D&B ENGINEERS AND ARCHITECTS

DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

Old Bethpage Landfill

Post-Termination Groundwater Monitoring Program

Second Semiannual Report of 2023

December 2023

D&B ENGINEERS AND ARCHITECTS

SECOND SEMIANNUAL REPORT OF 2023

OLD BETHPAGE LANDFILL
POST-TERMINATION GROUNDWATER MONITORING PROGRAM

Prepared for:

TOWN OF OYSTER BAY
DEPARTMENT OF PUBLIC WORKS
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SECOND SEMIANNUAL REPORT OF 2023
OLD BETHPAGE LANDFILL
POST-TERMINATION GROUNDWATER MONITORING PROGRAM

TABLE OF CONTENTS

List of Appendices

List of Figures

List of Tables

1.0 INTRODUCTION

This Second Semiannual Report of 2023 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 2023 and is the fourteenth 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 has been prepared and previously 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 fourteenth 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-06B, MW-06C, MW-06E, MW-06F, MW-08A, MW-08B, MW-09B, MW-09C and OBS-1 were sampled on October 10, 11 and 12, 2023 as part of the second semiannual groundwater sampling event of 2023. The locations of these monitoring wells are depicted in **Figure 1**. It should be noted that monitoring well MW-06A, which is included in the groundwater sampling network could not be purged or sampled due to insufficient water within the well.

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 substantially 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 three 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 2023 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

Twelve (12) groundwater samples, one field duplicate, one field blank and three trip blanks were collected as part of the second semiannual groundwater sampling event of 2023 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 package 70273550.

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

- The percent recoveries (%Rs) were below the QC limits in the matrix spike (MS) and/or MS duplicate for 1,2-dichlorobenzene, 1,4-dichlorobenzene, and chlorobenzene associated with samples OBS-1, MW-09C, MW-09B, MW-05B, and TRIP BLANK. They were qualified as an estimated limit (UJ) in the associated samples.

- Total aluminum was detected in the blanks and was qualified as non-detect (UB) in sample LF-2.

- Numerous samples were originally analyzed for alkalinity at a dilution. Based on these results, the samples were reanalyzed at no dilution and the non-diluted results were reported.

- Total and dissolved hexavalent chromium were analyzed outside of holding times associated with samples MW-06B, MW-06C, MW-06E, MW-06F, and OBS-1 and were qualified as estimated (UJ/J).

- Phenolics was detected in the blanks and qualified as non-detect (UB) in samples LF-2, BLIND DUPLICATE-1, MW-06B, MW-06C, MW-06E, MW-06F, and OBS-1.

- The relative standard deviations (RPDs) were above the QC limits in the duplicate for phenolics associated with samples MW-08A, MW-08B, LF-2, and LF-1 and total kjeldahl

nitrogen associated with samples MW-08A, MW-08B, LF-2, LF-1, BLIND DUPLICATE-1, MW-06B, MW-06C, MW-06E, MW-06F, and FIELD BLANK. They were qualified as estimated (J/UJ) in the associated samples.

- The %R was below the QC limit in the matrix spike for total alkalinity associated with samples MW-06B, MW-06C, MW-06E, MW-06F, and FIELD BLANK and was qualified as estimated (J/UJ).

- The %R was above the QC limit in the matrix spike for sulfate associated with samples BLIND DUPLICATE-1, MW-06B, MW-06C, MW-06E, MW-06F, and FIELD BLANK; phenolics associated with samples OBS-1, MW-09C, MW-09B, MW-05B, MW-08A, MW-08B, LF-2, and LF-1; and total kjeldahl nitrogen associated with all samples. The following were qualified as estimated (J): sulfate associated with samples BLIND DUPLICATE-1, MW-06B, MW-06C, MW-06E, and MW-06F; phenolics in sample MW-08A; and total kjeldahl nitrogen associated with all samples except for MW-06F and MW-08B.

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 2023 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

Detectable concentrations of VOCs were identified in 7 of the 12 groundwater monitoring wells, including LF-1, LF-2, MW-06B, MW-06C, MW-06E, MW-06F and MW-08A. The highest concentration of total VOCs of 11.7 ug/l was detected at MW-06C. The sample collected from LF-2 exhibited the next highest concentration of total VOCs of 7.8 ug/l, followed in

decreasing order by MW-08A, LF-1, MW-06B, MW-06E and MW-06F. VOCs were detected at concentrations above Class GA groundwater standards and guidance values in well MW-06C as follows:

- Benzene was detected in MW-06C at a concentration of 1.7 ug/l, slightly above the Class GA standard of 1 ug/l.
- Chlorobenzene was detected in MW-06C at a concentration of 5.4 ug/l, slightly 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 12 groundwater monitoring wells (LF-1, LF-2, MW-06B, MW-06C and MW-06E), with concentrations ranging from 7,070 ug/l in MW-06C to a maximum concentration of 17,700 ug/l in MW-06E. 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 and OBS-1 at concentrations of 2,530 ug/l, 2,260 ug/l, 559 ug/l, 2,530 ug/l and 2,190 ug/l, respectively. Dissolved manganese concentrations were generally similar to their respective total concentrations.
- Total sodium was detected above the Class GA groundwater standard of 20,000 ug/l in 11 of the 12 groundwater monitoring wells, with concentrations ranging from 36,300 ug/l in OBS-1 to a maximum of 386,000 ug/l in LF-2. In general, dissolved sodium concentrations were similar to their respective total concentrations.

3.2.3 Leachate Indicators

Chloride, hexavalent chromium, ammonia, total phenols, and total dissolved solids were detected above groundwater standards in the collected samples, as follows:

- Chloride was detected above the Class GA groundwater standard of 250 mg/l in 2 of the 12 groundwater monitoring wells, with concentrations of 321 mg/l in LF-2 and 453 mg/l in MW-06F.

- Hexavalent chromium was detected slightly above the Class GA groundwater standard of 0.05 mg/l in well MW-06E, at an estimated concentration of 0.058 mg/l.

- Ammonia was detected above the Class GA groundwater standard of 2 mg/l in 6 of the 13 groundwater monitoring wells, with concentrations ranging from 2.3 mg/l in LF-1 to a maximum of 102 mg/l in LF-2.

- Total phenols were detected above the Class GA groundwater standard of 0.001 mg/l in well MW-08A, at an estimated concentration of 0.104 mg/l.

- Total dissolved solids (TDS) were detected above the Class GA groundwater standard of 500 mg/l in 4 of the 12 groundwater monitoring wells, with concentrations ranging from 550 mg/l in MW-06E to a maximum of 1,860 mg/l at MW-06C.

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 fourteen 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, have shown relatively stable concentrations of TVOCs since ceasing operation of the recovery wells. Monitoring well LF-1, since May of 2022 exhibits a decreasing trend in TVOCs, with the last two rounds of TVOCs recorded at 3 ug/l or less. Monitoring well LF-2, since May of 2021 exhibits a decreasing trend in TVOCs. However, the last two monitoring events have shown an increase from non-detectable concentrations of VOCs in October 2022 to the most recent sampling event of TVOCs at 7.8 ug/l. Monitoring wells MW-06C and MW-06B have shown increasing concentrations of TVOCs since ceasing operation of the recovery wells. TVOCs in well MW-06B exhibited a substantial decrease in TVOCs from the prior sampling event. TVOCs in well MW-06B decreased from 29 ug/l to 2 ug/l. 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 2020.
- Well MW-06C shows a slight increasing trend in manganese concentrations since the Fall of 2019.
- Well MW-06F shows a slight increasing trend 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; however, ammonia concentrations have remained stable over the past three monitoring events.
- 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.
- Well MW-08A showed an increase in total phenolics; however, this well has not historically exhibited concentrations of total phenolics above the Class GA Standard and therefore this detection may be an anomaly.

4.0 CONCLUSIONS

The following conclusions are made based on the above information:

- Overall, the results of the second semiannual 2023 sampling event (fourteenth 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 (select metals and ammonia) continue to be evident in well LF-1, as well as in well LF-2 (select metals, ammonia, chloride, and total dissolved solids). .

- 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 most likely 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. MW-06B did show a sizeable decrease in TVOCs in comparison to the prior sampling event.

- With respect to landfill-related VOCs, two of the aromatic hydrocarbons, benzene and chlorobenze, exceeded their individual Class GA groundwater standard in MW-06C.

- Regarding chlorinated solvents, PCE was detected below the groundwater standard in downgradient well MW-08A. This is 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

COUNTY RECHARGE BASIN NO. 528

GROUNDWATER TREATMENT FACILITY

BETHPAGE SWEET HOLLOW ROAD

CLAREMONT ROAD

TOWN RECHARGE BASIN NO. 1

SWAMP ROAD

LF-4

LF-3

WINDING ROAD

M-29A-R

M-30A

M-30B-R

M-29B

FORMER CLAREMONT POLYCHEMICAL SITE

LANDFILL BOUNDARY

ROUND SWAMP ROAD

PHASE II PIT

OLD BETHPAGE LANDFILL

LF-2

MW-8A,B,C

TW-1

MW-10A,B,C,D

TW-2

TW-3-R

LF-1

MW-6A,B,C,D,E,F

TOWN PROPERTY BOUNDARY

RW-5

NASSAU COUNTY FIRE SERVICE ACADEMY

TOWN RECHARGE BASIN NO. 33

MW-5A,B

TOWN RECHARGE BASIN NO. 15 (NYS BASIN NO. 938)

MW-9A,B,C

RW-4

RW-3

RW-1

RW-2

MW-7A,B-R

OBS-1

BETHPAGE GOLF COURSE

SWAMP ROAD

ROUND SWAMP ROAD

MW-11A,B

QUAKER MEETING HOUSE ROAD

MELVILLE ROAD

LEGEND:

MW-9A,B,C ● OLD BETHPAGE LANDFILL MONITORING WELL

RW-1 ◉ OLD BETHPAGE LANDFILL RECOVERY WELL

NOTE:

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

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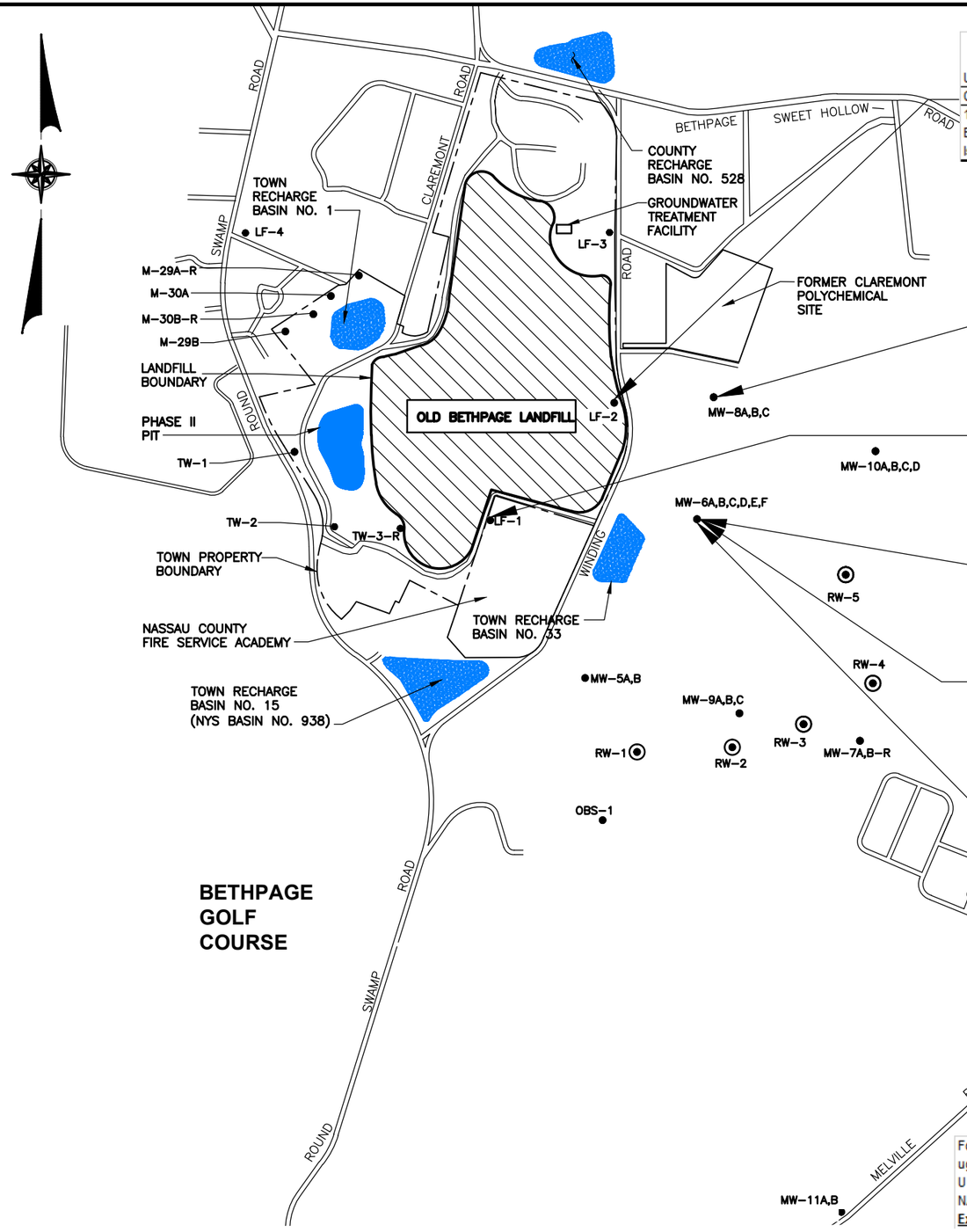
OLD BETHPAGE LANDFILL
TOWN OF OYSTER BAY, NEW YORK

GROUNDWATER MONITORING WELL LOCATION MAP

SCALE: 1"=800'

FIGURE 1

J:_WaterSupply\3617 (TOB Groundwater Monitoring)\2017\Landfill Sampling 1Q 2017\3617-C-well location map fig 1.dwg, Layout1, 12/27/2022 3:45:45 PM, droot



Units in ug/l	Sample ID	LF-2	LF-2	LF-2	LF-2
	Sample Date	5/12/22	10/28/22	5/10/23	10/11/23
Compound	GA ST/ GV				
1,4-Dichlorobenzene	3	**3.2**	U	1.1	2
Benzene	1	**2.8**	U	0.75 J	1.2
Isopropylbenzene (Cumene	5	**8.6**	U	1.2	2.2

Units in ug/l	Sample ID	MW-08A	MW-08A	MW-08A	MW-08A
	Sample Date	5/10/22	10/27/22	5/5/23	5/5/23
Compound	GA ST/ GV				
Cis-1,2-Dichloroethylene	5	**11.5**	**6.6**	**11.5**	U
Tetrachloroethylene(PCE)	5	**6.4**	**7**	**5.5**	4.4

Units in ug/l	Sample ID	LF-1	LF-1	LF-1	LF-1
	Sample Date	5/12/22	11/1/22	5/10/23	10/11/23
Compound	GA ST/ GV				
Trichloroethylene (TCE)	5	**22.3**	**8.4**	U	2.8

Units in ug/l	Sample ID	MW-06A	MW-06A	MW-06A	MW-06A
	Sample Date	5/11/22	10/31/22	5/9/23	10/11/23
Compound	GA ST/ GV				
Trichloroethylene (TCE)	5	U	**7.7**	1.5	NA

Units in ug/l	Sample ID	MW-06B	MW-06B	MW-06B	MW-06B
	Sample Date	5/11/22	11/1/22	5/5/23	10/12/23
Compound	GA ST/ GV				
1,4-Dichlorobenzene	3	**3.8**	**3.8**	**4.6**	2
Benzene	1	**3.6**	**2.1**	**3.3**	U
Chlorobenzene	5	**12.9**	**17.4**	**17.9**	U

Units in ug/l	Sample ID	MW-06C	MW-06C	MW-06C	MW-06C
	Sample Date	5/10/22	10/31/22	5/9/23	10/12/23
Compound	GA ST/GV				
Benzene	1	U	U	0.57 J	**1.7**
Chlorobenzene	5	U	1.9	1.9	**5.4**

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 Valu

LEGEND:

MW-9A,B,C ● OLD BETHPAGE LANDFILL MONITORING WELL

RW-1 ⊙ OLD BETHPAGE LANDFILL RECOVERY WELL

NOTE:

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

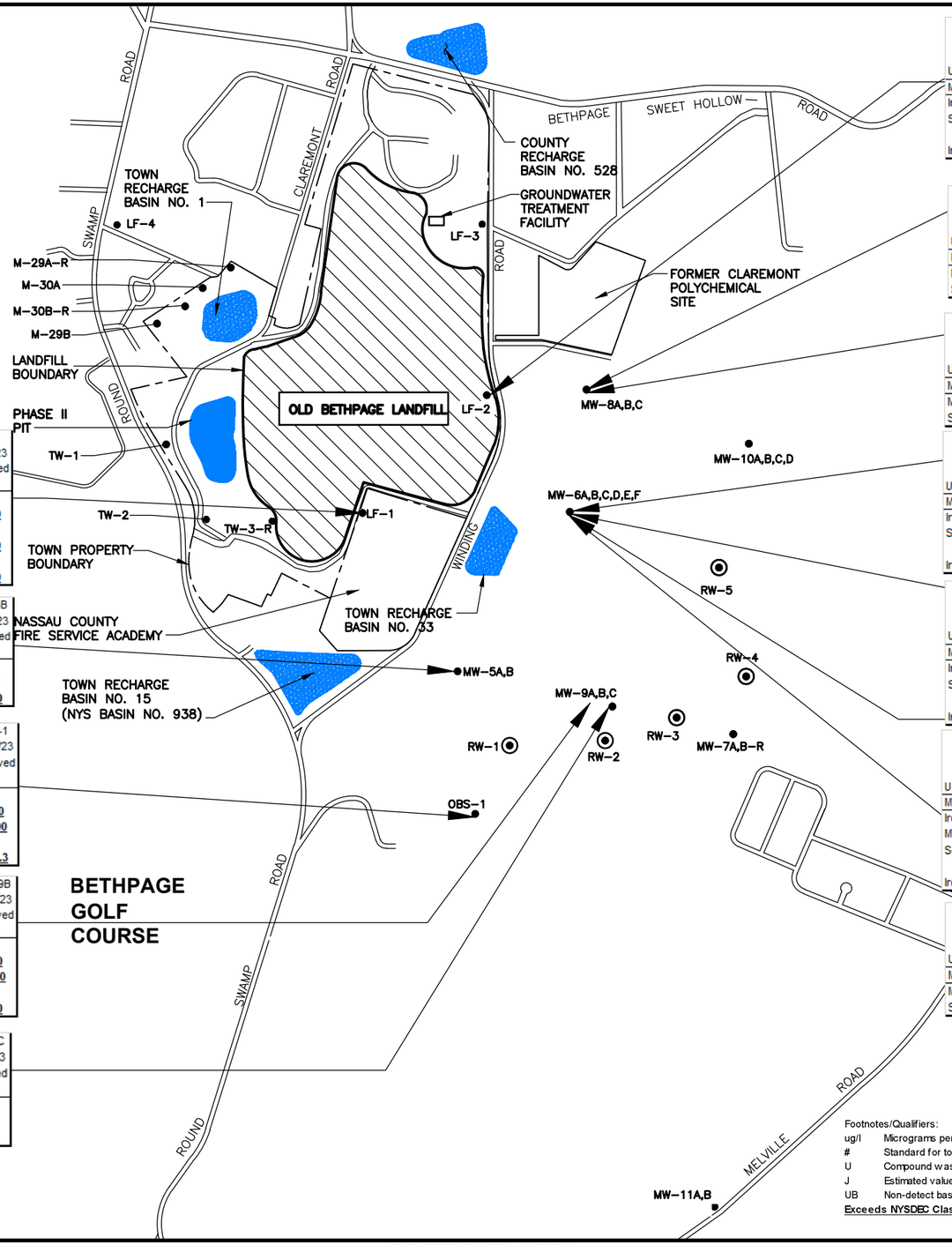
D&B ENGINEERS AND ARCHITECTS

OLD BETHPAGE LANDFILL
TOWN OF OYSTER BAY, NEW YORK
VOLATILE ORGANIC COMPOUND CONCENTRATIONS DETECTED ABOVE GROUNDWATER QUALITY STANDARDS/GUIDANCE VALUES, 2022 - 2023

SCALE: 1"=900'

FIGURE 2

F:\3617\3617-07\dwg\3617-07-C-PL03.dwg, VOCs, 12/27/2022 3:42:12 PM, droot



	Sample ID	LF-1	LF-1	LF-1	LF-1	LF-1	LF-1	LF-1	LF-1
	Sample Date	5/12/22	5/12/22	11/1/22	11/1/22	5/10/23	5/10/23	10/11/23	10/11/23
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Iron	300	**22400**	**23900**	**16000**	**15200**	**11200**	**11700**	**9420**	**16600**
Manganese	300	**3330**	**3590**	**2640**	**2330**	**1710**	**1810**	**2530**	**2480**
Sodium	20000	**77700**	UBJ	**77200**	**72800**	**60300**	**63400**	**76700**	**76800**
Iron&Manganese	500	**25730**	**27490**	**18640**	**17530**	**12910**	**13510**	**11950**	**19080**

	Sample ID	MW-05B	MW-05B	MW-05B	MW-05B	MW-05B	MW-05B	MW-05B	MW-05B
	Sample Date	5/5/22	5/5/22	10/27/22	10/27/22	5/1/23	5/1/23	10/10/23	10/10/23
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Manganese	300	**2510**	**2600**	**2660**	**2640**	**2460**	**2400**	**2260**	**2430**
Sodium	20000	**57000**	UB	**57000**	**59400**	**57100**	**58700**	**53700**	**60900**

	Sample ID	OBS-1	OBS-1	OBS-1	OBS-1	OBS-1	OBS-1	OBS-1	OBS-1
	Sample Date	5/5/22	5/5/22	10/25/22	10/25/22	5/1/23	5/1/23	10/10/23	10/10/23
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Manganese	300	**2170**	**2230**	**2100**	**2120**	**2270**	**2330**	**2190**	**2350**
Sodium	20000	**41700**	UB	**43600**	**41900**	**40100**	**42300**	**36300**	**41200**
Iron&Manganese	500	**2170**	**2230**	**2123.9**	**2120**	**2293.7**	**2353.5**	**2190**	**2366.3**

	Sample ID	MW-09B	MW-09B	MW-09B	MW-09B	MW-09B	MW-09B	MW-09B	MW-09B
	Sample Date	5/5/22	5/5/22	10/26/22	10/26/22	5/1/23	5/1/23	10/10/23	10/10/23
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Manganese	300	**2960**	**2970**	**2330**	**2410**	**2000**	**2000**	**2530**	**2800**
Sodium	20000	**55800**	UB	**54300**	**58500**	**54800**	**56100**	**53400**	**61500**
Iron&Manganese	500	**2960**	***2970***	**2351.8**	**2410**	**2000**	**2000**	**2530**	**2800**

	Sample ID	MW-09C	MW-09C	MW-09C	MW-09C	MW-09C	MW-09C	MW-09C	MW-09C
	Sample Date	5/5/22	5/5/22	10/26/22	10/26/22	5/1/23	5/1/23	10/10/23	10/10/23
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Manganese	300	**325**	UB	241	248	232	243	245	270
Sodium	20000	**62900**	UB	**56600**	**61000**	**55900**	**59400**	**55100**	**62500**

NOTE:

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

	Sample ID	LF-2	LF-2	LF-2	LF-2	LF-2	LF-2	LF-2	LF-2
	Sample Date	5/12/22	5/12/22	10/28/22	10/28/22	5/10/23	5/10/23	10/11/23	10/11/23
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Iron	300	**11300**	**12100**	**10500**	**11300**	**13400**	**12700**	**9650**	**10300**
Sodium	20000	**515000**	UBJ	**295000**	**311000**	**331000**	**317000**	**386000**	**352000**
Iron&Manganese	500	**11475**	**12100**	**10683**	**11490**	**13620**	**12910**	**9834**	**10482**

	Sample ID	MW-08A	MW-08A	MW-08A	MW-08A	MW-08A	MW-08A	MW-08A	MW-08A
	Sample Date	5/10/22	5/10/22	10/27/22	10/27/22	05/05/23	05/05/23	10/11/23	10/11/23
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Mercury	0.7	U	U	U	U	U	U	U	U
Sodium	20000	**24500**	UB	14400	16000	19200	17700	10100	9890

	Sample ID	MW-08B	MW-08B	MW-08B	MW-08B	MW-08B	MW-08B	MW-08B	MW-08B
	Sample Date	5/10/22	5/10/22	10/27/22	10/27/22	05/05/23	05/05/23	10/11/23	10/11/23
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Manganese	300	**579**	UB	**496**	**489**	**554**	**535 J**	**559**	**544**
Sodium	20000	**101000**	UB	**96100**	**97000**	**91800**	**89900**	**107000**	**104000**

	Sample ID	MW-06B	MW-06B	MW-06B	MW-06B	MW-06B	MW-06B	MW-06B	MW-06B
	Sample Date	5/11/22	5/11/22	11/1/22	11/1/22	5/5/23	5/5/23	10/12/23	10/12/23
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Iron	300	**14200**	**16100**	**19400**	**17400**	**20900**	**19800**	**12100**	**10100**
Sodium	20000	**195000**	UBJ	**117000**	**107000**	**109000**	**98700**	**90800**	**77000**
Iron&Manganese	500	**14243.2**	**16100**	**19457.9**	**17448**	**20951.3**	**19849**	**12130.7**	**10126.2**

	Sample ID	MW-06C	MW-06C	MW-06C	MW-06C	MW-06C	MW-06C	MW-06C	MW-06C
	Sample Date	5/10/22	5/10/22	10/31/22	10/31/22	5/9/23	5/9/23	10/12/23	10/12/23
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Iron	300	**5420**	**3940**	**6890**	**3250**	**6460**	**6990**	**7070**	**5920**
Sodium	20000	**263000**	UBJ	**265000**	**240000**	**246000 J**	**274000**	**291000**	**243000**
Iron&Manganese	500	**5606**	**3940**	**7078**	**3355**	**6610**	**7152**	**7189**	**6023**

	Sample ID	MW-06E	MW-06E	MW-06E	MW-06E	MW-06E	MW-06E	MW-06E	MW-06E
	Sample Date	5/12/22	5/12/22	11/1/22	11/1/22	5/9/23	5/9/23	10/12/23	10/12/23
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Iron	300	**7860**	**8390**	**15800**	**15000**	**14000**	**14700**	**17700**	**14600**
Manganese	300	**316**	UB	263	228	192	203	207	178
Sodium	20000	**167000**	UBJ	**142000**	**133000**	**126000 J**	**136000**	**152000**	**127000**
Iron&Manganese	500	**8176**	**8390**	**16063**	**15228**	**14192**	**14903**	**17907**	**14778**

	Sample ID	MW-06F	MW-06F	MW-06F	MW-06F	MW-06F	MW-06F	MW-06F	MW-06F
	Sample Date	5/11/22	5/11/22	10/31/22	10/31/22	05/09/23	05/09/23	10/12/23	10/12/23
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Mercury	0.7	**1.2**	U	U	U	0.26	U	0.25	U
Sodium	20000	**181000**	UBJ	**182000**	**168000**	**180000**	**183000**	**211000**	**174000**

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

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

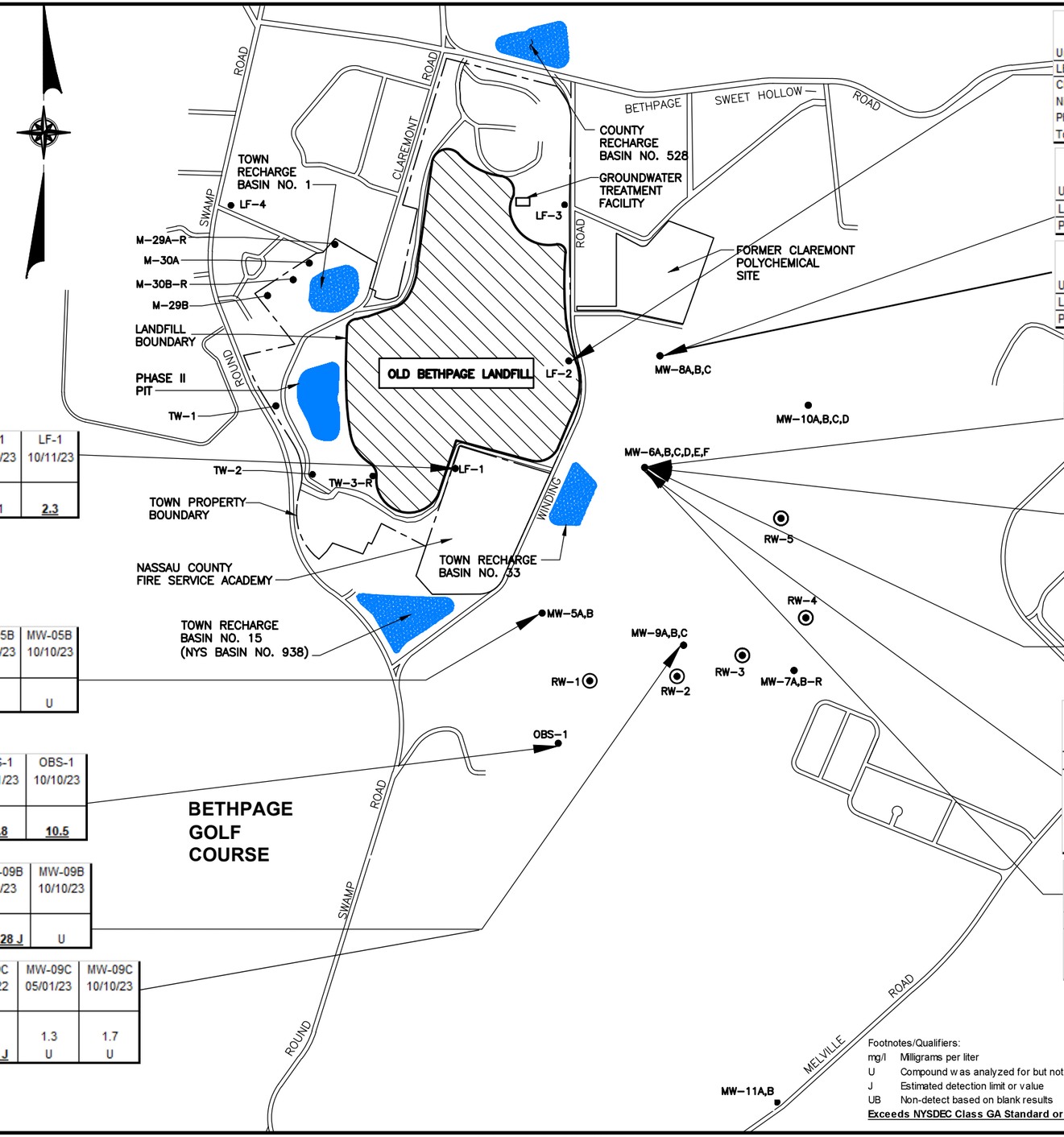
D&B ENGINEERS AND ARCHITECTS

OLD BETHPAGE LANDFILL
TOWN OF OYSTER BAY, NEW YORK
TOTAL AND DISSOLVED METAL CONCENTRATIONS DETECTED ABOVE GROUNDWATER QUALITY STANDARDS/GUIDANCE VALUES, 2022 - 2023

SCALE: 1"=900'

FIGURE 3

F:\3617\3617-07\dwg\3617-07-C-PL02.dwg, METALS, 12/27/2022 3:42:40 PM, droot



Units in mg/l	Sample ID	Sample Date	LF-1 5/12/22	LF-1 11/1/22	LF-1 05/10/23	LF-1 10/11/23
LEACHATE INDICATORS	GA ST/ GV					
Nitrogen, Ammonia	2		0.4	UB	0.11	**2.3**

Units in mg/l	Sample ID	Sample Date	MW-05B 5/5/22	MW-05B 10/27/22	MW-05B 05/01/23	MW-05B 10/10/23
LEACHATE INDICATORS	GA ST/ GV					
Phenolics, Total	0.001		U	**0.0038 J**	U	U

Units in mg/l	Sample ID	Sample Date	OBS-1 5/5/22	OBS-1 10/25/22	OBS-1 05/01/23	OBS-1 10/10/23
LEACHATE INDICATORS	GA ST/ GV					
Nitrogen, Ammonia	2		**12.3**	**12.3**	**12.8**	**10.5**

Units in mg/l	Sample ID	Sample Date	MW-09B 5/5/22	MW-09B 10/26/22	MW-09B 5/1/23	MW-09B 10/10/23
LEACHATE INDICATORS	GA ST/ GV					
Phenolics, Total	0.001		U	U	**0.0028 J**	U

Units in mg/l	Sample ID	Sample Date	MW-09C 5/5/22	MW-09C 10/26/22	MW-09C 05/01/23	MW-09C 10/10/23
LEACHATE INDICATORS	GA ST/ GV					
Nitrogen, Ammonia	2		**3**	1.3	1.3	1.7
Phenolics, Total	0.001		U	**0.0047 J**	U	U

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 5/12/22	LF-2 10/28/22	LF-2 05/10/23	LF-2 10/11/23
LEACHATE INDICATORS	GA ST/ GV					
Chloride	250		**446**	248 J	240	321
Nitrogen, Ammonia	2		**675**	**81.3**	**72.9**	**102**
Phenolics, Total	0.001		**0.0165**	**0.0157**	U	UJB
Total Dissolved Solids	500		**1860**	**1240 J**	**690 J**	**1540**

Units in mg/l	Sample ID	Sample Date	MW-08A 5/10/22	MW-08A 10/27/22	MW-08A 05/05/23	MW-08A 10/11/23
LEACHATE INDICATORS	GA ST/ GV					
Phenolics, Total	0.001		U	U	U	**0.104**

Units in mg/l	Sample ID	Sample Date	MW-08B 5/10/22	MW-08B 10/27/22	MW-08B 05/05/23	MW-08B 10/11/23
LEACHATE INDICATORS	GA ST/ GV					
Phenolics, Total	0.001		**0.0047 J**	**0.0047 J**	**0.0034 J**	UJ

Units in mg/l	Sample ID	Sample Date	MW-06A 5/11/22	MW-06A 10/31/22	MW-06A 05/09/23	MW-06A 10/12/23
LEACHATE INDICATORS	GA ST/ GV					
Phenolics, Total	0.001		**0.0062**	**0.003 J**	U	NA

Units in mg/l	Sample ID	Sample Date	MW-06B 5/11/22	MW-06B 11/1/22	MW-06B 5/5/23	MW-06B 10/12/23
LEACHATE INDICATORS	GA ST/ GV					
Nitrogen, Ammonia	2		**165**	**124**	**160 J**	**64.8**
Phenolics, Total	0.001		**0.018**	**0.0089**	**0.0278**	UB
Total Dissolved Solids	500		**794**	**682 J**	**594**	476

Units in mg/l	Sample ID	Sample Date	MW-06C 5/10/22	MW-06C 10/31/22	MW-06C 5/9/23	MW-06C 10/12/23
LEACHATE INDICATORS	GA ST/ GV					
Chloride	250		224	**281**	**267**	245
Nitrogen, Ammonia	2		**35.8**	**53.2**	**56.4**	**93.5**
Phenolics, Total	0.001		**0.012**	**0.0042 J**	**0.0151**	UB
Total Dissolved Solids	500		**950**	**900**	**950**	**1860**

Units in mg/l	Sample ID	Sample Date	MW-06E 5/12/22	MW-06E 11/1/22	MW-06E 5/9/23	MW-06E 10/12/23
LEACHATE INDICATORS	GA ST/ GV					
Chloride	250		**277**	**257**	211	239
Nitrogen, Ammonia	2		**15.7**	**22.6**	**26.5**	**19.9**
Phenolics, Total	0.001		U	**0.0034 J**	**0.0037**	UB
Total Dissolved Solids	500		**647**	**612 J**	496	**550**
Hexavalent Chromium	0.05		U	U	U	**0.058**

Units in mg/l	Sample ID	Sample Date	MW-06F 5/11/22	MW-06F 10/31/22	MW-06F 5/9/23	MW-06F 10/12/23
LEACHATE INDICATORS	GA ST/ GV					
Chloride	250		**344**	**443**	**426**	**453**
Phenolics, Total	0.001		**0.006**	U	U	UB
Total Dissolved Solids	500		**737**	**774**	**692**	**830**

LEGEND:

MW-9A,B,C ● OLD BETHPAGE LANDFILL MONITORING WELL

RW-1 ⊙ OLD BETHPAGE LANDFILL RECOVERY WELL

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
Exceeds NYSDEC Class GA Standard or Guidance Value

D&B ENGINEERS AND ARCHITECTS

OLD BETHPAGE LANDFILL
TOWN OF OYSTER BAY, NEW YORK
LEACHATE INDICATOR CONCENTRATIONS DETECTED ABOVE GROUNDWATER QUALITY STANDARDS/GUIDANCE VALUES, 2022 - 2023

SCALE: 1"=900'

FIGURE 4

F:\3617\3617-07\dwg\3617-07-C-PL01.dwg, LEACHATE, 12/27/2022 3:46:37 PM, droot

TABLES

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

Units in ug/l	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
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

D&B ENGINEERS AND ARCHITECTS

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 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
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

D&B ENGINEERS AND ARCHITECTS

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-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
METALS	NYSDEC Class GA Standard or Guidance Value												
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

D&B ENGINEERS AND ARCHITECTS

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

Sample ID / Sample Date / Units in mg/l	NYSDEC Class GA Standard or Guidance Value	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
LEACHATE INDICATORS													
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

D&B ENGINEERS AND ARCHITECTS

APPENDIX A

GROUNDWATER SAMPLING LOGS

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

SITE Town of Oyster Bay Landfill DATE 10/11/2023

WELL ID: **LF-1** Time On-site: Time Off-site:
SAMPLERS: JS, JB

Depth of well (feet from top of casing) ..... 102.00'
Initial static water level (feet from top of casing) ..... 49.09'
Approximate Pump Inlet (feet from top of casing)..... 54'

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:		ft. of water x 0.16 =		gallons
3 in. casing:		ft. of water x 0.36 =		gallons
6 in. casing:	52.91	ft. of water x 1.47 =	77.78	gallons

volume of water removed: 315 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)
157.5	6.63	17.03	0.341	0.0	0.00	-100
202.5	6.36	16.91	0.532	0.0	0.00	-57
247.5	6.34	16.83	0.542	0.0	0.00	-36
270	6.34	16.76	0.536	0.0	0.00	-34
292.5	6.36	16.72	0.549	0.0	0.00	-34
315	6.37	16.71	0.540	0.0	0.00	-34

Purging Rate: 4.5 GPM
Purging Time: 70 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 2:45 p.m.

Method:
- X Submersible Pump
- X In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- ____ Disposable bailer
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- ____ Leachate
- X Parameters

Observations
Weather/Temperature: Clear Skies, 68F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 10/11/2023

WELL ID: **LF-2** Time On-site: Time Off-site:
SAMPLERS: JS, JB

Depth of well (feet from top of casing) ..... 102.10'
Initial static water level (feet from top of casing) ..... 56.76'
Approximate Pump Inlet (feet from top of casing)..... 62'

Purging Method

Airlift	____	Centrifugal	___
Bailer	____	Pos. Displ.	___
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	___
	____		

Well Volume Calculation:

2 in. casing:	____	ft. of water x 0.16 =	____	gallons
3 in. casing:	____	ft. of water x 0.36 =	____	gallons
6 in. casing:	45.34	ft. of water x 1.47 =	66.65	gallons

volume of water removed:
225 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)
75	7.30	17.13	3.09	0.0	0.00	-131
125	7.27	17.12	3.11	0.0	0.00	-127
175	7.28	17.13	3.11	0.0	0.00	-125
225	7.30	17.13	3.11	0.0	0.00	-123

Purging Rate: 5 GPM
Purging Time: 45 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 12:30 p.m.

Method:
- X Submersible Pump
- X In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- Disposable bailer
- ____
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Clear Skies, 68F
Sample description: Clear, slight leachate odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes X no ____ describe slight leachate odor

Note – Collected field duplicate at LF-2

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 10/10/2023

WELL ID: **MW-05B** Time On-site: Time Off-site:
SAMPLERS: JS, JB

Depth of well (feet from top of casing) ..... 117.25'
Initial static water level (feet from top of casing) ..... 77.00'
Approximate Pump Inlet (feet from top of casing)..... 82'

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:		ft. of water x 0.16 =		gallons
3 in. casing:		ft. of water x 0.36 =		gallons
4 in. casing:	40.25	ft. of water x 0.65 =	26.16	gallons

volume of water removed: 140 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)
80	6.37	15.82	0.469	0.0	6.75	254
110	5.64	15.75	0.470	0.0	5.31	281
140	5.51	15.74	0.471	0.0	5.10	286

Purging Rate: 3 GPM
Purging Time: 57 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 3:30 p.m.

Method:
- X Submersible Pump
- X In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- Disposable bailer
- ____
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Cloudy Skies, 64F
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 10/12/2023

WELL ID: **MW-06B** Time On-site: Time Off-site:
SAMPLERS: JS, JB

Depth of well (feet from top of casing) ..... 134.80'
Initial static water level (feet from top of casing) ..... 99.71'
Approximate Pump Inlet (feet from top of casing)..... 105'

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:	ft. of water x 0.16 =		gallons
3 in. casing:	ft. of water x 0.36 =		gallons
4 in. casing:	35.09	ft. of water x 0.65 =	22.81	gallons

volume of water removed:
128 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)
48	6.80	16.25	1.38	5.3	4.80	-109
88	6.88	16.37	1.40	0.0	4.11	-132
128	6.91	16.37	1.41	0.0	4.02	-139

Purging Rate: 4 GPM
Purging Time: 32 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 1:00 p.m.

Method:
- X Submersible Pump
- X In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- Disposable bailer
- ____
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Cloudy Skies, 63F
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 10/12/2023

WELL ID: **MW-06C** Time On-site: Time Off-site:
SAMPLERS: JS, JB

Depth of well (feet from top of casing) ..... 160.90'
Initial static water level (feet from top of casing) ..... 99.07'
Approximate Pump Inlet (feet from top of casing)..... 104'

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:	ft. of water x 0.16 =		gallons
3 in. casing:	ft. of water x 0.36 =		gallons
4 in. casing:	61.38	ft. of water x 0.65 =	39.90	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)
80	7.45	16.95	2.30	0.0	0.00	-131
120	7.45	16.98	2.28	0.0	0.00	-134
160	7.45	16.99	2.22	0.0	0.00	-137

Purging Rate: 4 GPM
Purging Time: 40 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 10:45 a.m.

Method:
- X Submersible Pump
- X In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- Disposable bailer
- ____
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Cloudy Skies, 63F
Sample description: Yellow tint, 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 10/12/2023

WELL ID: **MW-06E** Time On-site: Time Off-site:
SAMPLERS : JS, JB

Depth of well (feet from top of casing) ..... 251.00'
Initial static water level (feet from top of casing) ..... 100.31'
Approximate Pump Inlet (feet from top of casing)..... 105'

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:		ft. of water x 0.16 =		gallons
3 in. casing:		ft. of water x 0.36 =		gallons
4 in. casing:	150.69	ft. of water x 0.65 =	97.95	gallons

volume of water removed: 340 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)
200	6.74	16.71	0.873	0.0	0.00	-46
240	6.68	16.78	0.880	0.0	0.00	-42
280	6.66	16.81	0.886	0.0	0.00	-41
320	6.64	16.80	0.888	0.0	0.00	-40
340	6.63	16.80	0.890	0.0	0.00	-39

Purging Rate: 4 GPM
Purging Time: 85 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 12:45 p.m.

Method:
- X Submersible Pump
- X In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- ____ Disposable bailer
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- X Leachate Parameters

Observations
Weather/Temperature: Cloudy Skies, 63F
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 10/12/2023

WELL ID: **MW-06F** Time On-site: Time Off-site:
SAMPLERS: JS, JB

Depth of well (feet from top of casing) ..... 349.00'
Initial static water level (feet from top of casing) ..... 99.75'
Approximate Pump Inlet (feet from top of casing)..... 105'

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:	ft. of water x 0.16 =		gallons
3 in. casing:	ft. of water x 0.36 =		gallons
4 in. casing:	249.25	ft. of water x 0.65 =	162.01	gallons

volume of water removed:
644 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)
484	4.17	15.86	1.90	0.0	4.64	334
564	4.20	15.86	1.89	0.0	4.30	336
644	4.21	15.88	1.90	0.0	4.26	333

Purging Rate: 4 GPM
Purging Time: 161 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 12:00 p.m.

Method:
- X Submersible Pump
- X In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- Disposable bailer
- ____
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Cloudy Skies, 63F
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 10/11/2023

WELL ID: **MW-08A** Time On-site: Time Off-site:
SAMPLERS: JS, JB

Depth of well (feet from top of casing) ..... 80.80'
Initial static water level (feet from top of casing) ..... 72.89'
Approximate Pump Inlet (feet from top of casing)..... 78'

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:	ft. of water x 0.16 =		gallons
3 in. casing:	ft. of water x 0.36 =		gallons
4 in. casing:	7.91	ft. of water x 0.65 =	5.14	gallons

volume of water removed: 25 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)
15	4.77	16.54	0.110	0.0	1.12	363
20	4.88	16.68	0.099	0.0	0.81	360
25	4.89	16.76	0.097	0.0	0.79	358

Purging Rate: 1 GPM
Purging Time: 25 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 10:30 a.m.

Method:
- X Submersible Pump
- X In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- Disposable bailer
- ____
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Clear Skies, 68F
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 10/11/2023

WELL ID: **MW-08B** Time On-site: Time Off-site:
SAMPLERS : JS, JB

Depth of well (feet from top of casing) ..... 160.20'
Initial static water level (feet from top of casing) ..... 73.54'
Approximate Pump Inlet (feet from top of casing)..... 79'

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:	ft. of water x 0.16 =		gallons
3 in. casing:	ft. of water x 0.36 =		gallons
4 in. casing:	86.66	ft. of water x 0.65 =	56.33	gallons

volume of water removed:
210 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)
120	5.42	13.73	0.822	0.0	7.38	288
150	5.24	13.69	0.781	0.0	6.81	298
180	5.08	13.67	0.744	0.0	6.73	303
210	5.01	13.65	0.739	0.0	6.69	304

Purging Rate: 5 GPM
Purging Time: 45 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 10:45 a.m.

Method:
- X Submersible Pump
- X In-Line Filter (Diss. Metals)
- Pos. Disp. Pump
- Disposable bailer
- Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Clear Skies, 68F
Sample description: Clear, no odor
Free Product? yes no X describe
Sheen? yes no X describe
Odor? yes no X describe

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 10/10/2023

WELL ID: **MW-09B** Time On-site: Time Off-site:
SAMPLERS: JS, JB

Depth of well (feet from top of casing) ..... 169.13'
Initial static water level (feet from top of casing) ..... 94.75'
Approximate Pump Inlet (feet from top of casing)..... 100'

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:		ft. of water x 0.16 =		gallons
3 in. casing:		ft. of water x 0.36 =		gallons
4 in. casing:	74.38	ft. of water x 0.65 =	48.35	gallons

volume of water removed: 188 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)
98	5.71	14.83	0.467	0.0	6.02	262
128	5.50	14.72	0.469	0.0	5.53	281
158	5.31	14.69	0.470	0.0	5.37	292
188	5.30	14.67	0.471	0.0	5.49	292

Purging Rate: 3 GPM
Purging Time: 63 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 1:30 p.m.

Method:
- X Submersible Pump
- X In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- Disposable bailer
- ____
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Cloudy Skies, 64F
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 10/10/2023

WELL ID: **MW-09C** Time On-site: Time Off-site:
SAMPLERS: JS, JB

Depth of well (feet from top of casing) ..... 225.00'
Initial static water level (feet from top of casing) ..... 93.35'
Approximate Pump Inlet (feet from top of casing)..... 99'

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:		ft. of water x 0.16 =		gallons
3 in. casing:		ft. of water x 0.36 =		gallons
4 in. casing:	129.65	ft. of water x 0.65 =	84.27	gallons

volume of water removed: 288 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)
168	6.60	15.69	0.375	0.0	0.34	323
208	6.24	15.70	0.378	0.0	0.00	252
248	6.23	15.80	0.379	0.0	0.00	240
288	6.27	15.75	0.378	0.0	0.00	246

Purging Rate: 4 GPM
Purging Time: 72 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

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

Method:
- X Submersible Pump
- X In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- Disposable bailer
- ____
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Cloudy Skies, 64F
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 10/10/2023

WELL ID: **OBS-1** Time On-site: Time Off-site:
SAMPLERS: JS, JB

Depth of well (feet from top of casing) ..... 194.75'
Initial static water level (feet from top of casing) ..... 52.08'
Approximate Pump Inlet (feet from top of casing)..... 57'

Purging Method

Airlift		Centrifugal	
Bailer		Pos. Displ.	
Submersible Pump	X	Disposable Bladder Pump (Low Flow)	

Well Volume Calculation:

2 in. casing:		ft. of water x 0.16 =		gallons
3 in. casing:		ft. of water x 0.36 =		gallons
4 in. casing:	142.67	ft. of water x 0.65 =	92.74	gallons

volume of water removed: 365 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)
215	6.58	16.53	0.348	0.0	0.00	196
265	6.31	16.24	0.345	0.0	0.00	168
315	6.06	16.17	0.345	0.0	0.00	167
365	6.05	16.11	0.344	0.0	0.00	168

Purging Rate: 5 GPM
Purging Time: 73 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 10:45 a.m.

Method:
- X Submersible Pump
- X In-Line Filter (Diss. Metals)
- ____ Pos. Disp. Pump
- Disposable bailer
- ____
- ____ Dedicated pump

Analyses (Pace Analytical Laboratory)
- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations
Weather/Temperature: Cloudy Skies, 64F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

APPENDIX B

CHAIN OF CUSTODY FORMS

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# : 70273550

70273550

KMM

Company Name:	Town of Oyster Bay	Contact/Report To:	Russo, Matt
Street Address:	150 Miller Place, Syosset, NY 11791	Phone #:	NONE
		E-Mail:	mrusso@tobays.net, krobins@db-eng.com
		Cc E-Mail:	Labdata@db-eng.com
Customer Project #:		Invoice To:	[redacted] mrusso@tobays.net
Project Name:	Old Bethpage Landfill	Invoice E-Mail:	[redacted] Matt Russo
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
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
[X] Other CAT B

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): STD TAT
[ ] 2 Day [ ] 3 day [ ] 5 day [X] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [X] Yes [ ] No
Analysis: Dissolved Metals

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) 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

Lab Use Only
Proj. Mgr: Lori Beyer
AcctNum / Client ID:
Table #:
Profile / Template: 6466
Prelog / Bottle Ord. ID: 1147572

* 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), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	Alk,Cl,SO4,CO3,Cr6,HCO3	Cyanide	Dissolved Cr+6	Dissolved Metals (field filter)	NH3,NO3,Phenols,TKN	No2,TDS	Total Metals & Hardness	VOC by 8260	Sample Comment	Preservation non-conformance identified for sample.
OBS-1	GW	G	10/10/23	1045				6	3	1	1	1	1	1	1	1	2		
MW-09C	GW	G	10/10/23	1345				6	3	1	1	1	1	1	1	1	2		
MW-09B	GW	G	10/10/23	1330				6	3	1	1	1	1	1	1	1	2		
MW-05B	GW	G	10/10/23	1530				6	3	1	1	1	1	1	1	1	2		
Trip Blank_10/10/23	AQ	/	10/10/23	/				/	2	/	/	/	/	/	/	/	2		

Customer Remarks / Special Conditions / Possible Hazards:
Old Bethpage Landfill - dissolved metals; field filtered

Collected By:
Printed Name: Jeremy Samson
Signature:

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)
1	TH198	+0.3	0.2	0.5

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 10/10/23 16:18	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] 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

WO#: 70273550
PM: KMM **Due Date: 10/25/23**
CLIENT: TOY

Client Name: TOY Proje

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Oth

Tracking #:

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: TH198 Correction Factor: +0.3 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 0.5 Cooler Temperature Corrected(°C): 0.8 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: WR 10/10/23

				COMMENTS:
Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested	☐Yes	☒No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
-Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis	☒Yes	☐No		12.
Matrix:	SL	WT	OIL	OTHER

Date and Initials of person checking preservation: WR 10/10/23

All containers needing preservation have been checked.	☒Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC208072				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☒Yes	☐No	☐N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☒N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sul	☐Yes	☐No	☒N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	16.
Trip Blank Present:	☒Yes	☐No	☐N/A	17.
Trip Blank Custody Seals Present	☒Yes	☐No	☐N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

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# : 70273550

PM: KMM **Due Date: 10/25/23**

CLIENT: TOY

Company Name:	Town of Oyster Bay	Contact/Report To:	Russo, Matt
Street Address:	150 Miller Place, Syosset, NY 11791	Phone #:	NONE
		E-Mail:	mrusso@tobays.net, krobins@db-eng.com
		Cc E-Mail:	Labdata@db-eng.com
Customer Project #:		Invoice To:	Matt Russo
Project Name:	Old Bethpage Landfill	Invoice E-Mail:	mrusso@tobays.net
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
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
[X] Other CAT B

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): STD
[ ] 2 Day [ ] 3 day [ ] 5 day [X] Other TAT

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [X] Yes [ ] No
Analysis: Dissolved Metals

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) 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

Lab Use Only
Proj. Mgr: Lori Beyer
AcctNum / Client ID:
Table #:
Profile / Template: 6466
Prelog / Bottle Ord. ID: 1147572

* 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), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	Alk,Cl,SO4,CO3,Cr6,HCO3	Cyanide	Dissolved Cr+6	Dissolved Metals (field filter)	NH3,NO3,Phenols,TKN	No2,TDS	Total Metals & Hardness	VOC by 8260			Sample Comment	Preservation non-conformance identified for sample.
MW-08A	GW	G	10/11/23	1030				6	3	1	1	1	1	1	1	1	2				
MW-08B	GW	G	10/11/23	1045				6	3	1	1	1	1	1	1	1	2				
LF-2	GW	G	10/11/23	1230				6	3	1	1	1	1	1	1	1	2				
LF-1	GW	G	10/11/23	1430				6	3	1	1	1	1	1	1	1	2				
BlindDuplicate-1	GW	G	10/11/23	0000				6	3	1	1	1	1	1	1	1	2				
TripBlank_10/11/23	AQ	/	10/11/23	/				0	2	/	/	/	/	/	/	/	2				

Customer Remarks / Special Conditions / Possible Hazards:
Old Bethpage Landfill - dissolved metals; field filtered

Collected By:
Printed Name: Jeremy Samson
Signature: Jeremy Samson

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)
2	TH198	-0.3	3.0	3.3

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jeremy Samson	10-11-23 15:00	[illegible]	10/11/23 15:86
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)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number: —

Delivered by: [X] In-Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

WO#: 70273550
PM: KMM **Due Date: 10/25/23**
CLIENT: TOY

Client Name: TOY Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ 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 ☐ Ziploc ☑ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH148 Correction Factor: +0.3 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 3.0 Cooler Temperature Corrected(°C): 3.3 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: WK 10/24/23

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used: -Pace Containers Used:	☑Yes ☑Yes	☐No ☐No		9.
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes Matrix:	☐No SL WT OIL OTHER		12.

Date and Initials of person checking preservation: WK 10/24/23

All containers needing preservation have been checked. pH paper Lot # HC208072	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☑Yes	☐No	☐N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm)	☐Yes	☑No	☐N/A	16.
Trip Blank Present:	☐Yes	☐No	☐N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☐N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

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

LAB USE ONLY- Affix Workorder/Login Label Here

WO# : 70273550
PM: KMM
CLIENT: TOY
Due Date: 10/26/23

Company Name:	Town of Oyster Bay	Contact/Report To:	Russo, Matt
Street Address:	150 Miller Place, Syosset, NY 11791	Phone #:	NONE
		E-Mail:	mrusso@tobays.net, krobins@db-eng.com
		Cc E-Mail:	Labdata@db-eng.com
Customer Project #:		Invoice To:	Matt Russo
Project Name:	Old Bethpage Landfill	Invoice E-Mail:	mrusso@tobays.net
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
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
[X] Other CAT B

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): STD TAT
[ ] 2 Day [ ] 3 day [ ] 5 day [X] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [X] Yes [ ] No
Analysis: Dissolved Metals

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

** Container Size: (1) 500mL, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 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

Lab Use Only
Proj. Mgr: Lori Beyer
AcctNum / Client ID:
Table #:
Profile / Template: 6466
Prelog / Bottle Ord. ID: 1147572

* 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), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	Alk,Cl,SO4,CO3,Cr6,HCO3	Cyanide	Dissolved Cr+6	Dissolved Metals (field filter)	NH3,NO3,Phenols,TKN	No2,TDS	Total Metals & Hardness	VOC by 8260	Sample Comment	Preservation non-conformance identified for sample.
~~MW-06A~~ (JB)	GW	G	10/13/23					6	3	1	1	1	1	1	1	1	2		
MW-06B	GW	G	10/13/23	1300				6	3	1	1	1	1	1	1	1	2		
MW-06C	GW	G	10/13/23	1045				6	3	1	1	1	1	1	1	1	2		
MW-06E	GW	G	10/13/23	1245				6	3	1	1	1	1	1	1	1	2		
MW-06F	GW	G	10/13/23	1200				6	3	1	1	1	1	1	1	1	2		
TripBlank_10/13/23	AQ	/	10/13/23	/				/	2	/	/	/	/	/	/	/	2		
FieldBlank_10/13/23	AQ	/	10/13/23	1450				6	3	1	1	1	1	1	1	1	2		

Customer Remarks / Special Conditions / Possible Hazards:
Old Bethpage Landfill - dissolved metals; field filtered

Collected By:
Printed Name: Jeremy Jansen
Signature:

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)
	TH196	+0.2	1.7	2.0

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	10-12-23 15:15		10-12-23 1515
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)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

WO#: 70273550

PM: KMM **Due Date: 10/26/23**
CLIENT: TOY

Client Name: TOY Proje

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ O

Tracking #:

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: TH198 Correction Factor: +0.3 ☐Samples on ice, cooling process has begun
Cooler Temperature(°C): 17 Cooler Temperature Corrected(°C): 2.0 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 orignate 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: BJ 10/12/23

				COMMENTS:
Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☒Yes	☐No		6.
Rush Turn Around Time Requested	☒Yes	☐No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
-Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis: Matrix: SL WT OIL OTHER	☒Yes	☒No		12. Logged 8 Bottles, date of collection is in future. Logged for 10/12/23 dates as per bottles

Date and Initials of person checking preservation: ABZ 10/13/23

All containers needing preservation have been pH paper Lot # HC293055	☒Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water) Per Method, VOA pH is checked after analysis	☒Yes	☐No	☐N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☒N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot # 14-8102 10/13/23	☒Yes	☐No	☐N/A	15. Positive for Sulfide? Y (N)
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	16.
Trip Blank Present	☐Yes	☐No	☐N/A	17.
Trip Blank Custody Seals Present	☒Yes	☐No	☐N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

APPENDIX C

DATA VALIDATION CHECKLIST

D&B ENGINEERS AND ARCHITECTS

DATA VALIDATION CHECKLIST

Project Name:	Old Bethpage Landfill
Project Number:	3617-08
Sample Date(s):	October 10-12, 2023
Sample Team:	Joe and Jeremy
Matrix/Number of Samples:	Water/ 12 Field Duplicates/ 1 Trip Blanks / 3 Field Blanks/ 1
Analyzing Laboratory:	Pace Analytical, Melville, NY and Phenolics were subcontracted to Microbac Laboratories, Inc., Marietta, OH
Analyses:	Volatile Organic Compounds (VOCs): by SW846 8260C Metals: Total and dissolved by USEPA 200.7 and mercury by USEPA 245.1 General Chemistry: 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:	70273550 (M3E0662&M3E0868) Date: 11/7/2023

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.

D&B ENGINEERS AND ARCHITECTS

Custody Numbers:70273550
SAMPLE AND ANALYSIS LIST

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis				
				VOC	SVOC	PCB	MET	MISC
OBS-1	70273550001-6	10/10/2023		X			X	X
MW-09C	70273550002-7	10/10/2023		X			X	X
MW-09B	70273550003-8	10/10/2023		X			X	X
MW-05B	70273550004-9	10/10/2023		X			X	X
TRIP BLANK	70273550005	10/10/2023		X				
MW-08A	70273550010-16	10/11/2023		X			X	X
MW-08B	70273550011-17	10/11/2023		X			X	X
LF-2	70273550012-18	10/11/2023		X			X	X
LF-1	70273550013-19	10/11/2023		X			X	X
BLIND DUPLICATE-1	70273550014-20	10/11/2023	LF-2	X			X	X
TRIP BLANK	70273550015	10/11/2023		X				
MW-06B	70273550021-27	10/12/2023		X			X	X
MW-06C	70273550019-28	10/12/2023		X			X	X
MW-06E	70273550022-29	10/12/2023		X			X	X
MW-06F	70273550024-30	10/12/2023		X				
TRIP BLANK	70273550025	10/12/2023		X			X	X
FIELD BLANK	70273550026-31	10/12/2023		X			X	X

ORGANIC ANALYSES
VOCS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
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:
Performance was acceptable, except the following:

2C. Methylene chloride was detected in the field blank. It was not detected in the samples therefore qualification of the data was not necessary.

3. The %R was above the QC limit in the MS and MS duplicate for tetrachloroethene associated with the Field blank. It was not detected therefore qualification of the data was not necessary.

The %Rs were below the QC limits in the MS and/or MS duplicate for 1,2-dichlorobenzene, 1,4-dichlorobenzene, and chlorobenzene associated with samples OBS-1, MW-09C, MW-09B, MW-05B, and TRIP BLANK. They were qualified as an estimated limit (UJ) in associated samples.

INORGANIC ANALYSES
METALS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X	X		
B. Field blanks		X	X		
3. Laboratory control sample %R		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:
Performance was acceptable, except the following:

2. The following metals were detected in the blanks: total aluminum, calcium, chromium, iron, potassium, sodium, and manganese; and dissolved barium, sodium, and potassium associated the samples. Total aluminum was qualified as non-detect (UB) in sample LF-2.

D&B ENGINEERS AND ARCHITECTS

INORGANIC ANALYSES
GENERAL CHEMISTRY

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
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:
Performance was acceptable, except the following:

Numerous samples were originally analyzed for alkalinity at a dilution. Based on these results, the samples were reanalyzed at no dilution and the non-diluted results were reported.

1. Total and dissolved hexavalent chromium were analyzed outside of holding times associated with samples MW-06B, MW-06C, MW-06E, MW-06F, and OBS-1 and were qualified as estimated (UJ/J).

2. Phenolics and alkalinity total and bicarbonate were detected in the blanks. Phenolics was qualified as non-detect (UB) in samples LF-2, BLIND DUPLICATE-1, MW-06B, MW-06C, MW-06E, MW-06F, and OBS-1.

4. The RPDs were above the QC limits in the duplicate for phenolic associated with samples MW-08A, MW-08B, LF-2, and LF-1 and total kjeldahl nitrogen associated with samples MW-08A, MW-08B, LF-2, LF-1, BLIND DUPLICATE-1, MW-06B, MW-06C, MW-06E, MW-06F, and FIELD BLANK. They were qualified as estimated (J/UJ) in associated samples.

5. The %R was below the QC limit in the matrix spike for total alkalinity associated with samples MW-06B, MW-06C, MW-06E, MW-06F, and FIELD BLANK and was qualified as estimated (J/UJ).

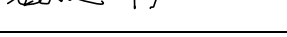
   The %R was above the QC limit in the matrix spike for sulfate associated with samples BLIND DUPLICATE-1, MW-06B, MW-06C, MW-06E, MW-06F, and FIELD BLANK; phenolic associated with samples OBS-1, MW-09C, MW-09B, MW-05B, MW-08A, MW-08B, LF-2, and LF-1; and total kjeldahl nitrogen associated with all samples. The following were qualified as estimated (J) in the following: sulfate associated with samples BLIND DUPLICATE-1, MW-06B, MW-06C, MW-06E, and MW-06F; phenolics in sample MW-08A; and total kjeldahl nitrogen associated with all samples except for MW-06F and MW-08B.

D&B ENGINEERS AND ARCHITECTS

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers:70273550

Sample ID	Analyte(s)	Qualifier	Reason(s)
VOCs			
OBS-1, MW-09C, MW-09B, MW-05B, and TRIP BLANK	1,2-Dichlorobenzene, 1,4-dichlorobenzene, and chlorobenzene	UJ	The %Rs were below the QC limits in the MS and/or MS duplicate
Metals			
LF-2	Total aluminum	UB	Detected in the Blanks
General Chemistry			
Numerous samples	Alkalinity		Originally analyzed at a dilution, reanalyzed at no dilution and the non-diluted results were reported.
MW-06B, MW-06C, MW-06E, MW-06F, and OBS-1	Total and dissolved hexavalent chromium	J/UJ	Analyzed outside of holding times
LF-2, BLIND DUPLICATE-1, MW-06B, MW-06C, MW-06E, MW-06F, and OBS-1	Phenolics	UB	Detected in the Field Blank and/or method blank
MW-08A, MW-08B, LF-2, and LF-1	Phenolics	J/UJ	The RPD was above QC limit in the laboratory duplicate
MW-08A, MW-08B, LF-2, LF-1, BLIND DUPLICATE-1, MW-06B, MW-06C, MW-06E, MW-06F, and FIELD BLANK	Total kjeldahl nitrogen		
MW-06B, MW-06C, MW-06E, MW-06F, and FIELD BLANK	Total alkalinity	J/UJ	The %R was below the QC limit in the LCS and/or matrix spike
BLIND DUPLICATE-1, MW-06B, MW-06C, MW-06E, and MW-06F	Sulfate	J	Field duplicate results
MW-08A	Phenolics		
All samples except for MW-06F and MW-08B	Total kjeldahl nitrogen		

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 11/13/2023
VALIDATION PERFORMED BY SIGNATURE:	

APPENDIX D

LABORATORY DATA REPORTS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

November 07, 2023

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

RE: Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Dear Robbin Petrella:

Enclosed are the analytical results for sample(s) received by the laboratory between October 10, 2023 and October 13, 2023. 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.

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

- Pace Analytical Services - Melville

REVISION#1: Report re-issued 11/7/23 to update qualifiers.

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

Sincerely,

Kimberley Mack

Kimberley M. Mack
kimberley.mack@pacelabs.com
516-370-6052
Project Manager

Enclosures

cc: Donna Brown, D&B Engineers and Architechts, P.C.
Tom Fox, D&B Engineers and Architechts, P.C.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Pace Analytical Services Long Island
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
Virginia Certification # 460302

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
14 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: 323992

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70273691003,70273757001

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

- MS (Lab ID: 1654486)
  - Sodium

QC Batch: 324157

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70273925001,70273935003

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

- MS (Lab ID: 1655224)
  - Aluminum
  - Calcium
  - Iron
  - Magnesium
  - Potassium
  - Sodium
- MS (Lab ID: 1655226)
  - Calcium

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Town of Oyster Bay
Date: November 07, 2023

QC Batch: 324157

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70273925001,70273935003

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

- Magnesium
- Potassium
- Sodium

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 70273691003 (PDS 1654586) did not meet acceptance criteria for Aluminum, Calcium, Iron, Magnesium, Sodium, and Silver.
- QC Batch: 324042

The post digestion spike for sample 70273935003 (PDS 1655274) did not meet acceptance criteria for Aluminum, Silver, Calcium, Copper, Iron, Potassium, Sodium and Magnesium.
- QC Batch: 324178

The post digestion spike for sample 70273805003 (PDS 1656363) did not meet acceptance criteria for Aluminum, Boron, Barium, Calcium, Cadmium, Chromium, Copper, Iron, Magnesium, Manganese, Molybdenum, Nickel, Lead, Tin and Zinc.
- QC Batch: 324367

The serial dilution for sample 70273691003 (SD 1654587) did not meet acceptance criteria for Silver, Aluminum, Arsenic, Potassium, Molybdenum, Lead and Selenium.
- QC Batch: 324042

The serial dilution for sample 70273935003 (SD 1655275) did not meet acceptance criteria for Silver, Aluminum, Arsenic, Barium, Iron, Potassium, Manganese, and Molybdenum.
- QC Batch: 324178

The serial dilution for sample 70273805003 (SD 1656364) did not meet acceptance criteria for Aluminum, Molybdenum, Sodium, Nickel, Lead and Zinc.
- QC Batch: 324367

The post digestion spike for sample 70273757001 (PDS 1654588) did not meet acceptance criteria for Aluminum, Calcium, Iron, Magnesium, Sodium and Silver.
- QC Batch: 324042

The post digestion spike for sample 70273925001 (PDS 1655276) did not meet acceptance criteria for Aluminum, Calcium, Iron, Magnesium, Silver, Potassium and Sodium.
- QC Batch: 324178

The post digestion spike for sample 70274356002 (PDS 1656365) did not meet acceptance criteria for Aluminum, Boron, Barium, Calcium, Cadmium, Chromium,Copper, Iron, Magnesium, Manganese, Molybdenum, Nickel, Lead, Tin and Zinc.
- QC Batch: 324367

The serial dilution for sample 70273757001 (SD 1654589) did not meet acceptance criteria for Arsenic, Barium, Cadmium, Chromium, Iron, Molybdenum, Nickel, Lead, Selenium, and Zinc.
- QC Batch: 324042

The serial dilution for sample 70273925001 (SD 1655277) did not meet acceptance criteria for Silver, Aluminum, Arsenic, Barium, Molybdenum, and Nickel.
- QC Batch: 324178

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Town of Oyster Bay
Date: November 07, 2023

Batch Comments:

The serial dilution for sample 70274356002 (SD 1656366) did not meet acceptance criteria for Aluminum, Iron, Molybdenum, Nickel and Zinc.
- QC Batch: 324367

Analyte Comments:

QC Batch: 324157

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- DUP (Lab ID: 1655223)
  - Sodium
- MS (Lab ID: 1655224)
  - Sodium

- DUP (Lab ID: 1655223)
  - Sodium

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Method: **EPA 200.7**
Description: 200.7 Metals, Dissolved
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
14 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: 323653

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70273286004

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

- MS (Lab ID: 1652366)
  - Manganese, 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 70273286004 (SD 1652367) did not meet acceptance criteria for Chromium, Copper, Iron, Potassium, Sodium, Nickel, Lead, and Zinc.

- QC Batch: 323653

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Method: **SM22 2340B**
Description: 2340B Hardness, Total (Calc.)
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
14 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:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
14 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:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Method: **EPA 245.1**
Description: 245.1 Mercury, Dissolved
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
14 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:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: Town of Oyster Bay
Date: November 07, 2023

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.

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

QC Batch: 323483

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: 1651271)
  - Dichlorodifluoromethane
- LCS (Lab ID: 1651272)
  - Dichlorodifluoromethane
- MS (Lab ID: 1651778)
  - Dichlorodifluoromethane
- MSD (Lab ID: 1651779)
  - Dichlorodifluoromethane
- MW-05B (Lab ID: 70273550004)
  - Dichlorodifluoromethane
- MW-09B (Lab ID: 70273550003)
  - Dichlorodifluoromethane
- MW-09C (Lab ID: 70273550002)
  - Dichlorodifluoromethane
- OBS-1 (Lab ID: 70273550001)
  - Dichlorodifluoromethane
- TRIP BLANK_10/10/23 (Lab ID: 70273550005)
  - Dichlorodifluoromethane

QC Batch: 324478

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: 1656959)
  - 1,1-Dichloroethene
- MS (Lab ID: 1657693)
  - 1,1-Dichloroethene
- MSD (Lab ID: 1657694)
  - 1,1-Dichloroethene

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: Town of Oyster Bay
Date: November 07, 2023

QC Batch: 324478

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: 1656958)
  - Dichlorodifluoromethane
- FIELD BLANK_10/12/23 (Lab ID: 70273550026)
  - Dichlorodifluoromethane
- LCS (Lab ID: 1656959)
  - Dichlorodifluoromethane
- MS (Lab ID: 1657693)
  - Dichlorodifluoromethane
- MSD (Lab ID: 1657694)
  - Dichlorodifluoromethane

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.

QC Batch: 323483

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70273538001

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

- MS (Lab ID: 1651778)
  - 1,2-Dichlorobenzene
  - 1,4-Dichlorobenzene
- MSD (Lab ID: 1651779)
  - 1,2-Dichlorobenzene
  - 1,4-Dichlorobenzene
  - Chlorobenzene

QC Batch: 324478

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70274286001

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

- MS (Lab ID: 1657693)
  - Tetrachloroethene

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: Town of Oyster Bay
Date: November 07, 2023

QC Batch: 324478

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70274286001

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

- MSD (Lab ID: 1657694)
  - Tetrachloroethene

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 10/10
Pace Project No.: 70273550

Method: **SM22 2320B**
Description: 2320B Alkalinity
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
14 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: 325244

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70274201007

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

- MS (Lab ID: 1661332)
  - Alkalinity, Total as 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 10/10
Pace Project No.: 70273550

Method: **SM22 2320B**
Description: 2320B Alkalinity
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
14 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.

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 10/10
Pace Project No.: 70273550

Method: **SM22 2540C**
Description: 2540C Total Dissolved Solids
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
14 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.

QC Batch: 324079

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

- DUP (Lab ID: 1654813)
  - Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Method: **SM22 3500-Cr B**
Description: Chromium, Hexavalent
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
28 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.

H1: Analysis conducted outside the EPA method holding time.
- MW-06B (Lab ID: 70273550021)
- MW-06B DISS (Lab ID: 70273550027)
- MW-06C (Lab ID: 70273550022)
- MW-06C DISS (Lab ID: 70273550028)
- MW-06E (Lab ID: 70273550023)
- MW-06E DISS (Lab ID: 70273550029)
- MW-06F (Lab ID: 70273550024)
- MW-06F DISS (Lab ID: 70273550030)
- OBS-1 (Lab ID: 70273550001)
- OBS-1 DISS (Lab ID: 70273550006)

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 10/10
Pace Project No.: 70273550

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
14 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: 325538

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70273944002,70273959001

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

- MS (Lab ID: 1663049)
  - 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 10/10
Pace Project No.: 70273550

Method: **EPA 351.2**
Description: 351.2 Total Kjeldahl Nitrogen
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
14 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.

QC Batch: 323606

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70273513002,70273675002

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

- MS (Lab ID: 1652176)
  - Nitrogen, Kjeldahl, Total

QC Batch: 324320

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70273653003,70274076002

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

- MS (Lab ID: 1656166)
  - Nitrogen, Kjeldahl, Total

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

QC Batch: 324320

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

- DUP (Lab ID: 1656169)
  - Nitrogen, Kjeldahl, Total

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
14 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 10/10
Pace Project No.: 70273550

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
14 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: 323402

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70273463002,70273550004

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

- MS (Lab ID: 1650915)
  - 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 10/10
Pace Project No.: 70273550

Method: **EPA 420.1**
Description: Phenolics, Total Recoverable
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
14 samples were analyzed for EPA 420.1 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 420.1 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: 323997

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70273508001

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

- MS (Lab ID: 1654505)
  - Phenolics, Total Recoverable

QC Batch: 324881

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70273431001

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

- MS (Lab ID: 1659512)
  - Phenolics, Total Recoverable

QC Batch: 325805

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70273653003

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

- MS (Lab ID: 1664745)
  - Phenolics, Total Recoverable

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

QC Batch: 324881

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

- DUP (Lab ID: 1659513)
  - Phenolics, Total Recoverable

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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516-370-6000

PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Method: **EPA 420.1**
Description: Phenolics, Total Recoverable
Client: Town of Oyster Bay
Date: November 07, 2023

Additional Comments:

Pace Analytical Services, LLC
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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Method: **SM22 4500-CN-E**
Description: SM 4500 CNE Cyanide, Total
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
14 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.

Additional Comments:

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PROJECT NARRATIVE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Method: **SM22 4500-Cl-E**
Description: 4500 Chloride
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
14 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.

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 10/10
Pace Project No.: 70273550

Method: **SM22 4500 NH3 H**
Description: 4500 Ammonia Water
Client: Town of Oyster Bay
Date: November 07, 2023

General Information:
14 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 10/10
Pace Project No.: 70273550

Sample: OBS-1 **Lab ID: 70273550001** Collected: 10/10/23 10:45 Received: 10/10/23 16:18 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	10/16/23 08:24	10/16/23 16:14	7429-90-5	
Barium	**30.6J**	ug/L	200	1	10/16/23 08:24	10/16/23 16:14	7440-39-3	
Calcium	**9960**	ug/L	200	1	10/16/23 08:24	10/16/23 16:14	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/16/23 08:24	10/16/23 16:14	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/16/23 08:24	10/16/23 16:14	7440-50-8	
Iron	**<100**	ug/L	100	1	10/16/23 08:24	10/16/23 16:14	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/16/23 08:24	10/16/23 16:14	7439-92-1	
Magnesium	**6680**	ug/L	200	1	10/16/23 08:24	10/16/23 16:14	7439-95-4	
Manganese	**2190**	ug/L	10.0	1	10/16/23 08:24	10/16/23 16:14	7439-96-5	
Nickel	**5.1J**	ug/L	40.0	1	10/16/23 08:24	10/16/23 16:14	7440-02-0	
Potassium	**15900**	ug/L	5000	1	10/16/23 08:24	10/16/23 16:14	7440-09-7	
Sodium	**36300**	ug/L	5000	1	10/16/23 08:24	10/16/23 16:14	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**52400**	ug/L	830	1	10/16/23 08:24	10/16/23 16:14		
Zinc	**<20.0**	ug/L	20.0	1	10/16/23 08:24	10/16/23 16:14	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**52400**	ug/L	830	1		10/16/23 16:14		
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	10/13/23 07:30	10/13/23 13:37	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/11/23 16:32	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/11/23 16:32	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/11/23 16:32	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/11/23 16:32	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/11/23 16:32	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/11/23 16:32	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 16:32	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/11/23 16:32	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/11/23 16:32	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/11/23 16:32	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 16:32	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 16:32	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 16:32	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/11/23 16:32	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/11/23 16:32	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/11/23 16:32	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 16:32	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 16:32	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 16:32	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/11/23 16:32	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: OBS-1 **Lab ID: 70273550001** Collected: 10/10/23 10:45 Received: 10/10/23 16:18 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		10/11/23 16:32	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/11/23 16:32	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/11/23 16:32	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/11/23 16:32	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/11/23 16:32	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/11/23 16:32	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 16:32	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/11/23 16:32	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/11/23 16:32	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/11/23 16:32	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/11/23 16:32	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	80-120	1		10/11/23 16:32	17060-07-0	
4-Bromofluorobenzene (S)	95	%	73-122	1		10/11/23 16:32	460-00-4	
Toluene-d8 (S)	98	%	75-122	1		10/11/23 16:32	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**127**	mg/L	1.0	1		10/20/23 12:47		
Alkalinity,Bicarbonate (CaCO3)	**127**	mg/L	1.0	1		10/20/23 12:47		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/20/23 12:47		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**141**	mg/L	5.0	1		10/16/23 12:23		
Alkalinity,Bicarbonate (CaCO3)	**141**	mg/L	5.0	1		10/16/23 12:23		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/16/23 12:23		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**232**	mg/L	10.0	1		10/11/23 16:26		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 12:27	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**19.1**	mg/L	5.0	1		10/25/23 02:58	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	**11.3**	mg/L	0.50	5	10/12/23 04:04	10/12/23 12:04	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: OBS-1 **Lab ID: 70273550001** Collected: 10/10/23 10:45 Received: 10/10/23 16:18 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)	**0.14**	mg/L	0.050	1		10/20/23 09:35	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		10/10/23 22:32	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**9.2J**	ug/L	10.0	1	10/16/23 12:15	10/16/23 17:00		
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	10/19/23 14:30	10/19/23 16:42	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**43.4**	mg/L	10.0	5		10/22/23 14:13	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**10.5**	mg/L	1.0	10		10/12/23 12:15	7664-41-7	

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516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-09C **Lab ID: 70273550002** Collected: 10/10/23 13:45 Received: 10/10/23 16:18 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	10/16/23 08:24	10/16/23 16:17	7429-90-5	
Barium	**63.1J**	ug/L	200	1	10/16/23 08:24	10/16/23 16:17	7440-39-3	
Calcium	**10100**	ug/L	200	1	10/16/23 08:24	10/16/23 16:17	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/16/23 08:24	10/16/23 16:17	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/16/23 08:24	10/16/23 16:17	7440-50-8	
Iron	**<100**	ug/L	100	1	10/16/23 08:24	10/16/23 16:17	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/16/23 08:24	10/16/23 16:17	7439-92-1	
Magnesium	**6440**	ug/L	200	1	10/16/23 08:24	10/16/23 16:17	7439-95-4	
Manganese	**245**	ug/L	10.0	1	10/16/23 08:24	10/16/23 16:17	7439-96-5	
Nickel	**5.0J**	ug/L	40.0	1	10/16/23 08:24	10/16/23 16:17	7440-02-0	
Potassium	**10200**	ug/L	5000	1	10/16/23 08:24	10/16/23 16:17	7440-09-7	
Sodium	**55100**	ug/L	5000	1	10/16/23 08:24	10/16/23 16:17	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**51700**	ug/L	830	1	10/16/23 08:24	10/16/23 16:17		
Zinc	**<20.0**	ug/L	20.0	1	10/16/23 08:24	10/16/23 16:17	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**51700**	ug/L	830	1		10/16/23 16:17		
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	10/13/23 07:30	10/13/23 13:38	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/11/23 16:52	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/11/23 16:52	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/11/23 16:52	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/11/23 16:52	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/11/23 16:52	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/11/23 16:52	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 16:52	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/11/23 16:52	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/11/23 16:52	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/11/23 16:52	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 16:52	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 16:52	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 16:52	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/11/23 16:52	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/11/23 16:52	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/11/23 16:52	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 16:52	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 16:52	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 16:52	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/11/23 16:52	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-09C **Lab ID: 70273550002** Collected: 10/10/23 13:45 Received: 10/10/23 16:18 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		10/11/23 16:52	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/11/23 16:52	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/11/23 16:52	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/11/23 16:52	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/11/23 16:52	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/11/23 16:52	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 16:52	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/11/23 16:52	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/11/23 16:52	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/11/23 16:52	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/11/23 16:52	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	80-120	1		10/11/23 16:52	17060-07-0	
4-Bromofluorobenzene (S)	95	%	73-122	1		10/11/23 16:52	460-00-4	
Toluene-d8 (S)	99	%	75-122	1		10/11/23 16:52	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**54.9**	mg/L	1.0	1		10/20/23 12:54		
Alkalinity,Bicarbonate (CaCO3)	**54.9**	mg/L	1.0	1		10/20/23 12:54		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/20/23 12:54		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**51.9**	mg/L	5.0	1		10/16/23 12:27		
Alkalinity,Bicarbonate (CaCO3)	**51.9**	mg/L	5.0	1		10/16/23 12:27		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/16/23 12:27		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**267**	mg/L	10.0	1		10/11/23 16:27		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 12:28	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**20.2**	mg/L	5.0	1		10/25/23 03:11	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	**0.85**	mg/L	0.10	1	10/12/23 04:04	10/12/23 11:51	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-09C **Lab ID: 70273550002** Collected: 10/10/23 13:45 Received: 10/10/23 16:18 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)	**0.26**	mg/L	0.050	1		10/20/23 09:39	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		10/10/23 22:39	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<10.0**	ug/L	10.0	1	10/16/23 12:15	10/16/23 17:01		
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	10/19/23 14:30	10/19/23 16:43	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**97.6**	mg/L	10.0	5		10/22/23 14:13	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		10/12/23 12:18	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-09B **Lab ID: 70273550003** Collected: 10/10/23 13:30 Received: 10/10/23 16:18 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	10/16/23 08:24	10/16/23 16:25	7429-90-5	
Barium	**87.2J**	ug/L	200	1	10/16/23 08:24	10/16/23 16:25	7440-39-3	
Calcium	**10600**	ug/L	200	1	10/16/23 08:24	10/16/23 16:25	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/16/23 08:24	10/16/23 16:25	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/16/23 08:24	10/16/23 16:25	7440-50-8	
Iron	**<100**	ug/L	100	1	10/16/23 08:24	10/16/23 16:25	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/16/23 08:24	10/16/23 16:25	7439-92-1	
Magnesium	**5110**	ug/L	200	1	10/16/23 08:24	10/16/23 16:25	7439-95-4	
Manganese	**2530**	ug/L	10.0	1	10/16/23 08:24	10/16/23 16:25	7439-96-5	
Nickel	**<40.0**	ug/L	40.0	1	10/16/23 08:24	10/16/23 16:25	7440-02-0	
Potassium	**8420**	ug/L	5000	1	10/16/23 08:24	10/16/23 16:25	7440-09-7	
Sodium	**53400**	ug/L	5000	1	10/16/23 08:24	10/16/23 16:25	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**47500**	ug/L	830	1	10/16/23 08:24	10/16/23 16:25		
Zinc	**<20.0**	ug/L	20.0	1	10/16/23 08:24	10/16/23 16:25	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**47500**	ug/L	830	1		10/16/23 16:25		
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	10/13/23 07:30	10/13/23 13:40	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/11/23 17:12	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/11/23 17:12	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/11/23 17:12	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/11/23 17:12	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/11/23 17:12	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/11/23 17:12	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 17:12	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/11/23 17:12	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/11/23 17:12	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/11/23 17:12	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 17:12	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 17:12	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 17:12	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/11/23 17:12	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/11/23 17:12	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/11/23 17:12	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 17:12	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 17:12	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 17:12	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/11/23 17:12	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-09B **Lab ID: 70273550003** Collected: 10/10/23 13:30 Received: 10/10/23 16:18 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		10/11/23 17:12	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/11/23 17:12	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/11/23 17:12	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/11/23 17:12	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/11/23 17:12	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/11/23 17:12	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 17:12	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/11/23 17:12	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/11/23 17:12	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/11/23 17:12	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/11/23 17:12	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	80-120	1		10/11/23 17:12	17060-07-0	
4-Bromofluorobenzene (S)	94	%	73-122	1		10/11/23 17:12	460-00-4	
Toluene-d8 (S)	98	%	75-122	1		10/11/23 17:12	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**33.3**	mg/L	1.0	1		10/20/23 13:01		
Alkalinity,Bicarbonate (CaCO3)	**33.3**	mg/L	1.0	1		10/20/23 13:01		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/20/23 13:01		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**35.0**	mg/L	5.0	1		10/16/23 12:31		
Alkalinity,Bicarbonate (CaCO3)	**35.0**	mg/L	5.0	1		10/16/23 12:31		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/16/23 12:31		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**239**	mg/L	10.0	1		10/11/23 16:36		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 12:29	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**19.3**	mg/L	5.0	1		10/25/23 03:24	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	**0.31**	mg/L	0.10	1	10/12/23 04:04	10/12/23 12:04	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-09B **Lab ID: 70273550003** Collected: 10/10/23 13:30 Received: 10/10/23 16:18 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)	**3.6**	mg/L	0.25	5		10/20/23 10:15	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		10/10/23 22:27	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<10.0**	ug/L	10.0	1	10/16/23 12:15	10/16/23 17:02		
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	10/19/23 14:30	10/19/23 16:44	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**94.9**	mg/L	10.0	5		10/22/23 14:14	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.30**	mg/L	0.10	1		10/12/23 12:19	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-05B **Lab ID: 70273550004** Collected: 10/10/23 15:30 Received: 10/10/23 16:18 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	10/16/23 08:24	10/16/23 16:28	7429-90-5	
Barium	**42.3J**	ug/L	200	1	10/16/23 08:24	10/16/23 16:28	7440-39-3	
Calcium	**11400**	ug/L	200	1	10/16/23 08:24	10/16/23 16:28	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/16/23 08:24	10/16/23 16:28	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/16/23 08:24	10/16/23 16:28	7440-50-8	
Iron	**<100**	ug/L	100	1	10/16/23 08:24	10/16/23 16:28	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/16/23 08:24	10/16/23 16:28	7439-92-1	
Magnesium	**5050**	ug/L	200	1	10/16/23 08:24	10/16/23 16:28	7439-95-4	
Manganese	**2260**	ug/L	10.0	1	10/16/23 08:24	10/16/23 16:28	7439-96-5	
Nickel	**8.1J**	ug/L	40.0	1	10/16/23 08:24	10/16/23 16:28	7440-02-0	
Potassium	**9030**	ug/L	5000	1	10/16/23 08:24	10/16/23 16:28	7440-09-7	
Sodium	**53700**	ug/L	5000	1	10/16/23 08:24	10/16/23 16:28	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**49300**	ug/L	830	1	10/16/23 08:24	10/16/23 16:28		
Zinc	**<20.0**	ug/L	20.0	1	10/16/23 08:24	10/16/23 16:28	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**49300**	ug/L	830	1		10/16/23 16:28		
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	10/13/23 07:30	10/13/23 13:41	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/11/23 17:32	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/11/23 17:32	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/11/23 17:32	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/11/23 17:32	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/11/23 17:32	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/11/23 17:32	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 17:32	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/11/23 17:32	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/11/23 17:32	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/11/23 17:32	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 17:32	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 17:32	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 17:32	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/11/23 17:32	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/11/23 17:32	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/11/23 17:32	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 17:32	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 17:32	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 17:32	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/11/23 17:32	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-05B **Lab ID: 70273550004** Collected: 10/10/23 15:30 Received: 10/10/23 16:18 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		10/11/23 17:32	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/11/23 17:32	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/11/23 17:32	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/11/23 17:32	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/11/23 17:32	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/11/23 17:32	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 17:32	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/11/23 17:32	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/11/23 17:32	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/11/23 17:32	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/11/23 17:32	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	80-120	1		10/11/23 17:32	17060-07-0	
4-Bromofluorobenzene (S)	97	%	73-122	1		10/11/23 17:32	460-00-4	
Toluene-d8 (S)	100	%	75-122	1		10/11/23 17:32	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**30.2**	mg/L	1.0	1		10/20/23 13:07		
Alkalinity,Bicarbonate (CaCO3)	**30.2**	mg/L	1.0	1		10/20/23 13:07		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/20/23 13:07		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**32.9**	mg/L	5.0	1		10/16/23 12:35		
Alkalinity,Bicarbonate (CaCO3)	**32.9**	mg/L	5.0	1		10/16/23 12:35		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/16/23 12:35		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**246**	mg/L	10.0	1		10/11/23 16:36		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 12:30	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**18.2**	mg/L	5.0	1		10/25/23 03:37	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	**0.30**	mg/L	0.10	1	10/12/23 04:04	10/12/23 12:05	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-05B **Lab ID: 70273550004** Collected: 10/10/23 15:30 Received: 10/10/23 16:18 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)	**4.1**	mg/L	0.25	5		10/20/23 10:16	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		10/10/23 22:34	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<10.0**	ug/L	10.0	1	10/16/23 12:15	10/16/23 17:02		
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	10/19/23 14:30	10/19/23 16:45	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**94.0**	mg/L	20.0	10		10/22/23 15:01	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		10/12/23 12:21	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: TRIP BLANK_10/10/23 **Lab ID: 70273550005** Collected: 10/10/23 00:00 Received: 10/10/23 16:18 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		10/11/23 13:14	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/11/23 13:14	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/11/23 13:14	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/11/23 13:14	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/11/23 13:14	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/11/23 13:14	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 13:14	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/11/23 13:14	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/11/23 13:14	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/11/23 13:14	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 13:14	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 13:14	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/11/23 13:14	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/11/23 13:14	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/11/23 13:14	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/11/23 13:14	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 13:14	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 13:14	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 13:14	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/11/23 13:14	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/11/23 13:14	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/11/23 13:14	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/11/23 13:14	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/11/23 13:14	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/11/23 13:14	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/11/23 13:14	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/11/23 13:14	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/11/23 13:14	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/11/23 13:14	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/11/23 13:14	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/11/23 13:14	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	80-120	1		10/11/23 13:14	17060-07-0	
4-Bromofluorobenzene (S)	96	%	73-122	1		10/11/23 13:14	460-00-4	
Toluene-d8 (S)	99	%	75-122	1		10/11/23 13:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: OBS-1 DISS **Lab ID: 70273550006** Collected: 10/10/23 10:45 Received: 10/13/23 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	**<200**	ug/L	200	1		10/12/23 13:30	7429-90-5	
Barium, Dissolved	**33.2J**	ug/L	200	1		10/12/23 13:30	7440-39-3	
Calcium, Dissolved	**11000**	ug/L	1000	1		10/12/23 13:30	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/12/23 13:30	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/12/23 13:30	7440-50-8	
Iron, Dissolved	**16.3J**	ug/L	20.0	1		10/12/23 13:30	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/12/23 13:30	7439-92-1	
Magnesium, Dissolved	**6950**	ug/L	1000	1		10/12/23 13:30	7439-95-4	
Manganese, Dissolved	**2350**	ug/L	10.0	1		10/12/23 13:30	7439-96-5	
Nickel, Dissolved	**5.7J**	ug/L	40.0	1		10/12/23 13:30	7440-02-0	
Potassium, Dissolved	**17700**	ug/L	5000	1		10/12/23 13:30	7440-09-7	
Sodium, Dissolved	**41200**	ug/L	5000	1		10/12/23 13:30	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/12/23 13:30	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	10/18/23 06:00	10/18/23 14:47	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 12:30	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-09C DISS **Lab ID: 70273550007** Collected: 10/10/23 13:45 Received: 10/13/23 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	**<200**	ug/L	200	1		10/12/23 13:33	7429-90-5	
Barium, Dissolved	**69.1J**	ug/L	200	1		10/12/23 13:33	7440-39-3	
Calcium, Dissolved	**11300**	ug/L	1000	1		10/12/23 13:33	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/12/23 13:33	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/12/23 13:33	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		10/12/23 13:33	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/12/23 13:33	7439-92-1	
Magnesium, Dissolved	**6790**	ug/L	1000	1		10/12/23 13:33	7439-95-4	
Manganese, Dissolved	**270**	ug/L	10.0	1		10/12/23 13:33	7439-96-5	
Nickel, Dissolved	**4.9J**	ug/L	40.0	1		10/12/23 13:33	7440-02-0	
Potassium, Dissolved	**11500**	ug/L	5000	1		10/12/23 13:33	7440-09-7	
Sodium, Dissolved	**62500**	ug/L	5000	1		10/12/23 13:33	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/12/23 13:33	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	10/18/23 06:00	10/18/23 14:48	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 12:31	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-09B DISS **Lab ID: 70273550008** Collected: 10/10/23 13:30 Received: 10/13/23 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	**<200**	ug/L	200	1		10/12/23 13:36	7429-90-5	
Barium, Dissolved	**96.2J**	ug/L	200	1		10/12/23 13:36	7440-39-3	
Calcium, Dissolved	**12000**	ug/L	1000	1		10/12/23 13:36	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/12/23 13:36	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/12/23 13:36	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		10/12/23 13:36	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/12/23 13:36	7439-92-1	
Magnesium, Dissolved	**5420**	ug/L	1000	1		10/12/23 13:36	7439-95-4	
Manganese, Dissolved	**2800**	ug/L	10.0	1		10/12/23 13:36	7439-96-5	
Nickel, Dissolved	**5.1J**	ug/L	40.0	1		10/12/23 13:36	7440-02-0	
Potassium, Dissolved	**9580**	ug/L	5000	1		10/12/23 13:36	7440-09-7	
Sodium, Dissolved	**61500**	ug/L	5000	1		10/12/23 13:36	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/12/23 13:36	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	10/18/23 06:00	10/18/23 14:53	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 12:31	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-05B DISS **Lab ID: 70273550009** Collected: 10/10/23 15:30 Received: 10/13/23 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	**<200**	ug/L	200	1		10/12/23 13:39	7429-90-5	
Barium, Dissolved	**45.5J**	ug/L	200	1		10/12/23 13:39	7440-39-3	
Calcium, Dissolved	**12700**	ug/L	1000	1		10/12/23 13:39	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/12/23 13:39	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/12/23 13:39	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		10/12/23 13:39	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/12/23 13:39	7439-92-1	
Magnesium, Dissolved	**5280**	ug/L	1000	1		10/12/23 13:39	7439-95-4	
Manganese, Dissolved	**2430**	ug/L	10.0	1		10/12/23 13:39	7439-96-5	
Nickel, Dissolved	**8.1J**	ug/L	40.0	1		10/12/23 13:39	7440-02-0	
Potassium, Dissolved	**10100**	ug/L	5000	1		10/12/23 13:39	7440-09-7	
Sodium, Dissolved	**60900**	ug/L	5000	1		10/12/23 13:39	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/12/23 13:39	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	10/18/23 06:00	10/18/23 14:54	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 12:32	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-08A **Lab ID: 70273550010** Collected: 10/11/23 10:30 Received: 10/11/23 15:36 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	**55.6J**	ug/L	200	1	10/16/23 08:24	10/16/23 16:11	7429-90-5	
Barium	**45.2J**	ug/L	200	1	10/16/23 08:24	10/16/23 16:11	7440-39-3	
Calcium	**3070**	ug/L	200	1	10/16/23 08:24	10/16/23 16:11	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/16/23 08:24	10/16/23 16:11	7440-47-3	
Copper	**5.9J**	ug/L	25.0	1	10/16/23 08:24	10/16/23 16:11	7440-50-8	
Iron	**<100**	ug/L	100	1	10/16/23 08:24	10/16/23 16:11	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/16/23 08:24	10/16/23 16:11	7439-92-1	
Magnesium	**3570**	ug/L	200	1	10/16/23 08:24	10/16/23 16:11	7439-95-4	
Manganese	**78.1**	ug/L	10.0	1	10/16/23 08:24	10/16/23 16:11	7439-96-5	
Nickel	**9.6J**	ug/L	40.0	1	10/16/23 08:24	10/16/23 16:11	7440-02-0	
Potassium	**3780J**	ug/L	5000	1	10/16/23 08:24	10/16/23 16:11	7440-09-7	
Sodium	**10100**	ug/L	5000	1	10/16/23 08:24	10/16/23 16:11	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**22400**	ug/L	830	1	10/16/23 08:24	10/16/23 16:11		
Zinc	**14.3J**	ug/L	20.0	1	10/16/23 08:24	10/16/23 16:11	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**22400**	ug/L	830	1		10/16/23 16:11		
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	10/13/23 07:30	10/13/23 13:44	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/17/23 17:56	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/17/23 17:56	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/17/23 17:56	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 17:56	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 17:56	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/17/23 17:56	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 17:56	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/17/23 17:56	75-00-3	
Chloroform	**1.5**	ug/L	1.0	1		10/17/23 17:56	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/17/23 17:56	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 17:56	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 17:56	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 17:56	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/17/23 17:56	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 17:56	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 17:56	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 17:56	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 17:56	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 17:56	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/17/23 17:56	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-08A **Lab ID: 70273550010** Collected: 10/11/23 10:30 Received: 10/11/23 15:36 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		10/17/23 17:56	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/17/23 17:56	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/17/23 17:56	75-09-2	
Tetrachloroethene	**4.4**	ug/L	1.0	1		10/17/23 17:56	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/17/23 17:56	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 17:56	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 17:56	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/17/23 17:56	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/17/23 17:56	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/17/23 17:56	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/17/23 17:56	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		10/17/23 17:56	17060-07-0	
4-Bromofluorobenzene (S)	102	%	73-122	1		10/17/23 17:56	460-00-4	
Toluene-d8 (S)	100	%	75-122	1		10/17/23 17:56	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**2.5**	mg/L	1.0	1		10/23/23 09:48		
Alkalinity,Bicarbonate (CaCO3)	**2.5**	mg/L	1.0	1		10/23/23 09:48		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/23/23 09:48		M1
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**1.8J**	mg/L	5.0	1		10/16/23 12:38		
Alkalinity,Bicarbonate (CaCO3)	**1.8J**	mg/L	5.0	1		10/16/23 12:38		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/16/23 12:38		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**75.0**	mg/L	10.0	1		10/16/23 16:58		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 23:36	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**16.3**	mg/L	5.0	1		10/26/23 13:21	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	**0.12**	mg/L	0.10	1	10/18/23 04:00	10/18/23 13:24	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-08A **Lab ID: 70273550010** Collected: 10/11/23 10:30 Received: 10/11/23 15:36 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)	**0.46**	mg/L	0.050	1		10/20/23 09:43	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		10/11/23 22:55	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**104**	ug/L	10.0	1	10/23/23 12:00	10/23/23 17:38		
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	10/19/23 14:30	10/19/23 16:48	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**22.5**	mg/L	2.0	1		10/22/23 14:53	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		10/19/23 14:31	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-08B **Lab ID: 70273550011** Collected: 10/11/23 10:45 Received: 10/11/23 15:36 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	10/17/23 07:51	10/17/23 14:59	7429-90-5	
Barium	**71.5J**	ug/L	200	1	10/17/23 07:51	10/17/23 14:59	7440-39-3	
Calcium	**17600**	ug/L	200	1	10/17/23 07:51	10/17/23 14:59	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/17/23 07:51	10/17/23 14:59	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/17/23 07:51	10/17/23 14:59	7440-50-8	
Iron	**<100**	ug/L	100	1	10/17/23 07:51	10/17/23 14:59	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/17/23 07:51	10/17/23 14:59	7439-92-1	
Magnesium	**4680**	ug/L	200	1	10/17/23 07:51	10/17/23 14:59	7439-95-4	
Manganese	**559**	ug/L	10.0	1	10/17/23 07:51	10/17/23 14:59	7439-96-5	
Nickel	**16.5J**	ug/L	40.0	1	10/17/23 07:51	10/17/23 14:59	7440-02-0	
Potassium	**9910**	ug/L	5000	1	10/17/23 07:51	10/17/23 14:59	7440-09-7	
Sodium	**107000**	ug/L	5000	1	10/17/23 07:51	10/17/23 14:59	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**63200**	ug/L	830	1	10/17/23 07:51	10/17/23 14:59		
Zinc	**25.8**	ug/L	20.0	1	10/17/23 07:51	10/17/23 14:59	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**63200**	ug/L	830	1		10/17/23 14:59		
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	10/13/23 07:30	10/13/23 13:48	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/17/23 18:18	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/17/23 18:18	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/17/23 18:18	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 18:18	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 18:18	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/17/23 18:18	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 18:18	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/17/23 18:18	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/17/23 18:18	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/17/23 18:18	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 18:18	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 18:18	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 18:18	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/17/23 18:18	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 18:18	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 18:18	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 18:18	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 18:18	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 18:18	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/17/23 18:18	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-08B **Lab ID: 70273550011** Collected: 10/11/23 10:45 Received: 10/11/23 15:36 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		10/17/23 18:18	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/17/23 18:18	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/17/23 18:18	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/17/23 18:18	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/17/23 18:18	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 18:18	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 18:18	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/17/23 18:18	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/17/23 18:18	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/17/23 18:18	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/17/23 18:18	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		10/17/23 18:18	17060-07-0	
4-Bromofluorobenzene (S)	101	%	73-122	1		10/17/23 18:18	460-00-4	
Toluene-d8 (S)	100	%	75-122	1		10/17/23 18:18	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**20.6**	mg/L	1.0	1		10/23/23 10:07		
Alkalinity,Bicarbonate (CaCO3)	**20.6**	mg/L	1.0	1		10/23/23 10:07		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/23/23 10:07		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**23.7**	mg/L	5.0	1		10/19/23 18:05		
Alkalinity,Bicarbonate (CaCO3)	**23.7**	mg/L	5.0	1		10/19/23 18:05		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/19/23 18:05		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**374**	mg/L	10.0	1		10/16/23 17:06		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 23:38	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**29.6**	mg/L	5.0	1		10/26/23 13:34	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	10/18/23 04:00	10/18/23 13:42	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-08B **Lab ID: 70273550011** Collected: 10/11/23 10:45 Received: 10/11/23 15:36 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)	**2.3**	mg/L	0.050	1		10/20/23 09:46	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		10/11/23 23:06	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<10.0**	ug/L	10.0	1	10/23/23 12:00	10/23/23 17:39		
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	10/19/23 14:30	10/19/23 16:49	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**181**	mg/L	20.0	10		10/22/23 14:18	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.13**	mg/L	0.10	1		10/19/23 14:32	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: LF-2 **Lab ID: 70273550012** Collected: 10/11/23 12:30 Received: 10/11/23 15:36 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	**56.9J**	ug/L	200	1	10/17/23 07:51	10/17/23 15:02	7429-90-5	
Barium	**62.4J**	ug/L	200	1	10/17/23 07:51	10/17/23 15:02	7440-39-3	
Calcium	**51400**	ug/L	200	1	10/17/23 07:51	10/17/23 15:02	7440-70-2	
Chromium	**6.2J**	ug/L	10.0	1	10/17/23 07:51	10/17/23 15:02	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/17/23 07:51	10/17/23 15:02	7440-50-8	
Iron	**9650**	ug/L	100	1	10/17/23 07:51	10/17/23 15:02	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/17/23 07:51	10/17/23 15:02	7439-92-1	
Magnesium	**28100**	ug/L	200	1	10/17/23 07:51	10/17/23 15:02	7439-95-4	
Manganese	**184**	ug/L	10.0	1	10/17/23 07:51	10/17/23 15:02	7439-96-5	
Nickel	**15.8J**	ug/L	40.0	1	10/17/23 07:51	10/17/23 15:02	7440-02-0	
Potassium	**122000**	ug/L	5000	1	10/17/23 07:51	10/17/23 15:02	7440-09-7	
Sodium	**386000**	ug/L	5000	1	10/17/23 07:51	10/17/23 15:02	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**244000**	ug/L	830	1	10/17/23 07:51	10/17/23 15:02		
Zinc	**<20.0**	ug/L	20.0	1	10/17/23 07:51	10/17/23 15:02	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**244000**	ug/L	830	1		10/17/23 15:02		
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	10/13/23 07:30	10/13/23 13:49	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**1.2**	ug/L	1.0	1		10/17/23 18:40	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/17/23 18:40	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/17/23 18:40	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 18:40	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 18:40	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/17/23 18:40	56-23-5	
Chlorobenzene	**2.4**	ug/L	1.0	1		10/17/23 18:40	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/17/23 18:40	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/17/23 18:40	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/17/23 18:40	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 18:40	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 18:40	541-73-1	
1,4-Dichlorobenzene	**2.0**	ug/L	1.0	1		10/17/23 18:40	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/17/23 18:40	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 18:40	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 18:40	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 18:40	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 18:40	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 18:40	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/17/23 18:40	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: LF-2 **Lab ID: 70273550012** Collected: 10/11/23 12:30 Received: 10/11/23 15:36 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		10/17/23 18:40	100-41-4	
Isopropylbenzene (Cumene)	**2.2**	ug/L	1.0	1		10/17/23 18:40	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/17/23 18:40	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/17/23 18:40	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/17/23 18:40	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 18:40	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 18:40	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/17/23 18:40	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/17/23 18:40	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/17/23 18:40	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/17/23 18:40	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	80-120	1		10/17/23 18:40	17060-07-0	
4-Bromofluorobenzene (S)	102	%	73-122	1		10/17/23 18:40	460-00-4	
Toluene-d8 (S)	100	%	75-122	1		10/17/23 18:40	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**1140**	mg/L	1.0	1		10/23/23 10:50		
Alkalinity,Bicarbonate (CaCO3)	**1140**	mg/L	1.0	1		10/23/23 10:50		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/23/23 10:50		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**1130**	mg/L	5.0	1		10/19/23 18:10		
Alkalinity,Bicarbonate (CaCO3)	**1130**	mg/L	5.0	1		10/19/23 18:10		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/19/23 18:10		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**1540**	mg/L	200	1		10/16/23 17:06		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 23:39	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**8.2**	mg/L	5.0	1		10/26/23 13:46	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	**95.5**	mg/L	5.0	50	10/18/23 04:00	10/18/23 13:43	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: LF-2 **Lab ID: 70273550012** Collected: 10/11/23 12:30 Received: 10/11/23 15:36 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)	**<0.050**	mg/L	0.050	1		10/20/23 10:17	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		10/11/23 23:31	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**8.4J**	ug/L	10.0	1	10/23/23 12:00	10/23/23 17:40		
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	10/19/23 14:30	10/19/23 16:51	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**321**	mg/L	20.0	10		10/22/23 14:20	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**102**	mg/L	2.5	25		10/19/23 14:19	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: LF-1 **Lab ID: 70273550013** Collected: 10/11/23 14:30 Received: 10/11/23 15:36 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	10/17/23 07:51	10/17/23 15:05	7429-90-5	
Barium	**89.3J**	ug/L	200	1	10/17/23 07:51	10/17/23 15:05	7440-39-3	
Calcium	**15100**	ug/L	200	1	10/17/23 07:51	10/17/23 15:05	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/17/23 07:51	10/17/23 15:05	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/17/23 07:51	10/17/23 15:05	7440-50-8	
Iron	**9420**	ug/L	100	1	10/17/23 07:51	10/17/23 15:05	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/17/23 07:51	10/17/23 15:05	7439-92-1	
Magnesium	**9920**	ug/L	200	1	10/17/23 07:51	10/17/23 15:05	7439-95-4	
Manganese	**2530**	ug/L	10.0	1	10/17/23 07:51	10/17/23 15:05	7439-96-5	
Nickel	**7.5J**	ug/L	40.0	1	10/17/23 07:51	10/17/23 15:05	7440-02-0	
Potassium	**15900**	ug/L	5000	1	10/17/23 07:51	10/17/23 15:05	7440-09-7	
Sodium	**76700**	ug/L	5000	1	10/17/23 07:51	10/17/23 15:05	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**78600**	ug/L	830	1	10/17/23 07:51	10/17/23 15:05		
Zinc	**<20.0**	ug/L	20.0	1	10/17/23 07:51	10/17/23 15:05	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**78600**	ug/L	830	1		10/17/23 15:05		
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	10/13/23 07:30	10/13/23 13:51	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/17/23 19:01	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/17/23 19:01	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/17/23 19:01	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:01	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:01	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/17/23 19:01	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:01	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/17/23 19:01	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/17/23 19:01	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/17/23 19:01	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:01	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:01	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:01	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/17/23 19:01	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 19:01	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 19:01	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 19:01	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 19:01	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 19:01	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/17/23 19:01	78-87-5	

Pace Analytical Services, LLC
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516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: LF-1 **Lab ID: 70273550013** Collected: 10/11/23 14:30 Received: 10/11/23 15:36 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		10/17/23 19:01	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/17/23 19:01	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/17/23 19:01	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/17/23 19:01	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/17/23 19:01	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 19:01	71-55-6	
Trichloroethene	**2.8**	ug/L	1.0	1		10/17/23 19:01	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/17/23 19:01	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/17/23 19:01	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/17/23 19:01	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/17/23 19:01	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		10/17/23 19:01	17060-07-0	
4-Bromofluorobenzene (S)	102	%	73-122	1		10/17/23 19:01	460-00-4	
Toluene-d8 (S)	100	%	75-122	1		10/17/23 19:01	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**53.4**	mg/L	1.0	1		10/23/23 10:57		
Alkalinity,Bicarbonate (CaCO3)	**53.4**	mg/L	1.0	1		10/23/23 10:57		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/23/23 10:57		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**60.4**	mg/L	5.0	1		10/19/23 18:14		
Alkalinity,Bicarbonate (CaCO3)	**60.4**	mg/L	5.0	1		10/19/23 18:14		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/19/23 18:14		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**372**	mg/L	20.0	1		10/17/23 17:17		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 23:40	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**25.4**	mg/L	5.0	1		10/26/23 13:59	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	**2.7**	mg/L	0.10	1	10/18/23 04:00	10/18/23 13:27	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: LF-1 **Lab ID: 70273550013** Collected: 10/11/23 14:30 Received: 10/11/23 15:36 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)	**<0.050**	mg/L	0.050	1		10/20/23 10:18	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**0.056**	mg/L	0.050	1		10/11/23 23:32	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<10.0**	ug/L	10.0	1	10/23/23 12:00	10/23/23 17:40		
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	10/19/23 14:30	10/19/23 16:52	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**149**	mg/L	20.0	10		10/22/23 14:20	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**2.3**	mg/L	0.50	5		10/19/23 14:34	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: BLINDDUPLICATE-1 **Lab ID: 70273550014** Collected: 10/11/23 00:00 Received: 10/13/23 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	**71.2J**	ug/L	200	1	10/18/23 08:19	10/19/23 11:37	7429-90-5	
Barium	**71.3J**	ug/L	200	1	10/18/23 08:19	10/19/23 11:37	7440-39-3	
Calcium	**57800**	ug/L	200	1	10/18/23 08:19	10/19/23 11:37	7440-70-2	
Chromium	**6.3J**	ug/L	10.0	1	10/18/23 08:19	10/19/23 11:37	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/18/23 08:19	10/19/23 11:37	7440-50-8	
Iron	**12000**	ug/L	100	1	10/18/23 08:19	10/19/23 11:37	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/18/23 08:19	10/19/23 11:37	7439-92-1	
Magnesium	**32400**	ug/L	200	1	10/18/23 08:19	10/19/23 11:37	7439-95-4	
Manganese	**212**	ug/L	10.0	1	10/18/23 08:19	10/19/23 11:37	7439-96-5	
Nickel	**14.1J**	ug/L	40.0	1	10/18/23 08:19	10/19/23 11:37	7440-02-0	
Potassium	**130000**	ug/L	5000	1	10/18/23 08:19	10/19/23 11:37	7440-09-7	
Sodium	**430000**	ug/L	5000	1	10/18/23 08:19	10/19/23 11:37	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**278000**	ug/L	830	1	10/18/23 08:19	10/19/23 11:37		
Zinc	**<20.0**	ug/L	20.0	1	10/18/23 08:19	10/19/23 11:37	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**278000**	ug/L	830	1		10/19/23 11:37		
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	10/13/23 07:30	10/13/23 13:52	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**1.2**	ug/L	1.0	1		10/17/23 19:23	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/17/23 19:23	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/17/23 19:23	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:23	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:23	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/17/23 19:23	56-23-5	
Chlorobenzene	**2.3**	ug/L	1.0	1		10/17/23 19:23	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/17/23 19:23	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/17/23 19:23	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/17/23 19:23	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:23	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:23	541-73-1	
1,4-Dichlorobenzene	**1.9**	ug/L	1.0	1		10/17/23 19:23	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/17/23 19:23	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 19:23	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 19:23	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 19:23	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 19:23	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 19:23	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/17/23 19:23	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: BLINDDUPLICATE-1 **Lab ID: 70273550014** Collected: 10/11/23 00:00 Received: 10/13/23 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		10/17/23 19:23	100-41-4	
Isopropylbenzene (Cumene)	**2.2**	ug/L	1.0	1		10/17/23 19:23	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/17/23 19:23	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/17/23 19:23	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/17/23 19:23	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 19:23	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 19:23	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/17/23 19:23	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/17/23 19:23	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/17/23 19:23	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/17/23 19:23	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		10/17/23 19:23	17060-07-0	
4-Bromofluorobenzene (S)	102	%	73-122	1		10/17/23 19:23	460-00-4	
Toluene-d8 (S)	101	%	75-122	1		10/17/23 19:23	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**1160**	mg/L	1.0	1		10/23/23 12:20		
Alkalinity,Bicarbonate (CaCO3)	**1160**	mg/L	1.0	1		10/23/23 12:20		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/23/23 12:20		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**1180**	mg/L	5.0	1		10/19/23 18:18		
Alkalinity,Bicarbonate (CaCO3)	**1180**	mg/L	5.0	1		10/19/23 18:18		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/19/23 18:18		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**2180**	mg/L	200	1		10/17/23 17:18		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 23:33	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**8.2**	mg/L	5.0	1		10/30/23 13:10	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	**95.0**	mg/L	5.0	50	10/18/23 04:00	10/18/23 13:48	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: BLINDDUPLICATE-1 **Lab ID: 70273550014** Collected: 10/11/23 00:00 Received: 10/13/23 08:00 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)	**<0.050**	mg/L	0.050	1		10/20/23 10:03	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		10/11/23 22:11	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**34.5**	ug/L	10.0	1	10/31/23 13:00	10/31/23 17:00		
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	10/24/23 14:20	10/25/23 09:16	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**310**	mg/L	20.0	10		10/22/23 14:21	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**114**	mg/L	5.0	50		10/22/23 12:22	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: TRIPBLANK_10/11/23 **Lab ID: 70273550015** Collected: 10/11/23 00:00 Received: 10/13/23 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		10/17/23 19:45	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/17/23 19:45	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/17/23 19:45	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:45	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:45	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/17/23 19:45	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:45	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/17/23 19:45	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/17/23 19:45	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/17/23 19:45	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:45	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:45	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:45	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/17/23 19:45	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 19:45	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 19:45	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 19:45	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 19:45	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 19:45	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/17/23 19:45	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 19:45	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/17/23 19:45	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/17/23 19:45	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/17/23 19:45	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/17/23 19:45	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 19:45	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 19:45	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/17/23 19:45	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/17/23 19:45	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/17/23 19:45	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/17/23 19:45	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		10/17/23 19:45	17060-07-0	
4-Bromofluorobenzene (S)	103	%	73-122	1		10/17/23 19:45	460-00-4	
Toluene-d8 (S)	101	%	75-122	1		10/17/23 19:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-08A DISS **Lab ID: 70273550016** Collected: 10/11/23 10:30 Received: 10/13/23 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	**37.8J**	ug/L	200	1		10/16/23 11:24	7429-90-5	
Barium, Dissolved	**46.4J**	ug/L	200	1		10/16/23 11:24	7440-39-3	
Calcium, Dissolved	**3110**	ug/L	1000	1		10/16/23 11:24	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/16/23 11:24	7440-47-3	
Copper, Dissolved	**6.1J**	ug/L	25.0	1		10/16/23 11:24	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		10/16/23 11:24	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/16/23 11:24	7439-92-1	
Magnesium, Dissolved	**3640**	ug/L	1000	1		10/16/23 11:24	7439-95-4	
Manganese, Dissolved	**80.0**	ug/L	10.0	1		10/16/23 11:24	7439-96-5	
Nickel, Dissolved	**9.7J**	ug/L	40.0	1		10/16/23 11:24	7440-02-0	
Potassium, Dissolved	**3750J**	ug/L	5000	1		10/16/23 11:24	7440-09-7	
Sodium, Dissolved	**9890**	ug/L	5000	1		10/16/23 11:24	7440-23-5	
Zinc, Dissolved	**15.0J**	ug/L	20.0	1		10/16/23 11:24	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	10/18/23 06:00	10/18/23 14:55	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 23:37	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-08B DISS **Lab ID: 70273550017** Collected: 10/11/23 10:45 Received: 10/13/23 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	**<200**	ug/L	200	1		10/16/23 11:34	7429-90-5	
Barium, Dissolved	**69.7J**	ug/L	200	1		10/16/23 11:34	7440-39-3	
Calcium, Dissolved	**16300**	ug/L	1000	1		10/16/23 11:34	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/16/23 11:34	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/16/23 11:34	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		10/16/23 11:34	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/16/23 11:34	7439-92-1	
Magnesium, Dissolved	**4750**	ug/L	1000	1		10/16/23 11:34	7439-95-4	
Manganese, Dissolved	**544**	ug/L	10.0	1		10/16/23 11:34	7439-96-5	
Nickel, Dissolved	**16.7J**	ug/L	40.0	1		10/16/23 11:34	7440-02-0	
Potassium, Dissolved	**8580**	ug/L	5000	1		10/16/23 11:34	7440-09-7	
Sodium, Dissolved	**104000**	ug/L	5000	1		10/16/23 11:34	7440-23-5	
Zinc, Dissolved	**25.7**	ug/L	20.0	1		10/16/23 11:34	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	10/18/23 06:00	10/18/23 14:57	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 23:38	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: LF-2 DISS **Lab ID: 70273550018** Collected: 10/11/23 12:30 Received: 10/13/23 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	**58.2J**	ug/L	200	1		10/16/23 11:56	7429-90-5	
Barium, Dissolved	**64.2J**	ug/L	200	1		10/16/23 11:56	7440-39-3	
Calcium, Dissolved	**47000**	ug/L	1000	1		10/16/23 11:56	7440-70-2	
Chromium, Dissolved	**7.3J**	ug/L	10.0	1		10/16/23 11:56	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/16/23 11:56	7440-50-8	
Iron, Dissolved	**10300**	ug/L	20.0	1		10/16/23 11:56	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/16/23 11:56	7439-92-1	
Magnesium, Dissolved	**27400**	ug/L	1000	1		10/16/23 11:56	7439-95-4	
Manganese, Dissolved	**182**	ug/L	10.0	1		10/16/23 11:56	7439-96-5	
Nickel, Dissolved	**16.7J**	ug/L	40.0	1		10/16/23 11:56	7440-02-0	
Potassium, Dissolved	**114000**	ug/L	5000	1		10/16/23 11:56	7440-09-7	
Sodium, Dissolved	**352000**	ug/L	5000	1		10/16/23 11:56	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/16/23 11:56	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	10/18/23 06:00	10/18/23 14:58	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 23:39	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: LF-1 DISS **Lab ID: 70273550019** Collected: 10/11/23 14:30 Received: 10/13/23 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	**<200**	ug/L	200	1		10/16/23 11:59	7429-90-5	
Barium, Dissolved	**91.0J**	ug/L	200	1		10/16/23 11:59	7440-39-3	
Calcium, Dissolved	**13900**	ug/L	1000	1		10/16/23 11:59	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/16/23 11:59	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/16/23 11:59	7440-50-8	
Iron, Dissolved	**16600**	ug/L	20.0	1		10/16/23 11:59	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/16/23 11:59	7439-92-1	
Magnesium, Dissolved	**10000**	ug/L	1000	1		10/16/23 11:59	7439-95-4	
Manganese, Dissolved	**2480**	ug/L	10.0	1		10/16/23 11:59	7439-96-5	
Nickel, Dissolved	**7.9J**	ug/L	40.0	1		10/16/23 11:59	7440-02-0	
Potassium, Dissolved	**14600**	ug/L	5000	1		10/16/23 11:59	7440-09-7	
Sodium, Dissolved	**76800**	ug/L	5000	1		10/16/23 11:59	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/16/23 11:59	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	10/18/23 06:00	10/18/23 14:59	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 23:40	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: BLIND DUPLICATE-1 DISS **Lab ID: 70273550020** Collected: 10/11/23 00:00 Received: 10/13/23 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	**58.5J**	ug/L	200	1		10/16/23 12:01	7429-90-5	
Barium, Dissolved	**63.1J**	ug/L	200	1		10/16/23 12:01	7440-39-3	
Calcium, Dissolved	**47100**	ug/L	1000	1		10/16/23 12:01	7440-70-2	
Chromium, Dissolved	**6.1J**	ug/L	10.0	1		10/16/23 12:01	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/16/23 12:01	7440-50-8	
Iron, Dissolved	**10200**	ug/L	20.0	1		10/16/23 12:01	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/16/23 12:01	7439-92-1	
Magnesium, Dissolved	**27800**	ug/L	1000	1		10/16/23 12:01	7439-95-4	
Manganese, Dissolved	**179**	ug/L	10.0	1		10/16/23 12:01	7439-96-5	
Nickel, Dissolved	**14.7J**	ug/L	40.0	1		10/16/23 12:01	7440-02-0	
Potassium, Dissolved	**112000**	ug/L	5000	1		10/16/23 12:01	7440-09-7	
Sodium, Dissolved	**345000**	ug/L	5000	1		10/16/23 12:01	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/16/23 12:01	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	10/18/23 06:00	10/18/23 15:01	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/11/23 23:34	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-06B **Lab ID: 70273550021** Collected: 10/12/23 13:00 Received: 10/12/23 15:15 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	10/18/23 08:19	10/19/23 11:12	7429-90-5	
Barium	**45.2J**	ug/L	200	1	10/18/23 08:19	10/19/23 11:12	7440-39-3	
Calcium	**18500**	ug/L	200	1	10/18/23 08:19	10/19/23 11:12	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/18/23 08:19	10/19/23 11:12	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/18/23 08:19	10/19/23 11:12	7440-50-8	
Iron	**12100**	ug/L	100	1	10/18/23 08:19	10/19/23 11:12	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/18/23 08:19	10/19/23 11:12	7439-92-1	
Magnesium	**17700**	ug/L	200	1	10/18/23 08:19	10/19/23 11:12	7439-95-4	
Manganese	**30.7**	ug/L	10.0	1	10/18/23 08:19	10/19/23 11:12	7439-96-5	
Nickel	**<40.0**	ug/L	40.0	1	10/18/23 08:19	10/19/23 11:12	7440-02-0	
Potassium	**52000**	ug/L	5000	1	10/18/23 08:19	10/19/23 11:12	7440-09-7	
Sodium	**90800**	ug/L	5000	1	10/18/23 08:19	10/19/23 11:12	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**119000**	ug/L	830	1	10/18/23 08:19	10/19/23 11:12		
Zinc	**<20.0**	ug/L	20.0	1	10/18/23 08:19	10/19/23 11:12	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**119000**	ug/L	830	1		10/19/23 11:12		
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	10/18/23 06:00	10/18/23 15:43	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/17/23 20:06	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/17/23 20:06	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/17/23 20:06	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 20:06	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 20:06	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/17/23 20:06	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 20:06	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/17/23 20:06	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/17/23 20:06	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/17/23 20:06	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 20:06	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 20:06	541-73-1	
1,4-Dichlorobenzene	**2.0**	ug/L	1.0	1		10/17/23 20:06	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/17/23 20:06	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 20:06	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 20:06	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 20:06	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 20:06	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 20:06	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/17/23 20:06	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-06B **Lab ID: 70273550021** Collected: 10/12/23 13:00 Received: 10/12/23 15:15 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		10/17/23 20:06	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/17/23 20:06	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/17/23 20:06	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/17/23 20:06	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/17/23 20:06	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 20:06	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 20:06	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/17/23 20:06	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/17/23 20:06	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/17/23 20:06	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/17/23 20:06	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		10/17/23 20:06	17060-07-0	
4-Bromofluorobenzene (S)	102	%	73-122	1		10/17/23 20:06	460-00-4	
Toluene-d8 (S)	100	%	75-122	1		10/17/23 20:06	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**406**	mg/L	1.0	1		10/25/23 15:02		
Alkalinity,Bicarbonate (CaCO3)	**406**	mg/L	1.0	1		10/25/23 15:02		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/25/23 15:02		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**466**	mg/L	5.0	1		10/19/23 18:22		
Alkalinity,Bicarbonate (CaCO3)	**466**	mg/L	5.0	1		10/19/23 18:22		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/19/23 18:22		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**476**	mg/L	20.0	1		10/17/23 17:45		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**0.038**	mg/L	0.020	1		10/13/23 13:09	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**6.8**	mg/L	5.0	1		10/30/23 12:32	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	**45.4**	mg/L	2.0	20	10/18/23 04:00	10/18/23 13:45	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-06B **Lab ID: 70273550021** Collected: 10/12/23 13:00 Received: 10/12/23 15:15 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)	**<0.050**	mg/L	0.050	1		10/20/23 09:53	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		10/12/23 22:48	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**7.8J**	ug/L	10.0	1	10/31/23 13:00	10/31/23 16:54		
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	10/24/23 14:20	10/25/23 09:21	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**77.8**	mg/L	20.0	10		10/22/23 14:22	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**64.8**	mg/L	5.0	50		10/22/23 12:24	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-06C **Lab ID: 70273550022** Collected: 10/12/23 10:45 Received: 10/12/23 15:15 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	**49.4J**	ug/L	200	1	10/18/23 08:19	10/19/23 11:15	7429-90-5	
Barium	**37.9J**	ug/L	200	1	10/18/23 08:19	10/19/23 11:15	7440-39-3	
Calcium	**50800**	ug/L	200	1	10/18/23 08:19	10/19/23 11:15	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/18/23 08:19	10/19/23 11:15	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/18/23 08:19	10/19/23 11:15	7440-50-8	
Iron	**7070**	ug/L	100	1	10/18/23 08:19	10/19/23 11:15	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/18/23 08:19	10/19/23 11:15	7439-92-1	
Magnesium	**19800**	ug/L	200	1	10/18/23 08:19	10/19/23 11:15	7439-95-4	
Manganese	**119**	ug/L	10.0	1	10/18/23 08:19	10/19/23 11:15	7439-96-5	
Nickel	**12.2J**	ug/L	40.0	1	10/18/23 08:19	10/19/23 11:15	7440-02-0	
Potassium	**89900**	ug/L	5000	1	10/18/23 08:19	10/19/23 11:15	7440-09-7	
Sodium	**291000**	ug/L	5000	1	10/18/23 08:19	10/19/23 11:15	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**208000**	ug/L	830	1	10/18/23 08:19	10/19/23 11:15		
Zinc	**<20.0**	ug/L	20.0	1	10/18/23 08:19	10/19/23 11:15	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**208000**	ug/L	830	1		10/19/23 11:15		
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	10/18/23 06:00	10/18/23 15:45	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**1.7**	ug/L	1.0	1		10/17/23 20:28	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/17/23 20:28	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/17/23 20:28	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 20:28	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 20:28	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/17/23 20:28	56-23-5	
Chlorobenzene	**5.4**	ug/L	1.0	1		10/17/23 20:28	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/17/23 20:28	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/17/23 20:28	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/17/23 20:28	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 20:28	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 20:28	541-73-1	
1,4-Dichlorobenzene	**2.0**	ug/L	1.0	1		10/17/23 20:28	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/17/23 20:28	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 20:28	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 20:28	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 20:28	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 20:28	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 20:28	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/17/23 20:28	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-06C **Lab ID: 70273550022** Collected: 10/12/23 10:45 Received: 10/12/23 15:15 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		10/17/23 20:28	100-41-4	
Isopropylbenzene (Cumene)	**2.6**	ug/L	1.0	1		10/17/23 20:28	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/17/23 20:28	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/17/23 20:28	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/17/23 20:28	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 20:28	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 20:28	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/17/23 20:28	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/17/23 20:28	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/17/23 20:28	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/17/23 20:28	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	80-120	1		10/17/23 20:28	17060-07-0	
4-Bromofluorobenzene (S)	102	%	73-122	1		10/17/23 20:28	460-00-4	
Toluene-d8 (S)	101	%	75-122	1		10/17/23 20:28	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**811**	mg/L	1.0	1		10/25/23 15:34		
Alkalinity,Bicarbonate (CaCO3)	**811**	mg/L	1.0	1		10/25/23 15:34		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/25/23 15:34		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**906**	mg/L	5.0	1		10/19/23 18:27		
Alkalinity,Bicarbonate (CaCO3)	**906**	mg/L	5.0	1		10/19/23 18:27		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/19/23 18:27		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**1860**	mg/L	200	1		10/17/23 17:45		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**0.049**	mg/L	0.020	1		10/13/23 13:03	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**2.0J**	mg/L	5.0	1		10/30/23 12:45	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	**74.6**	mg/L	5.0	50	10/18/23 04:00	10/18/23 13:46	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-06C **Lab ID: 70273550022** Collected: 10/12/23 10:45 Received: 10/12/23 15:15 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)	**<0.050**	mg/L	0.050	1		10/20/23 09:54	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		10/12/23 22:47	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**33.6**	ug/L	10.0	1	10/31/23 13:00	10/31/23 16:55		
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	10/24/23 14:20	10/25/23 09:21	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**245**	mg/L	20.0	10		10/22/23 14:22	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**93.5**	mg/L	5.0	50		10/22/23 12:25	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-06E **Lab ID: 70273550023** Collected: 10/12/23 12:45 Received: 10/12/23 15:15 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	**32.4J**	ug/L	200	1	10/18/23 08:19	10/19/23 11:18	7429-90-5	
Barium	**121J**	ug/L	200	1	10/18/23 08:19	10/19/23 11:18	7440-39-3	
Calcium	**20300**	ug/L	200	1	10/18/23 08:19	10/19/23 11:18	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/18/23 08:19	10/19/23 11:18	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/18/23 08:19	10/19/23 11:18	7440-50-8	
Iron	**17700**	ug/L	100	1	10/18/23 08:19	10/19/23 11:18	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/18/23 08:19	10/19/23 11:18	7439-92-1	
Magnesium	**15300**	ug/L	200	1	10/18/23 08:19	10/19/23 11:18	7439-95-4	
Manganese	**207**	ug/L	10.0	1	10/18/23 08:19	10/19/23 11:18	7439-96-5	
Nickel	**7.6J**	ug/L	40.0	1	10/18/23 08:19	10/19/23 11:18	7440-02-0	
Potassium	**29800**	ug/L	5000	1	10/18/23 08:19	10/19/23 11:18	7440-09-7	
Sodium	**152000**	ug/L	5000	1	10/18/23 08:19	10/19/23 11:18	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**114000**	ug/L	830	1	10/18/23 08:19	10/19/23 11:18		
Zinc	**<20.0**	ug/L	20.0	1	10/18/23 08:19	10/19/23 11:18	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**114000**	ug/L	830	1		10/19/23 11:18		
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	10/18/23 06:00	10/18/23 15:46	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/17/23 20:50	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/17/23 20:50	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/17/23 20:50	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 20:50	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 20:50	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/17/23 20:50	56-23-5	
Chlorobenzene	**1.4**	ug/L	1.0	1		10/17/23 20:50	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/17/23 20:50	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/17/23 20:50	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/17/23 20:50	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 20:50	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 20:50	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 20:50	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/17/23 20:50	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 20:50	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 20:50	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 20:50	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 20:50	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 20:50	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/17/23 20:50	78-87-5	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-06E **Lab ID: 70273550023** Collected: 10/12/23 12:45 Received: 10/12/23 15:15 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		10/17/23 20:50	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/17/23 20:50	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/17/23 20:50	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/17/23 20:50	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/17/23 20:50	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 20:50	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 20:50	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/17/23 20:50	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/17/23 20:50	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/17/23 20:50	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/17/23 20:50	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		10/17/23 20:50	17060-07-0	
4-Bromofluorobenzene (S)	101	%	73-122	1		10/17/23 20:50	460-00-4	
Toluene-d8 (S)	101	%	75-122	1		10/17/23 20:50	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**142**	mg/L	1.0	1		10/25/23 15:43		
Alkalinity,Bicarbonate (CaCO3)	**142**	mg/L	1.0	1		10/25/23 15:43		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/25/23 15:43		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**143**	mg/L	5.0	1		10/19/23 18:31		
Alkalinity,Bicarbonate (CaCO3)	**143**	mg/L	5.0	1		10/19/23 18:31		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/19/23 18:31		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**550**	mg/L	20.0	1		10/18/23 17:18		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**0.058**	mg/L	0.020	1		10/13/23 13:07	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**59.3**	mg/L	25.0	5		10/27/23 17:48	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	**17.5**	mg/L	1.0	10	10/18/23 04:00	10/18/23 13:47	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-06E **Lab ID: 70273550023** Collected: 10/12/23 12:45 Received: 10/12/23 15:15 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)	**0.76**	mg/L	0.050	1		10/20/23 09:56	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		10/12/23 22:49	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**9.9J**	ug/L	10.0	1	10/31/23 13:00	10/31/23 16:58		
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	10/24/23 14:20	10/25/23 09:22	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**239**	mg/L	20.0	10		10/22/23 14:23	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**19.9**	mg/L	2.0	20		10/22/23 12:26	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-06F **Lab ID: 70273550024** Collected: 10/12/23 12:00 Received: 10/12/23 15:15 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	**272**	ug/L	200	1	10/18/23 08:19	10/19/23 11:29	7429-90-5	
Barium	**304**	ug/L	200	1	10/18/23 08:19	10/19/23 11:29	7440-39-3	
Calcium	**52400**	ug/L	200	1	10/18/23 08:19	10/19/23 11:29	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/18/23 08:19	10/19/23 11:29	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/18/23 08:19	10/19/23 11:29	7440-50-8	
Iron	**28.9J**	ug/L	100	1	10/18/23 08:19	10/19/23 11:29	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/18/23 08:19	10/19/23 11:29	7439-92-1	
Magnesium	**20500**	ug/L	200	1	10/18/23 08:19	10/19/23 11:29	7439-95-4	
Manganese	**170**	ug/L	10.0	1	10/18/23 08:19	10/19/23 11:29	7439-96-5	
Nickel	**35.6J**	ug/L	40.0	1	10/18/23 08:19	10/19/23 11:29	7440-02-0	
Potassium	**12300**	ug/L	5000	1	10/18/23 08:19	10/19/23 11:29	7440-09-7	
Sodium	**211000**	ug/L	5000	1	10/18/23 08:19	10/19/23 11:29	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**215000**	ug/L	830	1	10/18/23 08:19	10/19/23 11:29		
Zinc	**30.7**	ug/L	20.0	1	10/18/23 08:19	10/19/23 11:29	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**215000**	ug/L	830	1		10/19/23 11:29		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**0.25**	ug/L	0.20	1	10/18/23 06:00	10/18/23 15:48	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/17/23 21:11	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/17/23 21:11	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/17/23 21:11	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 21:11	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 21:11	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/17/23 21:11	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 21:11	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/17/23 21:11	75-00-3	
Chloroform	**1.1**	ug/L	1.0	1		10/17/23 21:11	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/17/23 21:11	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 21:11	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 21:11	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 21:11	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/17/23 21:11	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 21:11	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 21:11	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 21:11	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 21:11	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 21:11	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/17/23 21:11	78-87-5	

REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-06F **Lab ID: 70273550024** Collected: 10/12/23 12:00 Received: 10/12/23 15:15 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		10/17/23 21:11	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/17/23 21:11	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/17/23 21:11	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/17/23 21:11	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/17/23 21:11	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 21:11	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 21:11	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/17/23 21:11	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/17/23 21:11	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/17/23 21:11	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/17/23 21:11	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		10/17/23 21:11	17060-07-0	
4-Bromofluorobenzene (S)	100	%	73-122	1		10/17/23 21:11	460-00-4	
Toluene-d8 (S)	99	%	75-122	1		10/17/23 21:11	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**<1.0**	mg/L	1.0	1		10/25/23 15:46		
Alkalinity,Bicarbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/25/23 15:46		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/25/23 15:46		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**<5.0**	mg/L	5.0	1		10/19/23 18:34		
Alkalinity,Bicarbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/19/23 18:34		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/19/23 18:34		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**830**	mg/L	20.0	1		10/18/23 17:18		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/13/23 13:06	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**0.93J**	mg/L	5.0	1		10/30/23 12:57	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	**<0.10**	mg/L	0.10	1	10/18/23 04:00	10/18/23 13:47	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-06F **Lab ID: 70273550024** Collected: 10/12/23 12:00 Received: 10/12/23 15:15 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)	**3.5**	mg/L	0.25	5		10/20/23 10:19	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		10/12/23 22:50	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**9.2J**	ug/L	10.0	1	10/31/23 13:00	10/31/23 16:59		
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	10/24/23 14:20	10/25/23 09:25	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**453**	mg/L	20.0	10		10/22/23 14:24	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.26**	mg/L	0.10	1		10/22/23 12:01	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: TRIP BLANK_10/12/23 **Lab ID: 70273550025** Collected: 10/12/23 00:00 Received: 10/13/23 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		10/17/23 21:33	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/17/23 21:33	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/17/23 21:33	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 21:33	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 21:33	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/17/23 21:33	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 21:33	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/17/23 21:33	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/17/23 21:33	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/17/23 21:33	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 21:33	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 21:33	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/17/23 21:33	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/17/23 21:33	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 21:33	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 21:33	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 21:33	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 21:33	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 21:33	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/17/23 21:33	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/17/23 21:33	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/17/23 21:33	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/17/23 21:33	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/17/23 21:33	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/17/23 21:33	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/17/23 21:33	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/17/23 21:33	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/17/23 21:33	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/17/23 21:33	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/17/23 21:33	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/17/23 21:33	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		10/17/23 21:33	17060-07-0	
4-Bromofluorobenzene (S)	102	%	73-122	1		10/17/23 21:33	460-00-4	
Toluene-d8 (S)	99	%	75-122	1		10/17/23 21:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: FIELD BLANK_10/12/23 **Lab ID: 70273550026** Collected: 10/12/23 14:50 Received: 10/12/23 15:15 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	10/18/23 08:19	10/19/23 11:32	7429-90-5	
Barium	**<200**	ug/L	200	1	10/18/23 08:19	10/19/23 11:32	7440-39-3	
Calcium	**99.7J**	ug/L	200	1	10/18/23 08:19	10/19/23 11:32	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/18/23 08:19	10/19/23 11:32	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/18/23 08:19	10/19/23 11:32	7440-50-8	
Iron	**<100**	ug/L	100	1	10/18/23 08:19	10/19/23 11:32	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/18/23 08:19	10/19/23 11:32	7439-92-1	
Magnesium	**<200**	ug/L	200	1	10/18/23 08:19	10/19/23 11:32	7439-95-4	
Manganese	**4.6J**	ug/L	10.0	1	10/18/23 08:19	10/19/23 11:32	7439-96-5	
Nickel	**<40.0**	ug/L	40.0	1	10/18/23 08:19	10/19/23 11:32	7440-02-0	
Potassium	**<5000**	ug/L	5000	1	10/18/23 08:19	10/19/23 11:32	7440-09-7	
Sodium	**<5000**	ug/L	5000	1	10/18/23 08:19	10/19/23 11:32	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**<830**	ug/L	830	1	10/18/23 08:19	10/19/23 11:32		
Zinc	**<20.0**	ug/L	20.0	1	10/18/23 08:19	10/19/23 11:32	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		10/19/23 11:32		
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	10/20/23 06:00	10/20/23 12:23	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		10/18/23 19:39	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/18/23 19:39	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/18/23 19:39	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		10/18/23 19:39	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		10/18/23 19:39	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/18/23 19:39	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/18/23 19:39	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/18/23 19:39	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/18/23 19:39	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/18/23 19:39	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/18/23 19:39	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/18/23 19:39	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		10/18/23 19:39	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		10/18/23 19:39	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/18/23 19:39	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/18/23 19:39	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/18/23 19:39	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/18/23 19:39	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		10/18/23 19:39	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/18/23 19:39	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: FIELD BLANK_10/12/23 **Lab ID: 70273550026** Collected: 10/12/23 14:50 Received: 10/12/23 15:15 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		10/18/23 19:39	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		10/18/23 19:39	98-82-8	
Methylene Chloride	**2.3**	ug/L	1.0	1		10/18/23 19:39	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		10/18/23 19:39	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/18/23 19:39	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/18/23 19:39	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/18/23 19:39	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/18/23 19:39	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/18/23 19:39	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		10/18/23 19:39	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		10/18/23 19:39	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	85	%	80-120	1		10/18/23 19:39	17060-07-0	
4-Bromofluorobenzene (S)	96	%	73-122	1		10/18/23 19:39	460-00-4	
Toluene-d8 (S)	106	%	75-122	1		10/18/23 19:39	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**<1.0**	mg/L	1.0	1		10/25/23 15:51		
Alkalinity,Bicarbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/25/23 15:51		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/25/23 15:51		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**<5.0**	mg/L	5.0	1		10/19/23 18:37		
Alkalinity,Bicarbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/19/23 18:37		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		10/19/23 18:37		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**<10.0**	mg/L	10.0	1		10/18/23 17:26		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/13/23 13:09	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		10/27/23 18:14	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	10/18/23 04:00	10/18/23 13:36	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: FIELD BLANK_10/12/23 **Lab ID: 70273550026** Collected: 10/12/23 14:50 Received: 10/12/23 15:15 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)	**<0.050**	mg/L	0.050	1		10/20/23 10:02	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		10/12/23 22:51	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**17.9**	ug/L	10.0	1	10/31/23 13:00	10/31/23 16:59		
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	10/24/23 14:20	10/25/23 09:26	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**<2.0**	mg/L	2.0	1		10/22/23 14:25	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		10/22/23 12:02	7664-41-7	

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-06B DISS **Lab ID: 70273550027** Collected: 10/12/23 13:00 Received: 10/13/23 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	**<200**	ug/L	200	1		10/16/23 12:04	7429-90-5	
Barium, Dissolved	**40.9J**	ug/L	200	1		10/16/23 12:04	7440-39-3	
Calcium, Dissolved	**15800**	ug/L	1000	1		10/16/23 12:04	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/16/23 12:04	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/16/23 12:04	7440-50-8	
Iron, Dissolved	**10100**	ug/L	20.0	1		10/16/23 12:04	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/16/23 12:04	7439-92-1	
Magnesium, Dissolved	**16100**	ug/L	1000	1		10/16/23 12:04	7439-95-4	
Manganese, Dissolved	**26.2**	ug/L	10.0	1		10/16/23 12:04	7439-96-5	
Nickel, Dissolved	**4.6J**	ug/L	40.0	1		10/16/23 12:04	7440-02-0	
Potassium, Dissolved	**47300**	ug/L	5000	1		10/16/23 12:04	7440-09-7	
Sodium, Dissolved	**77000**	ug/L	5000	1		10/16/23 12:04	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/16/23 12:04	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	10/18/23 06:00	10/18/23 15:02	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/13/23 13:09	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-06C DISS **Lab ID: 70273550028** Collected: 10/12/23 10:45 Received: 10/13/23 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	**37.8J**	ug/L	200	1		10/16/23 12:07	7429-90-5	
Barium, Dissolved	**33.8J**	ug/L	200	1		10/16/23 12:07	7440-39-3	
Calcium, Dissolved	**42300**	ug/L	1000	1		10/16/23 12:07	7440-70-2	
Chromium, Dissolved	**1.5J**	ug/L	10.0	1		10/16/23 12:07	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/16/23 12:07	7440-50-8	
Iron, Dissolved	**5920**	ug/L	20.0	1		10/16/23 12:07	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/16/23 12:07	7439-92-1	
Magnesium, Dissolved	**17400**	ug/L	1000	1		10/16/23 12:07	7439-95-4	
Manganese, Dissolved	**103**	ug/L	10.0	1		10/16/23 12:07	7439-96-5	
Nickel, Dissolved	**13.5J**	ug/L	40.0	1		10/16/23 12:07	7440-02-0	
Potassium, Dissolved	**79900**	ug/L	5000	1		10/16/23 12:07	7440-09-7	
Sodium, Dissolved	**243000**	ug/L	5000	1		10/16/23 12:07	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/16/23 12:07	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	10/18/23 06:00	10/18/23 15:04	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/13/23 13:06	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-06E DISS **Lab ID: 70273550029** Collected: 10/12/23 12:45 Received: 10/13/23 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	**<200**	ug/L	200	1		10/16/23 12:09	7429-90-5	
Barium, Dissolved	**108J**	ug/L	200	1		10/16/23 12:09	7440-39-3	
Calcium, Dissolved	**17100**	ug/L	1000	1		10/16/23 12:09	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/16/23 12:09	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/16/23 12:09	7440-50-8	
Iron, Dissolved	**14600**	ug/L	20.0	1		10/16/23 12:09	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/16/23 12:09	7439-92-1	
Magnesium, Dissolved	**13800**	ug/L	1000	1		10/16/23 12:09	7439-95-4	
Manganese, Dissolved	**178**	ug/L	10.0	1		10/16/23 12:09	7439-96-5	
Nickel, Dissolved	**10.2J**	ug/L	40.0	1		10/16/23 12:09	7440-02-0	
Potassium, Dissolved	**27000**	ug/L	5000	1		10/16/23 12:09	7440-09-7	
Sodium, Dissolved	**127000**	ug/L	5000	1		10/16/23 12:09	7440-23-5	
Zinc, Dissolved	**5.7J**	ug/L	20.0	1		10/16/23 12:09	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	10/18/23 06:00	10/18/23 15:05	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/13/23 13:08	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: MW-06F DISS **Lab ID: 70273550030** Collected: 10/12/23 12:00 Received: 10/13/23 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	**219**	ug/L	200	1		10/16/23 12:12	7429-90-5	
Barium, Dissolved	**266**	ug/L	200	1		10/16/23 12:12	7440-39-3	
Calcium, Dissolved	**43500**	ug/L	1000	1		10/16/23 12:12	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/16/23 12:12	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/16/23 12:12	7440-50-8	
Iron, Dissolved	**8.2J**	ug/L	20.0	1		10/16/23 12:12	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/16/23 12:12	7439-92-1	
Magnesium, Dissolved	**18400**	ug/L	1000	1		10/16/23 12:12	7439-95-4	
Manganese, Dissolved	**143**	ug/L	10.0	1		10/16/23 12:12	7439-96-5	
Nickel, Dissolved	**31.9J**	ug/L	40.0	1		10/16/23 12:12	7440-02-0	
Potassium, Dissolved	**11200**	ug/L	5000	1		10/16/23 12:12	7440-09-7	
Sodium, Dissolved	**174000**	ug/L	5000	1		10/16/23 12:12	7440-23-5	
Zinc, Dissolved	**27.9**	ug/L	20.0	1		10/16/23 12:12	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	10/18/23 06:00	10/18/23 15:09	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/13/23 13:07	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Sample: FIELD BLANK_10/12/23 **Lab ID: 70273550031** Collected: 10/12/23 14:50 Received: 10/13/23 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	**<200**	ug/L	200	1		10/16/23 12:15	7429-90-5	
Barium, Dissolved	**<200**	ug/L	200	1		10/16/23 12:15	7440-39-3	
Calcium, Dissolved	**<1000**	ug/L	1000	1		10/16/23 12:15	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/16/23 12:15	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/16/23 12:15	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		10/16/23 12:15	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/16/23 12:15	7439-92-1	
Magnesium, Dissolved	**<1000**	ug/L	1000	1		10/16/23 12:15	7439-95-4	
Manganese, Dissolved	**<10.0**	ug/L	10.0	1		10/16/23 12:15	7439-96-5	
Nickel, Dissolved	**<40.0**	ug/L	40.0	1		10/16/23 12:15	7440-02-0	
Potassium, Dissolved	**<5000**	ug/L	5000	1		10/16/23 12:15	7440-09-7	
Sodium, Dissolved	**<5000**	ug/L	5000	1		10/16/23 12:15	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/16/23 12:15	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	10/18/23 06:00	10/18/23 15:10	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/13/23 13:10	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323653
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550006, 70273550007, 70273550008, 70273550009

METHOD BLANK: 1652363 Matrix: Water
Associated Lab Samples: 70273550006, 70273550007, 70273550008, 70273550009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	10/12/23 12:54	
Barium, Dissolved	ug/L	<200	200	10/12/23 12:54	
Calcium, Dissolved	ug/L	<1000	1000	10/12/23 12:54	
Chromium, Dissolved	ug/L	<10.0	10.0	10/12/23 12:54	
Copper, Dissolved	ug/L	<25.0	25.0	10/12/23 12:54	
Iron, Dissolved	ug/L	<20.0	20.0	10/12/23 12:54	
Lead, Dissolved	ug/L	<5.0	5.0	10/12/23 12:54	
Magnesium, Dissolved	ug/L	<1000	1000	10/12/23 12:54	
Manganese, Dissolved	ug/L	<10.0	10.0	10/12/23 12:54	
Nickel, Dissolved	ug/L	<40.0	40.0	10/12/23 12:54	
Potassium, Dissolved	ug/L	<5000	5000	10/12/23 12:54	
Sodium, Dissolved	ug/L	<5000	5000	10/12/23 12:54	
Zinc, Dissolved	ug/L	<20.0	20.0	10/12/23 12:54	

LABORATORY CONTROL SAMPLE: 1652364

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	25000	24100	96	85-115	
Barium, Dissolved	ug/L	500	502	100	85-115	
Calcium, Dissolved	ug/L	25000	24600	98	85-115	
Chromium, Dissolved	ug/L	500	487	97	85-115	
Copper, Dissolved	ug/L	500	481	96	85-115	
Iron, Dissolved	ug/L	12500	12200	98	85-115	
Lead, Dissolved	ug/L	500	490	98	85-115	
Magnesium, Dissolved	ug/L	25000	23800	95	85-115	
Manganese, Dissolved	ug/L	500	491	98	85-115	
Nickel, Dissolved	ug/L	500	482	96	85-115	
Potassium, Dissolved	ug/L	25000	25800	103	85-115	
Sodium, Dissolved	ug/L	25000	27100	108	85-115	
Zinc, Dissolved	ug/L	500	486	97	85-115	

MATRIX SPIKE SAMPLE: 1652366

Parameter	Units	70273286004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	2500	13200	525	70-130	
Barium, Dissolved	ug/L	<200	500	583	106	70-130	
Calcium, Dissolved	ug/L	20200	2500	32400	488	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

MATRIX SPIKE SAMPLE: 1652366

Parameter	Units	70273286004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	<10.0	500	520	104	70-130	
Copper, Dissolved	ug/L	<25.0	500	519	103	70-130	
Iron, Dissolved	ug/L	<20.0	1250	5130	410	70-130	
Lead, Dissolved	ug/L	<5.0	500	520	104	70-130	
Magnesium, Dissolved	ug/L	3390	2500	15800	496	70-130	
Manganese, Dissolved	ug/L	5330	500	5420	18	70-130	M1
Nickel, Dissolved	ug/L	<40.0	500	497	99	70-130	
Potassium, Dissolved	ug/L	<5000	15000	15700	91	70-130	
Sodium, Dissolved	ug/L	16700	15000	29300	84	70-130	
Zinc, Dissolved	ug/L	<20.0	500	529	104	70-130	

SAMPLE DUPLICATE: 1652365

Parameter	Units	70273286004 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	74.2J		
Barium, Dissolved	ug/L	<200	54.3J		
Calcium, Dissolved	ug/L	20200	20700	2	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	<25.0	6.2J		
Iron, Dissolved	ug/L	<20.0	10.4J		
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	3390	3450	2	
Manganese, Dissolved	ug/L	5330	5440	2	
Nickel, Dissolved	ug/L	<40.0	<40.0		
Potassium, Dissolved	ug/L	<5000	1960J		
Sodium, Dissolved	ug/L	16700	16900	1	
Zinc, Dissolved	ug/L	<20.0	7.3J		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324013
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550016, 70273550017, 70273550018, 70273550019, 70273550020, 70273550027, 70273550028, 70273550029, 70273550030, 70273550031

METHOD BLANK: 1654540 Matrix: Water
Associated Lab Samples: 70273550016, 70273550017, 70273550018, 70273550019, 70273550020, 70273550027, 70273550028, 70273550029, 70273550030, 70273550031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	10/16/23 11:15	
Barium, Dissolved	ug/L	<200	200	10/16/23 11:15	
Calcium, Dissolved	ug/L	<1000	1000	10/16/23 11:15	
Chromium, Dissolved	ug/L	<10.0	10.0	10/16/23 11:15	
Copper, Dissolved	ug/L	<25.0	25.0	10/16/23 11:15	
Iron, Dissolved	ug/L	<20.0	20.0	10/16/23 11:15	
Lead, Dissolved	ug/L	<5.0	5.0	10/16/23 11:15	
Magnesium, Dissolved	ug/L	<1000	1000	10/16/23 11:15	
Manganese, Dissolved	ug/L	<10.0	10.0	10/16/23 11:15	
Nickel, Dissolved	ug/L	<40.0	40.0	10/16/23 11:15	
Potassium, Dissolved	ug/L	<5000	5000	10/16/23 11:15	
Sodium, Dissolved	ug/L	<5000	5000	10/16/23 11:15	
Zinc, Dissolved	ug/L	<20.0	20.0	10/16/23 11:15	

LABORATORY CONTROL SAMPLE: 1654541

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	25000	24100	96	85-115	
Barium, Dissolved	ug/L	500	503	101	85-115	
Calcium, Dissolved	ug/L	25000	23800	95	85-115	
Chromium, Dissolved	ug/L	500	486	97	85-115	
Copper, Dissolved	ug/L	500	479	96	85-115	
Iron, Dissolved	ug/L	12500	12100	97	85-115	
Lead, Dissolved	ug/L	500	486	97	85-115	
Magnesium, Dissolved	ug/L	25000	24800	99	85-115	
Manganese, Dissolved	ug/L	500	498	100	85-115	
Nickel, Dissolved	ug/L	500	490	98	85-115	
Potassium, Dissolved	ug/L	25000	24400	98	85-115	
Sodium, Dissolved	ug/L	25000	24300	97	85-115	
Zinc, Dissolved	ug/L	500	491	98	85-115	

MATRIX SPIKE SAMPLE: 1654543

Parameter	Units	70273550016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	37.8J	2500	13100	522	70-130	
Barium, Dissolved	ug/L	46.4J	500	571	105	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

MATRIX SPIKE SAMPLE: 1654543

Parameter	Units	70273550016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	3110	2500	16100	520	70-130	
Chromium, Dissolved	ug/L	<10.0	500	510	102	70-130	
Copper, Dissolved	ug/L	6.1J	500	503	99	70-130	
Iron, Dissolved	ug/L	<20.0	1250	5050	404	70-130	
Lead, Dissolved	ug/L	<5.0	500	507	101	70-130	
Magnesium, Dissolved	ug/L	3640	2500	16600	518	70-130	
Manganese, Dissolved	ug/L	80.0	500	594	103	70-130	
Nickel, Dissolved	ug/L	9.7J	500	508	100	70-130	
Potassium, Dissolved	ug/L	3750J	15000	16900	88	70-130	
Sodium, Dissolved	ug/L	9890	15000	22600	85	70-130	
Zinc, Dissolved	ug/L	15.0J	500	537	104	70-130	

MATRIX SPIKE SAMPLE: 1654545

Parameter	Units	70273550017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	2500	14200	567	70-130	
Barium, Dissolved	ug/L	69.7J	500	643	115	70-130	
Calcium, Dissolved	ug/L	16300	2500	29600	532	70-130	
Chromium, Dissolved	ug/L	<10.0	500	555	111	70-130	
Copper, Dissolved	ug/L	<25.0	500	551	110	70-130	
Iron, Dissolved	ug/L	<20.0	1250	5500	440	70-130	
Lead, Dissolved	ug/L	<5.0	500	551	110	70-130	
Magnesium, Dissolved	ug/L	4750	2500	18700	558	70-130	
Manganese, Dissolved	ug/L	544	500	1070	105	70-130	
Nickel, Dissolved	ug/L	16.7J	500	560	109	70-130	
Potassium, Dissolved	ug/L	8580	15000	24000	103	70-130	
Sodium, Dissolved	ug/L	104000	15000	113000	60	70-130	
Zinc, Dissolved	ug/L	25.7	500	593	113	70-130	

SAMPLE DUPLICATE: 1654542

Parameter	Units	70273550016 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	37.8J	41.1J		
Barium, Dissolved	ug/L	46.4J	46.2J		
Calcium, Dissolved	ug/L	3110	3110	0	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	6.1J	5.9J		
Iron, Dissolved	ug/L	<20.0	<20.0		
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	3640	3630	0	
Manganese, Dissolved	ug/L	80.0	79.9	0	
Nickel, Dissolved	ug/L	9.7J	9.1J		
Potassium, Dissolved	ug/L	3750J	3740J		
Sodium, Dissolved	ug/L	9890	9840	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

SAMPLE DUPLICATE: 1654542

Parameter	Units	70273550016 Result	Dup Result	RPD	Qualifiers
Zinc, Dissolved	ug/L	15.0J	15.2J		

SAMPLE DUPLICATE: 1654544

Parameter	Units	70273550017 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	69.7J	69.3J		
Calcium, Dissolved	ug/L	16300	16200	1	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	<20.0	<20.0		
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	4750	4730	0	
Manganese, Dissolved	ug/L	544	541	1	
Nickel, Dissolved	ug/L	16.7J	16.0J		
Potassium, Dissolved	ug/L	8580	8530	1	
Sodium, Dissolved	ug/L	104000	104000	0	
Zinc, Dissolved	ug/L	25.7	25.5	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323793
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004, 70273550010, 70273550011, 70273550012, 70273550013, 70273550014

METHOD BLANK: 1653237 Matrix: Water
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004, 70273550010, 70273550011, 70273550012, 70273550013, 70273550014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	10/13/23 13:15	

LABORATORY CONTROL SAMPLE: 1653238

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.0	101	85-115	

MATRIX SPIKE SAMPLE: 1653239

Parameter	Units	70273808006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.0	101	70-130	

MATRIX SPIKE SAMPLE: 1653241

Parameter	Units	70273504001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	0.98	98	70-130	

SAMPLE DUPLICATE: 1653240

Parameter	Units	70273808006 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1653242

Parameter	Units	70273504001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324330
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550021, 70273550022, 70273550023, 70273550024

METHOD BLANK: 1656196 Matrix: Water
Associated Lab Samples: 70273550021, 70273550022, 70273550023, 70273550024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	10/18/23 15:12	

LABORATORY CONTROL SAMPLE: 1656197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.98	98	85-115	

MATRIX SPIKE SAMPLE: 1656198

Parameter	Units	70271635001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	0.79	79	70-130	

MATRIX SPIKE SAMPLE: 1656200

Parameter	Units	70273751001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	0.81	81	70-130	

SAMPLE DUPLICATE: 1656199

Parameter	Units	70271635001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1656201

Parameter	Units	70273751001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324685
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550026

METHOD BLANK: 1658225 Matrix: Water
Associated Lab Samples: 70273550026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	10/20/23 12:20	

LABORATORY CONTROL SAMPLE: 1658226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.0	103	85-115	

MATRIX SPIKE SAMPLE: 1658229

Parameter	Units	70273944001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.0	103	70-130	

MATRIX SPIKE SAMPLE: 1658239

Parameter	Units	70273944002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.0	104	70-130	

SAMPLE DUPLICATE: 1658230

Parameter	Units	70273944001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1658240

Parameter	Units	70273944002 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324329
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550006, 70273550007, 70273550008, 70273550009, 70273550016, 70273550017, 70273550018, 70273550019, 70273550020, 70273550027, 70273550028, 70273550029, 70273550030, 70273550031

METHOD BLANK: 1656190 Matrix: Water
Associated Lab Samples: 70273550006, 70273550007, 70273550008, 70273550009, 70273550016, 70273550017, 70273550018, 70273550019, 70273550020, 70273550027, 70273550028, 70273550029, 70273550030, 70273550031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.20	0.20	10/18/23 14:36	

LABORATORY CONTROL SAMPLE: 1656191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	1	0.99	99	85-115	

MATRIX SPIKE SAMPLE: 1656192

Parameter	Units	70273749001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	<0.20	1	0.98	98	70-130	

MATRIX SPIKE SAMPLE: 1656194

Parameter	Units	70273749002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	<0.20	1	1.0	100	70-130	

SAMPLE DUPLICATE: 1656193

Parameter	Units	70273749001 Result	Dup Result	RPD	Qualifiers
Mercury, Dissolved	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1656195

Parameter	Units	70273749002 Result	Dup Result	RPD	Qualifiers
Mercury, Dissolved	ug/L	<0.20	<0.20		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323992
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004, 70273550010

METHOD BLANK: 1654481 Matrix: Water
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004, 70273550010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	10/16/23 14:57	
Barium	ug/L	<200	200	10/16/23 14:57	
Calcium	ug/L	<200	200	10/16/23 14:57	
Chromium	ug/L	<10.0	10.0	10/16/23 14:57	
Copper	ug/L	<25.0	25.0	10/16/23 14:57	
Iron	ug/L	<100	100	10/16/23 14:57	
Lead	ug/L	<5.0	5.0	10/16/23 14:57	
Magnesium	ug/L	<200	200	10/16/23 14:57	
Manganese	ug/L	<10.0	10.0	10/16/23 14:57	
Nickel	ug/L	<40.0	40.0	10/16/23 14:57	
Potassium	ug/L	<5000	5000	10/16/23 14:57	
Sodium	ug/L	<5000	5000	10/16/23 14:57	
Tot Hardness asCaCO3 (SM 2340B	ug/L	<830	830	10/16/23 14:57	
Zinc	ug/L	<20.0	20.0	10/16/23 14:57	

LABORATORY CONTROL SAMPLE: 1654482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	23200	93	85-115	
Barium	ug/L	500	476	95	85-115	
Calcium	ug/L	25000	23100	92	85-115	
Chromium	ug/L	500	465	93	85-115	
Copper	ug/L	500	453	91	85-115	
Iron	ug/L	12500	11600	93	85-115	
Lead	ug/L	500	458	92	85-115	
Magnesium	ug/L	25000	23900	96	85-115	
Manganese	ug/L	500	477	95	85-115	
Nickel	ug/L	500	471	94	85-115	
Potassium	ug/L	25000	23500	94	85-115	
Sodium	ug/L	25000	23900	96	85-115	
Tot Hardness asCaCO3 (SM 2340B	ug/L		156000			
Zinc	ug/L	500	451	90	85-115	

MATRIX SPIKE SAMPLE: 1654484

Parameter	Units	70273691003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	2500	11900	475	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

MATRIX SPIKE SAMPLE: 1654484

Parameter	Units	70273691003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	<200	500	511	95	70-130	
Calcium	ug/L	22500	2500	34400	476	70-130	
Chromium	ug/L	129	500	588	92	70-130	
Copper	ug/L	34.5	500	483	90	70-130	
Iron	ug/L	<100	1250	4630	370	70-130	
Lead	ug/L	<5.0	500	459	91	70-130	
Magnesium	ug/L	3980	2500	15900	477	70-130	
Manganese	ug/L	76.8	500	550	95	70-130	
Nickel	ug/L	<40.0	500	477	90	70-130	
Potassium	ug/L	<5000	15000	15200	82	70-130	
Sodium	ug/L	39500	15000	51600	81	70-130	
Tot Hardness asCaCO3 (SM 2340B	ug/L	72600		151000			
Zinc	ug/L	299	500	738	88	70-130	

MATRIX SPIKE SAMPLE: 1654486

Parameter	Units	70273757001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	1360	2500	13400	482	70-130	
Barium	ug/L	<200	500	494	96	70-130	
Calcium	ug/L	4910	2500	16800	476	70-130	
Chromium	ug/L	<10.0	500	469	93	70-130	
Copper	ug/L	193	500	651	92	70-130	
Iron	ug/L	275	1250	4870	368	70-130	
Lead	ug/L	34.3	500	487	91	70-130	
Magnesium	ug/L	1630	2500	13300	467	70-130	
Manganese	ug/L	43.5	500	511	94	70-130	
Nickel	ug/L	<40.0	500	470	90	70-130	
Potassium	ug/L	10600	15000	24800	95	70-130	
Sodium	ug/L	217000	15000	234000	113	70-130	M1
Tot Hardness asCaCO3 (SM 2340B	ug/L	19000		96700			
Zinc	ug/L	380	500	820	88	70-130	

SAMPLE DUPLICATE: 1654483

Parameter	Units	70273691003 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	<200	35.3J		
Calcium	ug/L	22500	22200	1	
Chromium	ug/L	129	127	2	
Copper	ug/L	34.5	34.6	0	
Iron	ug/L	<100	<100		
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	3980	3930	1	
Manganese	ug/L	76.8	75.8	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

SAMPLE DUPLICATE: 1654483

Parameter	Units	70273691003 Result	Dup Result	RPD	Qualifiers
Nickel	ug/L	<40.0	24.3J		
Potassium	ug/L	<5000	2850J		
Sodium	ug/L	39500	39100	1	
Tot Hardness asCaCO3 (SM 2340B	ug/L	72600	71600	1	
Zinc	ug/L	299	296	1	

SAMPLE DUPLICATE: 1654485

Parameter	Units	70273757001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	1360	1370	1	
Barium	ug/L	<200	14.8J		
Calcium	ug/L	4910	4980	1	
Chromium	ug/L	<10.0	4.9J		
Copper	ug/L	193	197	2	
Iron	ug/L	275	282	3	
Lead	ug/L	34.3	35.7	4	
Magnesium	ug/L	1630	1650	1	
Manganese	ug/L	43.5	44.2	2	
Nickel	ug/L	<40.0	21.3J		
Potassium	ug/L	10600	10800	2	
Sodium	ug/L	217000	220000	1	
Tot Hardness asCaCO3 (SM 2340B	ug/L	19000	19200	1	
Zinc	ug/L	380	382	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324157
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550011, 70273550012, 70273550013

METHOD BLANK: 1655221 Matrix: Water
Associated Lab Samples: 70273550011, 70273550012, 70273550013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	10/17/23 14:24	
Barium	ug/L	<200	200	10/17/23 14:24	
Calcium	ug/L	<200	200	10/17/23 14:24	
Chromium	ug/L	<10.0	10.0	10/17/23 14:24	
Copper	ug/L	<25.0	25.0	10/17/23 14:24	
Iron	ug/L	<100	100	10/17/23 14:24	
Lead	ug/L	<5.0	5.0	10/17/23 14:24	
Magnesium	ug/L	<200	200	10/17/23 14:24	
Manganese	ug/L	<10.0	10.0	10/17/23 14:24	
Nickel	ug/L	<40.0	40.0	10/17/23 14:24	
Potassium	ug/L	<5000	5000	10/17/23 14:24	
Sodium	ug/L	<5000	5000	10/17/23 14:24	
Tot Hardness asCaCO3 (SM 2340B	ug/L	<830	830	10/17/23 14:24	
Zinc	ug/L	<20.0	20.0	10/17/23 14:24	

LABORATORY CONTROL SAMPLE: 1655222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	23900	96	85-115	
Barium	ug/L	500	495	99	85-115	
Calcium	ug/L	25000	25000	100	85-115	
Chromium	ug/L	500	484	97	85-115	
Copper	ug/L	500	482	96	85-115	
Iron	ug/L	12500	12400	99	85-115	
Lead	ug/L	500	495	99	85-115	
Magnesium	ug/L	25000	23400	94	85-115	
Manganese	ug/L	500	487	97	85-115	
Nickel	ug/L	500	490	98	85-115	
Potassium	ug/L	25000	24500	98	85-115	
Sodium	ug/L	25000	22800	91	85-115	
Tot Hardness asCaCO3 (SM 2340B	ug/L		159000			
Zinc	ug/L	500	490	98	85-115	

MATRIX SPIKE SAMPLE: 1655224

Parameter	Units	70273935003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	2500	13200	527	70-130	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

MATRIX SPIKE SAMPLE: 1655224

Parameter	Units	70273935003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	<200	500	526	105	70-130	
Calcium	ug/L	359000	2500	373000	560	70-130	M1
Chromium	ug/L	<10.0	500	472	94	70-130	
Copper	ug/L	788	500	1230	88	70-130	
Iron	ug/L	<100	1250	4810	384	70-130	M1
Lead	ug/L	<5.0	500	452	90	70-130	
Magnesium	ug/L	5660	2500	15900	410	70-130	M1
Manganese	ug/L	<10.0	500	484	95	70-130	
Nickel	ug/L	185	500	635	90	70-130	
Potassium	ug/L	65400	15000	88000	151	70-130	M1
Sodium	ug/L	<5000	15000	2720000	18100	70-130	E,M1
Tot Hardness asCaCO3 (SM 2340B	ug/L	920000		997000			
Zinc	ug/L	<20.0	500	472	94	70-130	

MATRIX SPIKE SAMPLE: 1655226

Parameter	Units	70273925001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<4000	2500	14200	514	70-130	
Barium	ug/L	<4000	500	540J	105	70-130	
Calcium	ug/L	336000	2500	356000	800	70-130	M1
Chromium	ug/L	<200	500	506	101	70-130	
Copper	ug/L	<500	500	522	104	70-130	
Iron	ug/L	<2000	1250	5440	435	70-130	
Lead	ug/L	<100	500	506	101	70-130	
Magnesium	ug/L	980000	2500	1020000	1600	70-130	M1
Manganese	ug/L	1950	500	2500	110	70-130	
Nickel	ug/L	<800	500	568J	111	70-130	
Potassium	ug/L	436000	15000	454000	120	70-130	M1
Sodium	ug/L	7000000	15000	7860000	5730	70-130	M1
Tot Hardness asCaCO3 (SM 2340B	ug/L	4870000		5090000			
Zinc	ug/L	<400	500	478	96	70-130	

SAMPLE DUPLICATE: 1655223

Parameter	Units	70273935003 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	<200	<200		
Calcium	ug/L	359000	362000	1	
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	788	793	1	
Iron	ug/L	<100	<100		
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	5660	5690	1	
Manganese	ug/L	<10.0	9.3J		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

SAMPLE DUPLICATE: 1655223

Parameter	Units	70273935003 Result	Dup Result	RPD	Qualifiers
Nickel	ug/L	185	187	1	
Potassium	ug/L	65400	65300	0	
Sodium	ug/L	<5000	<5000		E
Tot Hardness asCaCO3 (SM 2340B	ug/L	920000	927000	1	
Zinc	ug/L	<20.0	<20.0		

SAMPLE DUPLICATE: 1655225

Parameter	Units	70273925001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<4000	1160J		
Barium	ug/L	<4000	<4000		
Calcium	ug/L	336000	360000	7	
Chromium	ug/L	<200	<200		
Copper	ug/L	<500	<500		
Iron	ug/L	<2000	<2000		
Lead	ug/L	<100	<100		
Magnesium	ug/L	980000	1060000	8	
Manganese	ug/L	1950	2100	7	
Nickel	ug/L	<800	<800		
Potassium	ug/L	436000	462000	6	
Sodium	ug/L	7000000	8100000	15	
Tot Hardness asCaCO3 (SM 2340B	ug/L	4870000	5260000	8	
Zinc	ug/L	<400	<400		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324335
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

METHOD BLANK: 1656218 Matrix: Water
Associated Lab Samples: 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	10/19/23 10:21	
Barium	ug/L	<200	200	10/19/23 10:21	
Calcium	ug/L	<200	200	10/19/23 10:21	
Chromium	ug/L	<10.0	10.0	10/19/23 10:21	
Copper	ug/L	<25.0	25.0	10/19/23 10:21	
Iron	ug/L	<100	100	10/19/23 10:21	
Lead	ug/L	<5.0	5.0	10/19/23 10:21	
Magnesium	ug/L	<200	200	10/19/23 10:21	
Manganese	ug/L	<10.0	10.0	10/19/23 10:21	
Nickel	ug/L	<40.0	40.0	10/19/23 10:21	
Potassium	ug/L	<5000	5000	10/19/23 10:21	
Sodium	ug/L	<5000	5000	10/19/23 10:21	
Tot Hardness asCaCO3 (SM 2340B	ug/L	<830	830	10/19/23 10:21	
Zinc	ug/L	<20.0	20.0	10/19/23 10:21	

LABORATORY CONTROL SAMPLE: 1656219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	25400	102	85-115	
Barium	ug/L	500	507	101	85-115	
Calcium	ug/L	25000	25500	102	85-115	
Chromium	ug/L	500	506	101	85-115	
Copper	ug/L	500	507	101	85-115	
Iron	ug/L	12500	13000	104	85-115	
Lead	ug/L	500	523	105	85-115	
Magnesium	ug/L	25000	24800	99	85-115	
Manganese	ug/L	500	513	103	85-115	
Nickel	ug/L	500	517	103	85-115	
Potassium	ug/L	25000	24400	98	85-115	
Sodium	ug/L	25000	25500	102	85-115	
Tot Hardness asCaCO3 (SM 2340B	ug/L		166000			
Zinc	ug/L	500	509	102	85-115	

MATRIX SPIKE SAMPLE: 1656221

Parameter	Units	70273805003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	2500	13900	555	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

MATRIX SPIKE SAMPLE: 1656221

Parameter	Units	70273805003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	<200	500	549	107	70-130	
Calcium	ug/L	58100	2500	69100	440	70-130	
Chromium	ug/L	<10.0	500	546	109	70-130	
Copper	ug/L	<25.0	500	549	110	70-130	
Iron	ug/L	433	1250	6000	445	70-130	
Lead	ug/L	<5.0	500	565	113	70-130	
Magnesium	ug/L	5910	2500	18900	520	70-130	
Manganese	ug/L	309	500	846	107	70-130	
Nickel	ug/L	<40.0	500	538	107	70-130	
Potassium	ug/L	8160	15000	21500	89	70-130	
Sodium	ug/L	30500	15000	43600	87	70-130	
Tot Hardness asCaCO3 (SM 2340B	ug/L	169000		250000			
Zinc	ug/L	<20.0	500	568	110	70-130	

MATRIX SPIKE SAMPLE: 1656223

Parameter	Units	70274356002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	2500	14200	567	70-130	
Barium	ug/L	<200	500	568	109	70-130	
Calcium	ug/L	26400	2500	41500	604	70-130	
Chromium	ug/L	<10.0	500	556	111	70-130	
Copper	ug/L	<0.025 mg/L	500	561	111	70-130	
Iron	ug/L	<100	1250	5770	455	70-130	
Lead	ug/L	<0.0050 mg/L	500	574	115	70-130	
Magnesium	ug/L	9340	2500	23000	546	70-130	
Manganese	ug/L	34.2	500	592	112	70-130	
Nickel	ug/L	<0.040 mg/L	500	562	110	70-130	
Potassium	ug/L	11300	15000	25600	95	70-130	
Sodium	ug/L	56800	15000	72500	105	70-130	
Tot Hardness asCaCO3 (SM 2340B	ug/L	104000		198000			
Zinc	ug/L	0.045 mg/L	500	604	112	70-130	

SAMPLE DUPLICATE: 1656220

Parameter	Units	70273805003 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	<200	13.9J		
Calcium	ug/L	58100	57300	1	
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	433	423	2	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	5910	5810	2	
Manganese	ug/L	309	305	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

SAMPLE DUPLICATE: 1656220

Parameter	Units	70273805003 Result	Dup Result	RPD	Qualifiers
Nickel	ug/L	<40.0	4.4J		
Potassium	ug/L	8160	8030	2	
Sodium	ug/L	30500	30100	1	
Tot Hardness asCaCO3 (SM 2340B	ug/L	169000	167000	1	
Zinc	ug/L	<20.0	19.0J		

SAMPLE DUPLICATE: 1656222

Parameter	Units	70274356002 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	<200	22.0J		
Calcium	ug/L	26400	26600	1	
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	<0.025 mg/L	5.6J		
Iron	ug/L	<100	79.7J		
Lead	ug/L	<0.0050 mg/L	<5.0		
Magnesium	ug/L	9340	9390	1	
Manganese	ug/L	34.2	33.8	1	
Nickel	ug/L	<0.040 mg/L	14.7J		
Potassium	ug/L	11300	11300	0	
Sodium	ug/L	56800	57000	0	
Tot Hardness asCaCO3 (SM 2340B	ug/L	104000	105000	1	
Zinc	ug/L	0.045 mg/L	45.2	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323483
QC Batch Method: EPA 8260C/5030C
Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004, 70273550005

METHOD BLANK: 1651271 Matrix: Water
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004, 70273550005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	10/11/23 11:23	
1,1-Dichloroethane	ug/L	<1.0	1.0	10/11/23 11:23	
1,1-Dichloroethene	ug/L	<1.0	1.0	10/11/23 11:23	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	10/11/23 11:23	
1,2-Dichloroethane	ug/L	<1.0	1.0	10/11/23 11:23	
1,2-Dichloropropane	ug/L	<1.0	1.0	10/11/23 11:23	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	10/11/23 11:23	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	10/11/23 11:23	
Benzene	ug/L	<1.0	1.0	10/11/23 11:23	
Bromodichloromethane	ug/L	<1.0	1.0	10/11/23 11:23	
Bromoform	ug/L	<1.0	1.0	10/11/23 11:23	
Carbon tetrachloride	ug/L	<1.0	1.0	10/11/23 11:23	
Chlorobenzene	ug/L	<1.0	1.0	10/11/23 11:23	
Chloroethane	ug/L	<1.0	1.0	10/11/23 11:23	
Chloroform	ug/L	<1.0	1.0	10/11/23 11:23	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	10/11/23 11:23	
Dibromochloromethane	ug/L	<1.0	1.0	10/11/23 11:23	
Dichlorodifluoromethane	ug/L	<1.0	1.0	10/11/23 11:23	v3
Ethylbenzene	ug/L	<1.0	1.0	10/11/23 11:23	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	10/11/23 11:23	
m&p-Xylene	ug/L	<2.0	2.0	10/11/23 11:23	
Methylene Chloride	ug/L	<1.0	1.0	10/11/23 11:23	
n-Butylbenzene	ug/L	<1.0	1.0	10/11/23 11:23	
o-Xylene	ug/L	<1.0	1.0	10/11/23 11:23	
tert-Butylbenzene	ug/L	<1.0	1.0	10/11/23 11:23	
Tetrachloroethene	ug/L	<1.0	1.0	10/11/23 11:23	
Toluene	ug/L	<1.0	1.0	10/11/23 11:23	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	10/11/23 11:23	
Trichloroethene	ug/L	<1.0	1.0	10/11/23 11:23	
Vinyl chloride	ug/L	<1.0	1.0	10/11/23 11:23	
Xylene (Total)	ug/L	<3.0	3.0	10/11/23 11:23	
1,2-Dichloroethane-d4 (S)	%	104	80-120	10/11/23 11:23	
4-Bromofluorobenzene (S)	%	96	73-122	10/11/23 11:23	
Toluene-d8 (S)	%	99	75-122	10/11/23 11:23	

LABORATORY CONTROL SAMPLE: 1651272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	44.8	90	66-121	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

LABORATORY CONTROL SAMPLE: 1651272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	50	50.0	100	61-127	
1,1-Dichloroethene	ug/L	50	47.1	94	51-133	
1,2-Dichlorobenzene	ug/L	50	43.0	86	78-116	
1,2-Dichloroethane	ug/L	50	47.9	96	70-127	
1,2-Dichloropropane	ug/L	50	48.5	97	73-121	
1,3-Dichlorobenzene	ug/L	50	41.3	83	76-116	
1,4-Dichlorobenzene	ug/L	50	42.1	84	77-115	
Benzene	ug/L	50	47.5	95	72-122	
Bromodichloromethane	ug/L	50	45.4	91	79-118	
Bromoform	ug/L	50	45.5	91	61-139	
Carbon tetrachloride	ug/L	50	43.4	87	57-124	
Chlorobenzene	ug/L	50	44.0	88	72-125	
Chloroethane	ug/L	50	47.2	94	51-136	
Chloroform	ug/L	50	49.9	100	69-124	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	65-126	
Dibromochloromethane	ug/L	50	44.8	90	72-134	
Dichlorodifluoromethane	ug/L	50	26.5	53	13-154	v3
Ethylbenzene	ug/L	50	45.2	90	72-120	
Isopropylbenzene (Cumene)	ug/L	50	42.7	85	68-122	
m&p-Xylene	ug/L	100	87.9	88	69-121	
Methylene Chloride	ug/L	50	47.1	94	59-127	
n-Butylbenzene	ug/L	50	43.0	86	65-124	
o-Xylene	ug/L	50	44.2	88	70-121	
tert-Butylbenzene	ug/L	50	40.9	82	69-118	
Tetrachloroethene	ug/L	50	43.0	86	60-134	
Toluene	ug/L	50	48.0	96	75-120	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	54-132	
Trichloroethene	ug/L	50	47.8	96	74-118	
Vinyl chloride	ug/L	50	45.1	90	39-127	
Xylene (Total)	ug/L	150	132	88	70-121	
1,2-Dichloroethane-d4 (S)	%			105	80-120	
4-Bromofluorobenzene (S)	%			97	73-122	
Toluene-d8 (S)	%			99	75-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1651778 1651779

Parameter	Units	70273538001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	39.3	38.2	79	76	68-134	3	
1,1-Dichloroethane	ug/L	<1.0	50	50	44.0	41.9	88	84	54-145	5	
1,1-Dichloroethene	ug/L	<1.0	50	50	43.9	41.6	88	83	53-147	5	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	36.5	35.7	73	71	75-120	2	M1
1,2-Dichloroethane	ug/L	<1.0	50	50	40.3	39.5	81	79	58-141	2	
1,2-Dichloropropane	ug/L	<1.0	50	50	40.6	39.0	81	78	64-136	4	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	36.0	34.7	72	69	67-129	4	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1651778 1651779

Parameter	Units	70273538001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dichlorobenzene	ug/L	<1.0	50	50	36.8	35.1	74	70	75-119	5	M1
Benzene	ug/L	<1.0	50	50	41.2	39.5	82	79	67-139	4	
Bromodichloromethane	ug/L	<1.0	50	50	37.1	36.5	74	73	70-127	2	
Bromoform	ug/L	<1.0	50	50	34.6	35.4	69	71	47-138	2	
Carbon tetrachloride	ug/L	<1.0	50	50	38.2	36.9	76	74	61-136	4	
Chlorobenzene	ug/L	<1.0	50	50	37.2	35.9	74	72	73-130	4	M1
Chloroethane	ug/L	<1.0	50	50	44.6	41.1	89	82	48-152	8	
Chloroform	ug/L	<1.0	50	50	42.7	41.6	85	83	58-143	3	
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	43.3	42.1	87	84	58-142	3	
Dibromochloromethane	ug/L	<1.0	50	50	35.8	34.6	72	69	65-133	3	
Dichlorodifluoromethane	ug/L	<1.0	50	50	22.9	21.8	46	44	15-152	5	v3
Ethylbenzene	ug/L	<1.0	50	50	38.6	37.5	77	75	63-139	3	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	37.8	36.4	76	73	67-137	4	
m&p-Xylene	ug/L	<2.0	100	100	75.6	73.3	76	73	60-138	3	
Methylene Chloride	ug/L	<1.0	50	50	41.8	39.3	84	79	47-142	6	
n-Butylbenzene	ug/L	<1.0	50	50	39.2	37.3	78	75	46-148	5	
o-Xylene	ug/L	<1.0	50	50	37.4	36.9	75	74	64-135	1	
tert-Butylbenzene	ug/L	<1.0	50	50	36.4	35.2	73	70	64-134	3	
Tetrachloroethene	ug/L	<1.0	50	50	37.3	35.7	75	71	64-144	4	
Toluene	ug/L	<1.0	50	50	41.4	40.1	83	80	72-136	3	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	44.6	42.3	89	85	47-151	5	
Trichloroethene	ug/L	<1.0	50	50	42.1	40.9	84	82	76-130	3	
Vinyl chloride	ug/L	<1.0	50	50	41.1	39.5	82	79	43-135	4	
Xylene (Total)	ug/L	<3.0	150	150	113	110	75	73	63-136	3	
1,2-Dichloroethane-d4 (S)	%						106	105	80-120		
4-Bromofluorobenzene (S)	%						97	96	73-122		
Toluene-d8 (S)	%						98	98	75-122		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324230
QC Batch Method: EPA 8260C/5030C
Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550010, 70273550011, 70273550012, 70273550013, 70273550014, 70273550015, 70273550021, 70273550022, 70273550023, 70273550024, 70273550025

METHOD BLANK: 1655512
Matrix: Water
Associated Lab Samples: 70273550010, 70273550011, 70273550012, 70273550013, 70273550014, 70273550015, 70273550021, 70273550022, 70273550023, 70273550024, 70273550025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	10/17/23 13:11	
1,1-Dichloroethane	ug/L	<1.0	1.0	10/17/23 13:11	
1,1-Dichloroethene	ug/L	<1.0	1.0	10/17/23 13:11	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	10/17/23 13:11	
1,2-Dichloroethane	ug/L	<1.0	1.0	10/17/23 13:11	
1,2-Dichloropropane	ug/L	<1.0	1.0	10/17/23 13:11	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	10/17/23 13:11	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	10/17/23 13:11	
Benzene	ug/L	<1.0	1.0	10/17/23 13:11	
Bromodichloromethane	ug/L	<1.0	1.0	10/17/23 13:11	
Bromoform	ug/L	<1.0	1.0	10/17/23 13:11	
Carbon tetrachloride	ug/L	<1.0	1.0	10/17/23 13:11	
Chlorobenzene	ug/L	<1.0	1.0	10/17/23 13:11	
Chloroethane	ug/L	<1.0	1.0	10/17/23 13:11	
Chloroform	ug/L	<1.0	1.0	10/17/23 13:11	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	10/17/23 13:11	
Dibromochloromethane	ug/L	<1.0	1.0	10/17/23 13:11	
Dichlorodifluoromethane	ug/L	<1.0	1.0	10/17/23 13:11	
Ethylbenzene	ug/L	<1.0	1.0	10/17/23 13:11	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	10/17/23 13:11	
m&p-Xylene	ug/L	<2.0	2.0	10/17/23 13:11	
Methylene Chloride	ug/L	<1.0	1.0	10/17/23 13:11	
n-Butylbenzene	ug/L	<1.0	1.0	10/17/23 13:11	
o-Xylene	ug/L	<1.0	1.0	10/17/23 13:11	
tert-Butylbenzene	ug/L	<1.0	1.0	10/17/23 13:11	
Tetrachloroethene	ug/L	<1.0	1.0	10/17/23 13:11	
Toluene	ug/L	<1.0	1.0	10/17/23 13:11	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	10/17/23 13:11	
Trichloroethene	ug/L	<1.0	1.0	10/17/23 13:11	
Vinyl chloride	ug/L	<1.0	1.0	10/17/23 13:11	
Xylene (Total)	ug/L	<3.0	3.0	10/17/23 13:11	
1,2-Dichloroethane-d4 (S)	%	97	80-120	10/17/23 13:11	
4-Bromofluorobenzene (S)	%	100	73-122	10/17/23 13:11	
Toluene-d8 (S)	%	100	75-122	10/17/23 13:11	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

LABORATORY CONTROL SAMPLE: 1655513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.3	91	66-121	
1,1-Dichloroethane	ug/L	50	48.8	98	61-127	
1,1-Dichloroethene	ug/L	50	43.2	86	51-133	
1,2-Dichlorobenzene	ug/L	50	48.4	97	78-116	
1,2-Dichloroethane	ug/L	50	48.8	98	70-127	
1,2-Dichloropropane	ug/L	50	47.2	94	73-121	
1,3-Dichlorobenzene	ug/L	50	47.4	95	76-116	
1,4-Dichlorobenzene	ug/L	50	47.0	94	77-115	
Benzene	ug/L	50	46.6	93	72-122	
Bromodichloromethane	ug/L	50	46.7	93	79-118	
Bromoform	ug/L	50	50.1	100	61-139	
Carbon tetrachloride	ug/L	50	45.3	91	57-124	
Chlorobenzene	ug/L	50	49.4	99	72-125	
Chloroethane	ug/L	50	40.7	81	51-136	
Chloroform	ug/L	50	49.1	98	69-124	
cis-1,2-Dichloroethene	ug/L	50	49.9	100	65-126	
Dibromochloromethane	ug/L	50	48.8	98	72-134	
Dichlorodifluoromethane	ug/L	50	28.6	57	13-154	
Ethylbenzene	ug/L	50	46.7	93	72-120	
Isopropylbenzene (Cumene)	ug/L	50	44.3	89	68-122	
m&p-Xylene	ug/L	100	94.5	94	69-121	
Methylene Chloride	ug/L	50	46.6	93	59-127	
n-Butylbenzene	ug/L	50	45.4	91	65-124	
o-Xylene	ug/L	50	47.3	95	70-121	
tert-Butylbenzene	ug/L	50	44.7	89	69-118	
Tetrachloroethene	ug/L	50	46.7	93	60-134	
Toluene	ug/L	50	46.8	94	75-120	
trans-1,2-Dichloroethene	ug/L	50	48.6	97	54-132	
Trichloroethene	ug/L	50	46.4	93	74-118	
Vinyl chloride	ug/L	50	40.0	80	39-127	
Xylene (Total)	ug/L	150	142	94	70-121	
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			104	73-122	
Toluene-d8 (S)	%			102	75-122	

MATRIX SPIKE SAMPLE: 1655701

Parameter	Units	70273848001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	54.4	109	68-134	
1,1-Dichloroethane	ug/L	3.3	50	60.4	114	54-145	
1,1-Dichloroethene	ug/L	ND	50	53.4	107	53-147	
1,2-Dichlorobenzene	ug/L	ND	50	53.7	107	75-120	
1,2-Dichloroethane	ug/L	ND	50	56.1	112	58-141	
1,2-Dichloropropane	ug/L	ND	50	54.1	108	64-136	
1,3-Dichlorobenzene	ug/L	ND	50	54.2	108	67-129	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

MATRIX SPIKE SAMPLE: 1655701

Parameter	Units	70273848001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	1.5	50	54.9	107	75-119	
Benzene	ug/L	ND	50	54.7	109	67-139	
Bromodichloromethane	ug/L	ND	50	52.0	104	70-127	
Bromoform	ug/L	ND	50	51.6	103	47-138	
Carbon tetrachloride	ug/L	ND	50	53.9	108	61-136	
Chlorobenzene	ug/L	ND	50	55.6	111	73-130	
Chloroethane	ug/L	ND	50	49.7	99	48-152	
Chloroform	ug/L	ND	50	58.1	116	58-143	
cis-1,2-Dichloroethene	ug/L	8.5	50	67.0	117	58-142	
Dibromochloromethane	ug/L	ND	50	52.7	105	65-133	
Dichlorodifluoromethane	ug/L	ND	50	33.6	67	15-152	
Ethylbenzene	ug/L	ND	50	54.8	110	63-139	
Isopropylbenzene (Cumene)	ug/L	ND	50	55.4	111	67-137	
m&p-Xylene	ug/L	ND	100	111	111	60-138	
Methylene Chloride	ug/L	2.3	50	56.8	109	47-142	
n-Butylbenzene	ug/L	ND	50	54.9	110	46-148	
o-Xylene	ug/L	ND	50	54.8	110	64-135	
tert-Butylbenzene	ug/L	ND	50	55.3	111	64-134	
Tetrachloroethene	ug/L	2.3	50	58.6	113	64-144	
Toluene	ug/L	ND	50	55.3	111	72-136	
trans-1,2-Dichloroethene	ug/L	ND	50	59.4	119	47-151	
Trichloroethene	ug/L	3.7	50	59.8	112	76-130	
Vinyl chloride	ug/L	ND	50	48.4	97	43-135	
Xylene (Total)	ug/L	ND	150	166	111	63-136	
1,2-Dichloroethane-d4 (S)	%				96	80-120	
4-Bromofluorobenzene (S)	%				100	73-122	
Toluene-d8 (S)	%				101	75-122	

SAMPLE DUPLICATE: 1655656

Parameter	Units	70273848002 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	<1.0		
1,1-Dichloroethane	ug/L	3.1	2.6	17	
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	ND	<1.0		
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		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

SAMPLE DUPLICATE: 1655656

Parameter	Units	70273848002 Result	Dup Result	RPD	Qualifiers
Chloroform	ug/L	ND	<1.0		
cis-1,2-Dichloroethene	ug/L	6.4	5.3	19	
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	<2.0		
Methylene Chloride	ug/L	2.1	2.0	4	
n-Butylbenzene	ug/L	ND	<1.0		
o-Xylene	ug/L	ND	<1.0		
tert-Butylbenzene	ug/L	ND	<1.0		
Tetrachloroethene	ug/L	ND	<1.0		
Toluene	ug/L	ND	<1.0		
trans-1,2-Dichloroethene	ug/L	ND	<1.0		
Trichloroethene	ug/L	ND	<1.0		
Vinyl chloride	ug/L	ND	<1.0		
Xylene (Total)	ug/L	ND	<3.0		
1,2-Dichloroethane-d4 (S)	%	97	99		
4-Bromofluorobenzene (S)	%	103	102		
Toluene-d8 (S)	%	101	100		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324478
QC Batch Method: EPA 8260C/5030C
Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550026

METHOD BLANK: 1656958 Matrix: Water
Associated Lab Samples: 70273550026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	10/18/23 17:05	
1,1-Dichloroethane	ug/L	<1.0	1.0	10/18/23 17:05	
1,1-Dichloroethene	ug/L	<1.0	1.0	10/18/23 17:05	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	10/18/23 17:05	
1,2-Dichloroethane	ug/L	<1.0	1.0	10/18/23 17:05	
1,2-Dichloropropane	ug/L	<1.0	1.0	10/18/23 17:05	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	10/18/23 17:05	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	10/18/23 17:05	
Benzene	ug/L	<1.0	1.0	10/18/23 17:05	
Bromodichloromethane	ug/L	<1.0	1.0	10/18/23 17:05	
Bromoform	ug/L	<1.0	1.0	10/18/23 17:05	
Carbon tetrachloride	ug/L	<1.0	1.0	10/18/23 17:05	
Chlorobenzene	ug/L	<1.0	1.0	10/18/23 17:05	
Chloroethane	ug/L	<1.0	1.0	10/18/23 17:05	
Chloroform	ug/L	<1.0	1.0	10/18/23 17:05	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	10/18/23 17:05	
Dibromochloromethane	ug/L	<1.0	1.0	10/18/23 17:05	
Dichlorodifluoromethane	ug/L	<1.0	1.0	10/18/23 17:05	v3
Ethylbenzene	ug/L	<1.0	1.0	10/18/23 17:05	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	10/18/23 17:05	
m&p-Xylene	ug/L	<2.0	2.0	10/18/23 17:05	
Methylene Chloride	ug/L	<1.0	1.0	10/18/23 17:05	
n-Butylbenzene	ug/L	<1.0	1.0	10/18/23 17:05	
o-Xylene	ug/L	<1.0	1.0	10/18/23 17:05	
tert-Butylbenzene	ug/L	<1.0	1.0	10/18/23 17:05	
Tetrachloroethene	ug/L	<1.0	1.0	10/18/23 17:05	
Toluene	ug/L	<1.0	1.0	10/18/23 17:05	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	10/18/23 17:05	
Trichloroethene	ug/L	<1.0	1.0	10/18/23 17:05	
Vinyl chloride	ug/L	<1.0	1.0	10/18/23 17:05	
Xylene (Total)	ug/L	<3.0	3.0	10/18/23 17:05	
1,2-Dichloroethane-d4 (S)	%	87	80-120	10/18/23 17:05	
4-Bromofluorobenzene (S)	%	99	73-122	10/18/23 17:05	
Toluene-d8 (S)	%	107	75-122	10/18/23 17:05	

LABORATORY CONTROL SAMPLE: 1656959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.1	94	66-121	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

LABORATORY CONTROL SAMPLE: 1656959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	50	59.8	120	61-127	
1,1-Dichloroethene	ug/L	50	65.3	131	51-133	v1
1,2-Dichlorobenzene	ug/L	50	46.6	93	78-116	
1,2-Dichloroethane	ug/L	50	48.4	97	70-127	
1,2-Dichloropropane	ug/L	50	53.8	108	73-121	
1,3-Dichlorobenzene	ug/L	50	48.8	98	76-116	
1,4-Dichlorobenzene	ug/L	50	48.0	96	77-115	
Benzene	ug/L	50	55.5	111	72-122	
Bromodichloromethane	ug/L	50	43.9	88	79-118	
Bromoform	ug/L	50	41.3	83	61-139	
Carbon tetrachloride	ug/L	50	49.1	98	57-124	
Chlorobenzene	ug/L	50	58.5	117	72-125	
Chloroethane	ug/L	50	54.1	108	51-136	
Chloroform	ug/L	50	54.8	110	69-124	
cis-1,2-Dichloroethene	ug/L	50	61.1	122	65-126	
Dibromochloromethane	ug/L	50	50.2	100	72-134	
Dichlorodifluoromethane	ug/L	50	37.1	74	13-154	v3
Ethylbenzene	ug/L	50	53.1	106	72-120	
Isopropylbenzene (Cumene)	ug/L	50	47.2	94	68-122	
m&p-Xylene	ug/L	100	111	111	69-121	
Methylene Chloride	ug/L	50	59.0	118	59-127	
n-Butylbenzene	ug/L	50	46.5	93	65-124	
o-Xylene	ug/L	50	53.8	108	70-121	
tert-Butylbenzene	ug/L	50	47.6	95	69-118	
Tetrachloroethene	ug/L	50	58.1	116	60-134	
Toluene	ug/L	50	50.5	101	75-120	
trans-1,2-Dichloroethene	ug/L	50	63.5	127	54-132	
Trichloroethene	ug/L	50	54.4	109	74-118	
Vinyl chloride	ug/L	50	47.2	94	39-127	
Xylene (Total)	ug/L	150	165	110	70-121	
1,2-Dichloroethane-d4 (S)	%			84	80-120	
4-Bromofluorobenzene (S)	%			102	73-122	
Toluene-d8 (S)	%			107	75-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1657693 1657694

Parameter	Units	70274286001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	49.6	48.6	99	97	68-134	2	
1,1-Dichloroethane	ug/L	<1.0	50	50	63.6	64.2	127	128	54-145	1	
1,1-Dichloroethene	ug/L	<1.0	50	50	73.5	69.8	147	140	53-147	5	v1
1,2-Dichlorobenzene	ug/L	<1.0	50	50	49.1	47.7	98	95	75-120	3	
1,2-Dichloroethane	ug/L	<1.0	50	50	48.7	48.4	97	97	58-141	1	
1,2-Dichloropropane	ug/L	<1.0	50	50	58.1	57.4	116	115	64-136	1	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	50.7	49.2	101	98	67-129	3	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1657693 1657694

Parameter	Units	70274286001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dichlorobenzene	ug/L	<1.0	50	50	50.5	47.6	101	95	75-119	6	
Benzene	ug/L	<1.0	50	50	58.4	57.9	117	116	67-139	1	
Bromodichloromethane	ug/L	<1.0	50	50	44.9	45.1	90	90	70-127	1	
Bromoform	ug/L	<1.0	50	50	41.7	38.8	83	78	47-138	7	
Carbon tetrachloride	ug/L	<1.0	50	50	51.1	51.5	102	103	61-136	1	
Chlorobenzene	ug/L	<1.0	50	50	63.3	59.1	127	118	73-130	7	
Chloroethane	ug/L	<1.0	50	50	57.9	56.0	116	112	48-152	3	
Chloroform	ug/L	<1.0	50	50	57.5	56.2	115	112	58-143	2	
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	65.1	63.5	130	127	58-142	3	
Dibromochloromethane	ug/L	<1.0	50	50	50.7	47.7	101	95	65-133	6	
Dichlorodifluoromethane	ug/L	<1.0	50	50	36.9	34.2	74	68	15-152	8	v3
Ethylbenzene	ug/L	<1.0	50	50	59.5	55.3	119	111	63-139	7	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	49.4	48.0	99	96	67-137	3	
m&p-Xylene	ug/L	<2.0	100	100	122	115	122	115	60-138	6	
Methylene Chloride	ug/L	<1.0	50	50	62.3	61.2	125	122	47-142	2	
n-Butylbenzene	ug/L	<1.0	50	50	50.0	47.3	100	95	46-148	6	
o-Xylene	ug/L	<1.0	50	50	57.4	54.7	115	109	64-135	5	
tert-Butylbenzene	ug/L	<1.0	50	50	49.6	48.6	99	97	64-134	2	
Tetrachloroethene	ug/L	<1.0	50	50	84.6	79.6	169	159	64-144	6	M1
Toluene	ug/L	<1.0	50	50	58.5	57.2	117	114	72-136	2	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	68.6	65.7	137	131	47-151	4	
Trichloroethene	ug/L	<1.0	50	50	59.3	57.9	119	116	76-130	2	
Vinyl chloride	ug/L	<1.0	50	50	51.0	50.1	102	100	43-135	2	
Xylene (Total)	ug/L	<3.0	150	150	179	170	119	113	63-136	5	
1,2-Dichloroethane-d4 (S)	%						88	87	80-120		
4-Bromofluorobenzene (S)	%						106	104	73-122		
Toluene-d8 (S)	%						107	105	75-122		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324690
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004

METHOD BLANK: 1658241 Matrix: Water
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	0.44J	1.0	10/20/23 11:35	
Alkalinity,Bicarbonate (CaCO3)	mg/L	0.44J	1.0	10/20/23 11:35	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	10/20/23 11:35	

LABORATORY CONTROL SAMPLE: 1658242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	27.0	108	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		4.0			
Alkalinity,Carbonate (CaCO3)	mg/L	25	23.1	92	85-115	

MATRIX SPIKE SAMPLE: 1658244

Parameter	Units	70273653003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	86.2	50	141	110	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	86.2		141			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	<1.0	0	75-125	

SAMPLE DUPLICATE: 1658243

Parameter	Units	70273653003 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	86.2	91.0	5	
Alkalinity,Bicarbonate (CaCO3)	mg/L	86.2	91.0	5	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324874
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550010, 70273550011, 70273550012, 70273550013, 70273550014

METHOD BLANK: 1659480 Matrix: Water
Associated Lab Samples: 70273550010, 70273550011, 70273550012, 70273550013, 70273550014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	10/23/23 09:07	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	10/23/23 09:07	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	10/23/23 09:07	

LABORATORY CONTROL SAMPLE: 1659481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	25.4	102	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		3.1			
Alkalinity,Carbonate (CaCO3)	mg/L	25	22.3	89	85-115	

MATRIX SPIKE SAMPLE: 1659483

Parameter	Units	70273550010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	2.5	50	54.3	104	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	2.5		32.5			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	21.9	44	75-125	

SAMPLE DUPLICATE: 1659482

Parameter	Units	70273550010 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	2.5	2.7	7	
Alkalinity,Bicarbonate (CaCO3)	mg/L	2.5	2.7	7	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 325244 | Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

METHOD BLANK: 1661329 Matrix: Water
Associated Lab Samples: 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	10/25/23 14:29	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	10/25/23 14:29	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	10/25/23 14:29	

LABORATORY CONTROL SAMPLE: 1661330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	24.8	99	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		2.1			
Alkalinity,Carbonate (CaCO3)	mg/L	25	22.7	91	85-115	

MATRIX SPIKE SAMPLE: 1661332

Parameter	Units	70274201007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	275	50	310	71	75-125	M1
Alkalinity,Bicarbonate (CaCO3)	mg/L	275		310			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	<1.0	0	75-125	

SAMPLE DUPLICATE: 1661331

Parameter	Units	70274201007 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	275	276	0	
Alkalinity,Bicarbonate (CaCO3)	mg/L	275	276	0	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323903
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity, High Level
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004, 70273550010

METHOD BLANK: 1653743 Matrix: Water
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004, 70273550010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.5	10/16/23 09:23	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.5	10/16/23 09:23	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.5	10/16/23 09:23	

LABORATORY CONTROL SAMPLE: 1653744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	125	113	90	80-120	
Alkalinity,Bicarbonate (CaCO3)	mg/L		<5.0			
Alkalinity,Carbonate (CaCO3)	mg/L	125	108	87	80-120	

MATRIX SPIKE SAMPLE: 1653746

Parameter	Units	70273871004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	2900	625	3470	90	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	2900		3470			
Alkalinity,Carbonate (CaCO3)	mg/L	<0.95	625	<5.0	0	75-125	

SAMPLE DUPLICATE: 1653745

Parameter	Units	70273871004 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	2900	3040	5	
Alkalinity,Bicarbonate (CaCO3)	mg/L	2900	3040	5	
Alkalinity,Carbonate (CaCO3)	mg/L	<0.95	<5.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324614
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity, High Level
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550011, 70273550012, 70273550013, 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

METHOD BLANK: 1657699 Matrix: Water
Associated Lab Samples: 70273550011, 70273550012, 70273550013, 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.5	10/19/23 15:49	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.5	10/19/23 15:49	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.5	10/19/23 15:49	

LABORATORY CONTROL SAMPLE: 1657700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	125	112	89	80-120	
Alkalinity,Bicarbonate (CaCO3)	mg/L		<5.0			
Alkalinity,Carbonate (CaCO3)	mg/L	125	109	87	80-120	

MATRIX SPIKE SAMPLE: 1657702

Parameter	Units	70274545005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	3510	625	4100	94	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	3510		4100			
Alkalinity,Carbonate (CaCO3)	mg/L	<0.95	625	<5.0	0	75-125	

SAMPLE DUPLICATE: 1657701

Parameter	Units	70274545005 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	3510	3500	0	
Alkalinity,Bicarbonate (CaCO3)	mg/L	3510	3500	0	
Alkalinity,Carbonate (CaCO3)	mg/L	<0.95	<5.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323551 | Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004

METHOD BLANK: 1651625 Matrix: Water
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/11/23 16:12	

LABORATORY CONTROL SAMPLE: 1651626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	492	98	85-115	

MATRIX SPIKE SAMPLE: 1651628

Parameter	Units	70273538003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	181	300	502	107	75-125	

SAMPLE DUPLICATE: 1651627

Parameter	Units	70273538003 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	181	184	2	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324079
QC Batch Method: SM22 2540C
Analysis Method: SM22 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550010, 70273550011, 70273550012

METHOD BLANK: 1654811 Matrix: Water
Associated Lab Samples: 70273550010, 70273550011, 70273550012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/16/23 16:20	

LABORATORY CONTROL SAMPLE: 1654812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	484	97	85-115	

MATRIX SPIKE SAMPLE: 1654814

Parameter	Units	70273431001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	183	300	509	109	75-125	

MATRIX SPIKE SAMPLE: 1654816

Parameter	Units	70273707001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	398	300	716	106	75-125	

SAMPLE DUPLICATE: 1654813

Parameter	Units	70273431001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	183	196	7	D6

SAMPLE DUPLICATE: 1654815

Parameter	Units	70273707001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	398	397	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324248
QC Batch Method: SM22 2540C
Analysis Method: SM22 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550013, 70273550014, 70273550021, 70273550022

METHOD BLANK: 1655593 Matrix: Water
Associated Lab Samples: 70273550013, 70273550014, 70273550021, 70273550022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/17/23 17:08	

LABORATORY CONTROL SAMPLE: 1655594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	544	109	85-115	

MATRIX SPIKE SAMPLE: 1655596

Parameter	Units	70273936001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	280	300	568	96	75-125	

MATRIX SPIKE SAMPLE: 1655598

Parameter	Units	70273913001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	140	300	433	98	75-125	

SAMPLE DUPLICATE: 1655595

Parameter	Units	70273936001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	280	276	1	

SAMPLE DUPLICATE: 1655597

Parameter	Units	70273913001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	140	143	2	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324431
QC Batch Method: SM22 2540C
Analysis Method: SM22 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550023, 70273550024, 70273550026

METHOD BLANK: 1656698 Matrix: Water
Associated Lab Samples: 70273550023, 70273550024, 70273550026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/18/23 17:17	

LABORATORY CONTROL SAMPLE: 1656699

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	490	98	85-115	

MATRIX SPIKE SAMPLE: 1656701

Parameter	Units	70273550024 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	830	600	1410	97	75-125	

MATRIX SPIKE SAMPLE: 1656703

Parameter	Units	70274201007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	308	300	615	102	75-125	

SAMPLE DUPLICATE: 1656700

Parameter	Units	70273550024 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	830	794	4	

SAMPLE DUPLICATE: 1656702

Parameter	Units	70274201007 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	308	292	5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323481
QC Batch Method: SM22 3500-Cr B
Analysis Method: SM22 3500-Cr B
Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004, 70273550006, 70273550007, 70273550008, 70273550009

METHOD BLANK: 1651263 Matrix: Water
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004, 70273550006, 70273550007, 70273550008, 70273550009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	10/11/23 12:26	

LABORATORY CONTROL SAMPLE: 1651264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.19	97	85-115	

MATRIX SPIKE SAMPLE: 1651289

Parameter	Units	70273550001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.19	96	75-125	H1

SAMPLE DUPLICATE: 1651290

Parameter	Units	70273550001 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		H1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323600
QC Batch Method: SM22 3500-Cr B
Analysis Method: SM22 3500-Cr B
Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550010, 70273550011, 70273550012, 70273550013, 70273550014, 70273550016, 70273550017, 70273550018, 70273550019, 70273550020

METHOD BLANK: 1652149 Matrix: Water
Associated Lab Samples: 70273550010, 70273550011, 70273550012, 70273550013, 70273550014, 70273550016, 70273550017, 70273550018, 70273550019, 70273550020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	10/11/23 23:32	

LABORATORY CONTROL SAMPLE: 1652150

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.20	98	85-115	

MATRIX SPIKE SAMPLE: 1652151

Parameter	Units	70273550014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.19	94	75-125	

SAMPLE DUPLICATE: 1652152

Parameter	Units	70273550014 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323867
QC Batch Method: SM22 3500-Cr B
Analysis Method: SM22 3500-Cr B
Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550021, 70273550022, 70273550023, 70273550024, 70273550026, 70273550027, 70273550028, 70273550029, 70273550030, 70273550031

METHOD BLANK: 1653613 Matrix: Water
Associated Lab Samples: 70273550021, 70273550022, 70273550023, 70273550024, 70273550026, 70273550027, 70273550028, 70273550029, 70273550030, 70273550031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	10/13/23 12:46	

LABORATORY CONTROL SAMPLE: 1653614

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: 1653615

Parameter	Units	70273961005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.19	91	75-125	H3

SAMPLE DUPLICATE: 1653616

Parameter	Units	70273961005 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		H3

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 325057 | 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: 70273550001, 70273550002, 70273550003, 70273550004

METHOD BLANK: 1660300 Matrix: Water
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<5.0	5.0	10/25/23 15:43	

LABORATORY CONTROL SAMPLE: 1660301

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

MATRIX SPIKE SAMPLE: 1660302

Parameter	Units	70274945002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	25.7	10	35.7	101	90-110	

MATRIX SPIKE SAMPLE: 1660304

Parameter	Units	70273990001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	69.3	10	78.6	93	90-110	

SAMPLE DUPLICATE: 1660303

Parameter	Units	70274945002 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	25.7	25.7	0	

SAMPLE DUPLICATE: 1660305

Parameter	Units	70273990001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	69.3	69.1	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 325236
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550010, 70273550011, 70273550012, 70273550013

METHOD BLANK: 1661274 Matrix: Water
Associated Lab Samples: 70273550010, 70273550011, 70273550012, 70273550013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<5.0	5.0	10/26/23 12:56	

LABORATORY CONTROL SAMPLE: 1661275

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

MATRIX SPIKE SAMPLE: 1661276

Parameter	Units	70273845001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	15.6	10	24.9	94	90-110	

MATRIX SPIKE SAMPLE: 1661278

Parameter	Units	70274229001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	22.6	10	32.4	98	90-110	

SAMPLE DUPLICATE: 1661277

Parameter	Units	70273845001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	15.6	15.5	0	

SAMPLE DUPLICATE: 1661279

Parameter	Units	70274229001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	22.6	22.4	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 325538 | 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: 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

METHOD BLANK: 1663045 Matrix: Water
Associated Lab Samples: 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<5.0	5.0	10/27/23 15:16	

LABORATORY CONTROL SAMPLE: 1663046

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

MATRIX SPIKE SAMPLE: 1663047

Parameter	Units	70273959001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	11.6	10	21.2	96	90-110	

MATRIX SPIKE SAMPLE: 1663049

Parameter	Units	70273944002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	93.4	10	107	137	90-110	M1

SAMPLE DUPLICATE: 1663048

Parameter	Units	70273959001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	11.6	11.6	1	

SAMPLE DUPLICATE: 1663050

Parameter	Units	70273944002 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	93.4	93.3	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323606
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004

METHOD BLANK: 1652172 Matrix: Water
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.094	10/12/23 11:27	

LABORATORY CONTROL SAMPLE: 1652173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	3.9	98	90-110	

MATRIX SPIKE SAMPLE: 1652174

Parameter	Units	70273675002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4.6	4	8.2	91	90-110	

MATRIX SPIKE SAMPLE: 1652176

Parameter	Units	70273513002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.29	4	7.4	178	90-110	M1

SAMPLE DUPLICATE: 1652175

Parameter	Units	70273675002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4.6	4.7	1	

SAMPLE DUPLICATE: 1652177

Parameter	Units	70273513002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.29	0.29	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324320
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550010, 70273550011, 70273550012, 70273550013, 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

METHOD BLANK: 1656164 Matrix: Water
Associated Lab Samples: 70273550010, 70273550011, 70273550012, 70273550013, 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.094	10/18/23 13:12	

LABORATORY CONTROL SAMPLE: 1656165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	3.8	94	90-110	

MATRIX SPIKE SAMPLE: 1656166

Parameter	Units	70273653003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	4	3.3	83	90-110	M1

MATRIX SPIKE SAMPLE: 1656168

Parameter	Units	70274076002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.23	4	3.9	92	90-110	

SAMPLE DUPLICATE: 1656167

Parameter	Units	70273653003 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	<0.10		

SAMPLE DUPLICATE: 1656169

Parameter	Units	70274076002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.23	0.18	22	D6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323402
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrite, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004

METHOD BLANK: 1650913 Matrix: Water
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	10/10/23 22:13	

LABORATORY CONTROL SAMPLE: 1650914

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: 1650915

Parameter	Units	70273463002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.098	0.5	0.50	80	90-110	M1

MATRIX SPIKE SAMPLE: 1652117

Parameter	Units	70273550004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	98	90-110	

SAMPLE DUPLICATE: 1650916

Parameter	Units	70273463002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	0.098	<0.050		

SAMPLE DUPLICATE: 1652118

Parameter	Units	70273550004 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323595
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrite, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550014

METHOD BLANK: 1652121 Matrix: Water
Associated Lab Samples: 70273550014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	10/11/23 21:46	

LABORATORY CONTROL SAMPLE: 1652122

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: 1652123

Parameter	Units	70273635001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	98	90-110	H3

MATRIX SPIKE SAMPLE: 1652125

Parameter	Units	70273653003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.12	0.5	0.63	102	90-110	

SAMPLE DUPLICATE: 1652124

Parameter	Units	70273635001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		H3

SAMPLE DUPLICATE: 1652126

Parameter	Units	70273653003 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	0.12	0.12	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323597
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrite, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550010

METHOD BLANK: 1652128 Matrix: Water
Associated Lab Samples: 70273550010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	10/11/23 22:21	

LABORATORY CONTROL SAMPLE: 1652129

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: 1652130

Parameter	Units	70273681001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.54	101	90-110	

MATRIX SPIKE SAMPLE: 1652132

Parameter	Units	70273701002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.51	101	90-110	

SAMPLE DUPLICATE: 1652131

Parameter	Units	70273681001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	0.039J		

SAMPLE DUPLICATE: 1652133

Parameter	Units	70273701002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323598
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrite, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550011, 70273550012, 70273550013

METHOD BLANK: 1652134 Matrix: Water
Associated Lab Samples: 70273550011, 70273550012, 70273550013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	10/11/23 23:00	

LABORATORY CONTROL SAMPLE: 1652135

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: 1652136

Parameter	Units	70273701004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.51	102	90-110	

MATRIX SPIKE SAMPLE: 1652138

Parameter	Units	70273719001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.51	101	90-110	

SAMPLE DUPLICATE: 1652137

Parameter	Units	70273701004 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1652139

Parameter	Units	70273719001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323777
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrite, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

METHOD BLANK: 1653186 Matrix: Water
Associated Lab Samples: 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	10/12/23 22:36	

LABORATORY CONTROL SAMPLE: 1653187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 1653188

Parameter	Units	70273914001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	100	90-110	

SAMPLE DUPLICATE: 1653189

Parameter	Units	70273914001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324516
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004, 70273550010, 70273550011, 70273550012, 70273550013, 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

METHOD BLANK: 1657268 Matrix: Water
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004, 70273550010, 70273550011, 70273550012, 70273550013, 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	10/20/23 09:33	

LABORATORY CONTROL SAMPLE: 1657269

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: 1657270

Parameter	Units	70273550001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.14	0.5	0.63	98	90-110	

MATRIX SPIKE SAMPLE: 1657272

Parameter	Units	70273961005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.13	0.5	0.63	100	90-110	

SAMPLE DUPLICATE: 1657271

Parameter	Units	70273550001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.14	0.14	2	

SAMPLE DUPLICATE: 1657273

Parameter	Units	70273961005 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.13	0.13	4	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323997
QC Batch Method: EPA 420.1
Analysis Method: EPA 420.1
Analysis Description: 420.1 Phenolics Macro
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004

METHOD BLANK: 1654503 Matrix: Water
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<10.0	10.0	10/16/23 16:47	

LABORATORY CONTROL SAMPLE: 1654504

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	100	103	103	90-110	

MATRIX SPIKE SAMPLE: 1654505

Parameter	Units	70273508001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	146	50	233	174	75-125	M1

SAMPLE DUPLICATE: 1654506

Parameter	Units	70273508001 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	146	140	4	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324881 | Analysis Method: EPA 420.1
QC Batch Method: EPA 420.1 | Analysis Description: 420.1 Phenolics Macro
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550010, 70273550011, 70273550012, 70273550013

METHOD BLANK: 1659510 Matrix: Water
Associated Lab Samples: 70273550010, 70273550011, 70273550012, 70273550013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<10.0	10.0	10/23/23 17:19	

LABORATORY CONTROL SAMPLE: 1659511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	100	104	104	90-110	

MATRIX SPIKE SAMPLE: 1659512

Parameter	Units	70273431001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	36.6	50	125	177	75-125	M1

SAMPLE DUPLICATE: 1659513

Parameter	Units	70273431001 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	36.6	21.2	53	D6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 325805 | Analysis Method: EPA 420.1
QC Batch Method: EPA 420.1 | Analysis Description: 420.1 Phenolics Macro
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

METHOD BLANK: 1664743 Matrix: Water
Associated Lab Samples: 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<10.0	10.0	10/31/23 16:48	

LABORATORY CONTROL SAMPLE: 1664744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	100	106	106	90-110	

MATRIX SPIKE SAMPLE: 1664745

Parameter	Units	70273653003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	<10.0	50	119	222	75-125	M1

SAMPLE DUPLICATE: 1664746

Parameter	Units	70273653003 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	<10.0	4.6J		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324518
QC Batch Method: SM20/22 4500-CN-C
Analysis Method: SM22 4500-CN-E
Analysis Description: 4500 CNE Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004, 70273550010, 70273550011, 70273550012, 70273550013

METHOD BLANK: 1657286 Matrix: Water
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004, 70273550010, 70273550011, 70273550012, 70273550013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	10/19/23 16:30	

LABORATORY CONTROL SAMPLE: 1657287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	75.4	101	85-115	

MATRIX SPIKE SAMPLE: 1657288

Parameter	Units	70273372001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<10.0	100	114	107	75-125	

SAMPLE DUPLICATE: 1657289

Parameter	Units	70273372001 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	<10.0	<10.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 325008
QC Batch Method: SM20/22 4500-CN-C
Analysis Method: SM22 4500-CN-E
Analysis Description: 4500 CNE Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

METHOD BLANK: 1660070 Matrix: Water
Associated Lab Samples: 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	10/25/23 09:03	

LABORATORY CONTROL SAMPLE: 1660071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	82.3	110	85-115	

MATRIX SPIKE SAMPLE: 1660072

Parameter	Units	70274579001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	22.3	100	131	109	75-125	

SAMPLE DUPLICATE: 1660073

Parameter	Units	70274579001 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	22.3	23.2	4	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324844
QC Batch Method: SM22 4500-Cl-E
Analysis Method: SM22 4500-Cl-E
Analysis Description: 4500 Chloride
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004

METHOD BLANK: 1659355 Matrix: Water
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	10/22/23 13:54	

LABORATORY CONTROL SAMPLE: 1659356

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.4	95	90-110	

MATRIX SPIKE SAMPLE: 1659357

Parameter	Units	70273431001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	65.6	125	194	103	80-120	

SAMPLE DUPLICATE: 1659358

Parameter	Units	70273431001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	65.6	65.1	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324845
QC Batch Method: SM22 4500-Cl-E
Analysis Method: SM22 4500-Cl-E
Analysis Description: 4500 Chloride
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550010, 70273550011, 70273550012, 70273550013, 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

METHOD BLANK: 1659359 Matrix: Water
Associated Lab Samples: 70273550010, 70273550011, 70273550012, 70273550013, 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	10/22/23 14:16	

LABORATORY CONTROL SAMPLE: 1659360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.0	96	90-110	

MATRIX SPIKE SAMPLE: 1659361

Parameter	Units	70274969001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	299	250	545	98	80-120	

SAMPLE DUPLICATE: 1659362

Parameter	Units	70274969001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	299	295	1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 323646
QC Batch Method: SM22 4500 NH3 H
Analysis Method: SM22 4500 NH3 H
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004

METHOD BLANK: 1652326 Matrix: Water
Associated Lab Samples: 70273550001, 70273550002, 70273550003, 70273550004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	10/12/23 11:52	

LABORATORY CONTROL SAMPLE: 1652327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.93	93	90-110	

MATRIX SPIKE SAMPLE: 1652328

Parameter	Units	70273681001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	1.0	98	75-125	

SAMPLE DUPLICATE: 1652329

Parameter	Units	70273681001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	0.065J		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324543
QC Batch Method: SM22 4500 NH3 H
Analysis Method: SM22 4500 NH3 H
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550010, 70273550011, 70273550012, 70273550013

METHOD BLANK: 1657386 Matrix: Water
Associated Lab Samples: 70273550010, 70273550011, 70273550012, 70273550013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	10/19/23 13:39	

LABORATORY CONTROL SAMPLE: 1657387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	106	90-110	

MATRIX SPIKE SAMPLE: 1657690

Parameter	Units	70273972001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	1.2	114	75-125	

SAMPLE DUPLICATE: 1657389

Parameter	Units	70273972001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	0.054J		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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516-370-6000

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

QC Batch: 324842
QC Batch Method: SM22 4500 NH3 H
Analysis Method: SM22 4500 NH3 H
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

METHOD BLANK: 1659346 Matrix: Water
Associated Lab Samples: 70273550014, 70273550021, 70273550022, 70273550023, 70273550024, 70273550026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	10/22/23 11:49	

LABORATORY CONTROL SAMPLE: 1659347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 1659348

Parameter	Units	70274201007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.91	1	2.0	109	75-125	

SAMPLE DUPLICATE: 1659349

Parameter	Units	70274201007 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.91	0.91	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALIFIERS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

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: 323653

[1] The serial dilution for sample 70273286004 (SD 1652367) did not meet acceptance criteria for Chromium, Copper, Iron, Potassium, Sodium, Nickel, Lead, and Zinc.

Batch: 324042

[1] The post digestion spike for sample 70273691003 (PDS 1654586) did not meet acceptance criteria for Aluminum, Calcium, Iron, Magnesium, Sodium, and Silver.

[2] The serial dilution for sample 70273691003 (SD 1654587) did not meet acceptance criteria for Silver, Aluminum, Arsenic, Potassium, Molybdenum, Lead and Selenium.

[3] The post digestion spike for sample 70273757001 (PDS 1654588) did not meet acceptance criteria for Aluminum, Calcium, Iron, Magnesium, Sodium and Silver.

[4] The serial dilution for sample 70273757001 (SD 1654589) did not meet acceptance criteria for Arsenic, Barium, Cadmium, Chromium, Iron, Molybdenum, Nickel, Lead, Selenium, and Zinc.

Batch: 324178

[1] The post digestion spike for sample 70273935003 (PDS 1655274) did not meet acceptance criteria for Aluminum, Silver, Calcium, Copper, Iron, Potassium, Sodium and Magnesium.

[2] The serial dilution for sample 70273935003 (SD 1655275) did not meet acceptance criteria for Silver, Aluminum, Arsenic, Barium, Iron, Potassium, Manganese, and Molybdenum.

[3] The post digestion spike for sample 70273925001 (PDS 1655276) did not meet acceptance criteria for Aluminum, Calcium, Iron, Magnesium, Silver, Potassium and Sodium.

[4] The serial dilution for sample 70273925001 (SD 1655277) did not meet acceptance criteria for Silver, Aluminum, Arsenic, Barium, Molybdenum, and Nickel.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALIFIERS

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

BATCH QUALIFIERS

Batch: 324367

[1]	The post digestion spike for sample 70273805003 (PDS 1656363) did not meet acceptance criteria for Aluminum, Boron, Barium, Calcium, Cadmium, Chromium, Copper, Iron, Magnesium, Manganese, Molybdenum, Nickel, Lead, Tin and Zinc.
[2]	The serial dilution for sample 70273805003 (SD 1656364) did not meet acceptance criteria for Aluminum, Molybdenum, Sodium, Nickel, Lead and Zinc.
[3]	The post digestion spike for sample 70274356002 (PDS 1656365) did not meet acceptance criteria for Aluminum, Boron, Barium, Calcium, Cadmium, Chromium,Copper, Iron, Magnesium, Manganese, Molybdenum, Nickel, Lead, Tin and Zinc.
[4]	The serial dilution for sample 70274356002 (SD 1656366) did not meet acceptance criteria for Aluminum, Iron, Molybdenum, Nickel and Zinc.

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
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.
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.

Pace Analytical Services, LLC
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Melville, NY 11747
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70273550001	**OBS-1**	EPA 200.7	323992	EPA 200.7	324042
70273550002	**MW-09C**	EPA 200.7	323992	EPA 200.7	324042
70273550003	**MW-09B**	EPA 200.7	323992	EPA 200.7	324042
70273550004	**MW-05B**	EPA 200.7	323992	EPA 200.7	324042
70273550010	**MW-08A**	EPA 200.7	323992	EPA 200.7	324042
70273550011	**MW-08B**	EPA 200.7	324157	EPA 200.7	324178
70273550012	**LF-2**	EPA 200.7	324157	EPA 200.7	324178
70273550013	**LF-1**	EPA 200.7	324157	EPA 200.7	324178
70273550014	**BLINDDUPLICATE-1**	EPA 200.7	324335	EPA 200.7	324367
70273550021	**MW-06B**	EPA 200.7	324335	EPA 200.7	324367
70273550022	**MW-06C**	EPA 200.7	324335	EPA 200.7	324367
70273550023	**MW-06E**	EPA 200.7	324335	EPA 200.7	324367
70273550024	**MW-06F**	EPA 200.7	324335	EPA 200.7	324367
70273550026	**FIELD BLANK_10/12/23**	EPA 200.7	324335	EPA 200.7	324367
70273550006	**OBS-1 DISS**	EPA 200.7	323653		
70273550007	**MW-09C DISS**	EPA 200.7	323653		
70273550008	**MW-09B DISS**	EPA 200.7	323653		
70273550009	**MW-05B DISS**	EPA 200.7	323653		
70273550016	**MW-08A DISS**	EPA 200.7	324013		
70273550017	**MW-08B DISS**	EPA 200.7	324013		
70273550018	**LF-2 DISS**	EPA 200.7	324013		
70273550019	**LF-1 DISS**	EPA 200.7	324013		
70273550020	**BLIND DUPLICATE-1 DISS**	EPA 200.7	324013		
70273550027	**MW-06B DISS**	EPA 200.7	324013		
70273550028	**MW-06C DISS**	EPA 200.7	324013		
70273550029	**MW-06E DISS**	EPA 200.7	324013		
70273550030	**MW-06F DISS**	EPA 200.7	324013		
70273550031	**FIELD BLANK_10/12/23**	EPA 200.7	324013		
70273550001	**OBS-1**	SM22 2340B	324740		
70273550002	**MW-09C**	SM22 2340B	324740		
70273550003	**MW-09B**	SM22 2340B	324740		
70273550004	**MW-05B**	SM22 2340B	324740		
70273550010	**MW-08A**	SM22 2340B	325440		
70273550011	**MW-08B**	SM22 2340B	325440		
70273550012	**LF-2**	SM22 2340B	325440		
70273550013	**LF-1**	SM22 2340B	325440		
70273550014	**BLINDDUPLICATE-1**	SM22 2340B	325440		
70273550021	**MW-06B**	SM22 2340B	325440		
70273550022	**MW-06C**	SM22 2340B	325440		
70273550023	**MW-06E**	SM22 2340B	325440		
70273550024	**MW-06F**	SM22 2340B	325440		
70273550026	**FIELD BLANK_10/12/23**	SM22 2340B	325440		
70273550001	**OBS-1**	EPA 245.1	323793	EPA 245.1	323848
70273550002	**MW-09C**	EPA 245.1	323793	EPA 245.1	323848
70273550003	**MW-09B**	EPA 245.1	323793	EPA 245.1	323848

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70273550004	**MW-05B**	EPA 245.1	323793	EPA 245.1	323848
70273550010	**MW-08A**	EPA 245.1	323793	EPA 245.1	323848
70273550011	**MW-08B**	EPA 245.1	323793	EPA 245.1	323848
70273550012	**LF-2**	EPA 245.1	323793	EPA 245.1	323848
70273550013	**LF-1**	EPA 245.1	323793	EPA 245.1	323848
70273550014	**BLINDDUPLICATE-1**	EPA 245.1	323793	EPA 245.1	323848
70273550021	**MW-06B**	EPA 245.1	324330	EPA 245.1	324383
70273550022	**MW-06C**	EPA 245.1	324330	EPA 245.1	324383
70273550023	**MW-06E**	EPA 245.1	324330	EPA 245.1	324383
70273550024	**MW-06F**	EPA 245.1	324330	EPA 245.1	324383
70273550026	**FIELD BLANK_10/12/23**	EPA 245.1	324685	EPA 245.1	324711
70273550006	**OBS-1 DISS**	EPA 245.1	324329	EPA 245.1	324384
70273550007	**MW-09C DISS**	EPA 245.1	324329	EPA 245.1	324384
70273550008	**MW-09B DISS**	EPA 245.1	324329	EPA 245.1	324384
70273550009	**MW-05B DISS**	EPA 245.1	324329	EPA 245.1	324384
70273550016	**MW-08A DISS**	EPA 245.1	324329	EPA 245.1	324384
70273550017	**MW-08B DISS**	EPA 245.1	324329	EPA 245.1	324384
70273550018	**LF-2 DISS**	EPA 245.1	324329	EPA 245.1	324384
70273550019	**LF-1 DISS**	EPA 245.1	324329	EPA 245.1	324384
70273550020	**BLIND DUPLICATE-1 DISS**	EPA 245.1	324329	EPA 245.1	324384
70273550027	**MW-06B DISS**	EPA 245.1	324329	EPA 245.1	324384
70273550028	**MW-06C DISS**	EPA 245.1	324329	EPA 245.1	324384
70273550029	**MW-06E DISS**	EPA 245.1	324329	EPA 245.1	324384
70273550030	**MW-06F DISS**	EPA 245.1	324329	EPA 245.1	324384
70273550031	**FIELD BLANK_10/12/23**	EPA 245.1	324329	EPA 245.1	324384
70273550001	**OBS-1**	EPA 8260C/5030C	323483		
70273550002	**MW-09C**	EPA 8260C/5030C	323483		
70273550003	**MW-09B**	EPA 8260C/5030C	323483		
70273550004	**MW-05B**	EPA 8260C/5030C	323483		
70273550005	**TRIP BLANK_10/10/23**	EPA 8260C/5030C	323483		
70273550010	**MW-08A**	EPA 8260C/5030C	324230		
70273550011	**MW-08B**	EPA 8260C/5030C	324230		
70273550012	**LF-2**	EPA 8260C/5030C	324230		
70273550013	**LF-1**	EPA 8260C/5030C	324230		
70273550014	**BLINDDUPLICATE-1**	EPA 8260C/5030C	324230		
70273550015	**TRIPBLANK_10/11/23**	EPA 8260C/5030C	324230		
70273550021	**MW-06B**	EPA 8260C/5030C	324230		
70273550022	**MW-06C**	EPA 8260C/5030C	324230		
70273550023	**MW-06E**	EPA 8260C/5030C	324230		
70273550024	**MW-06F**	EPA 8260C/5030C	324230		
70273550025	**TRIP BLANK_10/12/23**	EPA 8260C/5030C	324230		
70273550026	**FIELD BLANK_10/12/23**	EPA 8260C/5030C	324478		
70273550001	**OBS-1**	SM22 2320B	324690		
70273550002	**MW-09C**	SM22 2320B	324690		
70273550003	**MW-09B**	SM22 2320B	324690		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70273550004	**MW-05B**	SM22 2320B	324690		
70273550010	**MW-08A**	SM22 2320B	324874		
70273550011	**MW-08B**	SM22 2320B	324874		
70273550012	**LF-2**	SM22 2320B	324874		
70273550013	**LF-1**	SM22 2320B	324874		
70273550014	**BLINDDUPLICATE-1**	SM22 2320B	324874		
70273550021	**MW-06B**	SM22 2320B	325244		
70273550022	**MW-06C**	SM22 2320B	325244		
70273550023	**MW-06E**	SM22 2320B	325244		
70273550024	**MW-06F**	SM22 2320B	325244		
70273550026	**FIELD BLANK_10/12/23**	SM22 2320B	325244		
70273550001	**OBS-1**	SM22 2320B	323903		
70273550002	**MW-09C**	SM22 2320B	323903		
70273550003	**MW-09B**	SM22 2320B	323903		
70273550004	**MW-05B**	SM22 2320B	323903		
70273550010	**MW-08A**	SM22 2320B	323903		
70273550011	**MW-08B**	SM22 2320B	324614		
70273550012	**LF-2**	SM22 2320B	324614		
70273550013	**LF-1**	SM22 2320B	324614		
70273550014	**BLINDDUPLICATE-1**	SM22 2320B	324614		
70273550021	**MW-06B**	SM22 2320B	324614		
70273550022	**MW-06C**	SM22 2320B	324614		
70273550023	**MW-06E**	SM22 2320B	324614		
70273550024	**MW-06F**	SM22 2320B	324614		
70273550026	**FIELD BLANK_10/12/23**	SM22 2320B	324614		
70273550001	**OBS-1**	SM22 2540C	323551		
70273550002	**MW-09C**	SM22 2540C	323551		
70273550003	**MW-09B**	SM22 2540C	323551		
70273550004	**MW-05B**	SM22 2540C	323551		
70273550010	**MW-08A**	SM22 2540C	324079		
70273550011	**MW-08B**	SM22 2540C	324079		
70273550012	**LF-2**	SM22 2540C	324079		
70273550013	**LF-1**	SM22 2540C	324248		
70273550014	**BLINDDUPLICATE-1**	SM22 2540C	324248		
70273550021	**MW-06B**	SM22 2540C	324248		
70273550022	**MW-06C**	SM22 2540C	324248		
70273550023	**MW-06E**	SM22 2540C	324431		
70273550024	**MW-06F**	SM22 2540C	324431		
70273550026	**FIELD BLANK_10/12/23**	SM22 2540C	324431		
70273550001	**OBS-1**	SM22 3500-Cr B	323481		
70273550002	**MW-09C**	SM22 3500-Cr B	323481		
70273550003	**MW-09B**	SM22 3500-Cr B	323481		
70273550004	**MW-05B**	SM22 3500-Cr B	323481		
70273550006	**OBS-1 DISS**	SM22 3500-Cr B	323481		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70273550007	**MW-09C DISS**	SM22 3500-Cr B	323481		
70273550008	**MW-09B DISS**	SM22 3500-Cr B	323481		
70273550009	**MW-05B DISS**	SM22 3500-Cr B	323481		
70273550010	**MW-08A**	SM22 3500-Cr B	323600		
70273550011	**MW-08B**	SM22 3500-Cr B	323600		
70273550012	**LF-2**	SM22 3500-Cr B	323600		
70273550013	**LF-1**	SM22 3500-Cr B	323600		
70273550014	**BLINDDUPLICATE-1**	SM22 3500-Cr B	323600		
70273550016	**MW-08A DISS**	SM22 3500-Cr B	323600		
70273550017	**MW-08B DISS**	SM22 3500-Cr B	323600		
70273550018	**LF-2 DISS**	SM22 3500-Cr B	323600		
70273550019	**LF-1 DISS**	SM22 3500-Cr B	323600		
70273550020	**BLIND DUPLICATE-1 DISS**	SM22 3500-Cr B	323600		
70273550021	**MW-06B**	SM22 3500-Cr B	323867		
70273550022	**MW-06C**	SM22 3500-Cr B	323867		
70273550023	**MW-06E**	SM22 3500-Cr B	323867		
70273550024	**MW-06F**	SM22 3500-Cr B	323867		
70273550026	**FIELD BLANK_10/12/23**	SM22 3500-Cr B	323867		
70273550027	**MW-06B DISS**	SM22 3500-Cr B	323867		
70273550028	**MW-06C DISS**	SM22 3500-Cr B	323867		
70273550029	**MW-06E DISS**	SM22 3500-Cr B	323867		
70273550030	**MW-06F DISS**	SM22 3500-Cr B	323867		
70273550031	**FIELD BLANK_10/12/23**	SM22 3500-Cr B	323867		
70273550001	**OBS-1**	EPA 300.0	325057		
70273550002	**MW-09C**	EPA 300.0	325057		
70273550003	**MW-09B**	EPA 300.0	325057		
70273550004	**MW-05B**	EPA 300.0	325057		
70273550010	**MW-08A**	EPA 300.0	325236		
70273550011	**MW-08B**	EPA 300.0	325236		
70273550012	**LF-2**	EPA 300.0	325236		
70273550013	**LF-1**	EPA 300.0	325236		
70273550014	**BLINDDUPLICATE-1**	EPA 300.0	325538		
70273550021	**MW-06B**	EPA 300.0	325538		
70273550022	**MW-06C**	EPA 300.0	325538		
70273550023	**MW-06E**	EPA 300.0	325538		
70273550024	**MW-06F**	EPA 300.0	325538		
70273550026	**FIELD BLANK_10/12/23**	EPA 300.0	325538		
70273550001	**OBS-1**	EPA 351.2	323606	EPA 351.2	323609
70273550002	**MW-09C**	EPA 351.2	323606	EPA 351.2	323609
70273550003	**MW-09B**	EPA 351.2	323606	EPA 351.2	323609
70273550004	**MW-05B**	EPA 351.2	323606	EPA 351.2	323609
70273550010	**MW-08A**	EPA 351.2	324320	EPA 351.2	324323
70273550011	**MW-08B**	EPA 351.2	324320	EPA 351.2	324323
70273550012	**LF-2**	EPA 351.2	324320	EPA 351.2	324323
70273550013	**LF-1**	EPA 351.2	324320	EPA 351.2	324323

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70273550014	**BLINDDUPLICATE-1**	EPA 351.2	324320	EPA 351.2	324323
70273550021	**MW-06B**	EPA 351.2	324320	EPA 351.2	324323
70273550022	**MW-06C**	EPA 351.2	324320	EPA 351.2	324323
70273550023	**MW-06E**	EPA 351.2	324320	EPA 351.2	324323
70273550024	**MW-06F**	EPA 351.2	324320	EPA 351.2	324323
70273550026	**FIELD BLANK_10/12/23**	EPA 351.2	324320	EPA 351.2	324323
70273550001	**OBS-1**	EPA 353.2	324516		
70273550002	**MW-09C**	EPA 353.2	324516		
70273550003	**MW-09B**	EPA 353.2	324516		
70273550004	**MW-05B**	EPA 353.2	324516		
70273550010	**MW-08A**	EPA 353.2	324516		
70273550011	**MW-08B**	EPA 353.2	324516		
70273550012	**LF-2**	EPA 353.2	324516		
70273550013	**LF-1**	EPA 353.2	324516		
70273550014	**BLINDDUPLICATE-1**	EPA 353.2	324516		
70273550021	**MW-06B**	EPA 353.2	324516		
70273550022	**MW-06C**	EPA 353.2	324516		
70273550023	**MW-06E**	EPA 353.2	324516		
70273550024	**MW-06F**	EPA 353.2	324516		
70273550026	**FIELD BLANK_10/12/23**	EPA 353.2	324516		
70273550001	**OBS-1**	EPA 353.2	323402		
70273550002	**MW-09C**	EPA 353.2	323402		
70273550003	**MW-09B**	EPA 353.2	323402		
70273550004	**MW-05B**	EPA 353.2	323402		
70273550010	**MW-08A**	EPA 353.2	323597		
70273550011	**MW-08B**	EPA 353.2	323598		
70273550012	**LF-2**	EPA 353.2	323598		
70273550013	**LF-1**	EPA 353.2	323598		
70273550014	**BLINDDUPLICATE-1**	EPA 353.2	323595		
70273550021	**MW-06B**	EPA 353.2	323777		
70273550022	**MW-06C**	EPA 353.2	323777		
70273550023	**MW-06E**	EPA 353.2	323777		
70273550024	**MW-06F**	EPA 353.2	323777		
70273550026	**FIELD BLANK_10/12/23**	EPA 353.2	323777		
70273550001	**OBS-1**	EPA 420.1	323997	EPA 420.1	324113
70273550002	**MW-09C**	EPA 420.1	323997	EPA 420.1	324113
70273550003	**MW-09B**	EPA 420.1	323997	EPA 420.1	324113
70273550004	**MW-05B**	EPA 420.1	323997	EPA 420.1	324113
70273550010	**MW-08A**	EPA 420.1	324881	EPA 420.1	324946
70273550011	**MW-08B**	EPA 420.1	324881	EPA 420.1	324946
70273550012	**LF-2**	EPA 420.1	324881	EPA 420.1	324946
70273550013	**LF-1**	EPA 420.1	324881	EPA 420.1	324946
70273550014	**BLINDDUPLICATE-1**	EPA 420.1	325805	EPA 420.1	325884
70273550021	**MW-06B**	EPA 420.1	325805	EPA 420.1	325884

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70273550022	**MW-06C**	EPA 420.1	325805	EPA 420.1	325884
70273550023	**MW-06E**	EPA 420.1	325805	EPA 420.1	325884
70273550024	**MW-06F**	EPA 420.1	325805	EPA 420.1	325884
70273550026	**FIELD BLANK_10/12/23**	EPA 420.1	325805	EPA 420.1	325884
70273550001	**OBS-1**	SM20/22 4500-CN-C	324518	SM22 4500-CN-E	324605
70273550002	**MW-09C**	SM20/22 4500-CN-C	324518	SM22 4500-CN-E	324605
70273550003	**MW-09B**	SM20/22 4500-CN-C	324518	SM22 4500-CN-E	324605
70273550004	**MW-05B**	SM20/22 4500-CN-C	324518	SM22 4500-CN-E	324605
70273550010	**MW-08A**	SM20/22 4500-CN-C	324518	SM22 4500-CN-E	324605
70273550011	**MW-08B**	SM20/22 4500-CN-C	324518	SM22 4500-CN-E	324605
70273550012	**LF-2**	SM20/22 4500-CN-C	324518	SM22 4500-CN-E	324605
70273550013	**LF-1**	SM20/22 4500-CN-C	324518	SM22 4500-CN-E	324605
70273550014	**BLINDDUPLICATE-1**	SM20/22 4500-CN-C	325008	SM22 4500-CN-E	325071
70273550021	**MW-06B**	SM20/22 4500-CN-C	325008	SM22 4500-CN-E	325071
70273550022	**MW-06C**	SM20/22 4500-CN-C	325008	SM22 4500-CN-E	325071
70273550023	**MW-06E**	SM20/22 4500-CN-C	325008	SM22 4500-CN-E	325071
70273550024	**MW-06F**	SM20/22 4500-CN-C	325008	SM22 4500-CN-E	325071
70273550026	**FIELD BLANK_10/12/23**	SM20/22 4500-CN-C	325008	SM22 4500-CN-E	325071
70273550001	**OBS-1**	SM22 4500-Cl-E	324844		
70273550002	**MW-09C**	SM22 4500-Cl-E	324844		
70273550003	**MW-09B**	SM22 4500-Cl-E	324844		
70273550004	**MW-05B**	SM22 4500-Cl-E	324844		
70273550010	**MW-08A**	SM22 4500-Cl-E	324845		
70273550011	**MW-08B**	SM22 4500-Cl-E	324845		
70273550012	**LF-2**	SM22 4500-Cl-E	324845		
70273550013	**LF-1**	SM22 4500-Cl-E	324845		
70273550014	**BLINDDUPLICATE-1**	SM22 4500-Cl-E	324845		
70273550021	**MW-06B**	SM22 4500-Cl-E	324845		
70273550022	**MW-06C**	SM22 4500-Cl-E	324845		
70273550023	**MW-06E**	SM22 4500-Cl-E	324845		
70273550024	**MW-06F**	SM22 4500-Cl-E	324845		
70273550026	**FIELD BLANK_10/12/23**	SM22 4500-Cl-E	324845		
70273550001	**OBS-1**	SM22 4500 NH3 H	323646		
70273550002	**MW-09C**	SM22 4500 NH3 H	323646		
70273550003	**MW-09B**	SM22 4500 NH3 H	323646		
70273550004	**MW-05B**	SM22 4500 NH3 H	323646		
70273550010	**MW-08A**	SM22 4500 NH3 H	324543		
70273550011	**MW-08B**	SM22 4500 NH3 H	324543		
70273550012	**LF-2**	SM22 4500 NH3 H	324543		
70273550013	**LF-1**	SM22 4500 NH3 H	324543		
70273550014	**BLINDDUPLICATE-1**	SM22 4500 NH3 H	324842		
70273550021	**MW-06B**	SM22 4500 NH3 H	324842		
70273550022	**MW-06C**	SM22 4500 NH3 H	324842		
70273550023	**MW-06E**	SM22 4500 NH3 H	324842		
70273550024	**MW-06F**	SM22 4500 NH3 H	324842		

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/10
Pace Project No.: 70273550

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70273550026	**FIELD BLANK_10/12/23**	SM22 4500 NH3 H	324842		

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# : 70273550

70273550

KMM

Company Name:	Town of Oyster Bay	Contact/Report To:	Russo, Matt
Street Address:	150 Miller Place, Syosset, NY 11791	Phone #:	NONE
		E-Mail:	mrusso@tobays.net, krobins@db-eng.com
		Cc E-Mail:	Labdata@db-eng.com
Customer Project #:		Invoice To:	[redacted] mrusso@tobays.net
Project Name:	Old Bethpage Landfill	Invoice E-Mail:	[redacted] Matt Russo
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

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
[X] Other CAT B

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): STD TAT
[ ] 2 Day [ ] 3 day [ ] 5 day [X] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [X] Yes [ ] No

Analysis: Dissolved Metals

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) 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

Lab Use Only
Proj. Mgr: Lori Beyer
AcctNum / Client ID:
Table #:
Profile / Template: 6466
Prelog / Bottle Ord. ID: 1147572

* 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), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	Alk,Cl,SO4,CO3,Cr6,HCO3	Cyanide	Dissolved Cr+6	Dissolved Metals (field filter)	NH3,NO3,Phenols,TKN	No2,TDS	Total Metals & Hardness	VOC by 8260	Sample Comment	Preservation non-conformance identified for sample.
OBS-1	GW	G	10/10/23	1045				6	3	1	1	1	1	1	1	1	2		
MW-09C	GW	G	10/10/23	1345				6	3	1	1	1	1	1	1	1	2		
MW-09B	GW	G	10/10/23	1330				6	3	1	1	1	1	1	1	1	2		
MW-05B	GW	G	10/10/23	1530				6	3	1	1	1	1	1	1	1	2		
Trip Blank_10/10/23	AQ	/	10/10/23	/				/	2	/	/	/	/	/	/	/	2		

Customer Remarks / Special Conditions / Possible Hazards:
Old Bethpage Landfill - dissolved metals; field filtered

Collected By:
Printed Name: Jeremy Samson
Signature:

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)
1	TH198	+0.3	0.2	0.5

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 10/10/23 16:18	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] 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_v01_082123 ©

WO#: 70273550
PM: KMM **Due Date: 10/25/23**
CLIENT: TOY

Client Name: TOY Proje

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Oth

Tracking #:

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: TH198 Correction Factor: +0.3 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 0.5 Cooler Temperature Corrected(°C): 0.8 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: WR 10/10/23

				COMMENTS:
Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested	☐Yes	☒No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
-Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis	☒Yes	☐No		12. Matrix: SL WT OIL OTHER

Date and Initials of person checking preservation: WR 10/10/23

All containers needing preservation have been pH paper Lot # HC208072	☒Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☒Yes	☐No	☐N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☒N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot #	☐Yes	☐No	☒N/A	15. Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	16.
Trip Blank Present:	☒Yes	☐No	☐N/A	17.
Trip Blank Custody Seals Present	☒Yes	☐No	☐N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

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# : 70273550

PM: KMM **Due Date: 10/25/23**

CLIENT: TOY

Company Name:	Town of Oyster Bay	Contact/Report To:	Russo, Matt
Street Address:	150 Miller Place, Syosset, NY 11791	Phone #:	NONE
		E-Mail:	mrusso@tobays.net, Krobins@db-eng.com
		Cc E-Mail:	Labdata@db-eng.com
Customer Project #:		Invoice To:	Matt Russo
Project Name:	Old Bethpage Landfill	Invoice E-Mail:	mrusso@tobays.net
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
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
[X] Other CAT B

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): STD
[ ] 2 Day [ ] 3 day [ ] 5 day [X] Other TAT

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [X] Yes [ ] No

Analysis: Dissolved Metals

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) 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

Lab Use Only
Proj. Mgr: Lori Beyer
AcctNum / Client ID:
Table #:
Profile / Template: 6466
Prelog / Bottle Ord. ID: 1147572

* 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), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	Alk,Cl,SO4,CO3,Cr6,HCO3	Cyanide	Dissolved Cr+6	Dissolved Metals (field filter)	NH3,NO3,Phenols,TKN	No2,TDS	Total Metals & Hardness	VOC by 8260	Sample Comment	Preservation non-conformance identified for sample.
MW-08A	GW	G	10/11/23	1030				6	3	1	1	1	1	1	1	1	2		
MW-08B	GW	G	10/11/23	1045				6	3	1	1	1	1	1	1	1	2		
LF-2	GW	G	10/11/23	1230				6	3	1	1	1	1	1	1	1	2		
LF-1	GW	G	10/11/23	1430				6	3	1	1	1	1	1	1	1	2		
BlindDuplicate-1	GW	G	10/11/23	0000				6	3	1	1	1	1	1	1	1	2		
TripBlank_10/11/23	AQ	/	10/11/23	/				0	2	/	/	/	/	/	/	/	2		

Customer Remarks / Special Conditions / Possible Hazards:
Old Bethpage Landfill - dissolved metals; field filtered

Collected By:
Printed Name: Jeremy Samson
Signature: Jeremy Samson

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)
2	TH198	-0.3	3.0	3.3

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jeremy Samson	10-11-23 15:00	[illegible]	10/11/23 15:86
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)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [X] In-Person [ ] Courier
[ ] FedEx [ ] UPS [ ] Other

Page: 1 of 1

WO#: 70273550
PM: KMM **Due Date: 10/25/23**
CLIENT: TOY

Client Name: TOY Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ 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 ☐ Ziploc ☑ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH148 Correction Factor: +0.3 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 3.0 Cooler Temperature Corrected(°C): 3.3 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: WK 10/11/23

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used: -Pace Containers Used:	☑Yes ☑Yes	☐No ☐No		9.
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	☑Yes	☐No		12.

Date and Initials of person checking preservation: WK 10/11/23

All containers needing preservation have been checked. pH paper Lot # HC208072	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☑Yes	☐No	☐N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm)	☐Yes	☑No	☐N/A	16.
Trip Blank Present:	☐Yes	☐No	☐N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☐N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

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

LAB USE ONLY- Affix Workorder/Login Label Here

WO# : 70273550
PM: KMM
CLIENT: TOY
Due Date: 10/26/23

Company Name:	Town of Oyster Bay	Contact/Report To:	Russo, Matt
Street Address:	150 Miller Place, Syosset, NY 11791	Phone #:	NONE
		E-Mail:	mrusso@tobays.net, krobins@db-eng.com
		Cc E-Mail:	Labdata@db-eng.com
Customer Project #:		Invoice To:	Matt Russo
Project Name:	Old Bethpage Landfill	Invoice E-Mail:	mrusso@tobays.net
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
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 [X] Other CAT B		Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): STD TAT [ ] 2 Day [ ] 3 day [ ] 5 day [X] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [X] Yes [ ] No
			Analysis: Dissolved Metals

Specify Container Size **: 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

Identify Container Preservative Type***: *** 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

Analysis Requested

* 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), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	Alk,Cl,SO4,CO3,Cr6,HCO3	Cyanide	Dissolved Cr+6	Dissolved Metals (field filter)	NH3,NO3,Phenols,TKN	No2,TDS	Total Metals & Hardness	VOC by 8260	Sample Comment
~~MW-06A~~ (JB)	GW	G	10/13/23					6	3	1	1	1	1	1	1	1	2	
MW-06B	GW	G	10/13/23	1300				6	3	1	1	1	1	1	1	1	2	
MW-06C	GW	G	10/13/23	1045				6	3	1	1	1	1	1	1	1	2	
MW-06E	GW	G	10/13/23	1245				6	3	1	1	1	1	1	1	1	2	
MW-06F	GW	G	10/13/23	1200				6	3	1	1	1	1	1	1	1	2	
TripBlank_10/13/23	AQ	/	10/13/23	/				/	2	/	/	/	/	/	/	/	2	
FieldBlank_10/13/23	AQ	/	10/13/23	1450				6	3	1	1	1	1	1	1	1	2	

Lab Use Only
Proj. Mgr: Lori Beyer
AcctNum / Client ID:
Table #:
Profile / Template: 6466
Prelog / Bottle Ord. ID: 1147572

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
Old Bethpage Landfill - dissolved metals; field filtered

Collected By:
Printed Name: Jeremy Jansen
Signature:

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)
	TH196	+0.2	1.7	2.0

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	10-12-23 15:15		10-12-23 1515
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)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 1 of 1

WO#: 70273550

PM: KMM **Due Date: 10/26/23**

CLIENT: TOY

Client Name: TOY Proje

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ O

Tracking #:

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: TH198 Correction Factor: +0.3 ☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 1.7 Cooler Temperature Corrected(°C): 2.0 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 orignate 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: BJ 10/12/23

				COMMENTS:
Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☒Yes	☐No		6.
Rush Turn Around Time Requested	☒Yes	☐No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
-Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis: Matrix: SL WT OIL OTHER	☒Yes	☒No		12. Logged 8 Bottles, date of collection is in future. Logged for 10/12/23 dates as per bottles

Date and Initials of person checking preservation: ABZ 10/13/23

All containers needing preservation have been checked. pH paper Lot # HC293055	☒Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water) Per Method, VOA pH is checked after analysis	☒Yes	☐No	☐N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☒N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul Lead Acetate Strips Lot # 14-8102 10/13/23	☒Yes	☐No	☐N/A	15. Positive for Sulfide? Y (N)
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	16.
Trip Blank Present	☐Yes	☐No	☐N/A	17.
Trip Blank Custody Seals Present	☒Yes	☐No	☐N/A	

Client Notification/ Resolution: Field Data Required? Y / N

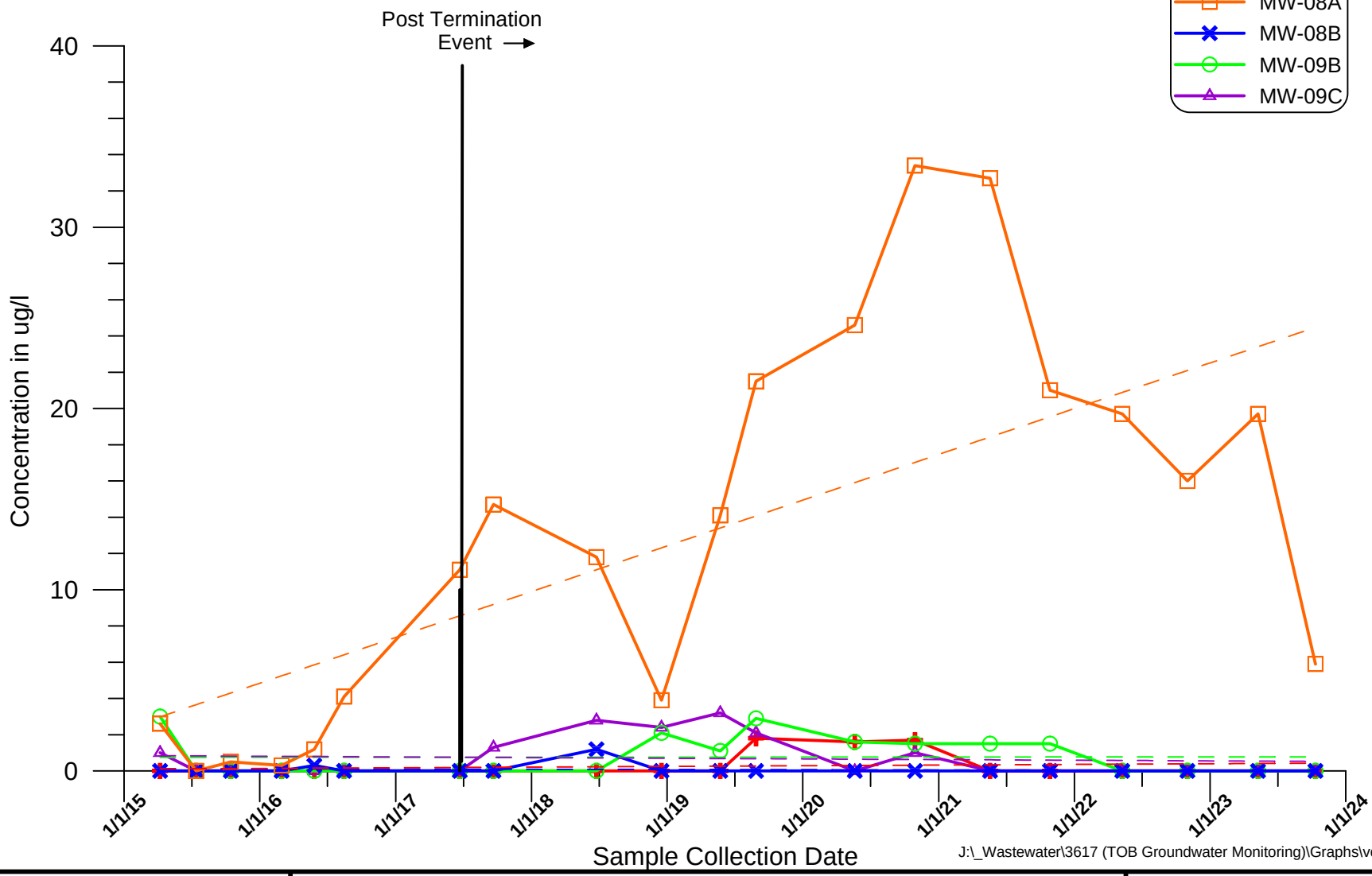
Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

APPENDIX E

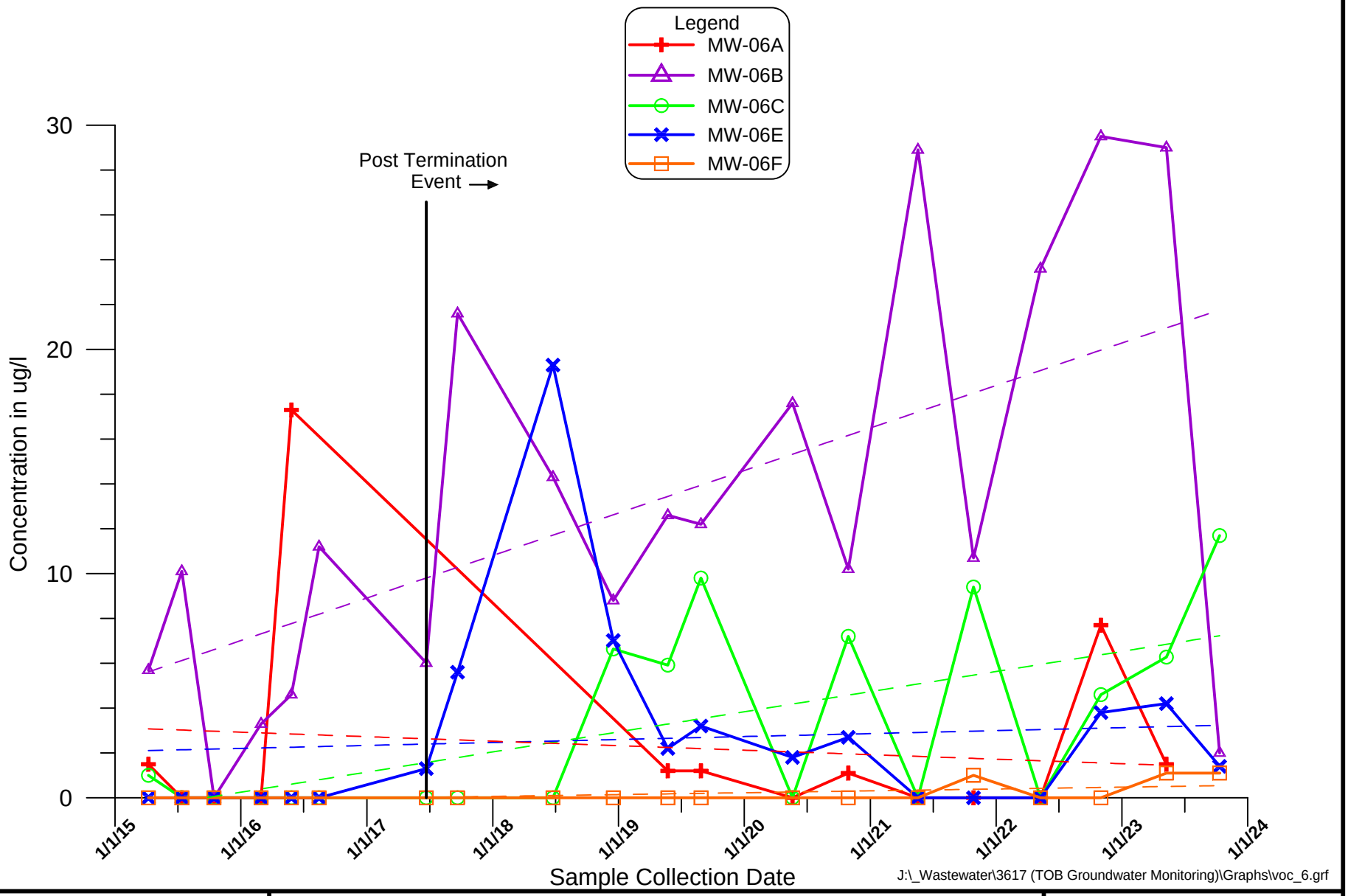
POST-TERMINATION HISTORICAL GROUNDWATER TREND GRAPHS



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Total Volatile Organic Compounds
Data for Monitoring Wells 5, 8, & 9

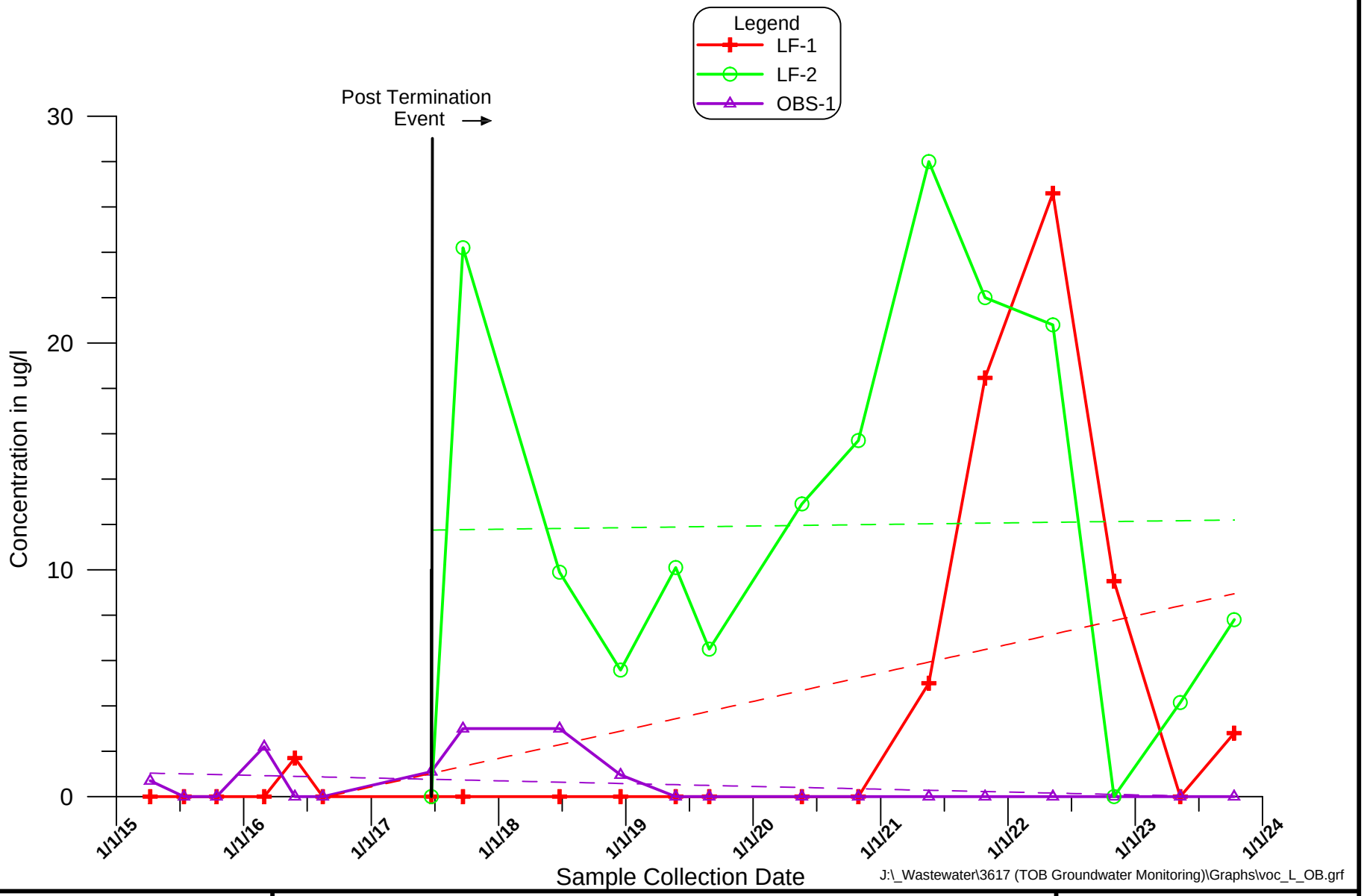
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Total Volatile Organic Compounds
Data for Monitoring Well Cluster 6

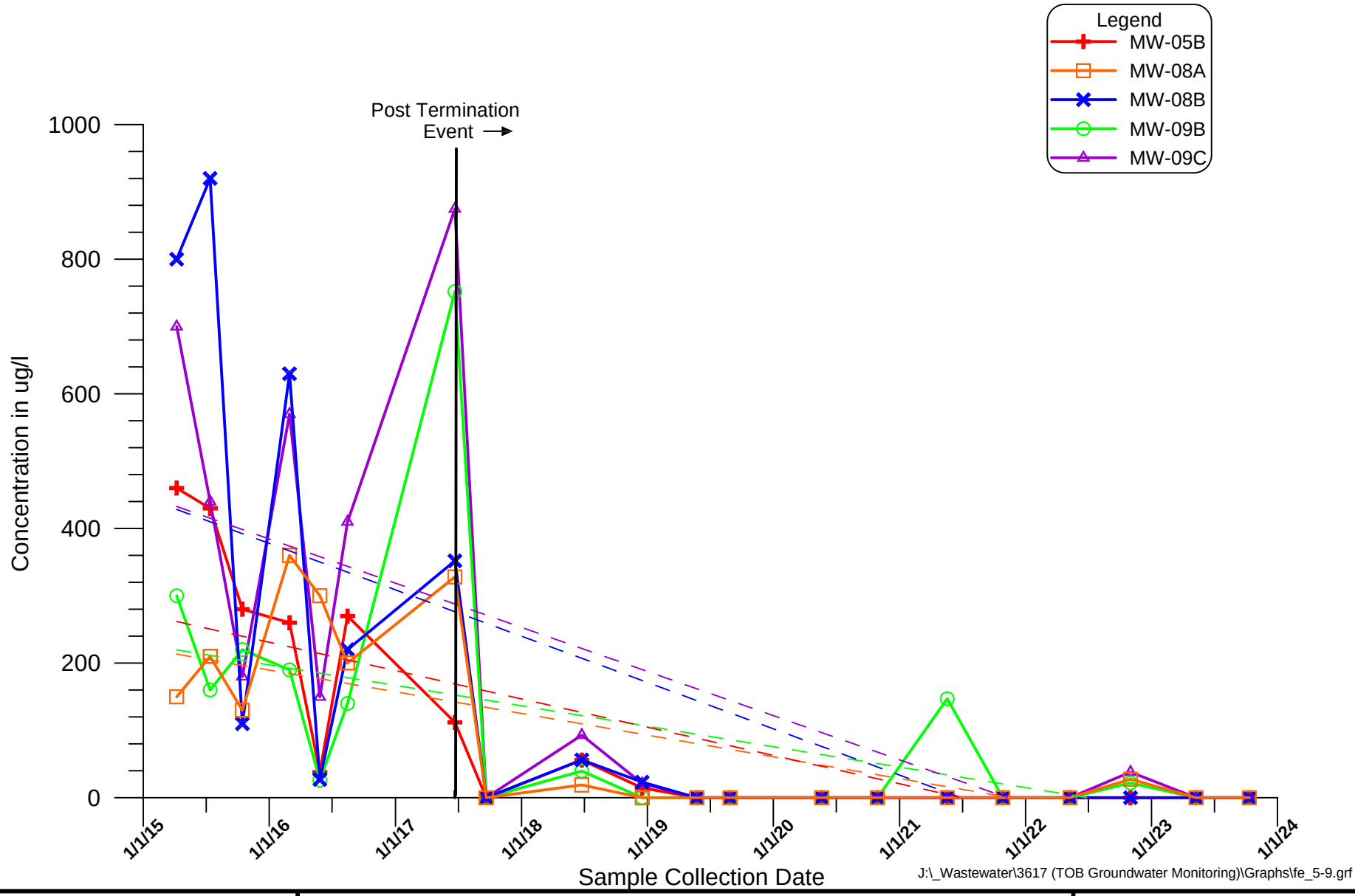
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Total Volatile Organic Compounds
Data for Wells LF-1, LF-2 & OBS-1

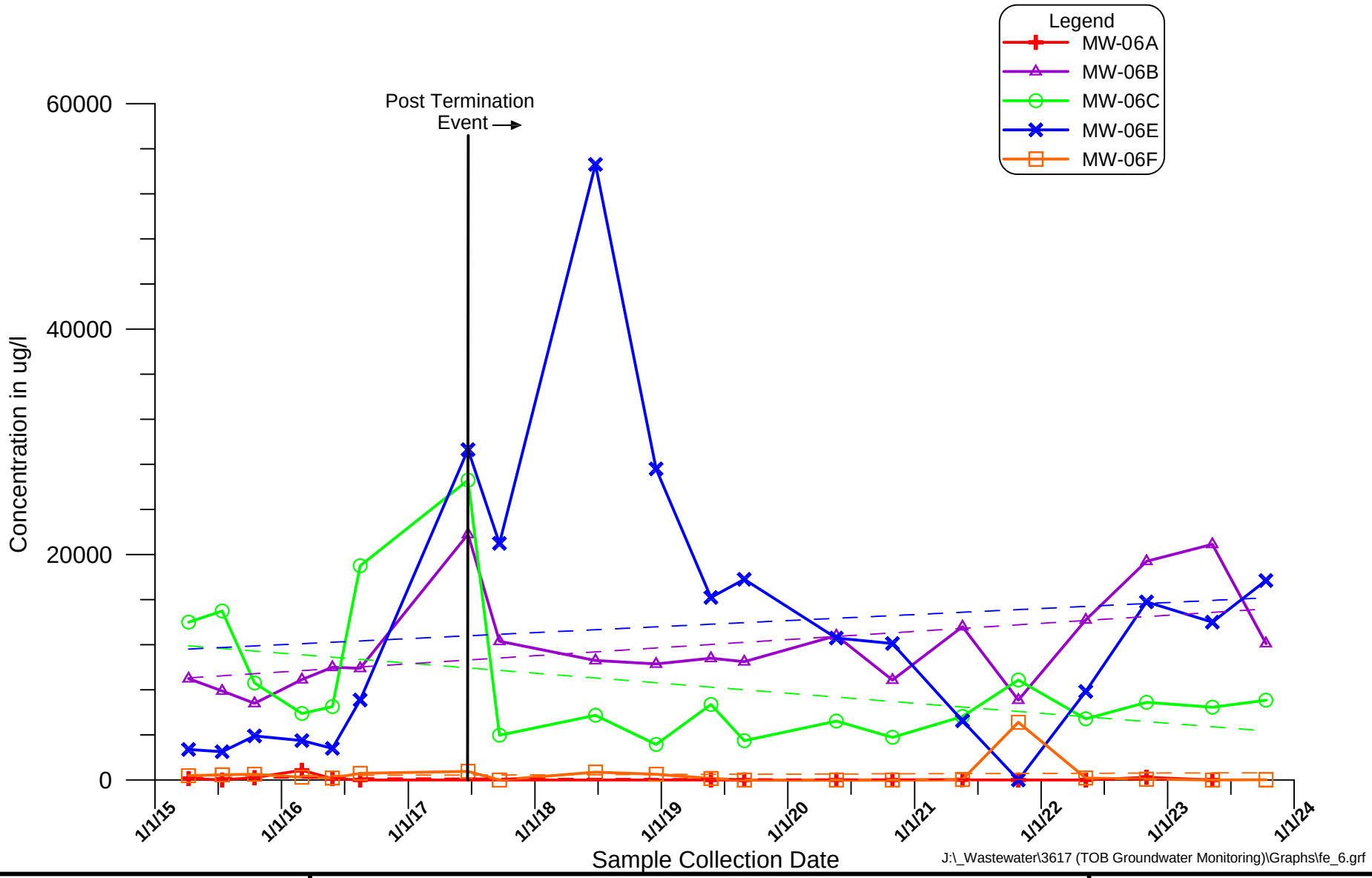
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Iron
Data for Monitoring Wells 5, 8, & 9

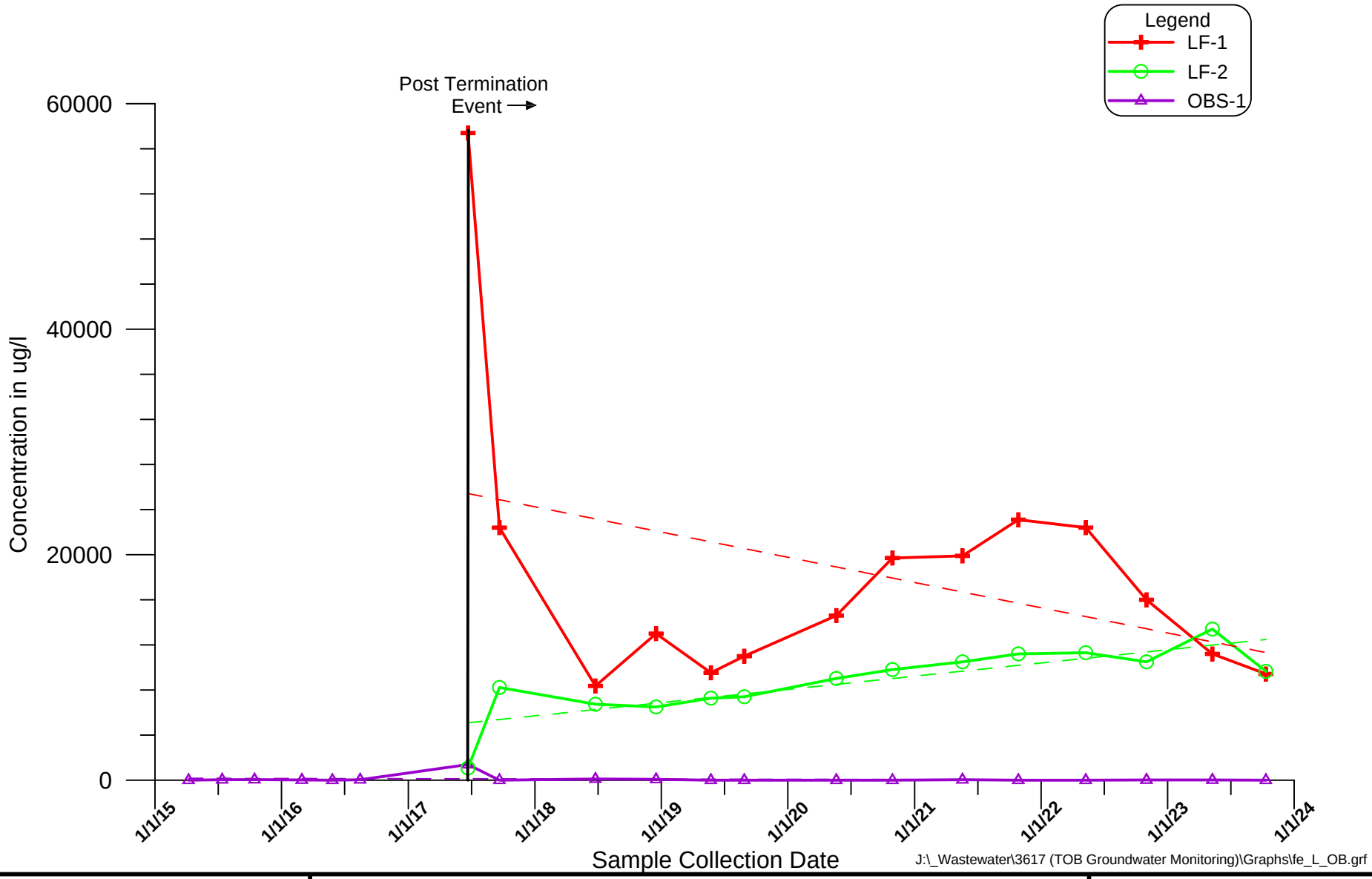
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Iron
Data for Monitoring Well Cluster 6

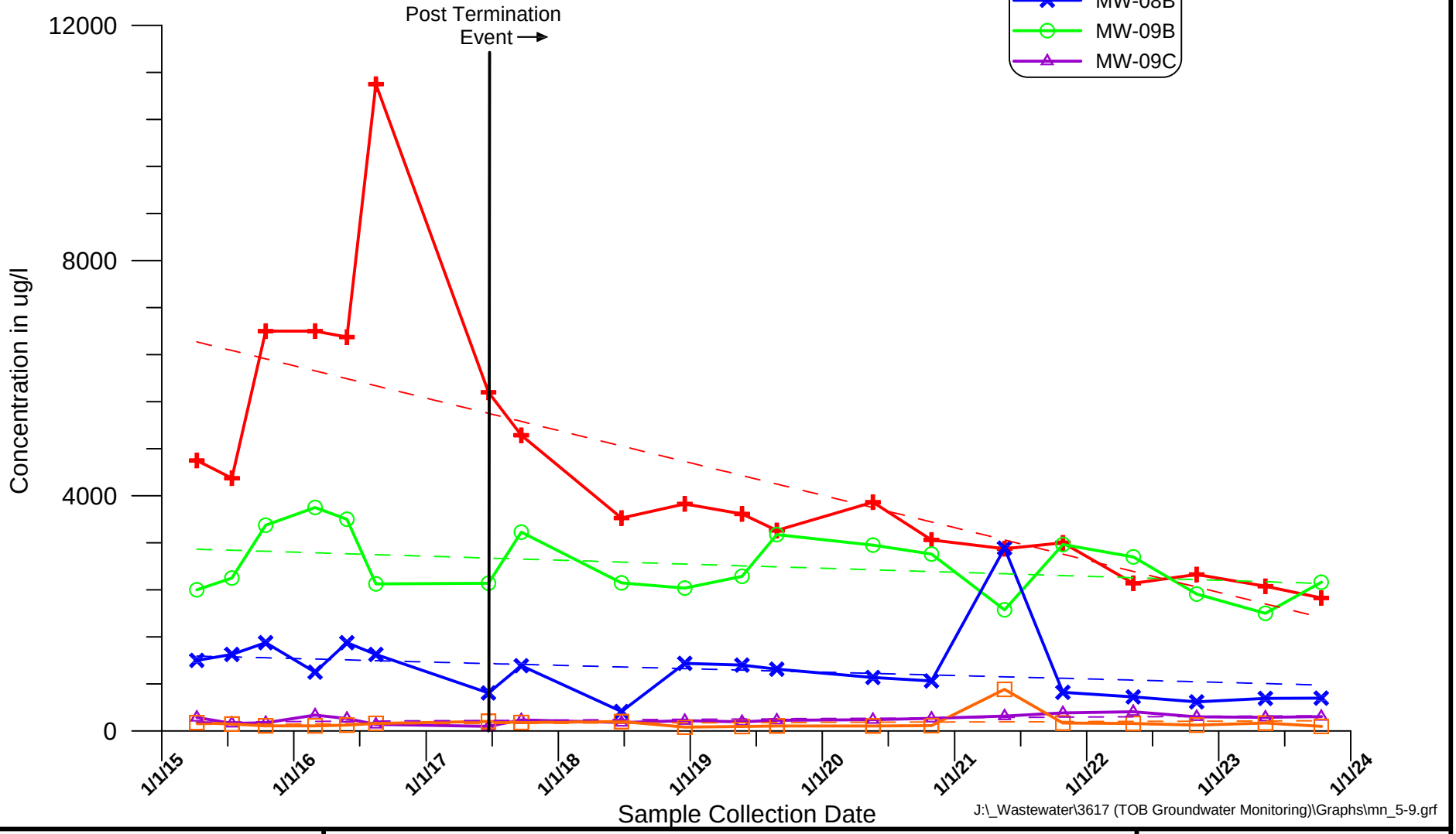
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Iron
Data for Wells LF-1, LF-2 & OBS-1

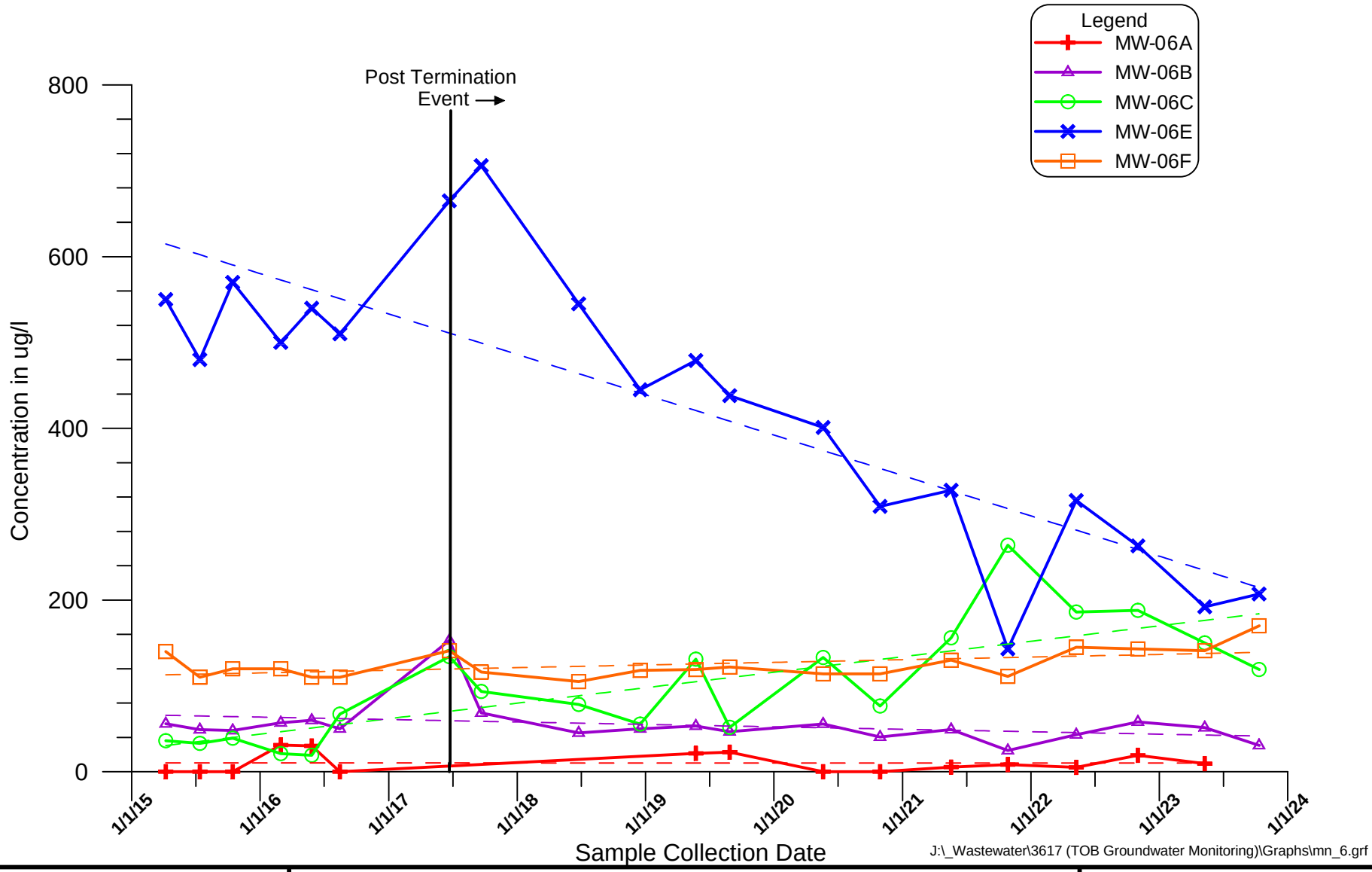
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Manganese
Data for Monitoring Wells 5, 8, & 9

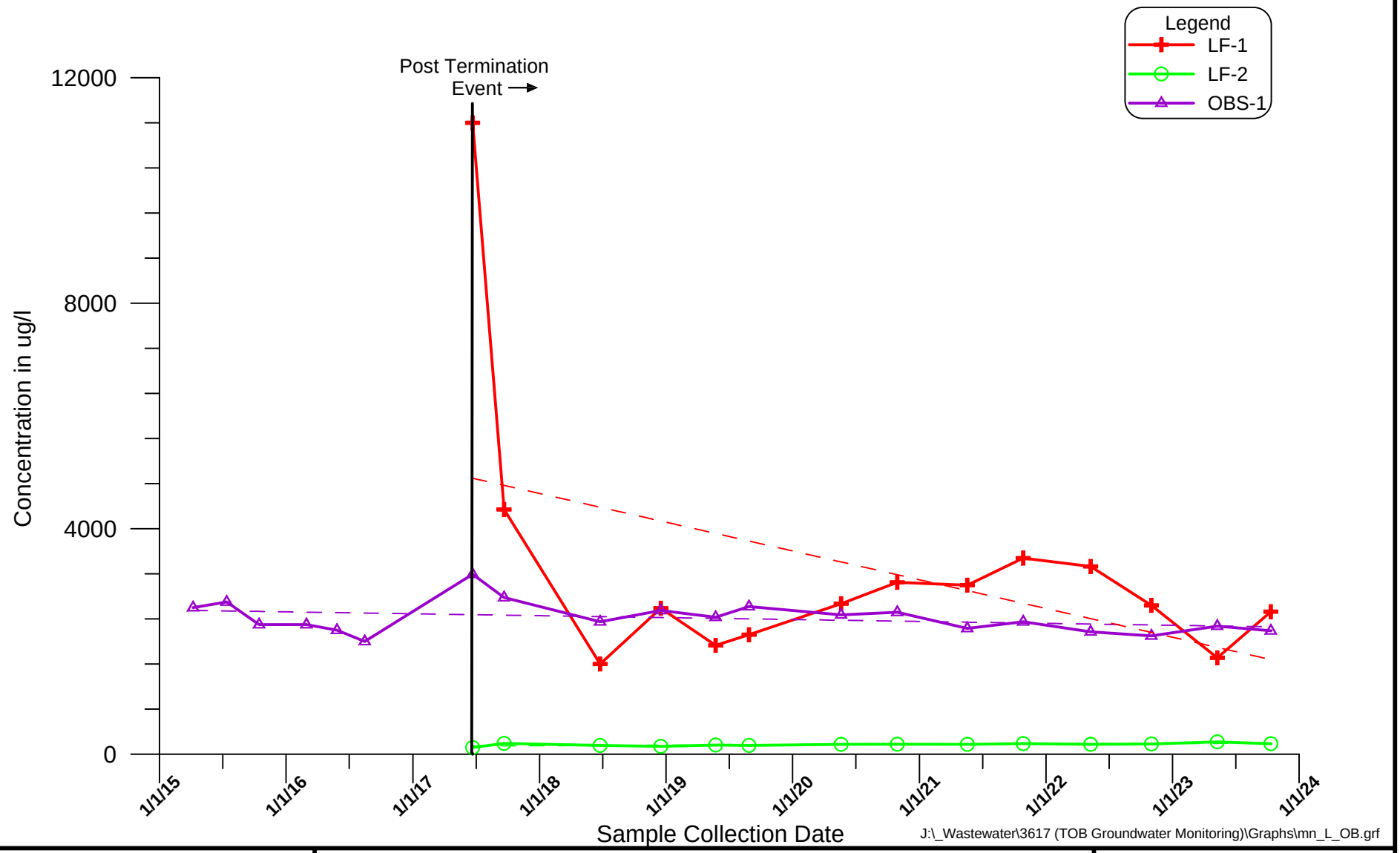
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Manganese
Data for Monitoring Well Cluster 6

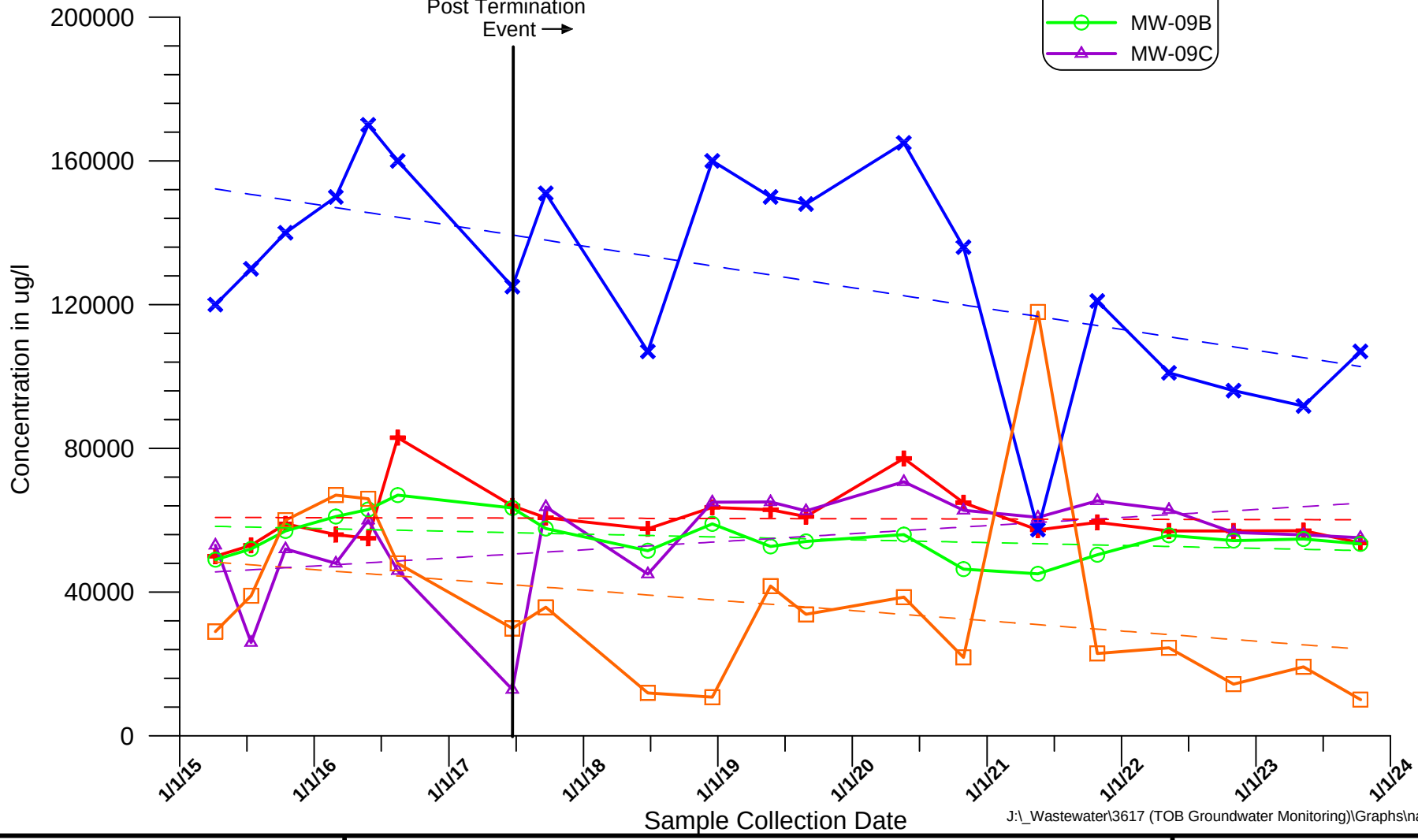
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Manganese
Data for Wells LF-1, LF-2 & OBS-1

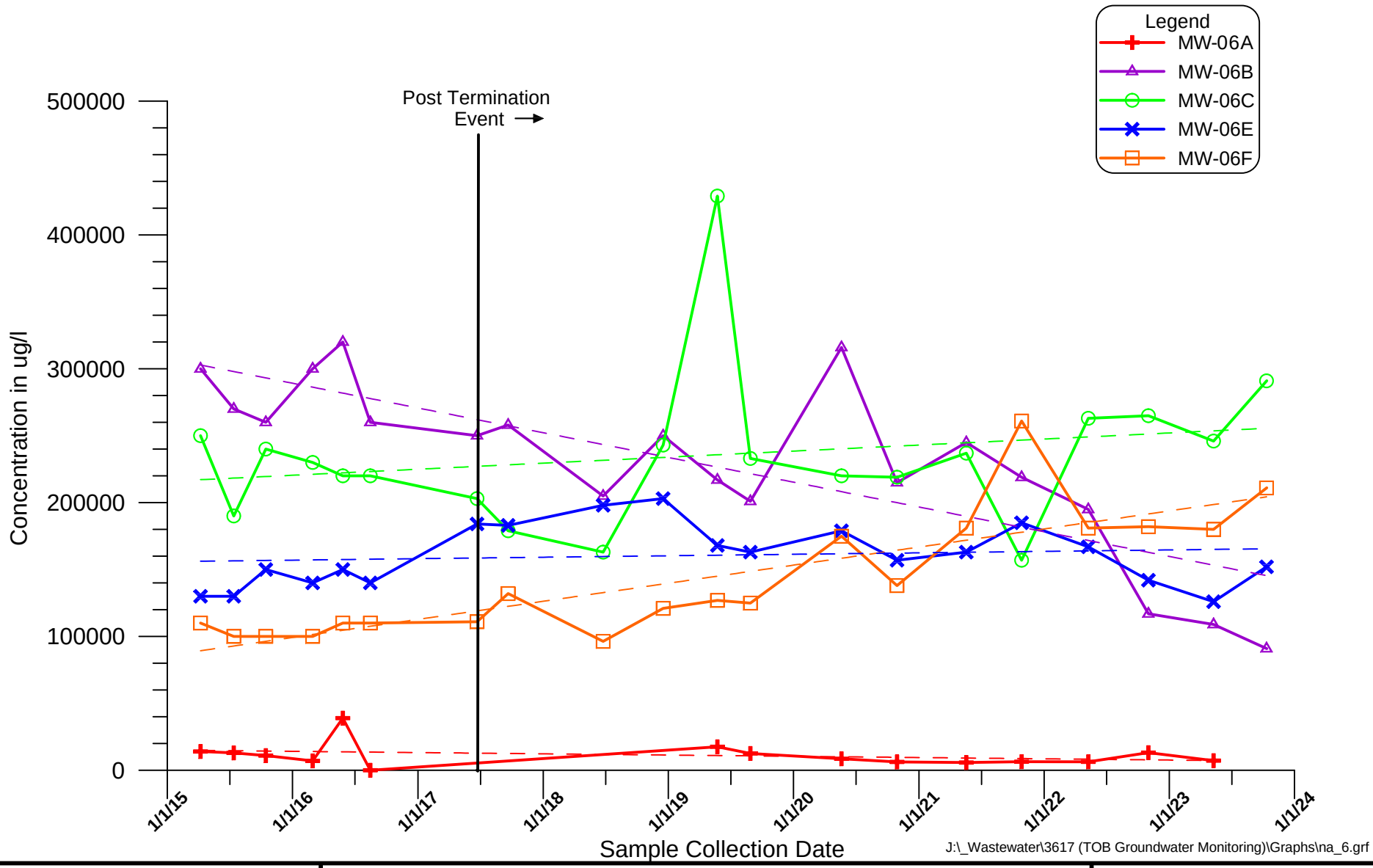
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Sodium
Data for Monitoring Wells 5, 8, & 9

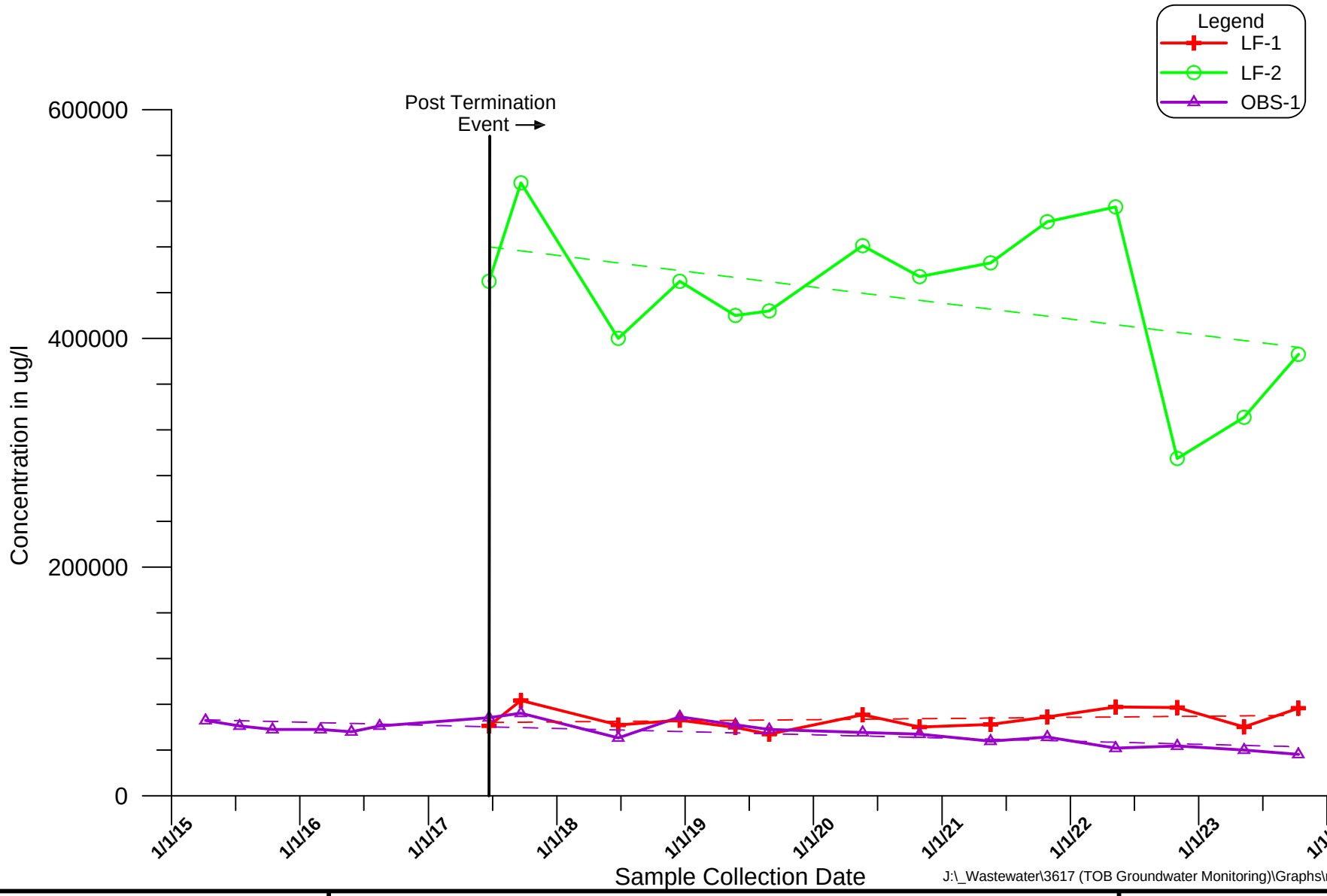
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Sodium
Data for Monitoring Well Cluster 6

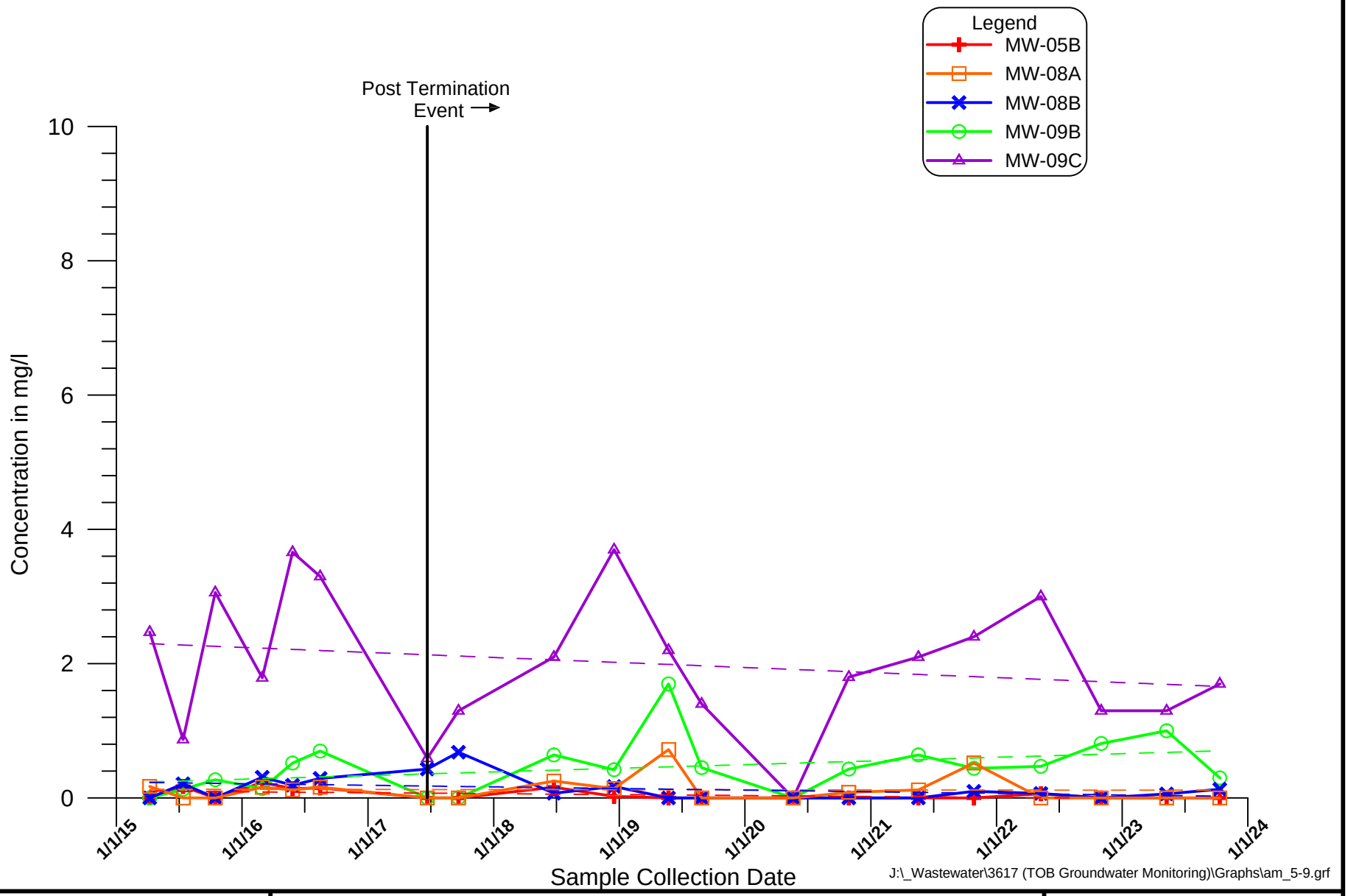
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Sodium
Data for Wells LF-1, LF-2 & OBS-1

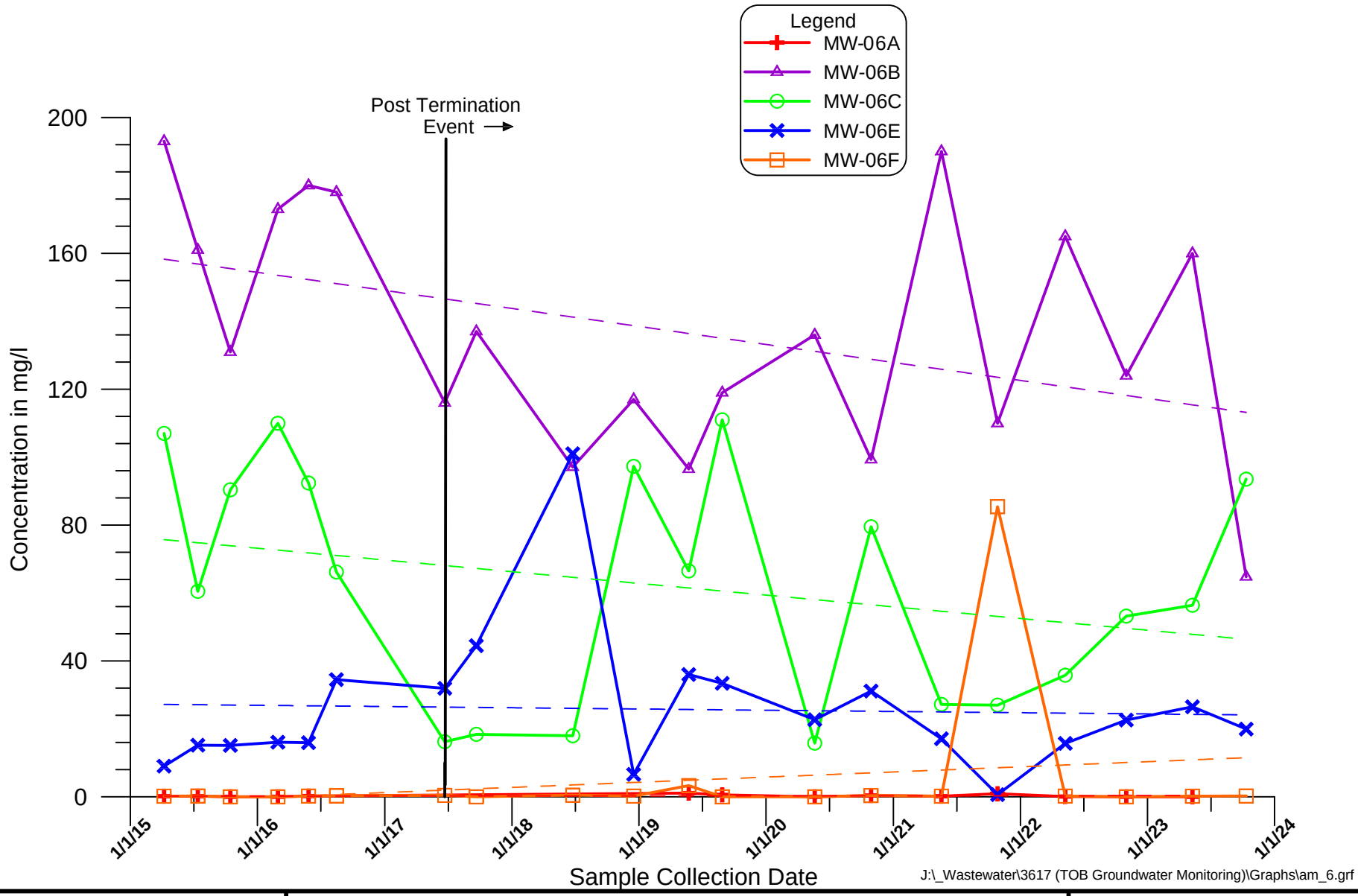
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Ammonia
Data for Monitoring Wells 5, 8, & 9

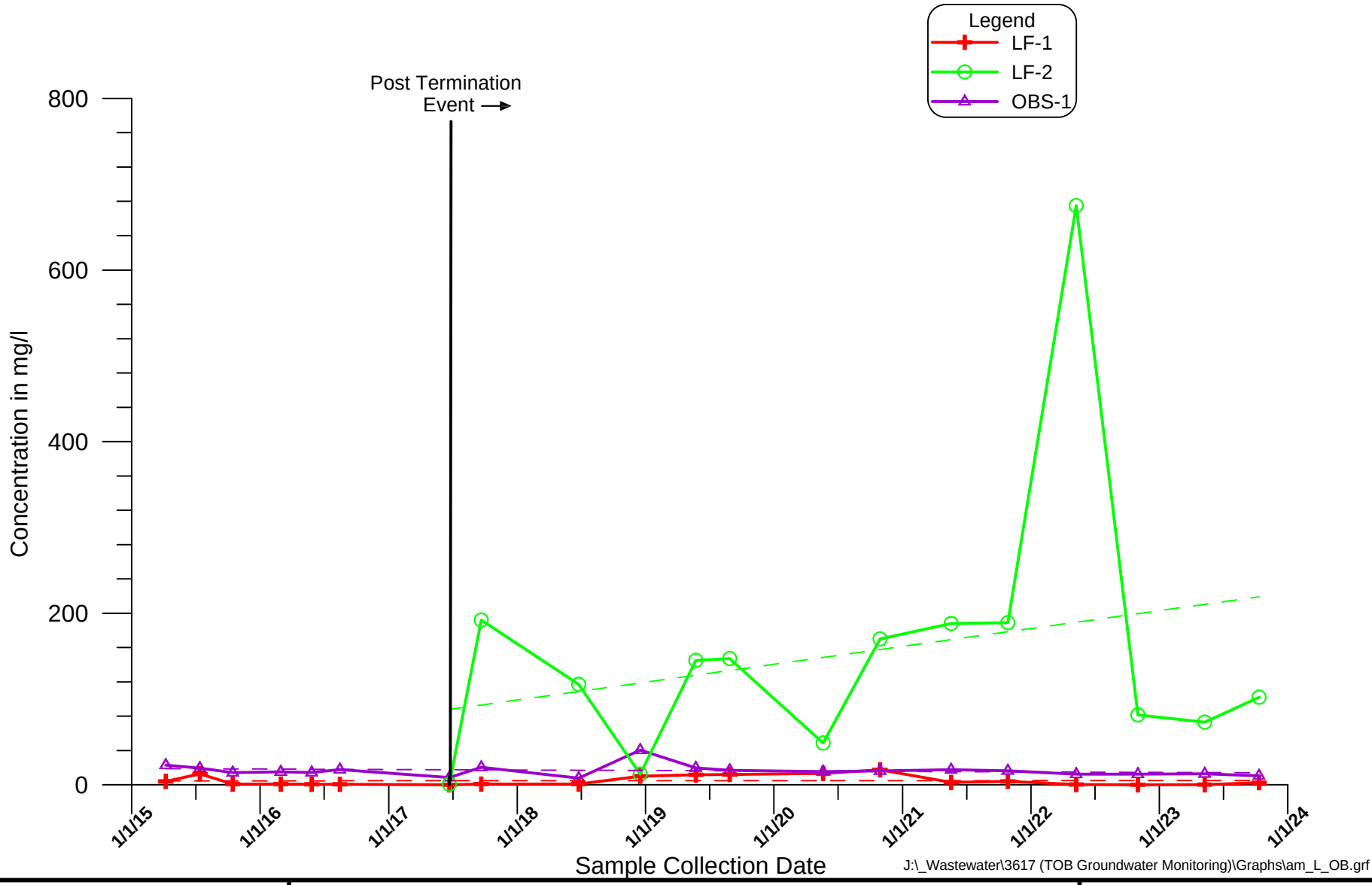
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Ammonia
Data for Monitoring Well Cluster 6

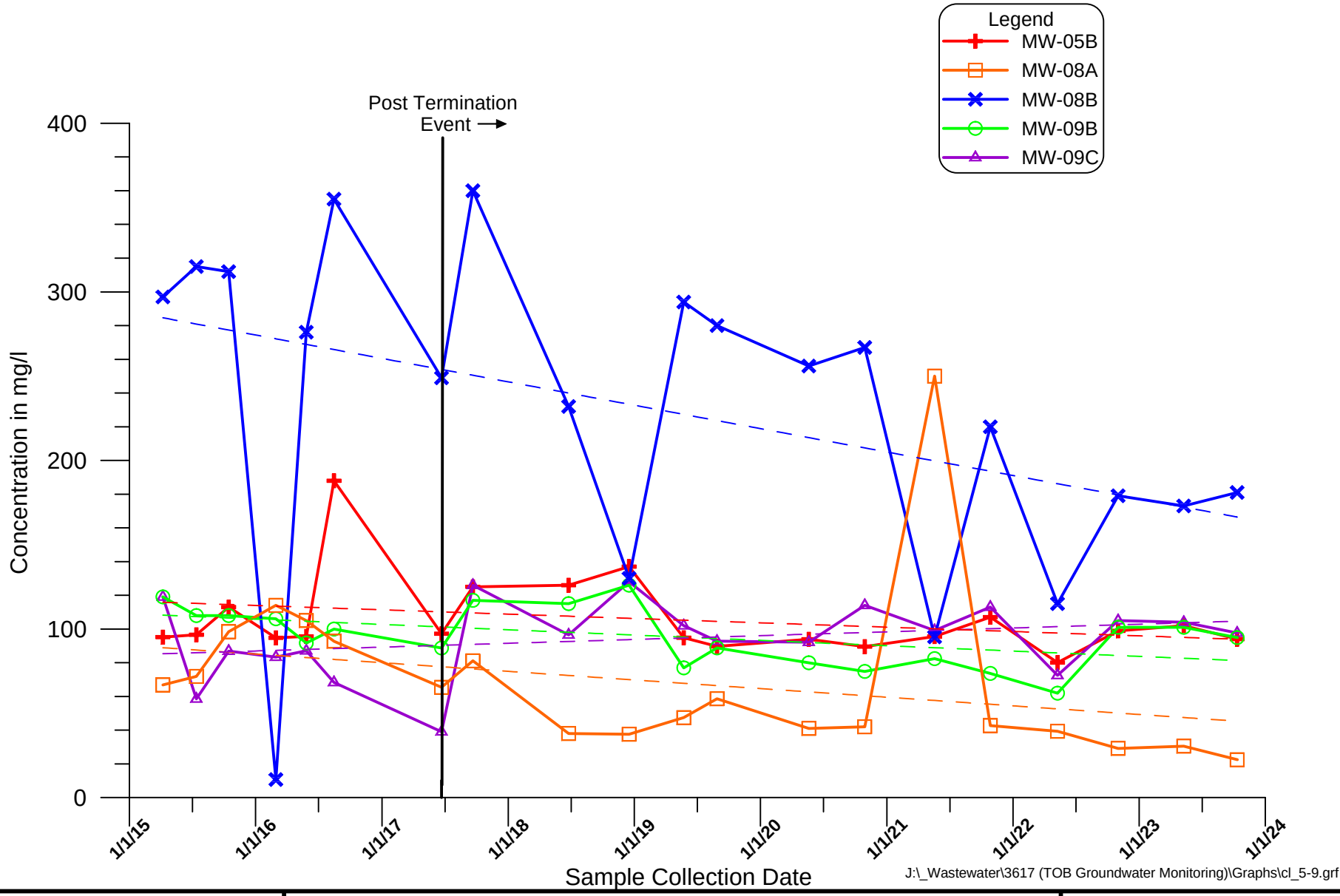
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Ammonia
Data for Wells LF-1, LF-2 & OBS-1

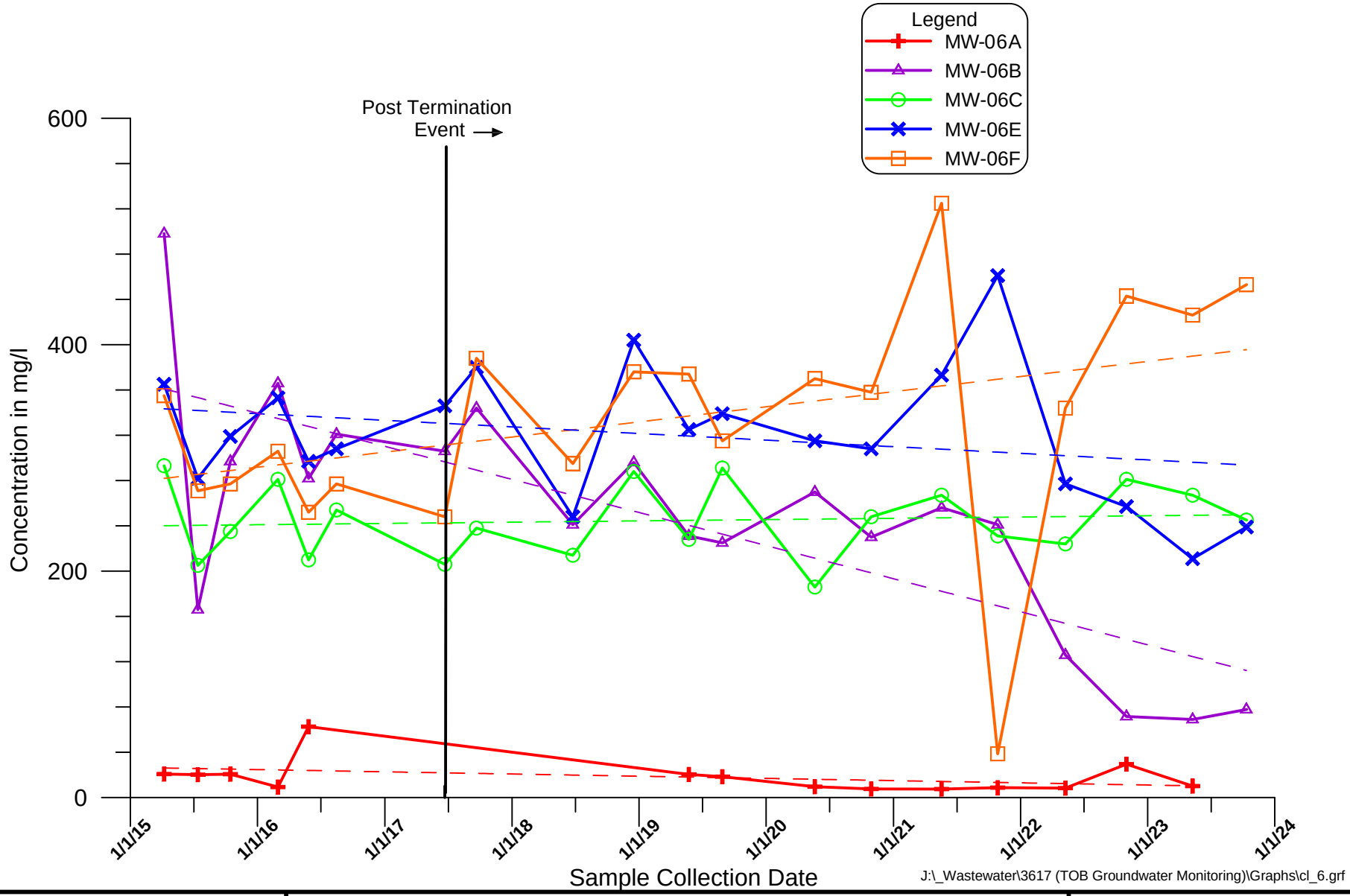
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Chloride
Data for Monitoring Wells 5, 8, & 9

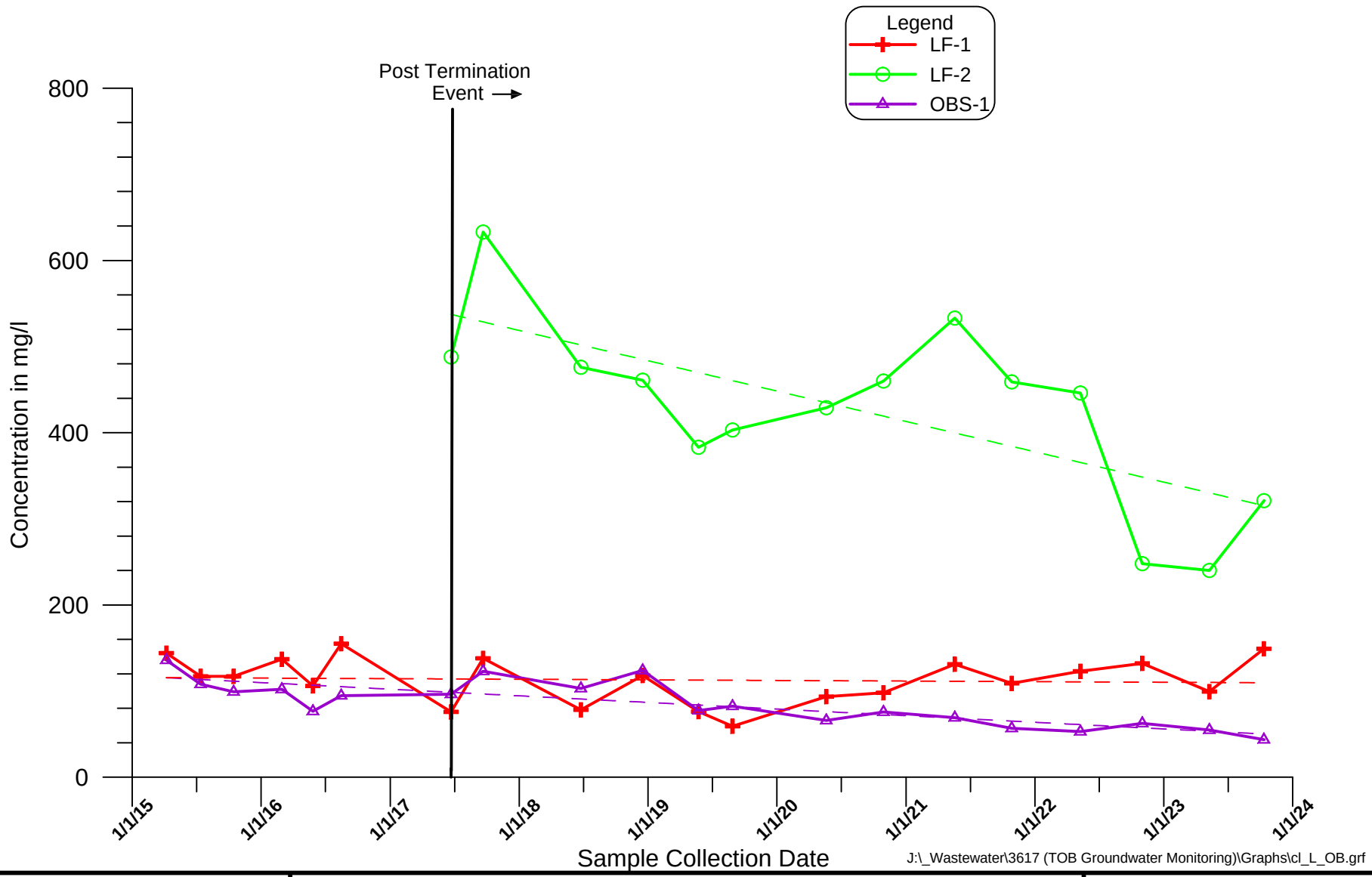
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Chloride
Data for Monitoring Well Cluster 6

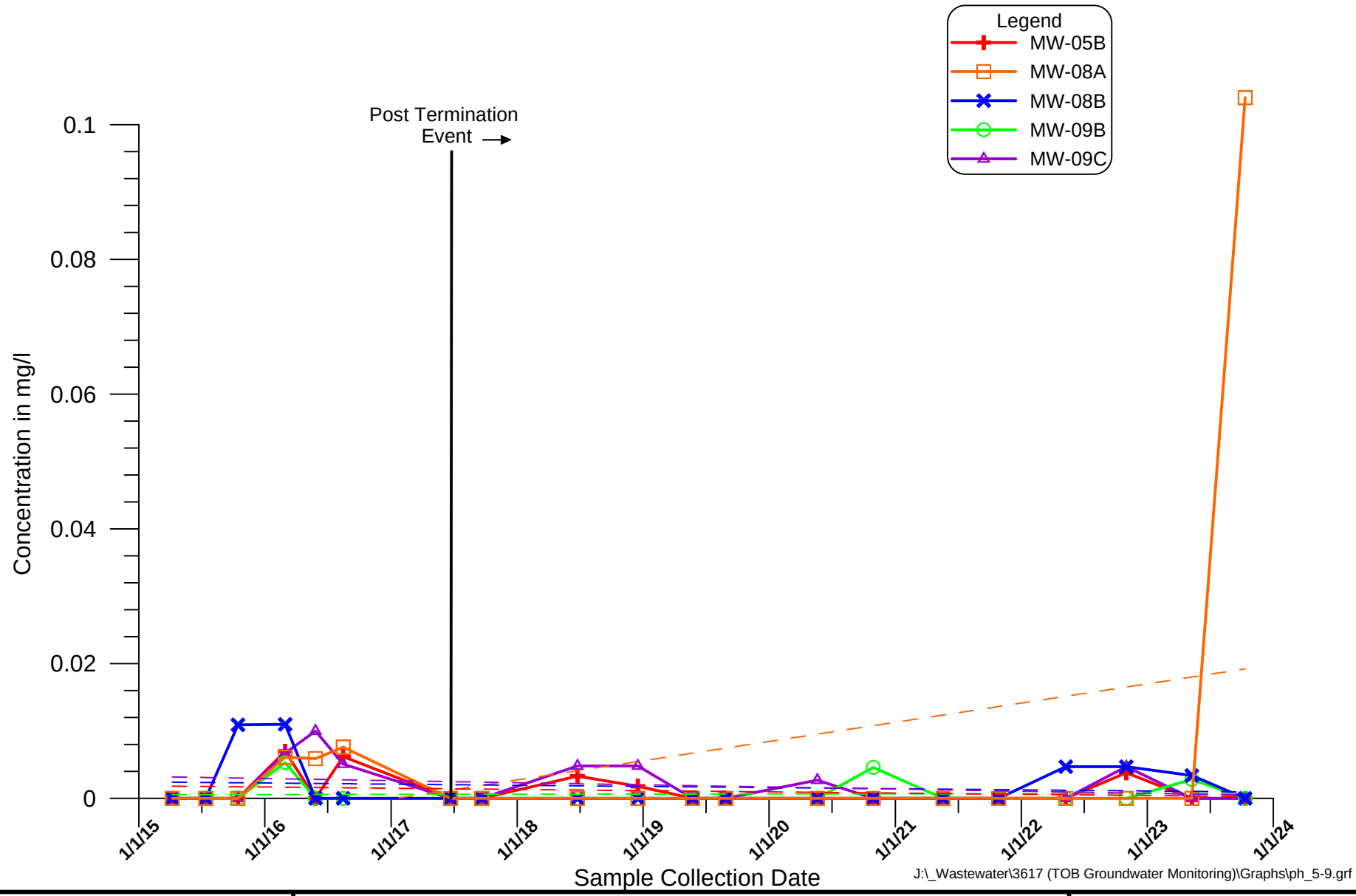
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Chloride
Data for Wells LF-1, LF-2 & OBS-1

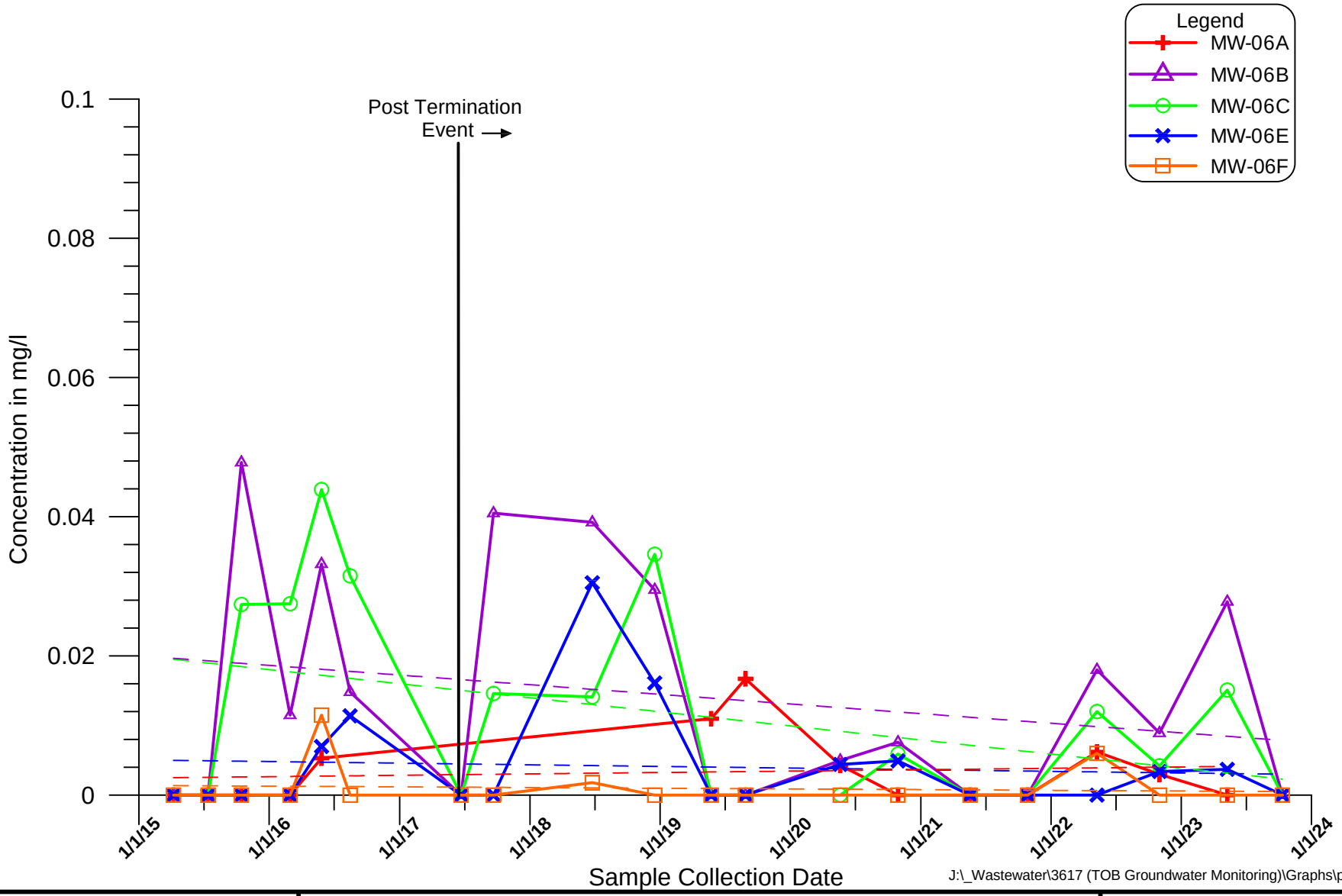
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Phenolics
Data for Monitoring Wells 5, 8, & 9

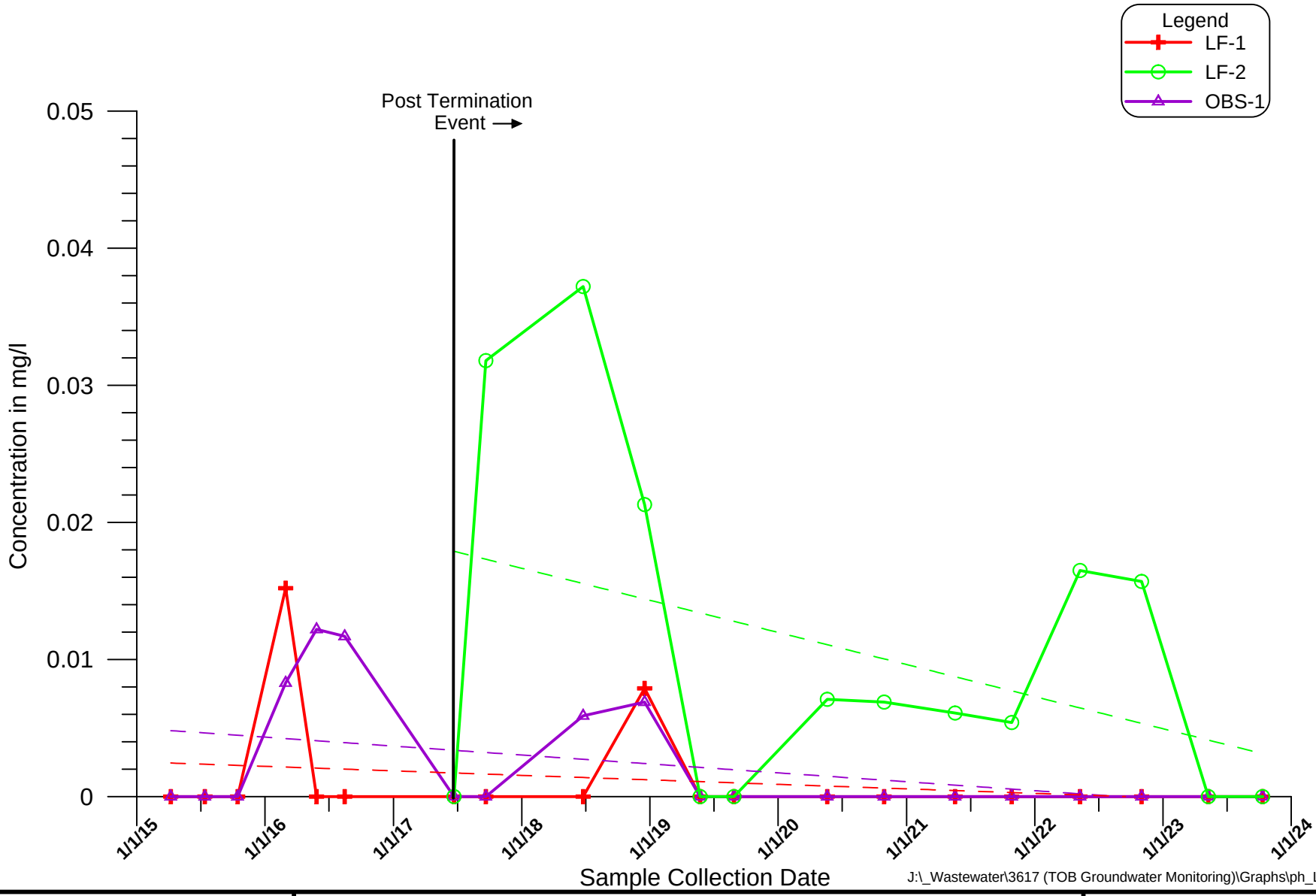
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Phenolics
Data for Monitoring Well Cluster 6

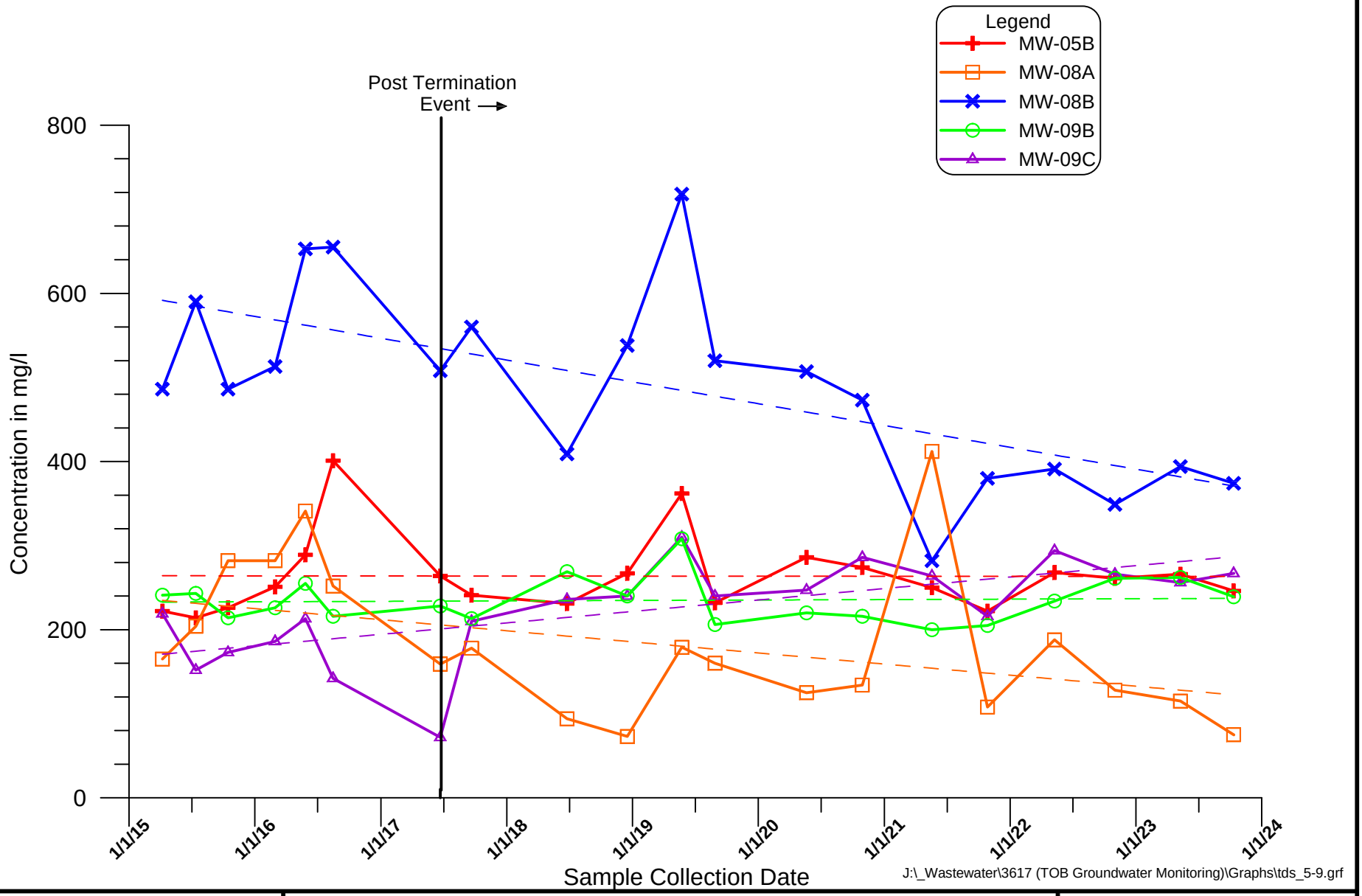
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Phenolics
Data for Wells LF-1, LF-2 & OBS-1

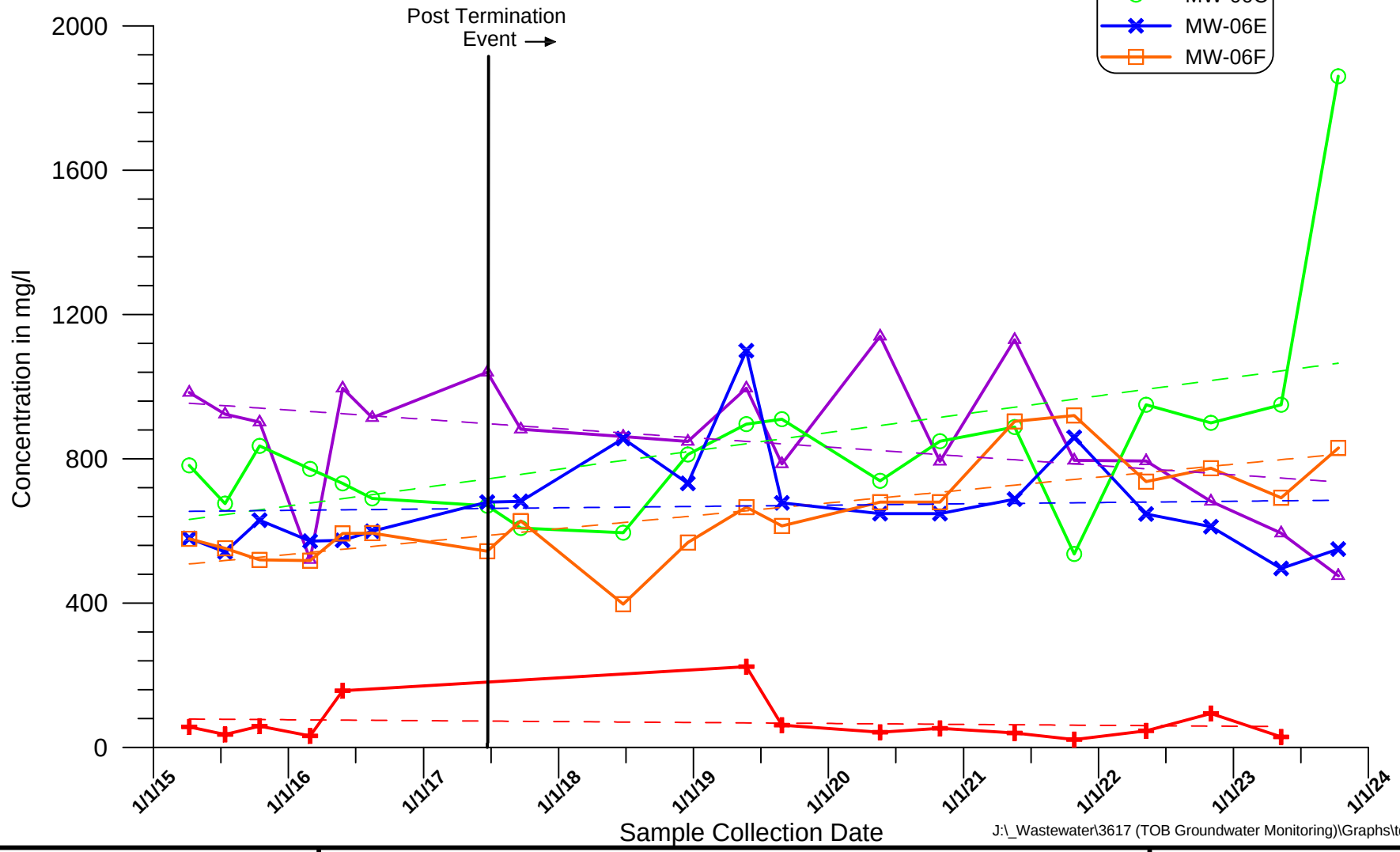
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Total Dissolved Solids
Data for Monitoring Wells 5, 8, & 9

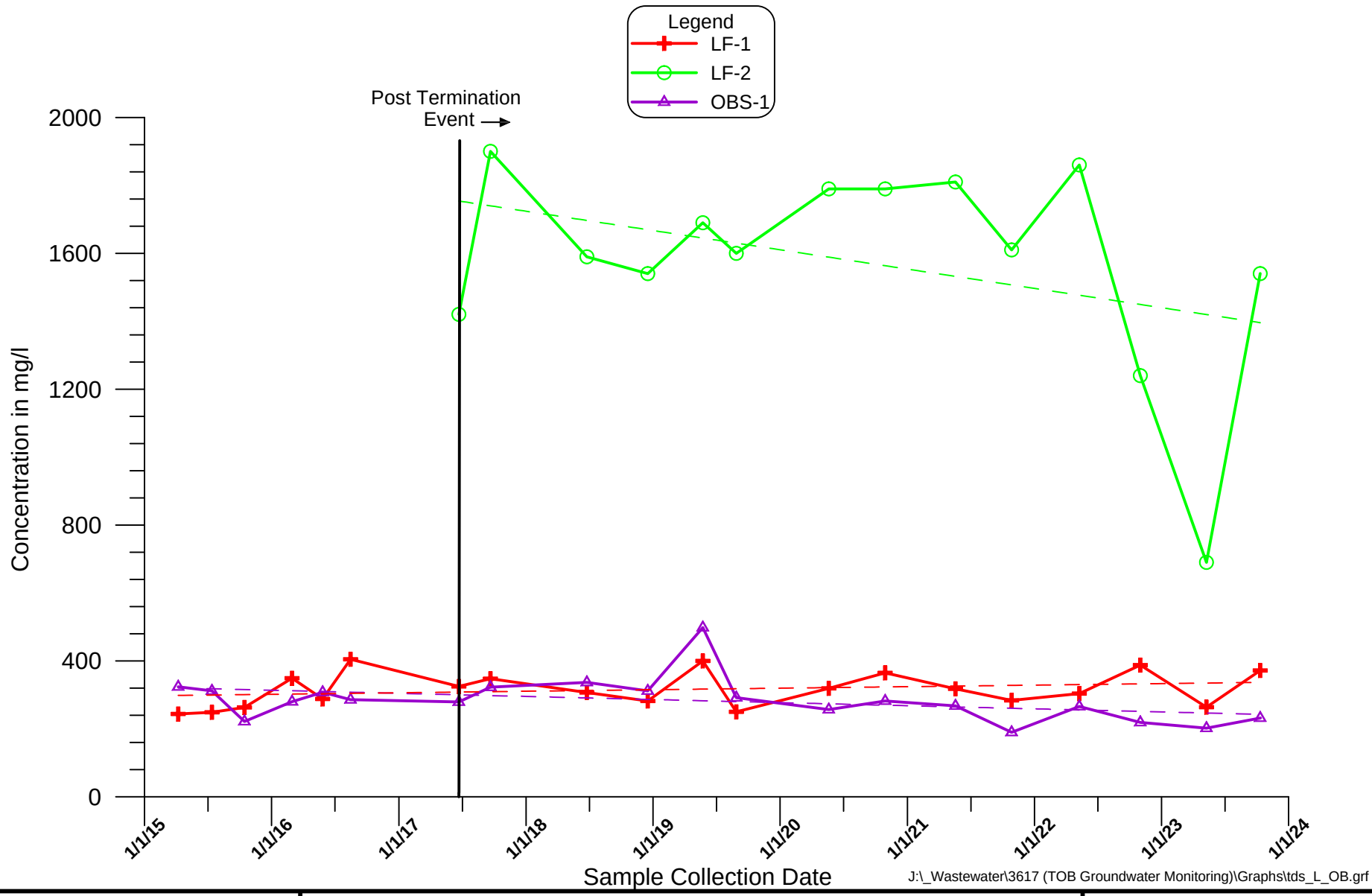
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Total Dissolved Solids
Data for Monitoring Well Cluster 6

Figure
E



D&B ENGINEERS AND ARCHITECTS

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

Units in ug/l	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
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 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

D&B Engineers and Architects, P.C.

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 06/22/2017 Total	LF-1 06/22/2017 Dissolved	LF-2 06/20/2017 Total	LF-2 06/20/2017 Dissolved	MW-5B 06/20/2017 Total	MW-5B 06/20/2017 Dissolved	MW-6B 06/21/2017 Total	MW-6B 06/21/2017 Dissolved	MW-6C 06/21/2017 Total	MW-6C 06/21/2017 Dissolved	MW-6E 06/21/2017 Total	MW-6E 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	MW-6F	MW-6F	MW-8A	MW-8A	MW-8B	MW-8B	MW-9B	MW-9B	MW-9C	MW-9C	OBS-1	OBS-1
	Sample Date	06/21/2017	06/21/2017	06/22/2017	06/22/2017	06/22/2017	06/22/2017	06/20/2017	06/20/2017	06/20/2017	06/20/2017	06/20/2017	06/20/2017
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
METALS	NYSDEC Class GA Standard or Guidance Value												
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

Units in mg/l	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
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

Units in ug/l	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
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

D&B ENGINEERS AND ARCHITECTS, P.C.

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 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
METALS	NYSDEC Class GA Standard or Guidance Value												
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

Units in ug/l	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
METALS	NYSDEC Class GA Standard or Guidance Value												
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

Units in mg/l	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
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 UBJ	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 UBJ	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	Slty. Cloudy, Moderate Odor	Slty. 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	Slty. Cloudy, Moderate Sulfur Odor	Slty. 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

Units in ug/l	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 05/22/19	OBS-1 05/22/19
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	1.6	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

D&B ENGINEERS AND ARCHITECTS, P.C.

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 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
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***	***61.3***	***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		MW-6E	MW-6F	MW-6F	MW-8A	MW-8A	MW-8B	MW-8B	MW-9B	MW-9B	MW-9C	MW-9C	OBS-1	OBS-1
Sample Date		05/23/19	05/23/19	05/23/19	05/22/19	05/22/19	05/22/19	05/22/19	05/22/19	05/22/19	05/22/19	05/22/19	05/22/19	05/22/19
Type:		Dissolved	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	--	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 #	***467***	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 / Units in mg/l	NYSDEC Class GA Standard or Guidance Value	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 05/22/19
LEACHATE INDICATORS													
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	***294***	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***	***66.5***	***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

Units in mg/l	Sample ID / Sample Date	OBS-1 05/22/19
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

Units in ug/l	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
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

D&B ENGINEERS AND ARCHITECTS, P.C.

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

Units in ug/l 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
VOLATILE COMPOUNDS	NYSDEC Class GA Standard or Guidance Value					
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U
1,1-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

Units in ug/l	Sample ID	MW-06E		MW-06F		MW-08A		MW-08B		MW-09B		MW-09C	
	Sample Date	08/27/19		08/27/19		08/26/19		08/26/19		08/26/19		08/26/19	
	Type:	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***	***62600***	***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

Units in ug/l Sample ID Sample Date Type:		OBS-1 08/26/19 Total	OBS-1 08/26/19 Dissolved
METALS	NYSDEC Class GA Standard or Guidance Value		
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

Units in mg/l	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-08A 08/26/19	MW-08B 08/26/19
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	***291***	***339***	***315***	58.6	***280***
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	***119***	***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

Units in mg/l	Sample ID Sample Date	MW-09B 08/26/19	MW-09C 08/26/19	OBS-1 08/26/19
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

Units in ug/l	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
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

D&B ENGINEERS AND ARCHITECTS, P.C.

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	LF-1	LF-1	LF-2	LF-2	MW_05B	MW_05B	MW_06A	MW_06A	MW_06B	MW_06B	MW_06C	MW_06C	MW_06E
	Sample Date	5/20/20	5/20/20	5/20/20	5/20/20	5/18/20	5/18/20	5/19/20	5/19/20	5/19/20	5/19/20	5/19/20	5/19/20	5/19/20
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total
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

D&B Engineers and Architects, P.C.

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

Sample ID		MW_06E	MW_06F	MW_06F	MW_08A	MW_08A	MW_08B	MW_08B	MW_09B	MW_09B	MW_09C	MW_09C	OBS_1	OBS_1
Sample Date		5/19/20	5/19/20	5/19/20	5/18/20	5/18/20	5/18/20	5/18/20	5/18/20	5/18/20	5/18/20	5/18/20	5/18/20	5/18/20
Type:		Dissolved	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	--	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

D&B Engineers and Architects, P.C.

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

Units in mg/l	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
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	

D&B ENGINEERS AND ARCHITECTS, P.C.

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

Units in ug/l	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
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	2.1	1 U	1 U	2.8	1.5	1.2	1 U	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	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	1.7	1 U	1 U	4.5	2.9	1.5	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	***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	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	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	***5.5***	1 U	1 U	1.7	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	***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	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	1.7	1.1	1 U	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	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	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

D&B ENGINEERS AND ARCHITECTS, P.C.

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 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
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

D&B ENGINEERS AND ARCHITECTS, P.C.

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

Sample ID		MW-06F	MW-06F	MW-08A	MW-08A	MW-08B	MW-08B	MW-09B	MW-09B	MW-09C	MW-09C	OBS-1	OBS-1
Sample Date		10/28/20	10/28/20	10/27/20	10/27/20	10/27/20	10/27/20	10/27/20	10/27/20	10/27/20	10/27/20	10/27/20	10/27/20
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	--	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

D&B ENGINEERS AND ARCHITECTS, P.C.

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

Sample ID Sample Date Units in mg/l		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
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	

D&B ENGINEERS AND ARCHITECTS, P.C.

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

Units in ug/l	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
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	***3.1***	1 U	1 U	***4.9***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	***4.5***	1 U	1 U	***5.7***	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	***13.4***	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	***21.9***	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	***12.9***	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	***7.5***	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	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

D&B ENGINEERS AND ARCHITECTS

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

Sample ID Sample Date Type: Units in ug/l		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
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		MW-06E	MW-06F	MW-06F	MW-08A	MW-08A	MW-08B	MW-08B	MW-09B	MW-09B	MW-09C	MW-09C	OBS-1	OBS-1
Sample Date		5/18/21	5/18/21	5/18/21	5/17/21	5/17/21	5/17/21	5/17/21	5/17/21	5/17/21	5/17/21	5/17/21	5/17/21	5/17/21
Type:		Dissolved	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	--	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 / Units in mg/l	NYSDEC Class GA Standard or Guidance Value	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
LEACHATE INDICATORS														
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

Units in ug/l	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
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

D&B ENGINEERS AND ARCHITECTS

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

Sample ID		LF-1	LF-1	LF-2	LF-2	MW-05B	MW-05B	MW-06A	MW-06A	MW-06B	MW-06B	MW-06C	MW-06C	MW-06E
Sample Date		10/29/21	10/29/21	10/29/21	10/29/21	10/25/21	10/25/21	10/28/21	10/28/21	10/28/21	10/28/21	10/27/21	10/27/21	10/27/21
Type:		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	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

D&B ENGINEERS AND ARCHITECTS

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

Sample ID		MW-06E	MW-06F	MW-06F	MW-08A	MW-08A	MW-08B	MW-08B	MW-09B	MW-09B	MW-09C	MW-09C	OBS-1	OBS-1
Sample Date		10/27/21	10/27/21	10/27/21	10/25/21	10/25/21	10/25/21	10/25/21	10/25/21	10/25/21	10/25/21	10/25/21	10/25/21	10/25/21
Type:		Dissolved	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	--	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	

D&B ENGINEERS AND ARCHITECTS

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

Sample ID Sample Date Units in mg/l		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
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

D&B ENGINEERS AND ARCHITECTS

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

Units in ug/l	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
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	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

D&B ENGINEERS AND ARCHITECTS

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 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
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 UBJ	***515000***	587000 UBJ	***57000***	60300 UB	6310	8160 UBJ	***195000***	247000 UBJ	***263000***	200000 UBJ	***167000***	197000 UBJ
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

D&B ENGINEERS AND ARCHITECTS

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

Sample ID		MW-06F	MW-06F	MW-08A	MW-08A	MW-08B	MW-08B	MW-09B	MW-09B	MW-09C	MW-09C	OBS-1	OBS-1
Sample Date		5/11/22	5/11/22	5/10/22	5/10/22	5/10/22	5/10/22	5/5/22	5/5/22	5/5/22	5/5/22	5/5/22	5/5/22
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	--	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 UBJ	***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 Units in mg/l		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
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 U	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

Units in ug/l	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
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	***3.8***	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	***2.1***	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	***17.4***	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	1.1	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	***6.6***	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	***7.0***	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	***8.4***	1 U	1 U	***7.7***	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

D&B ENGINEERS AND ARCHITECTS

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	LF-1	LF-1	LF-2	LF-2	MW-05B	MW-05B	MW-06A	MW-06A	MW-06B	MW-06B	MW-06C	MW-06C	MW-06E	MW-06E
	Sample Date	11/1/22	11/1/22	10/28/22	10/28/22	10/27/22	10/27/22	10/31/22	10/31/22	11/1/22	11/1/22	10/31/22	10/31/22	11/1/22	11/1/22
	Type:	Total	Dissolved	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	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

Units in ug/l	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
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

Units in mg/l	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
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

D&B ENGINEERS AND ARCHITECTS

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

Units in ug/l	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
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

D&B ENGINEERS AND ARCHITECTS

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

Sample ID		LF-1	LF-1	LF-2	LF-2	MW-05B	MW-05B	MW-06A	MW-06A	MW-06B	MW-06B	MW-06C	MW-06C	MW-06E	MW-06E
Sample Date		5/10/23	5/10/23	5/10/23	5/10/23	5/1/23	5/1/23	5/9/23	5/9/23	5/5/23	5/5/23	5/9/23	5/9/23	5/9/23	5/9/23
Type:		Total	Dissolved	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	--	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

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

Sample ID		MW-06F	MW-06F	MW-08A	MW-08A	MW-08B	MW-08B	MW-09B	MW-09B	MW-09C	MW-09C	OBS-1	OBS-1
Sample Date		5/9/23	5/9/23	5/5/23	5/5/23	5/5/23	5/5/23	5/1/23	5/1/23	5/1/23	5/1/23	5/1/23	5/1/23
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	--	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

Units in mg/l	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
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

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