	MW_06B 5/19/20 Dissolved	MW_06C 5/19/20 Total	MW_06C 5/19/20 Dissolved	MW_06E 5/19/20 Total
Units in ug/l														
METALS	NYSDEC Class GA Standard or Guidance Value													
Aluminum	--	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	102 J	96.7 J	52.8 J	51.9 J	49.8 J	43.2 J	22.3 J	20.5 J	61.5 J	58.2 J	29.7 J	26.8 J	193 J
Calcium	--	15300	15200	34900	35000	15800	15100	1400	1350	20800	20400	47200	46300	30300
Chromium	50	10 U	10 U	13	12.8	10 U	10 U	10 U	6.1 J	11.7	6.8 J	10 U	10 U	10 U
Copper	200	25 U	25 U	11.7 J	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	14600	14300	9020	8820	100 U	20 U	40.1 UB	103 UB	12800	12200	5220	4810	12600
Lead	25	5 U	5 U	3.6 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	12500	12600	25200	25800	6520	6580	1470	1450	14600	14600	11300	11700	14800
Manganese	300 #	2670	2630	174	178	3890	3880	8.9 UB	10.5 UB	55.6	55	133	141	401
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21	0.15 J	0.2 U	0.2 U
Nickel	100	4 J	4 J	14.7 J	14.4 J	2.9 J	2.3 J	40 U	8.5 J	16.8 J	12.7 J	7.9 J	7.3 J	9 J
Potassium	--	17800	16300	133000	132000	10900	8890	5000 U	1990 J	118000	108000	28600	26100	28400
Sodium	20000	70900	71800	481000	488000	77200	71500	8650	7750	316000	313000	220000	207000	179000
Zinc	2000	20 U	3.6 UB	20 U	2.1 UB	20 U	20 U	20 U	23.3	20 U	2.2 UB	20 U	3 UB	17.2 J

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- # Standard for total iron and manganese is 500 ug/l
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- UB Non-detect based on blank results
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		MW_06E 5/19/20 Dissolved	MW_06F 5/19/20 Total	MW_06F 5/19/20 Dissolved	MW_08A 5/18/20 Total	MW_08A 5/18/20 Dissolved	MW_08B 5/18/20 Total	MW_08B 5/18/20 Dissolved	MW_09B 5/18/20 Total	MW_09B 5/18/20 Dissolved	MW_09C 5/18/20 Total	MW_09C 5/18/20 Dissolved	OBS_1 5/18/20 Total	OBS_1 5/18/20 Dissolved
Units in ug/l														
METALS	NYSDEC Class GA Standard or Guidance Value													
Aluminum	--	200 U	191 J	166 J	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	184 J	248	235	64 J	52.6 J	118 J	103 J	96.8 J	90.8 J	65.2 J	60.9 J	48.2 J	46.4 J
Calcium	--	29100	42800	43400	11200	9640	21600	20500	13300	13500	10200	10200	16100	16000
Chromium	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	3.9 J	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	12000	79.5 UB	86.8 UB	100 U	20 U	100 U	20 U	100 U	20 U	20.1 UB	10.2 UB	46.2 UB	38 UB
Lead	25	5 U	2.8 J	5.5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	14200	16400	17500	4900	4790	6680	6700	5570	5980	8090	8410	10600	10900
Manganese	300 #	381	114	121	82.9	84.2	910	914	3160	3320	192	202	2470	2560
Mercury	0.7	0.2 U	0.2 U	0.26	0.2 U	0.2 U	0.37	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	7.7 J	24.4 J	24.8 J	2.9 J	2.6 J	17.4 J	15.6 J	40 U	40 U	3.9 J	1.9 J	2.8 J	1.9 J
Potassium	--	25700	7790	7130	6200	4280 J	10000	8300	8940	8050	11400	10600	20600	19800
Sodium	20000	180000	175000	171000	38600	30600	165000	150000	56000	55300	70700	68500	55300	54600
Zinc	2000	14.3 UB	26.4	25.8	13.6 J	12.1 UB	54.2	51.3	20 U	4.3 UB	20 U	4.4 UB	20 U	2.9 UB

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- # Standard for total iron and manganese is 500 ug/l
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- UB Non-detect based on blank results
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 3
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 05/20/20	LF-2 05/20/20	MW_05B 05/18/20	MW_06A 05/19/20	MW_06B 05/19/20	MW_06C 05/19/20	MW_06E 05/19/20	MW_06F 05/19/20	MW_08A 05/18/20	MW_08B 05/18/20	MW_09B 05/18/20	MW_09C 05/18/20	OBS_1 05/18/20
Units in mg/l														
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value													
Alkalinity, Total	---	116	1320	32.2	4.3	1030	390	144	1 U	14	5.8	33.8	44.9	160
Alkalinity,Bicarbonate	---	116	1320	32.2	4.3	1030	390	144	1 U	14	5.8	33.8	44.9	160
Alkalinity,Carbonate	---	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloride	250	93.5	429	93.9	9.6	270	186	315	370	41	256	79.9	92.1	65.9
Cyanide	0.2	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0038 J	0.01 U	0.01 U	0.01 U	0.01 U
Hardness	---	110	210	70	10	130	170	160	100	50	70	70	50	70
Hexavalent Chromium	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Nitrogen, Ammonia	2	13.1	48.7	0.45 UB	0.44 UB	136	15.8	22.7	0.39 UB	0.35 UB	0.51 UB	1.3 UB	2.8 UB	15.3
Nitrogen, Kjeldahl, Total	---	13.1	168	0.2 UB	0.73 UB	172	24.1	25.2	0.1 U	0.1 U	0.17 UB	0.16 UB	2.1 UB	17.4
Nitrate	10	0.05 U	0.05 U	5.8 J	0.8	0.05 U	0.05 U	3.3	4.6	2.5 J	2.1 J	5.1 J	0.84 J	0.52 J
Nitrite	1	0.05 U	0.05 U	0.065	0.05 U	0.05 U	0.05 U	0.064	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Phenolics, Total	0.001	0.005 U	0.007 J	0.005 U	0.004 J	0.005 J	0.005 U	0.004 J	0.005 U	0.005 U	0.005 U	0.005 U	0.003 J	0.005 U
Sulfate	250	50	5 U	25.6	7.4	5 U	38.2	44	5 U	32.2	38.4	19.6	22.8	30.8
Total Dissolved Solids	---	319	1790	286	42	1140	739	648	680	125	507	220	247	257

Footnotes/Qualifiers:

- mg/l Milligrams per liter
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- UB Non-detect based on blank results
- No standard or not analyzed

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 1
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Volatile Organic Compounds

Sample ID Sample Date	LF-1 10/29/20	LF-2 10/29/20	MW-05B 10/27/20	MW-06A 10/28/20	MW-06B 10/28/20	MW-06C 10/28/20	MW-06E 10/28/20	MW-06F 10/28/20	MW-08A 10/27/20	MW-08B 10/27/20	MW-09B 10/27/20	MW-09C 10/27/20	OBS-1 10/27/20	
Units in ug/l														
NYSDEC Class GA Standard or Guidance Value														
VOLATILE COMPOUNDS														
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,4-Dichlorobenzene	3	1 U	2.1	1 U	1 U	2.8	1.5	1.2	1 U	1 U	1 U	1 U	1 U	
Benzene	1	1 U	3.6	1 U	1 U	1.2	1.4	1 U	1 U	1 U	1 U	1 U	1 U	
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Bromoform	50	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Chlorobenzene	5	1 U	1.7	1 U	1 U	4.5	2.9	1.5	1 U	1 U	1 U	1 U	1 U	
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Cis-1,2-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	21.2	1 U	1 U	1 U	1 U	
Dibromochloromethane	50	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Isopropylbenzene (Cumene)	5	1 U	5.5	1 U	1 U	1.7	1.4	1 U	1 U	1 U	1 U	1 U	1 U	
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Tetrachloroethylene(PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	8.4	1 U	1 U	1 U	1 U	
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Trichloroethylene (TCE)	5	1 U	1 U	1.7	1.1	1 U	1 U	1 U	3.8	1 U	1.5	1	1 U	
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Xylenes, Total	5	3 U	2.8 J	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	
Total Volatile Compounds	--	ND	15.7	1.7	1.1	10.2	7.2	2.7	ND	33.4	ND	1.5	1	ND

Footnotes/Qualifiers:
 ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated value or limit
 -- No standard
 ND Not detected

Exceeds NYSDEC Class GA Standard or Guidance Value



Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		LF-1 10/29/20 Total	LF-1 10/29/20 Dissolved	LF-2 10/29/20 Total	LF-2 10/29/20 Dissolved	MW-05B 10/27/20 Total	MW-05B 10/27/20 Dissolved	MW-06A 10/28/20 Total	MW-06A 10/28/20 Dissolved	MW-06B 10/28/20 Total	MW-06B 10/28/20 Dissolved	MW-06C 10/28/20 Total	MW-06C 10/28/20 Dissolved	MW-06E 10/28/20 Total	MW-06E 10/28/20 Dissolved
Units in ug/l															
METALS	NYSDEC Class GA Standard or Guidance Value														
Aluminum	--	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	47.8 J	200 U	200 U	200 U	200 U	200 U
Barium	1000	114 J	96.3 J	58 J	46.3 J	41.2 J	42.6 J	19.3 J	18.9 J	39.2 J	42.5 J	24.3 J	27.2 J	153 J	158 J
Calcium	--	17000	16500	39200	37700	12900	13500	1280	1250	13500	14400	30600	33800	23200	24000
Chromium	50	2.3 J	10 U	14.6	11.7	2.1 J	10 U	10 U	10 U	3.9 J	3.9 J	3.1 J	4.1 J	2.4 J	2.1 J
Copper	200	8 J	25 U	25 U	5.7 J	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	19700	2290	9810	4920	23.3 UB	20 U	198 UB	197 UB	8870	9350	3780	4160	12100	12400
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	14600	14100	28800	27000	5310	5530	1270	1230	11100	11900	11600	12800	12300	12700
Manganese	300 #	3050	2950	177	171	3250	3310	10.2 UB	10.1	40.5	41.8	76.4	84.7	309	316
Mercury	0.7	0.17 UB	0.2 U	0.23 UB	0.12 UB	0.2 UB	0.12 UB	0.2 UB	0.11 UB	0.2 U	0.2 U	0.18 UB	0.2 U	0.2 U	0.11 UB
Nickel	100	10 J	8.8 J	20.9 J	19.8 J	11.4 J	9.8 J	5.8 J	5.4 J	12.7 J	14.3 J	12.3 J	15.1 J	15.1 J	15.5 J
Potassium	--	18800	18300	145000	137000	10600	10400	1450 J	1440 J	84700	87400	66800	70100	33200	33500
Sodium	20000	60100	58400	454000	434000	64900	70200	6220	6000	215000	237000	219000	248000	157000	166000
Zinc	2000	5 J	20 U	20 U	20 U	20 U	20 U	11 J	5.4 UB	20 U	20 U	20 U	20 U	12.4 J	10.1 UB

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- # Standard for total iron and manganese is 500 ug/l
- U Compound was analyzed for but not detected
- J Estimated value
- UB Non-detect based on blank results
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value



Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		MW-06F 10/28/20 Total	MW-06F 10/28/20 Dissolved	MW-08A 10/27/20 Total	MW-08A 10/27/20 Dissolved	MW-08B 10/27/20 Total	MW-08B 10/27/20 Dissolved	MW-09B 10/27/20 Total	MW-09B 10/27/20 Dissolved	MW-09C 10/27/20 Total	MW-09C 10/27/20 Dissolved	OBS-1 10/27/20 Total	OBS-1 10/27/20 Dissolved
Units in ug/l													
METALS	NYSDEC Class GA Standard or Guidance Value												
Aluminum	--	177 J	169 J	41.4 J	200 U	38 J	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	228	250	59.9 J	67.5 J	94 J	97.5 J	81.1 J	87.2 J	63.6 J	68.5 J	43.5 J	47 J
Calcium	--	40200	43800	10700	12600	20600	21200	11400	12300	10600	11300	14900	16100
Chromium	50	1.5 J	1.8 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	91.7 UB	80.2 UB	100 U	20 U	100 U	20 U	8.3 UB	20 U	23.4 UB	9.1 UB	34 UB	30
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	15500	16800	5320	5790	6180	6390	4850	5250	8250	8900	10100	10900
Manganese	300 #	114	124	91.8	91.8	851	872	3010	3200	215	229	2520	2710
Mercury	0.7	0.37 UB	0.11 UB	0.13 UB	0.2 U	0.18 UB	0.1 UB	0.13 UB	0.2 U	0.16 UB	0.1 UB	0.2 U	0.2 U
Nickel	100	29.2 J	33.3 J	7.3 J	8.5 J	19.8 J	21.2 J	40 U	40 U	6.3 J	6.3 J	5.8 J	6.3 J
Potassium	--	9510	9750	5220	5610	11100	10900	8770	8990	12600	12700	22200	23100
Sodium	20000	138000	155000	21800	26400	136000	147000	46400	52200	62800	70100	53900	60500
Zinc	2000	26.4	27 UB	9.6 J	11.1 UB	41.1	42.9 UB	20 U	20 U	20 U	20 U	20 U	20 U

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- # Standard for total iron and manganese is 500 ug/l
- U Compound was analyzed for but not detected
- J Estimated value
- UB Non-detect based on blank results
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 3
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 10/29/20	LF-2 10/29/20	MW-05B 10/27/20	MW-06A 10/28/20	MW-06B 10/28/20	MW-06C 10/28/20	MW-06E 10/28/20	MW-06F 10/28/20	MW-08A 10/27/20	MW-08B 10/27/20	MW-09B 10/27/20	MW-09C 10/27/20	OBS-1 10/27/20
Units in mg/l														
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value													
Alkalinity, Total	---	123	1380	39.0	3.2	676	603	145	1.0 U	12.7	9.9	31.6	48.3	162
Alkalinity,Bicarbonate	---	123	--	39.0	3.2	676	603	145	1.0 U	12.7	9.9	31.6	48.3	162
Alkalinity,Carbonate	---	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloride	250	98.0	460	89.5	7.6	230	248	308	358	41.9	267	74.8	114	75.7
Cyanide	0.2	0.004 J	0.0021 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0026 J	0.01 U
Hardness	---	103	216	54.1	8.43	79.4	124	109	164	48.6	76.9	48.4	60.4	78.8
Hexavalent Chromium	0.05	0.020 U	0.020 U	0.020 U	0.020 UJ	0.020 UJ	0.020 UJ	0.020 UJ	0.020 UJ	0.020 U	0.020 U	0.020 U	0.020 U	0.020 UJ
Nitrogen, Ammonia	2	17.3	170	0.10 U	0.39	99.3	79.5	31.1	0.34	0.083 J	0.10 U	0.43	1.8	16.2
Nitrogen, Kjeldahl, Total	---	17.1	149	0.10 U	1.8	121	86.4	35.1	0.10 U	0.10 U	0.17	0.10 U	2.1	18.5
Nitrate	10	0.050 U	0.050 U	5.1	0.26	0.050 U	0.050 U	2.6	5.5	2.9	3.3	6.9	0.49	0.65
Nitrite	1	0.050 U	0.050 U	0.037 J	0.050 U	0.050 U	0.050 U	0.042 J	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Phenolics, Total	0.001	0.005 U	0.007	0.005 U	0.005 U	0.008	0.0059	0.005 J	0.005 U	0.005 U	0.005 U	0.005 J	0.005 U	0.005 U
Sulfate	250	34.6	5.0 U	25.6	7.7	5.0 U	14.5	46.5	5.0 U	26.1	30.8	20.1	20.2	22.0
Total Dissolved Solids	---	365	1790	274	53.0	793	849	648	680	134	473	216	286	282

Footnotes/Qualifiers:
 mg/l Milligrams per liter
 U Compound was analyzed for but not detected
 J Estimated detection limit or value
 -- No standard or not analyzed
Exceeds NYSDEC Class GA Standard or Guidance Value

Table 1
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Volatile Organic Compounds

Sample ID Sample Date		LF-1 5/19/21	LF-2 5/19/21	MW-05B 5/17/21	MW-06A 5/18/21	MW-06B 5/18/21	MW-06C 5/18/21	MW-06E 5/18/21	MW-06F 5/18/21	MW-08A 5/17/21	MW-08B 5/17/21	MW-09B 5/17/21	MW-09C 5/17/21	OBS-1 5/17/21
Units in ug/l														
VOLATILE COMPOUNDS														
	NYSDEC Class GA Standard or Guidance Value													
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	<u>3.1</u>	1 U	1 U	<u>4.9</u>	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	<u>4.5</u>	1 U	1 U	<u>5.7</u>	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	3.7	1 U	1 U	<u>13.4</u>	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	1.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	<u>21.9</u>	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	<u>12.9</u>	1 U	1 U	3.3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	<u>7.5</u>	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	3.8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3.3	1 U	1.5	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	3 U	3.8	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Total Volatile Compounds	--	5	28	ND	ND	28.9	ND	ND	ND	32.7	ND	1.5	ND	ND

ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated value or limit
 -- No standard
 ND Not detected

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		LF-1 5/19/21 Total	LF-1 5/19/21 Dissolved	LF-2 5/19/21 Total	LF-2 5/19/21 Dissolved	MW-05B 5/17/21 Total	MW-05B 5/17/21 Dissolved	MW-06A 5/18/21 Total	MW-06A 5/18/21 Dissolved	MW-06B 5/18/21 Total	MW-06B 5/18/21 Dissolved	MW-06C 5/18/21 Total	MW-06C 5/18/21 Dissolved	MW-06E 5/18/21 Total
Units in ug/l														
METALS	NYSDEC Class GA Standard or Guidance Value													
Aluminum	--	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	72.5 J	72.1 J	61.8 J	61.9 J	40.9 J	41 J	15.5 J	15 J	66.8 J	68.5 J	29.2 J	28.9 J	179 J
Calcium	--	15900	16400	41500	42500	13100 J	13700 J	1040	979 J	22600	23500	50000	51200	25200
Chromium	50	10 U	10 U	11.2	10.4	10 U	10 U	10 U	10 U	2.3 J	2 J	40.5	4.7 J	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	19900	20200	10500	10400	100 U	20 U	26.1 J	20 UB	13600	14000	5640	4970	5250
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	11800	12300	30200	30100	5420	5750	954	976 J	21700	22400	11800	12100	11700
Manganese	300 #	3000	2980	175	176	3100 J	3140 J	5.4 J	5.2 J	49.2	49.4	156	153	328
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	6.9 J	6.6 J	21.9 J	22.1 J	7.9 J	7.2 J	4.8 J	40 U	13 J	13.1 J	150	17.8 J	15.7 J
Potassium	--	10100	9670	166000	156000	10000 J	9700 J	1550 J	1450 J	131000	128000	37800	36100	26200
Sodium	20000	62400	59100 J	466000	441000 J	57300 J	55800 J	5840	5300	245000	238000 J	237000	223000 J	163000
Zinc	2000	20 U	20 U	20 U	20 U	20 U	20 U	20 U	6.9 UB	20 U	20 U	20 U	20 U	19 J

Footnotes/Qualifiers:
 ug/l Micrograms per liter
 # Standard for total iron and manganese is 500 ug/l
 U Compound was analyzed for but not detected
 J Estimated value
 UB Non-detect based on blank results
 -- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		MW-06E 5/18/21 Dissolved	MW-06F 5/18/21 Total	MW-06F 5/18/21 Dissolved	MW-08A 5/17/21 Total	MW-08A 5/17/21 Dissolved	MW-08B 5/17/21 Total	MW-08B 5/17/21 Dissolved	MW-09B 5/17/21 Total	MW-09B 5/17/21 Dissolved	MW-09C 5/17/21 Total	MW-09C 5/17/21 Dissolved	OBS-1 5/17/21 Total	OBS-1 5/17/21 Dissolved
Units in ug/l														
METALS	NYSDEC Class GA Standard or Guidance Value													
Aluminum	--	200 U	213	229	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	181 J	258	260	79.1 J	80.1 J	40.9 J	42.1 J	81.6 J	85.7 J	61.8 J	63.6 J	37.3 J	38.3 J
Calcium	--	26100	46100	47500	15200	16000	13200	14100	10300	11200	10400	11000	12800	13600
Chromium	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11.4	2.5 J	10 U	10 U	10 U	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	5190	34 J	29.5 UB	100 U	20 U	100 U	20 U	147	77.6	100 U	9.2 UB	31.9 J	29.4 UB
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	12200	17800	18600	4660	4960	5450	5910	4640	5130	7870	8500	8840	9490
Manganese	300 #	330	130	130	708	727	3110	3230	2060	2190	252	262	2230	2300
Mercury	0.7	0.2 U	0.16 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	15.2 J	30.6 J	30.8 J	17.5 J	17.1 J	7.8 J	7.6 J	29.3 J	20.9 J	4.6 J	40 U	4.6 J	4.4 J
Potassium	--	25500	10000	9670	8940	8610	10100	9980	8190	8190	11600	11400	21300	21200
Sodium	20000	156000 J	181000	172000 J	118000	115000	57400	57300	45100	45000	60800	60200	47700	46500
Zinc	2000	19.4 UB	24.2	26.5 UB	38.1	42.1	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- # Standard for total iron and manganese is 500 ug/l
- U Compound was analyzed for but not detected
- J Estimated value
- UB Non-detect based on blank results
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 3
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 5/19/21	LF-2 5/19/21	MW-05B 5/17/21	MW-06A 5/18/21	MW-06B 5/18/21	MW-06C 5/18/21	MW-06E 5/18/21	MW-06F 5/18/21	MW-08A 5/17/21	MW-08B 5/17/21	MW-09B 5/17/21	MW-09C 5/17/21	OBS-1 5/17/21
Units in mg/l														
LEACHATE INDICATORS		NYSDEC Class GA Standard or Guidance Value												
Alkalinity, Total	---	68.5	1600	34.3 J	2.6	1270	511	88	1.0 U	6.2	33.6	26.8	52.9	158
Alkalinity,Bicarbonate	---	68.5	--	34.3 J	2.6	1270	511	88	1.0 U	6.2	33.6	26.8	52.9	158
Alkalinity,Carbonate	---	1.0 UJ	--	1.0 UJ	1.0 U	5 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Chloride	250	131	533	95.5 J	7.5	256	267	373	525	250	95.3	82.4	99.1	69
Cyanide	0.2	0.005 UJ	0.0033 J	0.005 U	0.005 UJ	0.0021 J	0.005 UJ	0.005 UJ	0.005 UJ	0.002 J	0.005 U	0.005 U	0.005 U	0.005 U
Hardness	---	88.3	228	55 J	65.3	146	173	111	188	57.1	55.4	44.8	58.4	68.4
Hexavalent Chromium	0.05	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Nitrogen, Ammonia	2	2.8	188	0.10 U	0.16	190	27.2	17.1	0.17	0.12	0.10 U	0.64	2.1	17.5
Nitrogen, Kjeldahl, Total	---	2.5 UB	203 J	0.31 UB	1.6 UB	204 J	34.2 J	22.9 J	0.10 U	0.10 UB	0.10 U	0.10 U	2.7 UB	22.4 J
Nitrate	10	0.050 UJ	0.050 UJ	5.5 J	0.46	0.050 U	0.050 U	2.1	4.0	2.6	4.5	4.7	0.25	0.25 U
Nitrite	1	0.037 J	0.050 U	0.038 J	0.050 U	0.050 U	0.050 U	0.031 J	0.03 J	0.050 U	0.032 J	0.050 U	0.050 U	0.050 U
Phenolics, Total	0.001	0.005 UJ	0.006 J	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ
Sulfate	250	35.4	5.0 U	20.7	6.6	5.0 U	21	46.5	2.7 UB	31.2	20.7	21.8	23	24.9
Total Dissolved Solids	---	318	1810	250 J	40	1130	888	688	904	412 J	282 J	200 J	264 J	268 J

Footnotes/Qualifiers:
 mg/l Milligrams per liter
 U Compound was analyzed for but not detected
 UB Non-detect based on blank results
 J Estimated detection limit or value
 -- No standard or not analyzed
Exceeds NYSDEC Class GA Standard or Guidance Value

Table 1
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Volatile Organic Compounds

Sample ID Sample Date		LF-1 10/29/21	LF-2 10/29/21	MW-05B 10/25/21	MW-06A 10/28/21	MW-06B 10/28/21	MW-06C 10/27/21	MW-06E 10/27/21	MW-06F 10/27/21	MW-08A 10/25/21	MW-08B 10/25/21	MW-09B 10/25/21	MW-09C 10/25/21	OBS-1 10/25/21
Units in ug/l														
VOLATILE COMPOUNDS														
	NYSDEC Class GA Standard or Guidance Value													
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	0.66 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	3.1	1 U	1 U	2.4	1.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	3.7	1 U	1 U	1.5	1.8	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	3.2	1 U	1 U	4.7	4.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	2.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	12.9	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	7.8	1 U	1 U	2.1	1.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.8	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	14.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.3	1 U	1.5	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	3 U	3.2	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Total Volatile Compounds	--	18.46	22	ND	ND	10.7	9.4	ND	1	21	ND	1.5	ND	ND

ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated value or limit
 -- No standard
 ND Not detected

Exceeds NYSDEC Class GA Standard or Guidance Value



Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		LF-1 10/29/21 Total	LF-1 10/29/21 Dissolved	LF-2 10/29/21 Total	LF-2 10/29/21 Dissolved	MW-05B 10/25/21 Total	MW-05B 10/25/21 Dissolved	MW-06A 10/28/21 Total	MW-06A 10/28/21 Dissolved	MW-06B 10/28/21 Total	MW-06B 10/28/21 Dissolved	MW-06C 10/27/21 Total	MW-06C 10/27/21 Dissolved	MW-06E 10/27/21 Total
Units in ug/l														
METALS	NYSDEC Class GA Standard or Guidance Value													
Aluminum	--	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	226
Barium	1000	83.6 J	75.7 J	67.6 J	65.2 J	42.3 J	39.7 J	17.5 J	15.9 J	35.8 J	35.2 J	132 J	124 J	263 J
Calcium	--	17400	17100	46900	45700	13800 J	13300	1170	1110	12400	12400	21100	19800	47500
Chromium	50	1.7 J	10 U	12.9	11.7	1.3 J	10 U	1.2 J	10 U	3.9 J	1.6 J	1.8 J	10 U	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	9.1 J
Iron	300 #	23100	19600 J	11200	10700 J	100 U	20 U	174 U	105 U	7090	6870 J	8870	8030 J	75.2 U
Lead	25	3.3 J	5 U	2.5 J	5 U	5 U	5 U	5 U	5 U	2.6 J	5 U	5 U	5 U	3.1 J
Magnesium	35000	13200	12800	31900	31000	5580	5360	11500	1070	11500	11400	11200	10500	18400
Manganese	300 #	3480	3190	188	182	3200	2990	8.2 J	7.4 J	24.7	25.9	264	246	143
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.11 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.14 U	0.36 U
Nickel	100	9.0 J	8.1 J	23.5 J	22.9 J	8.6 J	8.4 J	5.6 J	5.8 J	12 J	12.7 J	14.3 J	12 J	32.5 J
Potassium	--	11400	11100	183000	182000	10200	10100	1570 J	1610 J	92100	92500	31600	31300	10600
Sodium	20000	69000	65300	502000	489000	59400	56900	6420	6020	219000	215000	157000	149000 J	185000
Zinc	2000	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	5.1 J	11.7 J	9.0 J	29.8

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- # Standard for total iron and manganese is 500 ug/l
- U Compound was analyzed for but not detected
- J Estimated value
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		MW-06E 10/27/21 Dissolved	MW-06F 10/27/21 Total	MW-06F 10/27/21 Dissolved	MW-08A 10/25/21 Total	MW-08A 10/25/21 Dissolved	MW-08B 10/25/21 Total	MW-08B 10/25/21 Dissolved	MW-09B 10/25/21 Total	MW-09B 10/25/21 Dissolved	MW-09C 10/25/21 Total	MW-09C 10/25/21 Dissolved	OBS-1 10/25/21 Total	OBS-1 10/25/21 Dissolved
Units in ug/l														
METALS	NYSDEC Class GA Standard or Guidance Value													
Aluminum	--	217	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	252 J	33.6 J	30.9 J	62.9 J	58.5 J	77.5 J	72.3 J	108 J	95 J	71 J	64.7 J	39.2 J	37.2 J
Calcium	--	45500	46900	43500	9920	9650	16300	15200	13500	12300	12700	11600	13500	12500
Chromium	50	10 U	2.6 J	10 U	10 U	10 U	1.4 J	10 U	1.6 J	10 U	10 U	10 U	1.6 J	10 U
Copper	200	8.0 J	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	47.4 U	5110	4570 J	100 U	20 U	25.4 U	20 U	100 U	20 U	100 U	8.9 U	30.2 U	24.4 U
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	3.2 J	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	17500	13400	12500	5280	4860	4870	4540	5770	5260	8390	7660	8570	7730
Manganese	300 #	133	111	102	133	119	656	612	3170	2720	307	280	2350	2140
Mercury	0.7	0.15 U	0.14 U	0.14 U	0.12 UJ	2.5 J	0.14 U	0.20 U	0.16 U	0.18 U	0.10 U	0.19 U	0.12 U	0.20 U
Nickel	100	31.4 J	13.8 J	13.1 J	9.0 J	8.4 J	18.4 J	17 J	7.3 J	40 U	5.8 J	5.3 J	6.6 J	5.0 J
Potassium	--	10600	74600	71500	5820	5600	9050	8780	9660	9130	12400	11700	21500	19800
Sodium	20000	178000	261000	244000	22900	21700	121000	113000	50400	46200	65400	60100	51400	47500
Zinc	2000	27.4	20 U	20 U	20 U	8.4 J	35.7	31.4 U	20 U	20 U	20 U	20 U	20 U	20 U

Footnotes/Qualifiers:
 ug/l Micrograms per liter
 # Standard for total iron and manganese is 500 ug/l
 U Compound was analyzed for but not detected
 J Estimated value
 -- No standard
Exceeds NYSDEC Class GA Standard or Guidance Value



Table 3
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 10/29/21	LF-2 10/29/21	MW-05B 10/25/21	MW-06A 10/28/21	MW-06B 10/28/21	MW-06C 10/27/21	MW-06E 10/27/21	MW-06F 10/27/21	MW-08A 10/25/21	MW-08B 10/25/21	MW-09B 10/25/21	MW-09C 10/25/21	OBS-1 10/25/21
Units in mg/l														
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value													
Alkalinity, Total	---	85.6	1490	33.6 J	4.2	689	126	1.0 U	772	10.5	8	29.7	55.7	146
Alkalinity,Bicarbonate	---	85.6	--	33.6 J	4.2	689	126	1.0 U	772	10.5	8	29.7	55.7	146
Alkalinity,Carbonate	---	1.0 U	--	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloride	250	109 J	459 J	107 J	8.7 J	241 J	231 J	461 J	38.6 J	42.7 J	220 J	73.6 J	113 J	56.7 J
Cyanide	0.2	0.0085 J	0.0128	0.0077	0.01 U	0.01 U	0.005 U	0.0072 J	0.009 J	0.008 J	0.0075 J	0.008	0.0086 J	0.01 U
Hardness	---	97.8	248	57.4 J	7.66	78.3	98.8	194	172	46.5	60.8	57.5	66.3	69
Hexavalent Chromium	0.05	0.020 UJ	0.020 UJ	0.020 U	0.02 UJ	0.020 UJ	0.020 U	0.020 U	0.020 U	0.02 U	0.020 U	0.020 U	0.020 U	0.020 U
Nitrogen, Ammonia	2	3.8	189	0.10 U	0.92	110	27	0.65	85.4	0.52	0.10	0.44	2.4	16.4
Nitrogen, Kjeldahl, Total	---	4.2 J	204 J	0.12 UBJ	1 UBJ	121 J	29 J	0.1 UJ	89.1 J	0.1 UJ	0.1 UJ	0.10 UJ	3 J	16.9 J
Nitrate	10	0.050 U	0.050 U	3.7	0.24 UB	0.046 J	1.2	3.4	0.050 U	1.7	2.4	4.1	0.12 UB	0.22 UB
Nitrite	1	0.029 J	0.050 U	0.034 J	0.05 U	0.050 U	0.050 U	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U	0.05 U	0.05 U
Phenolics, Total	0.001	0.005 U	0.0054	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Sulfate	250	32.7	5.0 U	23.5 J	6.7	0.15 J	45.7 J	0.29 J	8 J	26.8 J	27.8 J	19.4 J	22.9 J	19.9 J
Total Dissolved Solids	500	284	1610	222	22	796	536	860	920	108	380	205	216	190

Footnotes/Qualifiers:

- mg/l Milligrams per liter
- U Compound was analyzed for but not detected
- UB Non-detect based on blank results
- J Estimated detection limit or value
- No standard or not analyzed

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 1
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Volatile Organic Compounds

Sample ID Sample Date		LF-1 5/12/22	LF-2 5/12/22	MW-05B 5/5/22	MW-06A 5/11/22	MW-06B 5/11/22	MW-06C 5/10/22	MW-06E 5/12/22	MW-06F 5/11/22	MW-08A 5/10/22	MW-08B 5/10/22	MW-09B 5/5/22	MW-09C 5/5/22	OBS-1 5/5/22
Units in ug/l														
	NYSDEC Class GA Standard or Guidance Value													
VOLATILE COMPOUNDS														
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	3.2	1 U	1 U	3.8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	2.8	1 U	1 U	3.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	3.5	1 U	1 U	12.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1.3 UB	1 U	1 U	1.1 UB	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	2.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	11.5	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	8.6	1 U	1 U	2.3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	1.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	6.4	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	22.3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.8	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	3 U	2.7 J	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Total Volatile Compounds	--	26.6	20.8	ND	ND	23.6	ND	ND	ND	19.7	ND	ND	ND	ND

ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated value or limit
 UB Non-detect based on blank result:
 -- No standard
 ND Not detected

Exceeds NYSDEC Class GA Standard or Guidance Value



Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		LF-1 5/12/22 Total	LF-1 5/12/22 Dissolved	LF-2 5/12/22 Total	LF-2 5/12/22 Dissolved	MW-05B 5/5/22 Total	MW-05B 5/5/22 Dissolved	MW-06A 5/11/22 Total	MW-06A 5/11/22 Dissolved	MW-06B 5/11/22 Total	MW-06B 5/11/22 Dissolved	MW-06C 5/10/22 Total	MW-06C 5/10/22 Dissolved	MW-06E 5/12/22 Total	MW-06E 5/12/22 Dissolved
Units in ug/l															
METALS	NYSDEC Class GA Standard or Guidance Value														
Aluminum	--	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	235	200 U	200 U	200 U
Barium	1000	84.7 J	93.7 UB	67.9 J	74.9 UB	34.4 J	36 UB	16.8 J	19.9 UB	63.5 J	76 UB	29.8 J	35.7 UB	169 J	191 J
Calcium	--	15400	16900 UB	46700	51600 UB	10600	11200 UB	1240	1410 UB	23400	27100 UB	52200	93000 UB	24600	27600 UB
Chromium	50	10 U	7.8 J	11.3	12.6	1.1 J	10 U	10 U	10 U	1.7 J	10 U	8.6 J	10 U	10 U	10 U
Copper	200	3.8 J	25 U	6.2 J	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	9 UB	25 U	25 U
Iron	300 #	22400	23900	11300	12100	100 U	20 U	100 U	16.4 UB	14200	16100	5420	3940	7860	8390
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	10700	11800 UB	29100	31700 UB	4460	4580 UB	1290	1440 UB	23900	26900 UB	11800	24800 UB	12400	13900 UB
Manganese	300 #	3330	3590	175	190 UB	2510	2600	5.1 J	6.1 UB	43.2	49.6 UB	186	139 UB	316	348 UB
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	7.9 J	9.2 UB	25.8 J	29.2 UB	10.1 J	8.4 UB	4.9 J	10.5 UB	11.6 J	12.4 UB	14.2 J	15.8 UB	15.2 J	17.6 UB
Potassium	--	14400	16000 UB	194000	223000	8880	9140 UB	1520 J	1770 UB	118000	143000	46400 J	36700	29100	33600 UB
Sodium	20000	77700	89200 UB	515000	587000 UB	57000	60300 UB	6310	8160 UB	195000	247000 UB	263000	200000 UB	167000	197000 UB
Zinc	2000	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	15.3 J	20 U	20 U	20 U	30.2	15.4 J

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- # Standard for total iron and manganese is 500 ug/l
- U Compound was analyzed for but not detected
- J Estimated value
- UB Non-detect based on blank results
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		MW-06F 5/11/22 Total	MW-06F 5/11/22 Dissolved	MW-08A 5/10/22 Total	MW-08A 5/10/22 Dissolved	MW-08B 5/10/22 Total	MW-08B 5/10/22 Dissolved	MW-09B 5/5/22 Total	MW-09B 5/5/22 Dissolved	MW-09C 5/5/22 Total	MW-09C 5/5/22 Dissolved	OBS-1 5/5/22 Total	OBS-1 5/5/22 Dissolved
Units in ug/l													
METALS	NYSDEC Class GA Standard or Guidance Value												
Aluminum	--	193 J	251	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	277	316	63.7 J	58.9 UB	66.7 J	65.7 UB	104 J	105 UB	69.4 J	70.2 UB	33.1 J	34.4 UB
Calcium	--	50700	56100 UB	11100	9520 UB	13400	13300 UB	13000	13300 UB	12300	12300 UB	11600	12100 UB
Chromium	50	10 U	10 U	10 U	10 U	1.2 J	10 U	1.4 J	10 U	10 U	10 U	10 U	10 U
Copper	200	5.8 J	25 U	5.4 J	25 U	25 U	25 U	25 U	25 U	3.9 J	25 U	25 U	25 U
Iron	300 #	160	51.2 UB	100 U	20 U	100 U	20 U	100 U	20 U	100 U	8.4 UB	36 UB	24.6 UB
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	19800	21600 UB	4820	4480 UB	4100	3970 UB	5890	5850 UB	7680	7570 UB	7180	7290 UB
Manganese	300 #	145	162 UB	126	115 UB	579	563 UB	2960	2970	325	324 UB	2170	2230
Mercury	0.7	1.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	32.4 J	37.7 UB	9.5 J	8.6 UB	17.7 J	15.9 UB	5.4 J	4.9 UB	6.4 J	5.9 UB	5.9 J	5.5 UB
Potassium	--	11200	13400 UB	6840	6070 UB	8200	7970 UB	9830	9710 UB	12200	11900 UB	18000	18200 UB
Sodium	20000	181000	231000 UB	24500	22100 UB	101000	101000 UB	55800	57000 UB	62900	63900 UB	41700	43700 UB
Zinc	2000	26.3	28.4	12.8 J	9.8 J	31.2	30.5	20 U	20 U	20 U	20 U	20 U	20 U

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- # Standard for total iron and manganese is 500 ug/l
- U Compound was analyzed for but not detected
- J Estimated value
- UB Non-detect based on blank results
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 3
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 5/12/22	LF-2 5/12/22	MW-05B 5/5/22	MW-06A 5/11/22	MW-06B 5/11/22	MW-06C 5/10/22	MW-06E 5/12/22	MW-06F 5/11/22	MW-08A 5/10/22	MW-08B 5/10/22	MW-09B 5/5/22	MW-09C 5/5/22	OBS-1 5/5/22
Units in mg/l														
LEACHATE INDICATORS		NYSDEC Class GA Standard or Guidance Value												
Alkalinity, Total	---	54.6	1580	37.9	4	981	532	81.6	1 U	16.2	6.5	30.1	57.5	126
Alkalinity,Bicarbonate	---	54.6	--	37.9	4	981	532	81.6	1 U	16.2	6.5	30.1	57.5	126
Alkalinity,Carbonate	---	1 UJ	--	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U
Chloride	250	123	446	80.1	8.4	126	224	277	344	39.3	115	61.9	72.5	52.9
Cyanide	0.2	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 UJ	0.01 U	0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 UJ
Hardness	---	82500	236000	44800	8410	157000	179000	112000	208000	47600	50300	56700	62300	58500
Hexavalent Chromium	0.05	0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 UJ	0.02 U	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 UJ	0.02 UJ
Nitrogen, Ammonia	2	0.37	675	0.061 J	0.092 J	165	35.8	15.7	0.2	0.1 U	0.067 J	0.47	3	12.3
Nitrogen, Kjeldahl, Total	---	1.1 UB	169	0.18 UB	2 UB	150	35.4	17.2	0.1 U	0.1 U	0.1 U	0.1 U	3.4	12.8
Nitrate	10	0.05 UJ	0.05 UJ	2.1	0.32 J	0.05 UJ	0.05 UJ	1.5 J	4.2 J	1.9 J	2.4 J	4 J	0.092 UB	0.12 UB
Nitrite	1	0.048 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.055	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U
Phenolics, Total	0.001	0.005 U	0.017	0.005 U	0.01	0.018	0.012	0.005 U	0.006	0.005 U	0.005 J	0.005 U	0.005 U	0.005 U
Sulfate	250	33.3	0.19 UB	21.3	7.1	0.63 UB	10.8	43	0.27 UB	33	23.6	19.1	22.2	20.9
Total Dissolved Solids	500	304	1860	268	46	794	950	647	737	188	391	234	294	266

Footnotes/Qualifiers:
 mg/l Milligrams per liter
 U Compound was analyzed for but not detected
 UB Non-detect based on blank results
 J Estimated detection limit or value
 -- No standard or not analyzed
Exceeds NYSDEC Class GA Standard or Guidance Value

Table 1
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Volatile Organic Compounds

Sample ID Sample Date		LF-1 11/1/22	LF-2 10/28/22	MW-05B 10/27/22	MW-06A 10/31/22	MW-06B 11/1/22	MW-06C 10/31/22	MW-06E 11/1/22	MW-06F 10/31/22	MW-08A 10/27/22	MW-08B 10/27/22	MW-09B 10/26/22	MW-09C 10/26/22	OBS-1 10/25/22
Units in ug/l														
VOLATILE COMPOUNDS														
	NYSDEC Class GA Standard or Guidance Value													
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	<u>3.8</u>	1.2	1.1	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	1 U	1 U	1 U	<u>2.1</u>	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	<u>17.4</u>	1.9	2.7	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	2.8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	1.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	<u>6.6</u>	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	1 U	1 U	1 U	1.2	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	5	1 UJ	1 U	1 U	1 U	1 UJ	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	<u>7.0</u>	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	<u>8.4</u>	1 U	1 U	<u>7.7</u>	1 U	1 U	1 U	1 U	1.3	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Total Volatile Compounds	--	9.5	ND	ND	7.7	29.5	4.6	3.8	ND	16	ND	ND	ND	ND

ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated limit
 -- No standard
 ND Not detected

Exceeds NYSDEC Class GA Standard or Guidance Value



Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		LF-1 11/1/22 Total	LF-1 11/1/22 Dissolved	LF-2 10/28/22 Total	LF-2 10/28/22 Dissolved	MW-05B 10/27/22 Total	MW-05B 10/27/22 Dissolved	MW-06A 10/31/22 Total	MW-06A 10/31/22 Dissolved	MW-06B 11/1/22 Total	MW-06B 11/1/22 Dissolved	MW-06C 10/31/22 Total	MW-06C 10/31/22 Dissolved	MW-06E 11/1/22 Total	MW-06E 11/1/22 Dissolved
Units in ug/l															
METALS	NYSDEC Class GA Standard or Guidance Value														
Aluminum	--	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	72.7 J	69.1 J	53.7 J	55.8 J	40.7 J	40.8 J	49.1 J	43.7 J	80.4 J	73.6 J	36.5 J	24.1 J	134 J	126 J
Calcium	--	12300	11800	48100	50100	12200	12600	3530	3510	29600	26800	63000	56400	21800	20300
Chromium	50	10 U	10 U	4.3 J	4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	16000	15200	10500	11300	100 U	8.4 UB	224	170	19400	17400	6890	3250	15800	15000
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	8340	7800	29400	29500	4960	5100	3640	3560	32600	28500	14800	13400	14800	13700
Manganese	300 #	2640	2330	183	190	2660	2640	19	17.5	57.9	48	188	105	263	228
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	10.6 J	7.5 J	12.3 J	11.2 J	8.7 J	7.7 J	10 J	6.6 J	6.8 J	6.1 J	16 J	13.4 J	16.1 J	11.9 J
Potassium	--	12300	11400	88200	92500	9010	9380	2750 J	2790 J	107000	88600	56200 J	53300	33300	29400
Sodium	20000	77200	72800	295000	311000	57000	59400	13200	12600	117000	107000	265000	240000	142000	133000
Zinc	2000	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	5.2 J

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- # Standard for total iron and manganese is 500 ug/l
- U Compound was analyzed for but not detected
- J Estimated value
- UB Not detected base on blank results
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		MW-06F 10/31/22 Total	MW-06F 10/31/22 Dissolved	MW-08A 10/27/22 Total	MW-08A 10/27/22 Dissolved	MW-08B 10/27/22 Total	MW-08B 10/27/22 Dissolved	MW-09B 10/26/22 Total	MW-09B 10/26/22 Dissolved	MW-09C 10/26/22 Total	MW-09C 10/26/22 Dissolved	OBS-1 10/25/22 Total	OBS-1 10/25/22 Dissolved
Units in ug/l													
METALS	NYSDEC Class GA Standard or Guidance Value												
Aluminum	--	237	154 J	73.2 J	56.4 J	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	255	241 J	53 J	55 J	59.8 J	59 J	83.7 J	85.3 J	59.4 J	61.6 J	33.1 J	33.4 J
Calcium	--	44400	43400	4330	4680	14000	14400	11700	11800	10700	11000	11200	11200
Chromium	50	10 U	10 U	10 U	10 U	10 U	10 U	1.3 J	10 U	1.3 J	10 U	10 U	10 U
Copper	200	6.8 J	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	77.9 J	19.6 UB	27.6 J	27.6 UB	100 U	20 U	21.8 J	27.6 UB	38.1 J	29.3 UB	23.9 J	20.4 UB
Lead	25	3.6 J	5 U	5 U	5 U	5 U	5 U	3.6 UB	5 U	2.4 UB	5 U	5 U	5 U
Magnesium	35000	17400	16800	4290	4510	3960	4020	5890	5820	6800	6820	6750	6820
Manganese	300 #	143	129	98	96.8	496	489	2330	2410	241	248	2100	2120
Mercury	0.7	0.38	0.11 J	0.2 U	0.2 U	0.2 U	0.1 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.091 J
Nickel	100	38.2 J	30.8 J	10.1 J	9.5 J	14.5 J	13.3 J	5.8 J	5 J	6.2 J	6.8 J	4.5 J	40 U
Potassium	--	10400 J	10400	3820 J	4190 J	7720	7890	9200	9490	9890	10300	17100 J	17100
Sodium	20000	182000	168000	14400	16000	96100	97000	54300	58500	56600	61000	43600	41900
Zinc	2000	27.2	24.2	11.8 J	14.3 J	24.1	24.5	20 U	20 U	20 U	20 U	20 U	20 U

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- # Standard for total iron and manganese is 500 ug/l
- U Compound was analyzed for but not detected
- J Estimated value
- UB Not detected base on blank results
- No standard

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 3
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 11/1/22	LF-2 10/28/22	MW-05B 10/27/22	MW-06A 10/31/22	MW-06B 11/1/22	MW-06C 10/31/22	MW-06E 11/1/22	MW-06F 10/31/22	MW-08A 10/27/22	MW-08B 10/27/22	MW-09B 10/26/22	MW-09C 10/26/22	OBS-1 10/25/22
Units in mg/l														
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value													
Alkalinity, Total	---	54.8	1130	40.6	3.6	1000	664	193	1.0 U	3.0	12.0	43.4	52.9	130
Alkalinity,Bicarbonate	---	54.8	1130	40.6	3.6	1000	664	193	1.0 U	3.0	12.0	43.4	52.9	130
Alkalinity,Carbonate	---	1.0 U	5.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloride	250	132	248 J	98.9 J	29.4	71.6	281	257	443	29.1 J	179 J	101	105	62.5
Cyanide	0.2	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Hardness	---	65.1	241	50.9	23.8	208	218	115	183	28.5	51.3	53.5	54.7	55.8
Hexavalent Chromium	0.05	0.020 UJ	0.020 U	0.020 UJ	0.020 UJ	0.020 UJ	0.020 UJ	0.020 UJ	0.020 UJ	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Nitrogen, Ammonia	2	0.17 UB	81.3	0.10 U	0.17 UB	124	53.2	22.6	0.17 UB	0.10 U	0.071 UB	0.81	1.3	12.3
Nitrogen, Kjeldahl, Total	---	0.39	85.6	0.12	0.10 U	124	55.0 J	25.0	0.11	0.10 U	0.10 U	0.39	1.7	13.0
Nitrate	10	0.050 U	0.050 U	3.5	1.1	0.050 U	0.050 U	2.1	4.0	1.5	2.5	2.9	0.57	0.35
Nitrite	1	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Phenolics, Total	0.001	0.0055 U	0.0157	0.0038 J	0.003 J	0.0089	0.0042 J	0.0034 J	0.0055 U	0.0055 U	0.0047 J	0.0055 U	0.0047 J	0.0055 U
Sulfate	250	33.2	53.6	20.0 J	5.8 J	5.0 U	5.3 J	42.5	5.0 UB	22.7 J	27.7 J	21.7 J	20.9 J	18.4 J
Total Dissolved Solids	500	388 J	1240 J	261 J	94.0	682 J	900	612 J	774	128 J	349 J	261 J	266 J	219 J

Footnotes/Qualifiers:

- mg/l Milligrams per liter
- U Compound was analyzed for but not detected
- UB Non-detect based on blank results
- J Estimated detection limit or value
- No standard or not analyzed

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 1
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Volatile Organic Compounds

Sample ID Sample Date		LF-1 5/10/23	LF-2 5/10/23	MW-05B 5/1/23	MW-06A 5/9/23	MW-06B 5/5/23	MW-06C 5/9/23	MW-06E 5/9/23	MW-06F 5/9/23	MW-08A 5/5/23	MW-08B 5/5/23	MW-09B 5/1/23	MW-09C 5/1/23	OBS-1 5/1/23
Units in ug/l														
VOLATILE COMPOUNDS														
	NYSDEC Class GA Standard or Guidance Value													
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1.1	1 U	1 U	4.6	1.6	1	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	0.75 J	1 U	1 U	3.3	0.57 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1.1	1 U	1 U	17.9	1.9	3.2	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.1	1.3	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	11.5	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	1.2	1 U	1 U	1.7	2.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.5	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	1 U	1 U	1 U	1.5	1 U	1 U	1 U	1 U	1.4	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Total Volatile Compounds	--	ND	3.4	ND	1.5	29	5.7	4.2	1.1	19.7	ND	ND	ND	ND

ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated limit
 -- No standard
 ND Not detected

Exceeds NYSDEC Class GA Standard or Guidance Value



Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		LF-1 5/10/23 Total	LF-1 5/10/23 Dissolved	LF-2 5/10/23 Total	LF-2 5/10/23 Dissolved	MW-05B 5/1/23 Total	MW-05B 5/1/23 Dissolved	MW-06A 5/9/23 Total	MW-06A 5/9/23 Dissolved	MW-06B 5/5/23 Total	MW-06B 5/5/23 Dissolved	MW-06C 5/9/23 Total	MW-06C 5/9/23 Dissolved	MW-06E 5/9/23 Total	MW-06E 5/9/23 Dissolved
Units in ug/l															
METALS	NYSDEC Class GA Standard or Guidance Value														
Aluminum	--	200 U	48.2 UB	74.6 J	83.6 UB	37.2 UB	200 U	200 U	38.7 UB	43.8 J	36 UB	53.3 J	82.3 UB	58.6 J	57.2 UB
Barium	1000	54.5 J	55.8 J	69 J	63.5 J	40.8 J	40.5 J	23.1 J	22 J	83.1 J	80.6 J	32.8 J	33.3 J	112 J	112 J
Calcium	--	9680	10100	56500	52800	11600	12000	1750	1680	30600	29500 J	55400	59100	18600	19300
Chromium	50	10 U	10 U	3.6 J	3.3 J	10 U	10 U	10 U	10 U	10 U	10 U	1.3 J	10 U	10 U	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	11200	11700	13400	12700	100 U	20 U	100 U	8 J	20900	19800 J	6460	6990	14000	14700
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	6150	6390	31700	29300	4780	4830	1610	1610	30900	28900	13200	13500	13500	13800
Manganese	300 #	1710	1810	220	210	2460	2400	9.5 J	9.2 J	51.3	49 J	150	162	192	203
Mercury	0.7	--	0.2 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	40 U	4.3 J	10.6 J	9.2 J	7.3 J	40 U	5.8 J	4.4 J	5.7 J	6.3 J	19.9 UB	13 J	17.5 UB	8.6 J
Potassium	--	10800	10900	93600	93100	8680	9220	2460 J	1780 UB	102000	97300	55400	56400	29600	29800
Sodium	20000	60300	63400	331000	317000	57100	58700	7110	7210	109000	98700	246000 J	274000	126000 J	136000
Zinc	2000	20 U	20 U	20 U	20 U	20 U	20 U	20 U	5 J	20 UJ	20 U	20 U	20 U	20 U	20 U

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- # Standard for total iron and manganese is 500 ug/l
- U Compound was analyzed for but not detected
- J Estimated value
- UB Not detected base on blank results
- No standard or not analyzed

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		MW-06F 5/9/23 Total	MW-06F 5/9/23 Dissolved	MW-08A 5/5/23 Total	MW-08A 5/5/23 Dissolved	MW-08B 5/5/23 Total	MW-08B 5/5/23 Dissolved	MW-09B 5/1/23 Total	MW-09B 5/1/23 Dissolved	MW-09C 5/1/23 Total	MW-09C 5/1/23 Dissolved	OBS-1 5/1/23 Total	OBS-1 5/1/23 Dissolved
Units in ug/l													
NYSDEC Class GA Standard or Guidance Value													
METALS													
Aluminum	--	233	260	56.7 J	52.4 UB	200 U	41.8 UB	33.9 UB	200 U	32.3 UB	200 U	35 UB	200 U
Barium	1000	257	252	69.2 J	64.8 J	67 J	63.9 J	82.4 J	83.2 J	57.5 J	57.6 J	31.3 J	32.4 J
Calcium	--	44000	44800	7480	7420 J	14300	13900 J	11000	11600	9250	9680	10700	11600
Chromium	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Copper	200	25 U	25 U	3.9 J	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 #	100 U	8.5 J	100 U	20 U	100 U	20 U	100 U	20 U	100 U	20 U	23.7 J	23.5
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	17000	17100	5130	4720	4120	3930	5420	5490	5850	6050	6760	7060
Manganese	300 #	141	144	135	118 J	554	535 J	2000	2000	232	243	2270	2330
Mercury	0.7	0.26	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	30.6 J	30.3 J	9.4 J	10.2 J	16.2 J	16.2 J	40 U	40 U	5.3 J	40 U	40 U	40 U
Potassium	--	10400	10200	5870	5520	7830	7660	9160	9660	9870	10800	17000	18400
Sodium	20000	180000	183000	19200	17700	91800	89900	54800	56100	55900	59400	40100	42300
Zinc	2000	24.6	23.6	9.9 J	7.7 J	26.9	26.9 J	20 U	20 U	20 U	20 U	20 U	20 U

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- # Standard for total iron and manganese is 500 ug/l
- U Compound was analyzed for but not detected
- J Estimated value
- UB Not detected base on blank results
- No standard or not analyzed

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 3
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 5/10/23	LF-2 5/10/23	MW-05B 5/1/23	MW-06A 5/9/23	MW-06B 5/5/23	MW-06C 5/9/23	MW-06E 5/9/23	MW-06F 5/9/23	MW-08A 5/5/23	MW-08B 5/5/23	MW-09B 5/1/23	MW-09C 5/1/23	OBS-1 5/1/23
Units in mg/l														
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value													
Alkalinity, Total	---	57.4	1100	42.5	2.1 J	1020	708	217	1 U	33.5	9.2	48.8	94.5	163
Alkalinity,Bicarbonate	---	57.4	1100	42.5	2.1 J	1020	708	217	1 U	33.5	9.2	48.8	94.5	163
Alkalinity,Carbonate	---	1 UJ	1 UJ	1 U	1 UJ	1 U	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U
Chloride	250	99.4	240	102	10.1	69	267	211	426	30.5	173	101	104	54.8
Cyanide	0.2	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Hardness	---	49.5	272	48.6	11	204	193	102	180	39.8	52.7	49.8	47.2	54.6
Hexavalent Chromium	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Nitrogen, Ammonia	2	0.11	72.9	0.1 U	0.1 U	160 J	56.4	26.5	0.17	0.1 U	0.06 J	1	1.3	12.8
Nitrogen, Kjeldahl, Total	---	0.74	85.3	0.1 U	0.23	110	49.7	23.2	0.89	0.18	0.1 U	0.72	1.7	12.8
Nitrate	10	0.05 UJ	0.05 UJ	0.5 U	0.4 J	0.05 UJ	0.05 UJ	1.9 J	4.1 J	1.4 J	2.3 J	0.64	1.5	0.17
Nitrite	1	0.028 J	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
Phenolics, Total	0.001	0.0055 U	0.0055 U	0.005 U	0.0055 U	0.0278	0.0151	0.0037	0.005 U	0.005 U	0.0034 J	0.0028 J	0.0050 U	0.005 U
Sulfate	250	21.9	31.8	20.1	6.7	0.94 UB	1.7 J	40.6	0.23 UB	29.9	26.2	19	18.9	19.1
Total Dissolved Solids	500	264 J	690 J	266 J	29	594	950	496	692	115	394	262 J	256 J	202 J

Footnotes/Qualifiers:

- mg/l Milligrams per liter
- U Compound was analyzed for but not detected
- UB Non-detect based on blank results
- J Estimated detection limit or value
- No standard or not analyzed

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 1
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Volatile Organic Compounds

Sample ID Sample Date		LF-1 10/11/23	LF-2 10/11/23	MW-05B 10/10/23	MW-06B 10/12/23	MW-06C 10/12/23	MW-06E 10/12/23	MW-06F 10/12/23	MW-08A 10/11/23	MW-08B 10/11/23	MW-09B 10/10/23	MW-09C 10/10/23	OBS-1 10/10/23
Units in ug/l													
VOLATILE COMPOUNDS													
	NYSDEC Class GA Standard or Guidance Value												
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	2	1 UJ	2	2	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ
Benzene	1	1 U	1.2	1 U	1 U	1.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	2.4	1 UJ	1 U	5.4	1.4	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1.1	1.5	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	2.2	1 U	1 U	2.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.4	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	2.8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Total Volatile Compounds	--	2.8	7.8	ND	2	11.7	1.4	1.1	5.9	ND	ND	ND	ND

ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated limit
 -- No standard
 ND Not detected

Exceeds NYSDEC Class GA Standard or Guidance Value



Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		LF-1 10/11/23 Total	LF-1 10/11/23 Dissolved	LF-2 10/11/23 Total	LF-2 10/11/23 Dissolved	MW-05B 10/10/23 Total	MW-05B 10/10/23 Dissolved	MW-06B 10/12/23 Total	MW-06B 10/12/23 Dissolved	MW-06C 10/12/23 Total	MW-06C 10/12/23 Dissolved	MW-06E 10/12/23 Total	MW-06E 10/12/23 Dissolved
Units in ug/l													
METALS	NYSDEC Class GA Standard or Guidance Value												
Aluminum	--	200 U	200 U	56.9 UB	58.2 J	200 U	200 U	200 U	200 U	49.4 J	37.8 J	32.4 J	200 U
Barium	1000	89.3 J	91 J	62.4 J	64.2 J	42.3 J	45.5 J	45.2 J	40.9 J	37.9 J	33.8 J	121 J	108 J
Calcium	--	15100	13900	51400	47000	11400	12700	18500	15800	50800	42300	20300	17100
Chromium	50	10 U	10 U	6.2 J	7.3 J	10 U	10 U	10 U	10 U	10 U	1.5 J	10 U	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300	9420	16600	9650	10300	100 U	20 U	12100	10100	7070	5920	17700	14600
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	9920	10000	28100	27400	5050	5280	17700	16100	19800	17400	15300	13800
Manganese	300	2530	2480	184	182	2260	2430	30.7	26.2	119	103	207	178
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	7.5 J	7.9 J	15.8 J	16.7 J	8.1 J	8.1 J	40 U	4.6 J	12.2 J	13.5 J	7.6 J	10.2 J
Potassium	--	15900	14600	122000	114000	9030	10100	52000	47300	89900	79900	29800	27000
Sodium	20000	76700	76800	386000	352000	53700	60900	90800	77000	291000	243000	152000	127000
Zinc	2000	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	5.7 J
Iron & Manganese	500	11950	19080	9834	10482	2260	2430	12131	10126	7189	6023	17907	14778

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- U Compound was analyzed for but not detected
- J Estimated value
- UB Not detected base on blank results
- No standard or not analyzed

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		MW-06F 10/12/23 Total	MW-06F 10/12/23 Dissolved	MW-08A 10/11/23 Total	MW-08A 10/11/23 Dissolved	MW-08B 10/11/23 Total	MW-08B 10/11/23 Dissolved	MW-09B 10/10/23 Total	MW-09B 10/10/23 Dissolved	MW-09C 10/10/23 Total	MW-09C 10/10/23 Dissolved	OBS-1 10/10/23 Total	OBS-1 10/10/23 Dissolved
Units in ug/l													
	NYSDEC Class GA Standard or Guidance Value												
METALS													
Aluminum	--	272	219	55.6 J	37.8 J	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	304	266	45.2 J	46.4 J	71.5 J	69.7 J	87.2 J	96.2 J	63.1 J	69.1 J	30.6 J	33.2 J
Calcium	--	52400	43500	3070	3110	17600	16300	10600	12000	10100	11300	9960	11000
Chromium	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Copper	200	25 U	25 U	5.9 J	6.1 J	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300	28.9 J	8.2 J	100 U	20 U	100 U	20 U	100 U	20 U	100 U	20 U	100 U	16.3 J
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	20500	18400	3570	3640	4680	4750	5110	5420	6440	6790	6680	6950
Manganese	300	170	143	78.1	80	559	544	2530	2800	245	270	2190	2350
Mercury	0.7	0.25	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	35.6 J	31.9 J	9.6 J	9.7 J	16.5 J	16.7 J	40 U	5.1 J	5 J	4.9 J	5.1 J	5.7 J
Potassium	--	12300	11200	3780 J	3750 J	9910	8580	8420	9580	10200	11500	15900	17700
Sodium	20000	211000	174000	10100	9890	107000	104000	53400	61500	55100	62500	36300	41200
Zinc	2000	30.7	27.9	14.3 J	15 J	25.8	25.7	20 U	20 U	20 U	20 U	20 U	20 U
Iron & Manganese	500	198.9	151.2	78.1	80	559	544	2530	2800	245	270	2190	2366

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- U Compound was analyzed for but not detected
- J Estimated value
- UB Not detected base on blank results
- No standard or not analyzed

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 3
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 10/11/23	LF-2 10/11/23	MW-05B 10/10/23	MW-06B 10/12/23	MW-06C 10/12/23	MW-06E 10/12/23	MW-06F 10/12/23	MW-08A 10/11/23	MW-08B 10/11/23	MW-09B 10/10/23	MW-09C 10/10/23	OBS-1 10/10/23
Units in mg/l													
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value												
Alkalinity, Total	---	53.4	1140	30.2	406 J	811 J	142 J	1 UJ	2.5	20.6	33.3	54.9	141
Alkalinity,Bicarbonate	---	53.4	1140	30.2	406	811	142	1 U	2.5	20.6	33.3	54.9	141
Alkalinity,Carbonate	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloride	250	149	321	94	77.8	245	239	453	22.5	181	94.9	97.6	43.4
Cyanide	0.2	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Hardness	---	78.6	244	49.3	119	208	114	215	22.4	63.2	47.5	51.7	52.4
Hexavalent Chromium	0.05	0.02 U	0.02 U	0.02 U	0.038 J	0.049 J	0.058 J	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ
Nitrogen, Ammonia	2	2.3	102	0.1 U	64.8	93.5	19.9	0.26	0.1 U	0.13	0.3	1.7	10.5
Nitrogen, Kjeldahl, Total	---	2.7 J	95.5 J	0.3 J	45.4 J	74.6 J	17.5 J	0.1 UJ	0.12 J	0.1 UJ	0.31 J	0.85 J	11.3 J
Nitrate	10	0.05 U	0.05 U	4.1	0.05 U	0.05 U	0.76	3.5	0.46	2.3	3.6	0.26	0.14
Nitrite	1	0.056	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Phenolics, Total	0.001	0.01 UJ	0.0084 UJB	0.01 U	0.0078 UB	0.0336 UB	0.0099 UB	0.0092 UB	0.104 J	0.0100 UJ	0.01 U	0.0100 U	0.0092 UB
Sulfate	250	25.4	8.2	18.2	6.8 J	2 J	59.3 J	0.93 J	16.3	29.6	19.3	20.2	19.1
Total Dissolved Solids	500	372	1540	246	476	1860	550	830	75	374	239	267	232

Footnotes/Qualifiers:
 mg/l Milligrams per liter
 U Compound was analyzed for but not detected
 UB Non-detect based on blank results
 J Estimated detection limit or value
 -- No standard or not analyzed
Exceeds NYSDEC Class GA Standard or Guidance Value

Table 1
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Volatile Organic Compounds

Sample ID Sample Date		LF-1 6/4/24	LF-2 6/4/24	MW-05B 5/29/24	MW-06A 6/3/24	MW-06B 6/3/24	MW-06C 5/30/24	MW-06E 5/30/24	MW-06F 5/30/24	MW-08A 6/3/24	MW-08B 6/3/24	MW-09B 5/29/24	MW-09C 5/28/24	OBS-1 5/28/24
Units in ug/l														
VOLATILE COMPOUNDS														
	NYSDEC Class GA Standard or Guidance Value													
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	<u>3.4</u>	1 U	1 U	2.5	1.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	<u>2.9</u>	1 U	1 U	<u>1.2</u>	0.59 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	3	1 U	1 U	<u>13.6</u>	1.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.7	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	<u>10.5</u>	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	1 U	<u>7.5</u>	1 U	1 U	1.3	1.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	5	1 UJ	1 UJ	1 U	1 UJ	1 UJ	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 U	1 U
tert-Butylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene(PCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	<u>5.1 J</u>	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (TCE)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m&p-Xylene	5	2 U	2.1 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	5	3 U	2.1 J	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Total Volatile Compounds	--	ND	20	ND	ND	20.1	5.39	ND	ND	17.3	ND	ND	ND	ND

ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated limit or value
 -- No standard
 ND Not detected

Exceeds NYSDEC Class GA Standard or Guidance Value



Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		LF-1 6/4/24 Total	LF-1 6/4/24 Dissolved	LF-2 6/4/24 Total	LF-2 6/4/24 Dissolved	MW-05B 5/29/24 Total	MW-05B 5/29/24 Dissolved	MW-06A 6/3/24 Total	MW-06A 6/3/24 Dissolved	MW-06B 6/3/24 Total	MW-06B 6/3/24 Dissolved	MW-06C 5/30/24 Total	MW-06C 5/30/24 Dissolved
Units in ug/l													
METALS													
	NYSDEC Class GA Standard or Guidance Value												
Aluminum	--	200 U	200 U	74.5 J	75.7 J	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	71.1 J	71.9 J	59.4 J	58.6 J	50.9 J	94.9 J	200 U	200 U	92.1 J	91.5 J	29.8 J	30.6 J
Calcium	--	13500	13900	42100	41700	14400	11600	1330	1300	39000	37300	50200	51700
Chromium	50	10 U	10 U	12.5	12.3	10 U	10 U	1.3 J	10 U	1.8 J	1.1 J	1.3 J	1.3 J
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300	14300	14400	10100	10100	100 U	100 U	142	90.3 J	25700	25300	6100	6250
Lead	25	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	9770	10000	25100	24100	6190	5530	1310	1300	36300	34200	13100	13200
Manganese	300	1980	2040	138	137	2730	2260	8.8 J	7.8 J	62.5	61.8	132	137
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	40 U	40 U	22.5 J	22.7 J	9.1 J	40 U	16.2 J	16.3 J	40 U	13.6 J	11.2 J	11.3 J
Potassium	--	11300	11500	164000	160000	9720	9330	2660 UB	2720 UB	70800	71500	54600	56500
Sodium	20000	76100	76300	493000	478000	67200	61100	5180	4370 J	134000	119000	268000	278000
Zinc	2000	20 U	20 U	20 U	20 U	20 U	20 U	5.8 J	5 J	20 U	20 U	20 U	20 U
Iron & Manganese	500	16280	16440	10238	10237	2730	2260	150.8	98.1	25763	25362	6232	6387

Footnotes/Qualifiers:

- ug/l Micrograms per liter
- U Compound was analyzed for but not detected
- J Estimated value
- UB Not detected base on blank results
- No standard or not analyzed

Exceeds NYSDEC Class GA Standard or Guidance Value

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID Sample Date Type:		MW-06E 5/30/24 Total	MW-06E 5/30/24 Dissolved	MW-06F 5/30/24 Total	MW-06F 5/30/24 Dissolved	MW-08A 6/3/24 Total	MW-08A 6/3/24 Dissolved	MW-08B 6/3/24 Total	MW-08B 6/3/24 Dissolved	MW-09B 5/29/24 Total	MW-09B 5/29/24 Dissolved	MW-09C 5/28/24 Total	MW-09C 5/28/24 Dissolved	OBS-1 5/28/24 Total
Units in ug/l														
METALS														
	NYSDEC Class GA Standard or Guidance Value													
Aluminum	--	200 U	200 U	255	245	95.6 J	80.2 J	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Barium	1000	117 J	115 J	281	280	72.9 J	70.4 J	79.7 J	78.8 J	93 J	52.3 J	65 J	66.3 J	31.8 J
Calcium	--	18600	18400	49300	49600	5400	5170	18200	17100	11600	14500	10800	10700	11600
Chromium	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Copper	200	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300	5620	5520	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Lead	25	5 U	5 U	5 U	5 U	5 U	1.8 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Magnesium	35000	10700	10600	19400	19400	5610	5320	5140	4880	5400	6360	6570	6740	6730
Manganese	300	215	213	154	152	127	122	677	665	2250	2780	296	301	2010
Mercury	0.7	0.2 U	0.2 U	0.34	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	40 U	40 U	27.1 J	27.1 J	12.8 J	21.8 J	18.2 J	27.9 J	40 U	40 U	40 U	40 U	40 U
Potassium	--	18600	18600	12100	12100	6750	7270	9320	9760	8830	10200	12100	12500	17600
Sodium	20000	164000	163000	213000	215000	23100	20000	114000	98500	60300	68400	65200	65600	36900
Zinc	2000	14.1 J	12.8 J	29.2	28.9	14.4 J	14.4 J	34.4	33.8	20 U	20 U	20 U	20 U	20 U
Iron & Manganese	500	5835	5733	154	152	127	122	677	665	2250	2780	296	301	2010

Footnotes/Qualifiers:
 ug/l Micrograms per liter
 U Compound was analyzed for but not detected
 J Estimated value
 UB Not detected base on blank results
 -- No standard or not analyzed
Exceeds NYSDEC Class GA Standard or Guidance Value

Table 2
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Total and Dissolved Metals

Sample ID		OBS-1
Sample Date		5/28/24
Type:		Dissolved
Units in ug/l		
	NYSDEC Class GA Standard or Guidance Value	
METALS		
Aluminum	--	200 U
Barium	1000	33 J
Calcium	--	11600
Chromium	50	10 U
Copper	200	25 U
Iron	300	100 U
Lead	25	5 U
Magnesium	35000	6890
Manganese	300	<u>2070</u>
Mercury	0.7	0.2 U
Nickel	100	40 U
Potassium	--	18300
Sodium	20000	<u>37400</u>
Zinc	2000	20 U
Iron & Manganese	500	<u>2070</u>

Table 3
 Old Bethpage Landfill Complex
 Post-Termination Groundwater Monitoring Program
 Monitoring Well Sample Results
 Leachate Indicator Parameters

Sample ID Sample Date		LF-1 6/4/24	LF-2 6/4/24	MW-05B 5/29/24	MW-06A 6/3/24	MW-06B 6/3/24	MW-06C 5/30/24	MW-06E 5/30/24	MW-06F 5/30/24	MW-08A 6/3/24	MW-08B 6/3/24	MW-09B 5/29/24	MW-09C 5/28/24	OBS-1 5/28/24
Units in mg/l														
LEACHATE INDICATORS	NYSDEC Class GA Standard or Guidance Value													
Alkalinity, Total	---	63.1	1650	31.6	5.7	738	624	63.9	1 U	2.6 UB	12.1	32.3	51.9	127
Alkalinity,Bicarbonate	---	63.1	1650	31.6	5.7	738	624	63.9	1 U	2.6 UB	12.1	32.3	51.9	127
Alkalinity,Carbonate	---	1 U	5 U	1 UJ	1 U	1 U	1 UJ	1 UJ	1 UJ	1 U	1 U	1 UJ	1 UJ	1 UJ
Chloride	250	100	354	103	6	93.3	228	233	432	33.6	174	82.1	94.6	41.5
Cyanide	0.2	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Hardness	---	73.9	208	61.4	8.72	247	179	90.5	203	36.6	66.6	51.2	54	56.7
Hexavalent Chromium	0.05	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 U
Nitrogen, Ammonia	2	1.1	157	0.074 UB	1.2	95	49	7.2	0.33 UB	0.063 UB	0.16 UB	0.53	3.9	13
Nitrogen, Kjeldahl, Total	---	1.8	136	0.1 U	1.4	84.9	43.9	6.4	0.1 U	0.47	0.43	0.1 U	3.7	12.4
Nitrate	10	0.05 U	0.05 U	4.3	0.12	0.05 U	0.05 U	1.5	4	1.2	2.3	3.8	1.5	0.039 J
Nitrite	1	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.028 J	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U
Phenolics, Total	0.001	0.0117	0.0185	0.0109	0.0182	0.0197	0.0055 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.0050 U	0.005 U	0.005 U
Sulfate	250	30	5 U	17.9	6.2	1.7 J	0.7 J	61.2	5 U	31	33.3	20.6	20.1 J	17.1 J
Total Dissolved Solids	500	300	1600	260	28	684	860	558	766	108	390	225	245 J	181 J

Footnotes/Qualifiers:

- mg/l Milligrams per liter
- U Compound was analyzed for but not detected
- UB Non-detect based on blank results
- J Estimated detection limit or value
- No standard or not analyzed

Exceeds NYSDEC Class GA Standard or Guidance Value