D&B ENGINEERS AND ARCHITECTS

DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

Old Bethpage Landfill

Post-Termination Groundwater Monitoring Program

First Semiannual Report of 2022

July 2022

D&B ENGINEERS AND ARCHITECTS

FIRST SEMIANNUAL REPORT OF 2022

OLD BETHPAGE LANDFILL
POST-TERMINATION GROUNDWATER MONITORING PROGRAM

Prepared for:

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

Prepared by:

D&B ENGINEERS AND ARCHITECTS
WOODBURY, NEW YORK

JULY 2022

FIRST SEMIANNUAL REPORT OF 2022
OLD BETHPAGE LANDFILL
POST-TERMINATION GROUNDWATER MONITORING PROGRAM

TABLE OF CONTENTS

List of Appendices

List of Figures

List of Tables

1.0 INTRODUCTION

This First Semiannual Report of 2022 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 operational termination of the recovery wells RW-1 and RW-2.

Note that this report describes the first semiannual groundwater sampling event of 2022 and is the eleventh sampling round and report completed under the Post-Termination Groundwater Monitoring Program. In an October 7, 2016 letter, the NYSDEC approved the operational termination 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 if the termination criteria described in Appendix A, Section III of the Consent Decree has been met. The findings of this report indicated that the termination criteria has 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 eleventh sampling round will serve as a continuation of the Post Termination Monitoring period.

2.0 COMPLETED SCOPE OF WORK

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

2.1 Groundwater Sampling Procedures

In accordance with the October 7, 2016 letter from the NYSDEC, monitoring wells LF-1, LF-2, MW-05B, MW-06A, MW-06B, MW-06C, MW-06E, MW-06F, MW-08A, MW-08B, MW-09B, MW-09C and OBS-1 were sampled on May 5, 10, 11 and 12, 2022 as part of the first semiannual groundwater sampling event of 2022. The locations of these monitoring wells are depicted on **Figure 1**.

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

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

After well purging was complete, the flow rate was 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 four trip blanks. The chain of custody forms are provided in **Appendix B**.

2.2 Sample Analyses

Groundwater samples collected during the first semiannual groundwater sampling event of 2022 from the monitoring wells were analyzed for VOCs, total and dissolved metals, and leachate indicators. Laboratory analyses were performed by Pace Analytical Laboratories, located in Melville, New York (Pace Analytical). This laboratory is approved under the New York State Department of Health Environmental Laboratory Approval Program (ELAP) for the analyses performed. Filtering of the samples for dissolved metals analysis was performed in the field using in-line 0.45-micron disposable filters.

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

3.0 DISCUSSION OF RESULTS

3.1 Data Validation

Thirteen groundwater samples, one field duplicate, one field blank and four trip blanks were collected as part of the first semiannual groundwater sampling event of 2022 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 70213830.

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:

- Chloroform was detected in the field blank and was qualified as non-detect (UB) in samples MW-06A and MW-06F.

- The following metals were detected in the FIELD BLANK and qualified as non-detect (UB): total iron in sample OBS-1; dissolved barium in samples OBS-1, MW-09B, MW-09C, MW-05B, MW-08B, MW-08A, BLIND DUPLICATE, MW-06C, MW-06B, MW-06A, LF-2, and LF-1; dissolved copper in sample MW-06C; dissolved iron in samples OBS-1, MW-09C, MW-06F, and MW-06A; dissolved manganese in samples MW-06A, MW-06B, MW-06C, MW-06F, MW-08A, MW-06E, MW-09C, MW-08B, BLIND DUPLICATE, and LF-2; dissolved potassium in samples MW-05B, MW-06A, MW-06E, MW-06F, MW-08A, MW-08B, MW-09B, MW-09C, BLIND DUPLICATE, OBS-1, and LF-1; and dissolved calcium, nickel, sodium, and magnesium in all samples.

- The percent recovery (%R) was above the quality control (QC) limit for total potassium in the matrix spike, was detected above the method detection limit, and was qualified as estimated (J) in samples BLIND DUPLICATE and MW-06C.

- The %R was below the QC limit for dissolved sodium in the matrix spike associated with samples MW-06A, MW-06B, MW-06C, MW-06F, MW-06E, LF-1, LF-2, and FIELD BLANK and were qualified as estimated (J/UJ).

- Total and dissolved hexavalent chromium was outside of holding time in samples OBS-1, MW-09B, MW-09C, and MW-06B and was qualified as an estimated detection limit (UJ).

- TKN, sulfate, and nitrate-nitrite were detected in the Field Blank and/or method blank. The following were qualified as non-detect (UB): TKN in samples LF-1, MW-05B, and MW-06A; sulfate in samples LF-2, MW-06B, and MW-06F; and nitrate-nitrite in samples MW-09C and OBS-1.

- The %Rs were below the QC limits in the laboratory spike or matrix spike for alkalinity and carbonate associated with samples MW-08B, MW-08A, BLIND DUPLICATE, MW-06C, FIELD BLANK, MW-06B, MW-06A, MW-06F, LF-1, and MW-06E; for total and dissolved hexavalent chromium associated with samples LF-2, LF-1, and MW-06E; cyanide associated with samples MW-06B, MW-06A, MW-06F, OBS-1, MW-09B, MW-09C, and MW-05B; nitrate associated with samples MW-08B, MW-08A, BLIND DUPLICATE, MW-06C, FIELD BLANK, MW-06B, MW-06A, MW-06F, LF-2, LF-1, and MW-06E; and nitrite associated with samples MW-08B and MW-08A. They were qualified as estimated (J/UJ) in the associated samples.

- The %R was above the QC limit in the matrix spike for nitrate-nitrite. Nitrate-nitrite was qualified as estimated (J) in sample MW-09B.

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 first semiannual groundwater sampling event of 2022 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 4 of the 13 groundwater monitoring wells, including LF-1, LF-2, MW-06B and MW-08A. It should be noted that VOCs were not detected for well LF-1 during the three years of required post-termination monitoring. The highest concentration of total VOCs of 26.6 ug/l was detected at LF-1. The sample collected from MW-06B exhibited the next highest total VOCs of 23.6 ug/l, followed in decreasing order by LF-2 and MW-08A. VOCs were detected at concentrations above Class GA groundwater standards and guidance values at wells LF-1, LF-2, MW-06B and MW-08A as follows:

- 1,4-Dichlorobenze was detected at LF-2 and MW-06B at concentrations of 3.2 ug/l and 3.8 ug/l, respectively, slightly above the Class GA standard of 3 ug/l.
- Benzene was detected at LF-2 and MW-06B at concentrations of 2.8 ug/l and 3.6 ug/l, respectively, slightly above the Class GA standard of 1 ug/l.
- Chlorobenzene was detected at MW-06B at a concentration of 12.9 ug/l, above the Class GA standard of 5 ug/l.
- Cis-1,2-dichloroethylene (1,2-DCE) was detected at MW-08A at a concentration of 11.5 ug/l, above the Class GA standard of 5 ug/l.
- Isopropylbenzene was detected at LF-2 at a concentration of 8.6 ug/l, above the Class GA standard of 5 ug/l.
- Tetrachloroethylene (PCE) was detected at MW-08A at a concentration of 6.4 ug/l, slightly above the Class GA standard of 5 ug/l.
- Trichloroethylene (TCE) was detected at LF-1 at a concentration of 22.3 ug/l, above the Class GA standard of 5 ug/l.

3.2.2 Inorganic Parameters

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

- Total iron was detected above the Class GA groundwater standard of 300 ug/l in 5 of the 13 groundwater monitoring wells, with concentrations ranging from 5,420 ug/l at

MW-06C to a maximum of 22,400 ug/l at LF-1. For samples collected from LF-1, LF-2, MW-06B, MW-06C and MW-06E, dissolved iron concentrations were similar to their respective total concentrations.

- Total manganese was detected above the Class GA groundwater standard of 300 ug/l in 7 of the 13 groundwater monitoring wells, with concentrations ranging from 316 ug/l at MW-06E to a maximum of 3,330 ug/l at LF-1. Dissolved manganese concentrations were similar to their respective total concentrations.

- Total mercury was detected above the Class GA groundwater standard of 0.7 ug/l at MW-06F, with a concentration of 1.2 ug/l. Dissolved mercury was not detected in MW-06F.

- Total sodium was detected above the Class GA groundwater standard of 20,000 ug/l in 12 of the 13 groundwater monitoring wells, with concentrations ranging from 24,500 ug/l at MW-08A to a maximum of 515,000 ug/l at LF-2. In general, dissolved sodium concentrations were similar to their respective total concentrations.

3.2.3 Leachate Indicators

Chloride, 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 3 of the 13 groundwater monitoring wells, with concentrations of 277 mg/l at MW-06E, 344 mg/l at MW-06F and 446 mg/l at LF-2.

- 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 3 mg/l at MW-09C to a maximum of 675 mg/l at LF-2.

- Total phenols was detected above the Class GA groundwater standard of 0.001 mg/l in 6 of the 13 groundwater monitoring wells, with concentrations ranging from 0.005 mg/l at well MW-08B to a maximum of 0.018 mg/l at MW-06B.

- Total dissolved solids (TDS) were detected above the Class GA groundwater standard of 500 mg/l in 5 of the 13 groundwater monitoring wells, with concentrations ranging from 647 mg/l at MW-06E to a maximum of 1,860 mg/l at LF-2.

3.3 Historical Groundwater Trends

Since the objective of the Post-Termination monitoring period (2017 through present) is to assess the impacts of ceasing operation of recovery wells RW-1 and RW-2 (well pumps are out of service but the wells remain in place for potential future use), D&B performed an interim trend analysis using the results from the eleven 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, 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

During the Post-Termination period, seven monitoring wells (MW-05B, MW-06A (since May 2019), MW-06F, MW-08B, MW-09B, MW-09C and OBS-1), in general exhibited a fairly stable trend in TVOCs. Monitoring well MW-06E (since June 2018) has exhibited a decreasing trend. Monitoring well MW-06C has exhibited a marginal increase in TVOCs. Well LF-1 exhibited a marked increase in TCE in 2021 and in 2022. This increase is not likely landfill related and may be the result of prior discharge of partially-treated Claremont plume water to recharge basin RB-1. Monitoring wells MW-06B, MW-08A and LF-2 have shown a more apparent increasing trend in TVOCs. It should be noted, the increasing VOC trend in MW-08A is 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:

- Wells MW-06C and LF-2 show slight increasing trends in manganese concentrations.
- Well MW-06F shows an increasing trend in sodium concentrations.
- Wells LF-1 and LF-2 show slight increasing trends in iron concentrations.

It should be noted that manganese and sodium are naturally occurring in the groundwater aquifers on Long Island and the concentrations detected in the monitoring wells downgradient of the Landfill do 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:

- Wells MW-06F and LF-2 show increasing trends in total dissolved solids.
- The ammonia concentration in LF-2 during the May 2022 sampling event, exhibited a significant increase when compared to previous sampling events.

4.0 CONCLUSIONS

The following conclusions are made based on the above information:

- Overall, the results of the first semiannual 2022 sampling event (eleventh 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 (e.g., select VOCs, metals and leachate parameters) continue to be evident in wells LF-1 (excluding TCE in well LF-1 in 2021 and 2022, since TCE has historically not been associated with the landfill VOC plume) and LF-2, located adjacent to and downgradient of the landfill, as well as wells MW-06B, MW-06C and MW-06E located in a cluster further downgradient of the landfill. The remaining wells that were sampled continue to exhibit no or only minor landfill-related impacts.

- 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 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 well cluster 6 which has historically exhibited the most landfill-related impacts of the monitoring wells is also located downgradient of the older, unlined portion of the landfill. Wells MW-06B, MW-06C and MW-06E, which show the most impacts are screened at depths that most likely intercept the off-site landfill plume.

- It is noted in the trend analysis that certain parameters exhibit a degree of variability, including short term increases of VOCs in a few wells, which could possibly be related to the ongoing operation of the other three recovery wells (RW-3, RW-4 and RW-5), which are still operating full-time, as well as temporal variations in aquifer recharge.

- With respect to landfill-related VOCs, detections were limited to low concentrations of five aromatic hydrocarbons which included: benzene, 1,4-dichlorobenzene, chlorobenzene, isopropylbenzene and total xylenes. One or more of these VOCs were detected in wells LF-2 and MW-06B. Four of the five aromatic hydrocarbons, with exception total xylenes, slightly exceeded their individual Class GA groundwater standard in one or more of these wells.

- Regarding chlorinated solvents, slightly elevated concentrations, above their respective groundwater standards for cis-1,2-DCE and PCE, were detected in 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. In addition, low concentrations of TCE (below the groundwater standard) were also detected in well MW-08A and above the groundwater standard in well LF-1. However, the low concentration of TCE detected in well MW-08A is also most likely associated with residual contamination from the former Claremont Polychemical Site. Furthermore, TCE detected in well LF-1 in 2022 is most likely due to recharge of partially treated water in Basin RB-1. There was reportedly a period of time when the TCE levels in the Claremont/Former American Louver (FAL) sites plume spiked and could not completely be remediated by the air stripper. It is understood that similar levels of TCE were detected in monitoring well MW-6A (downgradient of Winding Road Basin) during that period.

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

M-29A-R

M-30A

M-30B-R

M-29B

FORMER CLAREMENT 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

WINDING ROAD

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

D&B ENGINEERS AND ARCHITECTS

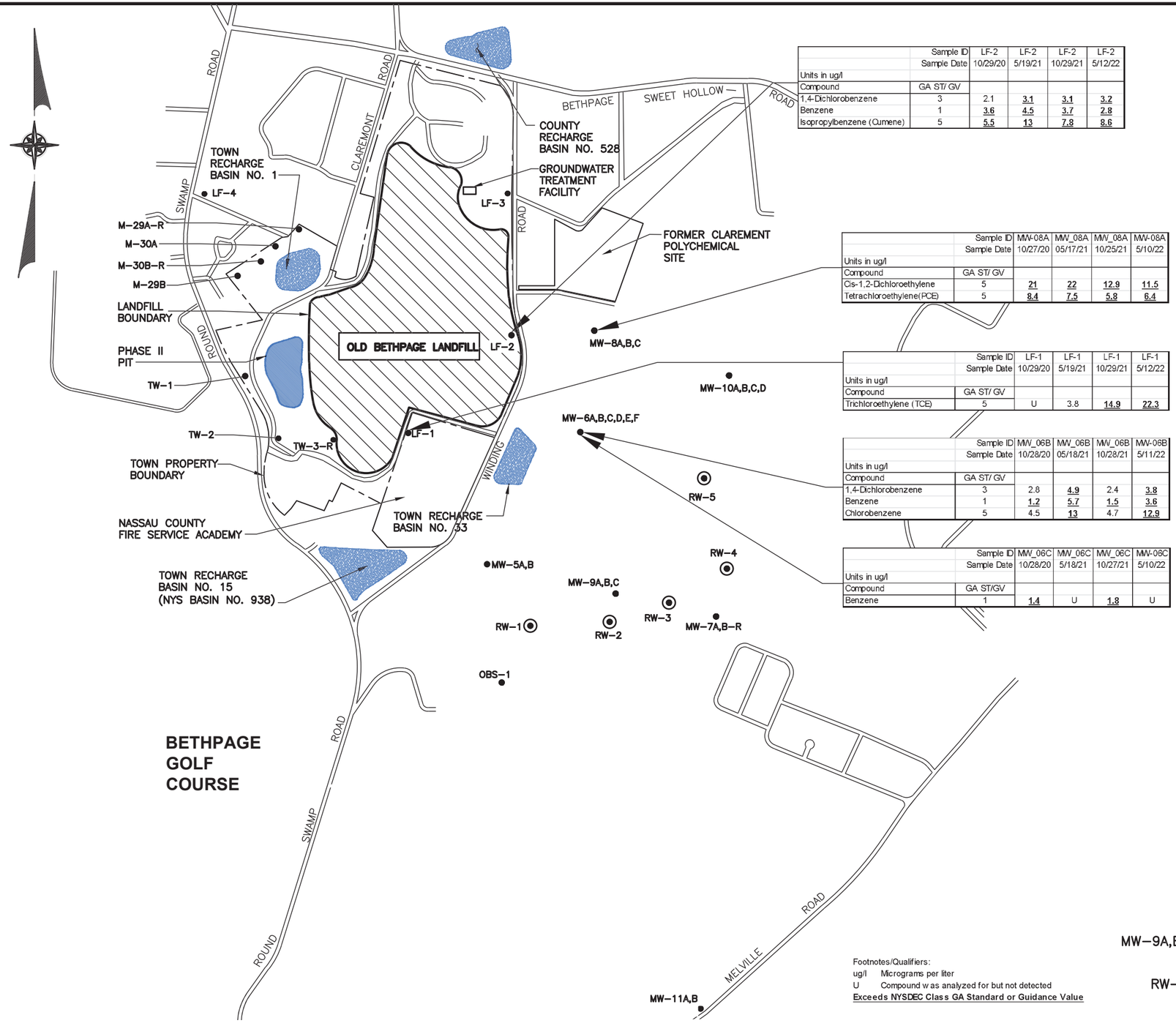
OLD BETHPAGE LANDFILL
TOWN OF OYSTER BAY, NEW YORK

GROUNDWATER MONITORING WELL LOCATION MAP

SCALE: 1"=800'

FIGURE 1

J:_Wastewater\3617 (TOB Groundwater Monitoring)\2017\Landfill Sampling 1Q 2017\3617-C-well location map fig 1.dwg, Layout1, 6/18/2021 12:04:11 PM, rferrell



	Sample ID	LF-2	LF-2	LF-2	LF-2
	Sample Date	10/29/20	5/19/21	10/29/21	5/12/22
Units in ug/l					
Compound	GA ST/ GV				
1,4-Dichlorobenzene	3	2.1	**3.1**	**3.1**	**3.2**
Benzene	1	**3.6**	**4.5**	**3.7**	**2.8**
Isopropylbenzene (Cumene)	5	**5.5**	**13**	**7.8**	**8.6**

	Sample ID	MW-08A	MW_08A	MW_08A	MW-08A
	Sample Date	10/27/20	05/17/21	10/25/21	5/10/22
Units in ug/l					
Compound	GA ST/ GV				
Cis-1,2-Dichloroethylene	5	**21**	**22**	**12.9**	**11.5**
Tetrachloroethylene(PCE)	5	**8.4**	**7.5**	**5.8**	**6.4**

	Sample ID	LF-1	LF-1	LF-1	LF-1
	Sample Date	10/29/20	5/19/21	10/29/21	5/12/22
Units in ug/l					
Compound	GA ST/ GV				
Trichloroethylene (TCE)	5	U	3.8	**14.9**	**22.3**

	Sample ID	MW_06B	MW_06B	MW_06B	MW-06B
	Sample Date	10/28/20	05/18/21	10/28/21	5/11/22
Units in ug/l					
Compound	GA ST/ GV				
1,4-Dichlorobenzene	3	2.8	**4.9**	2.4	**3.8**
Benzene	1	**1.2**	**5.7**	**1.5**	**3.6**
Chlorobenzene	5	4.5	**13**	4.7	**12.9**

	Sample ID	MW_06C	MW_06C	MW_06C	MW-06C
	Sample Date	10/28/20	5/18/21	10/27/21	5/10/22
Units in ug/l					
Compound	GA ST/GV				
Benzene	1	**1.4**	U	**1.8**	U

NOTE:

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

Footnotes/Qualifiers:
ug/l Micrograms per liter
U Compound w as analyzed for but not detected
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

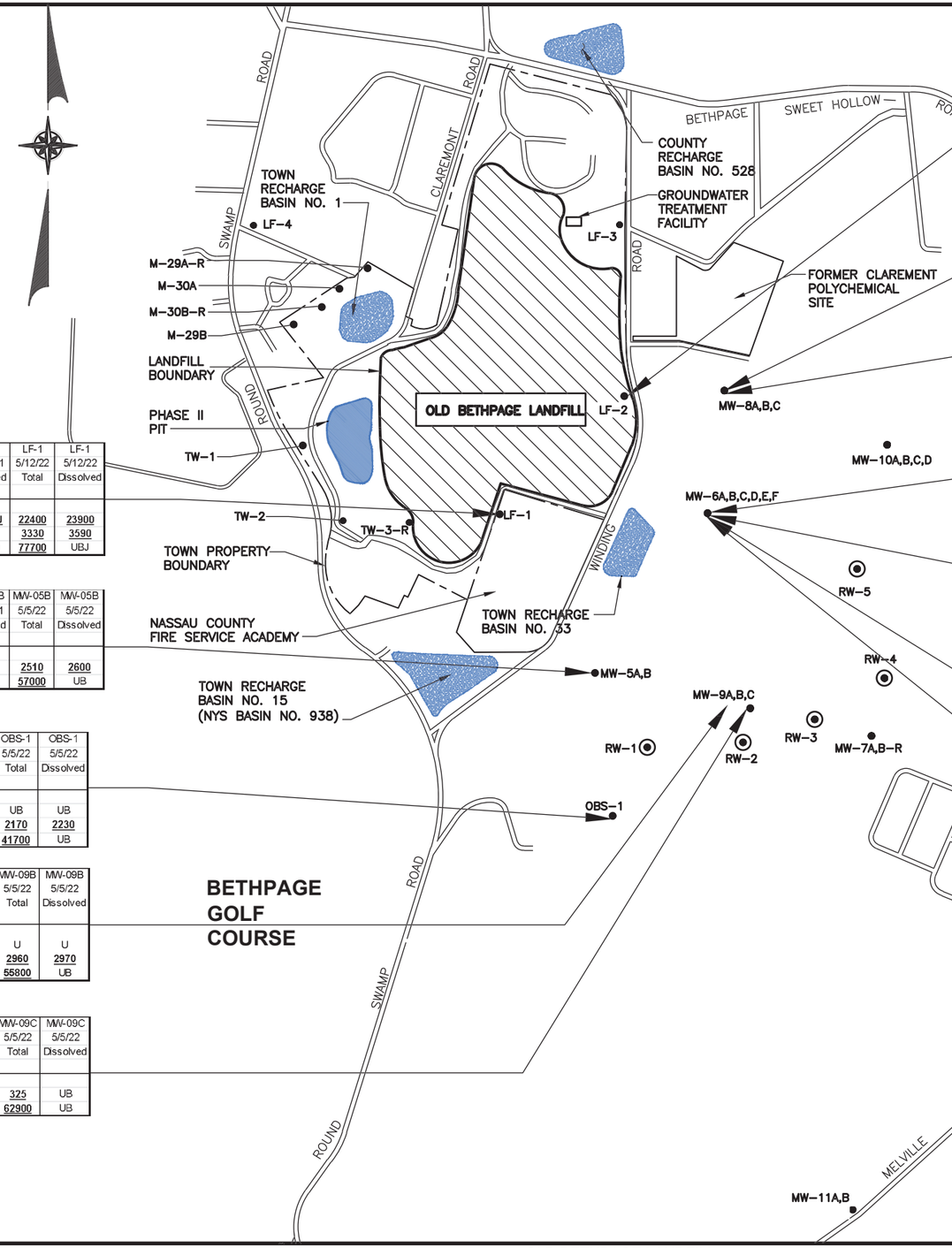
D&B ENGINEERS AND ARCHITECTS

OLD BETHPAGE LANDFILL
TOWN OF OYSTER BAY, NEW YORK
VOLATILE ORGANIC COMPOUND CONCENTRATIONS DETECTED ABOVE GROUNDWATER QUALITY STANDARDS/GUIDANCE VALUES, 2020 - 2022

SCALE: 1"=900'

FIGURE 2

F:\3617\dwg\3617-C-PL04.dwg, VOCs, 7/29/2022 2:38:10 PM, DBCadd



	Sample ID	LF-1	LF-1	LF-1	LF-1	LF-1	LF-1	LF-1	LF-1
	Sample Date	10/29/20	10/29/20	5/19/21	5/19/21	10/29/21	10/29/21	5/12/22	5/12/22
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Iron	300 #	**19700**	**2290**	**19900**	**20200**	**23100**	**19600 J**	**22400**	**23900**
Manganese	300 #	**3050**	**2950**	**3000**	**2980**	**3480**	**3190**	**3330**	**3590**
Sodium	20000	**60100**	**58400**	**62400**	**59100 J**	**69000**	**65300**	**77700**	UBJ

	Sample ID	MW_05B	MW_05B	MW_05B	MW_05B	MW_05B	MW_05B	MW-05B	MW-05B
	Sample Date	10/27/20	10/27/20	5/17/21	5/17/21	10/25/21	10/25/21	5/5/22	5/5/22
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Manganese	300	**3250**	**3310**	**3100 J**	**3140 J**	**3200**	**2990**	**2510**	**2600**
Sodium	20000	**64900**	**70200**	**57300 J**	**55800 J**	**59400**	**56900**	**57000**	UB

	Sample ID	OBS_1	OBS_1	OBS-1	OBS-1	OBS-1	OBS-1	OBS-1	OBS-1
	Sample Date	10/27/20	10/27/20	5/17/21	5/17/21	10/25/21	10/25/21	5/5/22	5/5/22
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Iron	300 #	UB	**30**	**31.9 J**	UB	U	U	UB	UB
Manganese	300 #	**2520**	**2710**	**2230**	**2300**	**2350**	**2140**	**2170**	**2230**
Sodium	20000	**53900**	**60500**	**47700**	**46500**	**51400**	**47500**	**41700**	UB

	Sample ID	MW_09B	MW_09B	MW-09B	MW-09B	MW-09B	MW-09B	MW-09B	MW-09B
	Sample Date	10/27/20	10/27/20	5/17/21	5/17/21	10/25/21	10/25/21	5/5/22	5/5/22
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Iron	300 #	UB	U	**147**	**77.6**	U	U	U	U
Manganese	300 #	**3010**	**3200**	**2060**	**2190**	**3170**	**2720**	**2960**	**2970**
Sodium	20000	**46400**	**52200**	**45100**	**45000**	**50400**	**46200**	**55800**	UB

	Sample ID	MW_09C	MW_09C	MW_09C	MW_09C	MW_09C	MW_09C	MW-09C	MW-09C
	Sample Date	10/27/20	10/27/20	5/17/21	5/17/21	10/25/21	10/25/21	5/5/22	5/5/22
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Manganese	300	215	229	252	262	**307**	280	**325**	UB
Sodium	20000	**62800**	**70100**	**60800**	**60200**	**65400**	**60100**	**62900**	UB

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	10/29/20	10/29/20	5/19/21	5/19/21	10/29/21	10/29/21	5/12/22	5/12/22
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Iron	300 #	**9810**	**4920**	**10500**	**10400**	**11200**	**10700 J**	**11300**	**12100**
Manganese	300 #	**177**	**171**	**175**	**176**	**188**	**182**	**175**	UB
Sodium	20000	**454000**	**434000**	**466000**	**441000 J**	**502000**	**489000**	**515000**	UBJ

	Sample ID	MW_08A	MW_08A	MW_08A	MW_08A	MW_08A	MW_08A	MW-08A	MW-08A
	Sample Date	10/27/20	10/27/20	05/17/21	05/17/21	10/25/21	10/25/21	5/10/22	5/10/22
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Manganese	300	91.8	U	**708**	**727**	133	119	126	UB
Mercury	0.7	UB	U	U	U	UJ	**2.5 J**	U	U
Sodium	20000	**21800**	**26400**	**118000**	**115000**	**22900**	**21700**	**24500**	UB

	Sample ID	MW_08B	MW_08B	MW_08B	MW_08B	MW_08B	MW_08B	MW-08B	MW-08B
	Sample Date	10/27/20	10/27/20	05/17/21	05/17/21	10/25/21	10/25/21	5/10/22	5/10/22
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Manganese	300	**851**	**872**	**3110**	**3230**	**656**	**612**	**579**	UB
Sodium	20000	**136000**	**147000**	**57400**	**57300**	**121000**	**113000**	**101000**	UB

	Sample ID	MW_06B	MW_06B	MW_06B	MW_06B	MW_06B	MW_06B	MW-06B	MW-06B
	Sample Date	10/28/20	10/28/20	5/18/21	5/18/21	10/28/21	10/28/21	5/11/22	5/11/22
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Iron	300 #	**8870**	**9350**	**13600**	**14000**	**7090**	**6870 J**	**14200**	**16100**
Manganese	300 #	**40.5**	**41.8**	**49.2**	**49.4**	**24.7**	**25.9**	**43.2**	UB
Sodium	20000	**215000**	**237000**	**245000**	**238000 J**	**219000**	**215000**	**195000**	UBJ

	Sample ID	MW_06C	MW_06C	MW_06C	MW_06C	MW_06C	MW_06C	MW-06C	MW-06C
	Sample Date	10/28/20	10/28/20	5/18/21	5/18/21	10/27/21	10/27/21	5/10/22	5/10/22
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Iron	300 #	**3780**	**4160**	**5640**	**4970**	**8870**	**8030 J**	**5420**	**3940**
Manganese	300 #	**76.4**	**84.7**	**156**	**153**	**264**	**246**	**186**	UB
Sodium	20000	**219000**	**248000**	**237000**	**223000J**	**157000**	**149000 J**	**263000**	UBJ

	Sample ID	MW_06E	MW_06E	MW_06E	MW_06E	MW_06E	MW_06E	MW-06E	MW-06E
	Sample Date	10/28/20	10/28/20	5/18/21	5/18/21	10/27/21	10/27/21	5/12/22	5/12/22
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Iron	300 #	**121000**	**124000**	**5250**	**5190**	U	U	**7860**	**8390**
Manganese	300 #	**309**	**316**	**328**	**330**	143	133	**316**	UB
Sodium	20000	**157000**	**166000**	**163000**	**156000 J**	**185000**	**178000**	**167000**	UBJ

	Sample ID	MW_06F	MW_06F	MW_06F	MW_06F	MW_06F	MW_06F	MW-06F	MW-06F
	Sample Date	10/28/20	10/28/20	05/18/21	05/18/21	10/27/21	10/27/21	5/11/22	5/11/22
	Type:	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units in ug/l									
METALS	GA ST/ GV								
Iron	300 #	UB	UB	34 J	UB	**5110**	**4570 J**	160	UB
Manganese	300 #	114	124	130	130	**111**	**102**	145	UB
Mercury	0.7	U	U	U	U	U	U	**1.2**	U
Sodium	20000	**138000**	**155000**	**181000**	**172000 J**	**261000**	**244000**	**181000**	UBJ

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

F:\3617\dwg\3617-C-PL05.dwg, METALS, 7/29/2022 2:39:28 PM, DBCadd

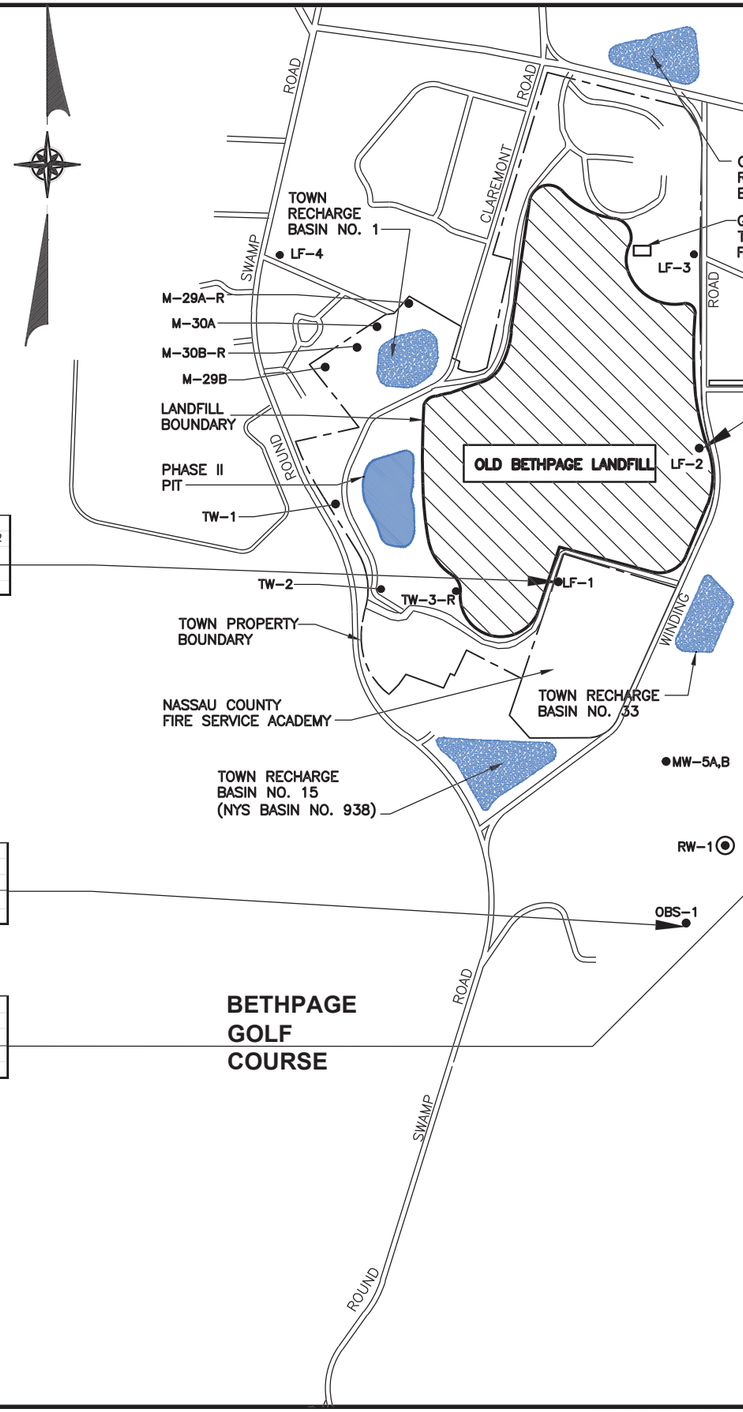
D&B ENGINEERS AND ARCHITECTS

OLD BETHPAGE LANDFILL
TOWN OF OYSTER BAY, NEW YORK

TOTAL AND DISSOLVED METAL CONCENTRATIONS DETECTED ABOVE GROUNDWATER QUALITY STANDARDS/GUIDANCE VALUES, 2020 - 2022

SCALE: 1"=900'

FIGURE 3



	Sample ID	LF-1	LF-1	LF-1	LF-1
	Sample Date	10/29/20	05/19/21	10/29/21	5/12/22
Units in mg/l					
LEACHATE INDICATORS	GA ST/ GV				
Nitrogen, Ammonia	2	**17.3**	**2.8**	**3.8**	0.4

	Sample ID	OBS_1	OBS_1	OBS_1	OBS-1
	Sample Date	10/27/20	05/17/21	10/25/21	5/5/22
Units in mg/l					
LEACHATE INDICATORS	GA ST/ GV				
Nitrogen, Ammonia	2	**16.2**	**17.5**	**16.4**	**12.3**

	Sample ID	MW_09C	MW_09C	MW_09C	MW-09C
	Sample Date	10/27/20	05/17/21	10/25/21	5/5/22
Units in mg/l					
LEACHATE INDICATORS	GA ST/ GV				
Nitrogen, Ammonia	2	1.8	**2.1 J**	**2.4**	**3**

	Sample ID	LF-2	LF-2	LF-2	LF-2
	Sample Date	10/29/20	05/19/21	10/29/21	5/12/22
Units in mg/l					
LEACHATE INDICATORS	GA ST/ GV				
Chloride	250	**460**	**533**	**459 J**	**446**
Nitrogen, Ammonia	2	**170**	**188**	**189**	**675**
Phenolics, Total	0.001	**0.007**	**0.006 J**	**0.005**	**0.0165**
Total Dissolved Solids	500	**1790**	**1810**	**1610**	**1860**

	Sample ID	MW_08B	MW_08B	MW_08B	MW-08B
	Sample Date	10/27/20	05/17/21	10/25/21	5/10/22
Units in mg/l					
LEACHATE INDICATORS	GA ST/ GV				
Chloride	250	**267**	95.3	220	115
Phenolics, Total	0.001	U	U	U	**0.0047 J**

	Sample ID	MW_06A	MW_06A	MW_06A	MW-06A
	Sample Date	10/28/20	05/18/21	10/28/21	5/11/22
Units in mg/l					
LEACHATE INDICATORS	GA ST/ GV				
Phenolics, Total	0.001	U	U	U	**0.0062**

	Sample ID	MW_06B	MW_06B	MW_06B	MW-06B
	Sample Date	10/28/20	5/18/21	10/28/21	5/11/22
Units in mg/l					
LEACHATE INDICATORS	GA ST/ GV				
Chloride	250	230	**256**	241 J	126
Nitrogen, Ammonia	2	**99.3**	**190**	**110**	**165**
Phenolics, Total	0.001	**0.008**	UJ	U	**0.018**
Total Dissolved Solids	500	**793**	**1130**	**796**	**794**

	Sample ID	MW_06C	MW_06C	MW_06C	MW-06C
	Sample Date	10/28/20	5/18/21	10/27/21	5/10/22
Units in mg/l					
LEACHATE INDICATORS	GA ST/ GV				
Chloride	250	248	**267**	231 J	224
Nitrogen, Ammonia	2	**79.5**	**27.2**	**27**	**35.8**
Phenolics, Total	0.001	**0.006**	UJ	U	**0.012**
Total Dissolved Solids	500	**849**	**888**	**536**	**950**

	Sample ID	MW_06E	MW_06E	MW_06E	MW-06E
	Sample Date	10/28/20	5/18/21	10/27/21	5/12/22
Units in mg/l					
LEACHATE INDICATORS	GA ST/ GV				
Chloride	250	**308**	**373**	**461 J**	**277**
Nitrogen, Ammonia	2	**31.1**	**17.1**	0.65	**15.7**
Total Dissolved Solids	500	**648**	**688**	**920**	**647**

	Sample ID	MW_06F	MW_06F	MW_06F	MW-06F
	Sample Date	10/28/20	5/18/21	10/27/21	5/11/22
Units in mg/l					
LEACHATE INDICATORS	GA ST/ GV				
Chloride	250	**358**	**525**	38.6 J	**344**
Phenolics, Total	0.001	U	U	U	**0.006**
Total Dissolved Solids	500	**680**	**904**	**920**	**737**

NOTE:

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

Footnotes/Qualifiers:
- mg/l Milligrams per liter
- U Compound was analyzed for but not detected
- J Estimated detection limit or value
- **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

F:\3617\dwg\3617-C-PL06.dwg, LEACHATE, 7/29/2022 2:40:49 PM, DBCadd

D&B ENGINEERS AND ARCHITECTS

OLD BETHPAGE LANDFILL
TOWN OF OYSTER BAY, NEW YORK

LEACHATE INDICATOR CONCENTRATIONS DETECTED ABOVE GROUNDWATER QUALITY STANDARDS/GUIDANCE VALUES, 2020 - 2022

SCALE: 1"=900'

FIGURE 4

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 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

APPENDIX A

GROUNDWATER SAMPLING LOGS

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

SITE Town of Oyster Bay Landfill DATE 5/12/2022

WELL ID: **LF-1** Time On-site: Time Off-site:
SAMPLERS: KR / SF
Depth of well (feet from top of casing) ..... 102.00'
Initial static water level (feet from top of casing) ..... 45.40'
Approximate Pump Inlet (feet from top of casing)..... 51'

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: 56.60 ft. of water x 1.47 = 83 gallons

volume of water removed: 450 gal. >3 volumes: yes X no ____ purged dry? yes ____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	7.58	16.97	0.420	0.0	7.77	133
50	6.59	16.72	0.535	0.0	1.37	-55
100	6.64	16.68	0.560	0.0	0.62	-90
150	6.67	16.69	0.561	0.0	0.54	-100
200	6.73	16.72	0.559	0.0	0.48	-109
250	6.77	16.68	0.555	0.0	0.69	-114
300	6.87	16.67	0.555	0.0	0.57	-119
350	6.84	16.67	0.556	0.0	0.35	-120
400	7.12	16.79	0.553	0.0	0.37	-137
450	7.08	16.63	0.549	0.0	0.39	-136

Purging Rate: 5 GPM
Purging Time: 90 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 12:40 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: Overcast, warm, 55-70F
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 5/12/2022

WELL ID: **LF-2** Time On-site: Time Off-site:
SAMPLERS: KR / SF

Depth of well (feet from top of casing) ..... 102.10'
Initial static water level (feet from top of casing) 52.85
Approximate Pump Inlet (feet from top of casing) ..... 58'

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: 49.25 ft. of water x 1.47 = 72 gallons

volume of water removed: 425 gal. >3 volumes: yes X no ____ purged dry? yes ____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	7.15	17.23	4.23	0.0	1.18	-421
50	7.17	17.26	4.36	0.0	0.56	-147
100	7.21	17.24	4.46	0.0	0.56	-164
150	7.22	17.23	4.45	0.0	0.44	-166
200	7.38	17.24	4.49	0.0	0.38	-178
250	7.47	17.23	4.49	0.0	0.37	-185
300	7.54	17.26	4.49	0.0	0.40	-190
350	7.55	17.25	4.49	0.0	0.44	-193
400	7.60	17.25	4.48	0.0	0.32	-199
425	7.60	17.26	4.48	0.0	0.32	-199

Purging Rate: 5 GPM
Purging Time: 85 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 9:25 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: Sunny, warm, 65-70F
Sample description: Clear - Yellow tint.
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes X no ____ describe Slight leachate odor

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 5/5/2022

WELL ID: **MW-05B** Time On-site: Time Off-site:
SAMPLERS: KR / SF

Depth of well (feet from top of casing)	117.25’
Initial static water level (feet from top of casing)	73.55’
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:	43.7	ft. of water x 0.65 =	28.4	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)
Initial	6.92	16.35	0.345	0.0	4.89	292
20	5.87	16.09	0.353	0.0	0.76	320
40	5.84	16.09	0.355	0.0	0.54	320
60	5.85	16.08	0.358	0.0	0.76	320
80	5.86	16.11	0.358	0.0	0.47	321
100	5.86	16.13	0.359	0.0	0.46	321
120	5.88	16.15	0.359	0.0	0.45	320
140	5.88	16.15	0.359	0.0	0.45	321

Purging Rate: 2 GPM

Purging Time: 70 min

Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 4:45 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: Overcast, 55-70F
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 5/11/2022

WELL ID: **MW-06A** Time On-site: Time Off-site:
SAMPLERS: KR / SF

Depth of well (feet from top of casing) ..... 100.40'
Initial static water level (feet from top of casing) ..... 95.90'
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: 4.5 ft. of water x 0.65 = 2.9 gallons

volume of water removed: 35 gal. >3 volumes: yes X no ____ purged dry? yes ____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	5.26	15.95	0.058	0.0	4.11	86
5	5.02	16.08	0.051	0.0	5.30	106
10	4.78	16.17	0.050	0.0	6.54	140
15	4.75	16.23	0.050	0.0	6.85	163
20	4.82	16.23	0.051	0.0	6.75	193
25	--	--	--	--	--	--
30	4.78	16.32	0.051	0.0	6.68	207
35	4.75	16.36	0.051	0.0	7.33	215

Purging Rate: 1.0 GPM
Purging Time: 35 min
Sampling Rate: *0.1l/min VOCs / 0.5l/min Other Analytes*

Sampling
Time of Sample Collection: 11:30 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: Sunny, clear, 55-70F
Sample description: clear
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes X no ____ describe Trace leachate odor

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 5/11/2022

WELL ID: **MW-06B** Time On-site: Time Off-site:
SAMPLERS: KR / SF

Depth of well (feet from top of casing) ..... 134.90'
Initial static water level (feet from top of casing) 96.05
Approximate Pump Inlet (feet from top of casing) ..... 101'

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: 38.85 ft. of water x 0.65 = 25.3 gallons

volume of water removed: 120 gal. >3 volumes: yes X no ____ purged dry? yes ____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.51	16.08	1.49	0.0	2.12	84
20	6.80	16.59	2.41	0.0	0.48	-104
40	6.84	16.60	2.45	0.0	0.43	-115
60	6.84	16.60	2.46	0.0	0.41	-116
80	6.85	16.60	2.47	0.0	0.38	-118
100	6.87	16.61	2.47	0.0	0.33	-124
120	6.83	16.57	2.41	0.0	0.43	-114

Purging Rate: 2 GPM
Purging Time: 60 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 9:45 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: Sunny, clear, 55-70F
Sample description: Clear, yellow tint
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes X no ____ describe Slight leachate odor

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 5/10/2022

WELL ID: **MW-06C** Time On-site: Time Off-site:
SAMPLERS: KR / SF

Depth of well (feet from top of casing) ..... 160.90'
Initial static water level (feet from top of casing) ..... 95.50'
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: 65.4 ft. of water x 0.65 = 42.5 gallons

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

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	7.25	17.01	1.45	0.0	1.70	-95
25	7.15	17.35	1.64	0.0	0.56	-112
50	7.19	17.38	1.71	0.0	0.41	-122
75	7.20	17.44	1.72	0.0	0.36	-125
100	7.20	17.42	1.73	0.0	0.40	-128
125	7.22	17.45	1.73	0.0	0.33	-130
150	7.23	17.47	1.74	0.0	0.36	-129
175	7.22	17.48	1.75	0.0	0.32	-130
200	7.23	17.49	1.75	0.0	0.31	-131

Purging Rate: 2.5 GPM
Purging Time: 90 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 1:20 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: Sunny, clear 55-70F
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 5/12/2022

WELL ID: **MW-06E** Time On-site: Time Off-site:
SAMPLERS: KR / SF

Depth of well (feet from top of casing) ..... 251' historical log
Initial static water level (feet from top of casing) ..... 96.55'
Approximate Pump Inlet (feet from top of casing) ..... 103'

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: 154.45 ft. of water x 0.65 = 100 gallons

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

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	7.55	17.97	0.893	0.0	4.52	-147
60	7.00	17.28	0.927	0.0	0.48	-137
120	6.75	17.17	0.951	0.0	0.45	-96
180	6.70	17.14	1.00	0.0	0.69	-74
240	6.61	17.05	1.12	0.0	0.72	-60
300	6.61	17.05	1.14	0.0	0.41	-54
360	6.63	17.04	1.16	0.0	0.54	-52
420	6.63	17.03	1.18	0.0	0.49	-51
480	6.61	17.03	1.19	0.0	0.36	-47
500	6.61	17.04	1.19	0.0	0.36	-47

Purging Rate: 4 GPM
Purging Time: 125 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 4:15 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: Sunny, clear, 55-70F
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 5/11/2022

WELL ID: **MW-06F** Time On-site: Time Off-site:
SAMPLERS: KR / SF

Depth of well (feet from top of casing) ..... 349' historical log
Initial static water level (feet from top of casing) ..... 95.50'
Approximate Pump Inlet (feet from top of casing) ..... 111'

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: 253.5 ft. of water x 0.65 = 165 gallons

volume of water removed: 800 gal. >3 volumes: yes X no ____ purged dry? yes ____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	3.47	16.77	0.951	0.0	2.84	387
100	3.61	16.90	0.917	0.0	0.75	366
200	4.19	16.27	1.34	0.0	0.75	166
300	4.25	16.18	1.38	0.0	0.77	141
400	4.04	16.20	1.40	0.0	0.79	229
500	4.04	16.15	1.20	0.0	0.98	286
600	4.02	16.16	1.20	0.0	0.81	227
700	4.09	16.21	1.20	0.0	0.80	315
800	4.14	16.22	1.20	0.0	0.76	346

Purging Rate: 3 GPM
Purging Time: 265 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 11:50 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: Sunny, clear 55-70F
Sample description: Clear
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 5/10/2022

WELL ID: **MW-08A** Time On-site: Time Off-site:
SAMPLERS: KR / SF

Depth of well (feet from top of casing) ..... 80.80'
Initial static water level (feet from top of casing) 69.65
Approximate Pump Inlet (feet from top of casing) ..... 74'

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: 11.15 ft. of water x 0.65 = 7.2 gallons

volume of water removed: 35 gal. >3 volumes: yes X no ____ purged dry? yes ____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	7.19	13.86	0.099	0.0	10.85	392
5	4.29	14.08	0.098	0.0	7.40	368
10	4.17	14.11	0.108	0.0	6.90	375
15	4.19	14.13	0.127	0.0	6.61	378
20	4.36	14.09	0.149	0.0	6.38	377
25	4.53	14.09	0.163	0.0	6.57	380
30	4.63	14.04	0.170	0.0	6.57	382
35	4.73	13.99	0.176	0.0	6.65	385

Purging Rate: 1 GPM
Purging Time: 35 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 11:00 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: Sunny, clear, 55-70F
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 5/10/2022

WELL ID: **MW-08B** Time On-site: Time Off-site:
SAMPLERS: KR / SF

Depth of well (feet from top of casing) ..... 160.20'
Initial static water level (feet from top of casing) ..... 69.02'
Approximate Pump Inlet (feet from top of casing)..... 74'

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:	91.18	ft. of water x 0.65 =	59.3	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)
Initial	5.55	13.08	0.676	0.0	2.18	325
25	5.17	13.74	0.643	0.0	1.14	350
50	5.08	13.74	0.614	0.0	0.71	354
75	4.92	13.76	0.562	0.0	0.56	357
100	4.90	13.77	0.556	0.0	0.54	357
125	4.88	13.77	0.545	0.0	0.49	356
150	4.87	13.80	0.544	0.0	0.49	355
175	4.87	13.80	0.542	0.0	0.48	354
200	4.87	13.82	0.542	0.0	0.55	336
225	4.86	13.83	0.578	0.0	0.46	342

Purging Rate: 2.5 GPM
Purging Time: 90 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 9:50 a.m.

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

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

Observations
Weather/Temperature: Sunny, clear, 50-60F
Sample description: Clear, no odor
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

Note – Collected blind duplicate at MW-08B

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 5/5/2022

WELL ID: **MW-09B** Time On-site: Time Off-site:
SAMPLERS: KR / SF

Depth of well (feet from top of casing) 169.10
Initial static water level (feet from top of casing) ..... 91.46'
Approximate Pump Inlet (feet from top of casing) ..... 96'

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: 77.64 ft. of water x 0.65 = 50.4 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)
Initial	5.41	14.93	0.360	0.0	2.86	326
25	5.42	14.81	0.364	0.0	1.01	329
50	5.55	15.01	0.366	0.0	0.61	282
25	5.53	14.99	0.367	0.0	0.51	297
100	5.55	15.06	0.364	0.0	0.55	282
125	5.54	15.04	0.370	0.0	0.77	292
150	5.55	15.07	0.370	0.0	0.55	299
175	5.56	15.07	0.369	0.0	0.52	297
200	5.57	15.10	0.370	0.0	0.49	300
225	5.59	15.12	0.371	0.0	0.49	297

Purging Rate: 2.5 GPM
Purging Time: 90 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 1:15 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: Overcast, 55-70F
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 5/5/2022

WELL ID: **MW-09C** Time On-site: Time Off-site:
SAMPLERS: KR / SF

Depth of well (feet from top of casing) ..... 225' historical log
Initial static water level (feet from top of casing) 92.02
Approximate Pump Inlet (feet from top of casing) ..... 97'

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:	132.98	ft. of water x 0.65 =	86.3	gallons

volume of water removed: 360 gal. >3 volumes: yes X no ____ purged dry? yes ____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.11	15.99	0.376	0.0	7.33	341
50	5.54	16.33	0.363	0.0	0.81	287
100	5.74	16.57	0.400	0.0	0.54	275
150	5.77	16.32	0.406	0.0	0.66	287
200	5.78	16.60	0.410	0.0	0.50	291
250	5.82	16.70	0.417	0.0	0.53	263
300	5.83	16.73	0.419	0.0	0.38	251
360	5.84	16.69	0.419	0.0	0.58	245

Purging Rate: 2.0 GPM
Purging Time: 180 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 2:30 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: Overcast, 55-70F
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 5/5/2022

WELL ID: **OBS-1** Time On-site: Time Off-site:
SAMPLERS: KR / SF

Depth of well (feet from top of casing) ..... 194.75'
Initial static water level (feet from top of casing) ..... 48.55'
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
4 in. casing: 146.2 ft. of water x 0.65 = 95 gallons

volume of water removed: 400 gal. >3 volumes: yes X no _____ purged dry? yes _____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	5.31	16.34	0.369	0.0	3.59	311
50	5.96	18.92	0.385	0.0	0.69	307
100	6.06	15.92	0.384	0.0	0.63	287
150	6.03	15.98	0.382	0.0	0.58	268
200	6.02	15.99	0.381	0.0	0.56	256
250	6.03	15.99	0.381	0.0	0.54	250
300	6.02	15.98	0.381	0.0	0.55	255
350	6.05	16.01	0.381	0.0	0.53	239
400	6.05	16.00	0.380	0.0	0.52	236

Purging Rate: 5 GPM
Purging Time: 75 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 09:50 a.m.

Method:

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

Analyses: (Pace Analytical Laboratory)

X	VOCs
X	Total & Dissolved Metals
	Leachate
X	Parameters

Observations
Weather/Temperature: Overcast, 55-70F
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

APPENDIX B

CHAIN OF CUSTODY FORMS

WO#: 70213830

70213830

Pace

CHAIN-OF-CUSTODY

The Chain-of-Custody is a LE[...]ely.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace T[...]rd-terms.pdf.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Town of Oyster Bay	Report To: Russo, Matt	Attention: Matt Russo
Address: 150 Miller Place	Copy To: Keith Robins (D&B Engineers and Architects)	Company Name: Town of Oyster Bay
Syosset, NY 11791		Address: 150 Miller Place, Syosset NY 11791
Email: mrusso@tobays.net	Purchase Order #:	Pace Quote:
Phone: NONE Fax:	Project Name: Old Bethpage Landfill	Pace Project Manager: giovanna.deloca@pacelabs.com,
Requested Due Date: Standard	Project #: 3617-07 First Semi Annual 2022 Event	Pace Profile #: 6466

Regulatory Agency
State / Location
NY

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Requested Analysis Filtered (Y/N): N N N N N N N N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (Field Filter)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)	Vocs leachate Indicators, total metals dissolved metals Field filtered for dissolved metals and CR+6
1	Trip Blank - 5/5/2022	WT	–	5/5/22	–	5/5/22	–		2	–	–	–	2	–	–	–	–		✓	–	–	–	–	–	–	–	N	
2	OBS-1 -5/5/2022	WT	G	5/5/22	0950	5/5/22	–	8	8	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N	
3	MW-09B -5/5/2022	WT	G	5/5/22	115pm	5/5/22	–		8	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N	
4	MW-09C -5/5/2022	WT	G	5/5/22	230pm	5/5/22	–		8	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N	
5	MW-05B -5/5/2022	WT	G	5/5/22	445pm	5/5/22	–		8	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N	
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill	Keith Robins / D&B	5/5/2022	600pm	[signature]	5/5/22	1807	0.0	N	N	Y
Field filtering for metals and CR+6, denoted with an "F"										
Provide category B and EDDs deliverables										
Send data to: lab data@ db-eng.com										

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	Keith Robins	
SIGNATURE of SAMPLER:	[signature]	DATE Signed: 5/5/2022

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace

CHAIN-OF-CUSTODY / Analytical Re

The Chain-of-Custody is a LEGAL DOCUMENT. All relev

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at

WO# : 70213830

PM: STS **Due Date: 05/20/22**

CLIENT: TOY

1

Section A	Section B	Section C
Required Client Information:	**Required Project Information:**	**Invoice Information:**
Company: Town of Oyster Bay	Report To: Russo, Matt	Attention: MATT RUSSO
Address: 150 Miller Place	Copy To: KEITH ROBINS (D+B)	Company Name: Town of Oyster Bay
Syosset, NY 11791		Address: 150 Miller Place, NY 11791
Email: mrusso@tobays.net	Purchase Order #:	Pace Quote:
Phone: NONE Fax:	Project Name: Old Bethpage Landfill	Pace Project Manager: giovanna.deloca@pacelabs.com,
Requested Due Date: STandard	Project #: 3617-07 (First Semiannual Post Termination GW Event 2022)	Pace Profile #: 6466

Regulatory Agency	State / Location
	NY

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (Field Filter)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)	VOCs, Leachate indicators, metals (Total and dissolved) (CR+6)
																		N	N	N	N	N	N	N	N				
1	Trip Blank – 5/10/2022	WT	–	5/10/22	–	5/10/22	–		2	–	–	–	2	–	–	–	–		√	–	–	–	–	–	–			N	
2	MW-08B – 5/10/2022	WT	G	5/10/22	0950	5/10/22	–		8	2	1	2	2	1	–	–	–		√	√	√	√	√	√	√	√		N	
3	MW-08A – 5/10/2022	WT	G	5/10/22	1110 am	5/10/22	–		8	2	1	2	2	1	–	–	–		√	√	√	√	√	√	√	√		N	
4	Blind Duplicate – 5/10/2022	WT	G	5/10/22	0000	5/10/22	–		8	2	1	2	2	1	–	–	–		√	√	√	√	√	√	√	√		N	
5	MW-06C – 5/10/2022	WT	G	5/10/22	1320 pm	5/10/22	–		8	2	1	2	2	1	–	–	–		√	√	√	√	√	√	√	√		N	
6	Field Blank – 5/10/2022	WT	G	5/10/22	1:45 pm	5/10/22	–		8	2	1	2	2	1	–	–	–		√	√	√	√	√	√	√	√			
7																													
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill – Samples designated with "F", were field filtered for metals (dissolved) and CR+6	Keith Robins / D+B Engineering	5/10/22	2:42 pm		5/10/22	14:45	TEMP in C: 0.0	Received on Ice (Y/N): Y	Custody Sealed Cooler (Y/N): N	Samples Intact (Y/N): Y
Send data to Lab data @ db-eng.com										
Provide CATegory 'B' and EDDs										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith Robins

SIGNATURE of SAMPLER: Keith Robins DATE Signed: 5-10-2022

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Town of Oyster Bay	Report To:	Russo, Matt	Attention:	Matt Russo
Address:	150 Miller Place	Copy To:	Keith Robins D+B Engineers + Architects	Company Name:	Town of Oyster Bay
Syosset, NY 11791		Purchase Order #:		Address:	150 Miller Place, Syosset NY 11791
Email:	mrusso@tobays.net	Project Name:	Old Bethpage Landfill	Pace Quote:	
Phone:	NONE Fax:	Project #:	3617-07 First semiannual 2022 Event	Pace Project Manager:	giovanna.deloca@pacelabs.com,
Requested Due Date:	Standard			Pace Profile #:	6466

Regulatory Agency

State / Location: NY

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (Field Filter)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)	VOCs, leachate indicators, total metals, dissolved metals Field filtered for dissolved metals and CR+6
	Requested Analysis Filtered (Y/N)																	N	N	N	N	N	N	N	N		
1	Trip Blank_5/11/22	WT	-	5/11/22	-	5/11/22	-		2	-	-	-	2	-	-	-	-		✓	-	-	-	-	-	-	N	
2	MW-06B_5/11/22	WT	G	5/11/22	0945	5/11/22	-		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	
3	MW-06A_5/11/22	WT	G	5/11/22	1130 est.	5/11/22	-		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	
4	MW-06F_5/11/22	WT	G	5/11/22	1150 est.	5/11/22	-		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

WO#: 70213830

PM: STS Due Date: 05/20/22

CLIENT: TOY

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill	D+B/Engrs	5/11/2022	1316	Sara Rivenbark	5/11/22	1317	2.1	W	N	Y
Field Filtering for metals and CR+6 denoted with an "F"										
Provide Category B + Equis deliverables										
Send data to labdata@db-eng.com										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: Keith Robins DATE Signed: 5/11/2022

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Town of Oyster Bay	Report To:	Russo, Matt	Attention:	Matt Russo
Address:	150 Miller Place	Copy To:	Keith Robins	Company Name:	Town of Oyster Bay
	Syosset, NY 11791		D+B Engineers + Architects	Address:	150 Miller Place, Syosset NY 11791
Email:	mrusso@tobays.net	Purchase Order #:		Pace Quote:	
Phone:	NONE Fax:	Project Name:	Old Bethpage Landfill	Pace Project Manager:	giovanna.deloca@pacelabs.com
Requested Due Date:	Standard	Project #:	3617-07 First Semiannual 2022 Event	Pace Profile #:	6466

Regulatory Agency

State / Location: NY

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (Field Filter)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	Y/N	N	N	N	N	N	N	N	N		VOCs, leachate indicators, total metals, dissolved metals, Field filtered for dissolved metals & CR+6
1	Trip Blank - 5/12/22	WT	-	5/12/22	-	5/12/22	-		2	-	-	-	2	-	-	-	-		✓	-	-	-	-	-	-		N	
2	LF-2 - 5/12/22	WT	G	5/12/22	0925	5/12/22	-		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	
3	LF-1 - 5/12/22	WT	G	5/12/22	1240	5/12/22	-		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	
4	MW-06E - 5/12/22	WT	G	5/12/22	1615	5/12/22	-		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

WO#: 70213830
PM: STS Due Date: 05/20/22
CLIENT: TOY

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill	Keith Robins / D+B Engrs	5/12/22	5:48pm		5/12/22	17:50	0.0	W	Y	Y
Field Filtering for metals & CR+6 denoted with "F"										
Provide Category B + Equis deliverables										
Send data to labdata@db-eng.com										

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Keith Robins					
SIGNATURE of SAMPLER:	Keith Robins	DATE Signed: 5/12/2022				

APPENDIX C

DATA VALIDATION CHECKLIST

D&B ENGINEERS AND ARCHITECTS

DATA VALIDATION CHECKLIST

Project Name:	Old Bethpage Landfill
Project Number:	3617 06
Sample Date(s):	May 5-12, 2022
Sample Team:	Keith Robins
Matrix/Number of Samples:	Water/ 13 Field Duplicates/ 1 Trip Blanks / 4 Field Blanks/ 1
Analyzing Laboratory:	Pace Analytical, Melville, NY (four alkainty samples were also sent to Long Island Analytical Laboratories Inc, Holbrook, NY)
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:	70213830 Date: 5/27/2022

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

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

QA - quality assurance

Comments:

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

Custody Numbers:70213830

SAMPLE AND ANALYSIS LIST

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis				
				VOC	SVOC	PCB	MET	MISC
TRIP BLANK	70213830001	5/5/2022		X				
OBS-1*	70213830002-3	5/5/2022		X			X	X
MW-09B*	70213830004-5	5/5/2022		X			X	X
MW-09C*	70213830006-7	5/5/2022		X			X	X
MW-05B*	70213830008-9	5/5/2022		X			X	X
TRIP BLANK	70213830010	5/10/2022		X				
MW-08B	70213830011-12	5/10/2022		X			X	X
MW-08A	70213830013-14	5/10/2022		X			X	X
BLIND DUPLICATE	70213830015-16	5/10/2022	MW-08B	X			X	X
MW-06C	70213830017-18	5/10/2022		X			X	X
FIELD BLANK	70213830019-20	5/10/2022		X			X	X
TRIP BLANK	70213830021	5/11/2022		X				
MW-06B	70213830022-23	5/11/2022		X			X	X
MW-06A	70213830024-25	5/11/2022		X			X	X
MW-06F	70213830026-27	5/11/2022		X			X	X
TRIP BLANK	70213830028	5/12/2022		X				
LF-2	70213830029-30	5/12/2022		X			X	X
LF-1	70213830031-32	5/12/2022		X			X	X
MW-06E	70213830033-34	5/12/2022		X			X	X

*= alkalinity also analyzed by Long Island analytical Laboratories Inc, the PACE results reported

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) %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. Chloroform and methylene chloride were detected in the field blank. Chloroform was qualified as non-detect (UB) in samples MW-06A and MW-06F.

3. The %R was above the QC limit for methylene chloride associated with the TRIP BLANK and LF-1. It was not detected in the associated samples therefore qualification of the data was not necessary.

4. The duplicate RPD was above the QC limit for n-butylbenzene associated with samples TRIP BLANK, OBS-1, MW-09B, MW-09C, and MW-05B. It was not detected in the associated samples therefore qualification of the data was not necessary.

5. The %Rs were above the QC limits for toluene and trans-1,2-dichloroethene associated with samples TRIP BLANK, OBS-1, MW-09B, MW-09C, and MW-05B. They were not detected in the associated samples therefore qualification of the data was not necessary.

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:

2B. Total calcium and iron; dissolved barium, calcium, copper, iron, magnesium, manganese, nickel, potassium, and sodium were detected in the Field Blank. The following metals were qualified as non-detect (UB): total iron in sample OBS-1; dissolved barium in samples OBS-1, MW-09B, MW-09C, MW-05B, MW-08B, MW08A, BLIND DUPLICATE, MW-06C, MW-06B, MW-06A, LF-2, and LF-1; dissolved copper in sample MW-06C; dissolved iron in samples OBS-1, MW-09C, MW-06F, and MW-06A; dissolved manganese in samples MW-06A, MW-06B, MW-06C, MW-06F, MW08A, MW-06E, MW-09C, MW-08B, BLIND DUPLICATE, and LF-2; dissolved potassium in samples MW-05B, MW-06A, MW-06E, MW-06F, MW08A, MW-08B, MW-09B, MW-09C, BLIND DUPLICATE, OBS-1, and LF-1; and dissolved calcium, nickel, sodium, and magnesium in all samples.

4. The %Rs in the matrix spike were above the QC limits for total potassium associated with samples BLIND DUPLICATE, MW-06C, and FIELD BLANK; and total aluminum associated with samples MW-06B, MW-06A, and MW-06F. Total potassium was detected above the method detection limit and was qualified as estimated (J) in samples BLIND DUPLICATE and MW-06C.

The %R was below the QC limit for dissolved sodium in the matrix spike associated with samples MW-06A, MW-06B, MW-06C, MW-06F, MW-06E, LF-1, LF-2, and FIELD BLANK and were qualified as estimated (J/UJ).

.

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:

1. Total and dissolved hexavalent chromium was outside of holding time in samples OBS-1, MW-09B, MW-09C, and MW-06B and was qualified as an estimated detection limit (UJ).

2. TKN, sulfate, and nitrate-nitrite were detected in the Field Blank and/or method blank. The following were qualified as non-detect (UB): TKN in samples LF-1, MW-05B, and MW-06A; sulfate in sample LF-2, MW-06B, and MW-06F; and nitrate-nitrite in samples MW-09C and OBS-1.

3&5. The %Rs were below the QC limits in the laboratory spike or matrix spike for alkalinity, carbonate associated with samples MW-08B, MW-08A, BLIND DUPLICATE, MW-06C, FIELD BLANK, MW-06B, MW-06A, MW-06F, LF-1, and MW-06E; for total and dissolved hexavalent chromium associated with samples LF-2, LF-1, and MW-06E; cyanide associated with samples MW-06B, MW-06A, MW-06F, OBS-1, MW-09B, MW-09C, and MW-05B; nitrate associated with samples MW-08B, MW-08A, BLIND DUPLICATE, MW-06C, FIELD BLANK, MW-06B, MW-06A, MW-06F, LF-2, LF-1, and MW-06E; and nitrite associated with samples MW-08B and MW-08A. They were qualified as estimated (J/UJ) in associated samples.

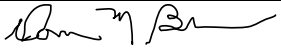
The %R was above the QC limit in the matrix spike for nitrate-nitrite associated with samples OBS-1 and MW-09B. Nitrate-nitrite was qualified as estimated (J) in sample MW-09B.

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers:70213830

Sample ID	Analyte(s)	Qualifier	Reason(s)
VOCs			
MW-06A and MW-06F	Chloroform	UB	Detected in the field blank
Metals			
OBS-1	Total iron in sample	UB	Detected in the Field Blank
OBS-1, MW-09B, MW-09C, MW-05B, MW-08B, MW08A, BLIND DUPLICATE, MW-06C, MW-06B, MW-06A, LF-2, and LF-1	Dissolved barium		
MW-06C	Dissolved copper		
OBS-1, MW-09C, MW-06F, and MW-06A	Dissolved iron		
MW-06A, MW-06B, MW-06C, MW-06F, MW08A, MW-06E, MW-09C, MW-08B, BLIND DUPLICATE, and LF-2	Dissolved manganese		
MW-05B, MW-06A, MW-06E, MW-06F, MW08A, MW-08B, MW-09B, MW-09C, BLIND DUPLICATE, OBS-1, and LF-1	Dissolved potassium		
All samples	Dissolved calcium, nickel, sodium, and magnesium		
BLIND DUPLICATE and MW-06C	Total potassium	J	The %R in the matrix spike was above the QC limit
MW-06A, MW-06B, MW-06C, MW-06F, MW-06E, LF-1, LF-2, and FIELD BLANK	Dissolved sodium	J/UJ	The %R was below the QC limit in the matrix spike
General Chemistry			
OBS-1, MW-09B, MW-09C, and MW-06B	Total and dissolved hexavalent chromium	UJ	Outside of holding time
LF-1, MW-05B, and MW-06A	TKN	UB	Detected in the Field Blank and/or method blank
LF-2, MW-06B, and MW-06F	Sulfate		
MW-09C and OBS-1	Nitrate-nitrite		

Sample ID	Analyte(s)	Qualifier	Reason(s)
MW-08B, MW-08A, BLIND DUPLICATE, MW-06C, FIELD BLANK, MW-06B, MW-06A, MW-06F, LF-1, and MW-06E	Alkalinity, carbonate	J/UJ	The %Rs were below the QC limits in the matrix spike or laboratory spike
LF-2, LF-1, and MW-06E	Total and dissolved hexavalent chromium		
MW-06B, MW-06A, MW-06F, OBS-1, MW-09B, MW-09C, and MW-05B;	Cyanide		
MW-08B, MW-08A, BLIND DUPLICATE, MW-06C, FIELD BLANK, MW-06B, MW-06A, MW-06F, LF-2, LF-1, and MW-06E	Nitrate		
MW-08B and MW-08A	Nitrite		
MW-09B	Nitrate-nitrite	J	The %R was above the QC limit in the matrix spike

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 6/7/2022
VALIDATION PERFORMED BY SIGNATURE:	

APPENDIX D

LABORATORY DATA REPORTS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

May 27, 2022

Keith Robins
Dvirka & Bartilucci
330 Crossways Park Drive
Woodbury, NY 11797

RE: Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Dear Keith Robins:

Enclosed are the analytical results for sample(s) received by the laboratory between May 05, 2022 and May 12, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

- Pace Analytical Services - Melville

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

Sincerely,

Sophia Sparkes

Sophia Sparkes
sophia.sparkes@pacelabs.com
(631)694-3040
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
(631)694-3040

CERTIFICATIONS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

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
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: TRIP BLANK_5/5/2022 **Lab ID: 70213830001** Collected: 05/05/22 00:00 Received: 05/05/22 18:02 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		05/16/22 21:13	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/16/22 21:13	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/16/22 21:13	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/16/22 21:13	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/16/22 21:13	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/16/22 21:13	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 21:13	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/16/22 21:13	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/16/22 21:13	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/16/22 21:13	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 21:13	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 21:13	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 21:13	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/16/22 21:13	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/16/22 21:13	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/16/22 21:13	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 21:13	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 21:13	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 21:13	156-60-5	L1
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/16/22 21:13	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/16/22 21:13	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/16/22 21:13	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/16/22 21:13	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/16/22 21:13	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/16/22 21:13	108-88-3	L1
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/16/22 21:13	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 21:13	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/16/22 21:13	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/16/22 21:13	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/16/22 21:13	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/16/22 21:13	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		05/16/22 21:13	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		05/16/22 21:13	460-00-4	
Toluene-d8 (S)	95	%	82-122	1		05/16/22 21:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: OBS-1_5/5/2022 **Lab ID: 70213830002** Collected: 05/05/22 09:50 Received: 05/05/22 18:02 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	05/12/22 09:20	05/13/22 21:05	7429-90-5	
Barium	**33.1J**	ug/L	200	1	05/12/22 09:20	05/13/22 21:05	7440-39-3	
Calcium	**11600**	ug/L	200	1	05/12/22 09:20	05/13/22 21:05	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/12/22 09:20	05/13/22 21:05	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/12/22 09:20	05/13/22 21:05	7440-50-8	
Iron	**36.0J**	ug/L	100	1	05/12/22 09:20	05/13/22 21:05	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/12/22 09:20	05/13/22 21:05	7439-92-1	
Magnesium	**7180**	ug/L	200	1	05/12/22 09:20	05/13/22 21:05	7439-95-4	
Manganese	**2170**	ug/L	10.0	1	05/12/22 09:20	05/13/22 21:05	7439-96-5	
Nickel	**5.9J**	ug/L	40.0	1	05/12/22 09:20	05/13/22 21:05	7440-02-0	
Potassium	**18000**	ug/L	5000	1	05/12/22 09:20	05/13/22 21:05	7440-09-7	
Sodium	**41700**	ug/L	5000	1	05/12/22 09:20	05/13/22 21:05	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/12/22 09:20	05/13/22 21:05	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**58500**	ug/L	830	1		05/13/22 21:05		
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	05/23/22 16:15	05/24/22 11:03	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/16/22 21:51	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/16/22 21:51	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/16/22 21:51	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/16/22 21:51	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/16/22 21:51	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/16/22 21:51	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 21:51	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/16/22 21:51	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/16/22 21:51	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/16/22 21:51	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 21:51	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 21:51	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 21:51	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/16/22 21:51	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/16/22 21:51	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/16/22 21:51	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 21:51	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 21:51	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 21:51	156-60-5	L1
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/16/22 21:51	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/16/22 21:51	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: OBS-1_5/5/2022 **Lab ID: 70213830002** Collected: 05/05/22 09:50 Received: 05/05/22 18:02 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							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/16/22 21:51	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/16/22 21:51	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/16/22 21:51	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/16/22 21:51	108-88-3	L1
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/16/22 21:51	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 21:51	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/16/22 21:51	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/16/22 21:51	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/16/22 21:51	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/16/22 21:51	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		05/16/22 21:51	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/16/22 21:51	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/16/22 21:51	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**126**	mg/L	1.0	1		05/19/22 18:55		
Alkalinity,Bicarbonate (CaCO3)	**126**	mg/L	1.0	1		05/19/22 18:55		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/19/22 18:55		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**266**	mg/L	20.0	1		05/12/22 15:54		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/06/22 16:27	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**20.9**	mg/L	5.0	1		05/13/22 23:41	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**12.8**	mg/L	0.50	5	05/23/22 06:50	05/23/22 20:06	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**0.12**	mg/L	0.050	1		05/17/22 02:41	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/07/22 04:26	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: OBS-1_5/5/2022 **Lab ID: 70213830002** Collected: 05/05/22 09:50 Received: 05/05/22 18:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	05/13/22 11:40	05/13/22 15:55		
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	05/12/22 13:25	05/12/22 17:25	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**52.9**	mg/L	2.0	1		05/13/22 11:45	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**12.3**	mg/L	0.50	5		05/17/22 13:05	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: OBS-1_5/5/2022 DISS **Lab ID: 70213830003** Collected: 05/05/22 09:50 Received: 05/05/22 18:02 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		05/12/22 19:20	7429-90-5	
Barium, Dissolved	**34.4J**	ug/L	200	1		05/12/22 19:20	7440-39-3	
Calcium, Dissolved	**12100**	ug/L	1000	1		05/12/22 19:20	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/12/22 19:20	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/12/22 19:20	7440-50-8	
Iron, Dissolved	**24.6**	ug/L	20.0	1		05/12/22 19:20	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/12/22 19:20	7439-92-1	
Magnesium, Dissolved	**7290**	ug/L	1000	1		05/12/22 19:20	7439-95-4	
Manganese, Dissolved	**2230**	ug/L	10.0	1		05/12/22 19:20	7439-96-5	
Nickel, Dissolved	**5.5J**	ug/L	40.0	1		05/12/22 19:20	7440-02-0	
Potassium, Dissolved	**18200**	ug/L	5000	1		05/12/22 19:20	7440-09-7	
Sodium, Dissolved	**43700**	ug/L	5000	1		05/12/22 19:20	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/12/22 19:20	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	05/25/22 14:38	05/26/22 11:26	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/06/22 16:27	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-09B_5/5/2022 **Lab ID: 70213830004** Collected: 05/05/22 13:15 Received: 05/05/22 18:02 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	05/12/22 09:20	05/13/22 21:12	7429-90-5	
Barium	**104J**	ug/L	200	1	05/12/22 09:20	05/13/22 21:12	7440-39-3	
Calcium	**13000**	ug/L	200	1	05/12/22 09:20	05/13/22 21:12	7440-70-2	
Chromium	**1.4J**	ug/L	10.0	1	05/12/22 09:20	05/13/22 21:12	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/12/22 09:20	05/13/22 21:12	7440-50-8	
Iron	**<100**	ug/L	100	1	05/12/22 09:20	05/13/22 21:12	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/12/22 09:20	05/13/22 21:12	7439-92-1	
Magnesium	**5890**	ug/L	200	1	05/12/22 09:20	05/13/22 21:12	7439-95-4	
Manganese	**2960**	ug/L	10.0	1	05/12/22 09:20	05/13/22 21:12	7439-96-5	
Nickel	**5.4J**	ug/L	40.0	1	05/12/22 09:20	05/13/22 21:12	7440-02-0	
Potassium	**9830**	ug/L	5000	1	05/12/22 09:20	05/13/22 21:12	7440-09-7	
Sodium	**55800**	ug/L	5000	1	05/12/22 09:20	05/13/22 21:12	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/12/22 09:20	05/13/22 21:12	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**56700**	ug/L	830	1		05/13/22 21:12		
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	05/23/22 16:15	05/24/22 11:08	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/16/22 22:10	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/16/22 22:10	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/16/22 22:10	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:10	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:10	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/16/22 22:10	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:10	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/16/22 22:10	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/16/22 22:10	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/16/22 22:10	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:10	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:10	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:10	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/16/22 22:10	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/16/22 22:10	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/16/22 22:10	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 22:10	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 22:10	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 22:10	156-60-5	L1
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/16/22 22:10	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:10	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-09B_5/5/2022 **Lab ID: 70213830004** Collected: 05/05/22 13:15 Received: 05/05/22 18:02 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							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/16/22 22:10	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/16/22 22:10	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/16/22 22:10	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/16/22 22:10	108-88-3	L1
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/16/22 22:10	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 22:10	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/16/22 22:10	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/16/22 22:10	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/16/22 22:10	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/16/22 22:10	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		05/16/22 22:10	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		05/16/22 22:10	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/16/22 22:10	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**30.1**	mg/L	1.0	1		05/19/22 18:45		
Alkalinity,Bicarbonate (CaCO3)	**30.1**	mg/L	1.0	1		05/19/22 18:45		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/19/22 18:45		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**234**	mg/L	20.0	1		05/12/22 15:54		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/06/22 16:28	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		05/13/22 23:55	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	05/23/22 06:50	05/23/22 19:12	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**4.0**	mg/L	0.25	5		05/17/22 03:29	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/07/22 04:29	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-09B_5/5/2022 **Lab ID: 70213830004** Collected: 05/05/22 13:15 Received: 05/05/22 18:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	05/13/22 11:40	05/13/22 15:55		
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	05/12/22 13:25	05/12/22 17:26	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**61.9**	mg/L	40.0	20		05/13/22 11:55	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.47**	mg/L	0.10	1		05/17/22 12:46	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-09B_5/5/2022 DISS **Lab ID: 70213830005** Collected: 05/05/22 13:15 Received: 05/05/22 18:02 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		05/12/22 19:22	7429-90-5	
Barium, Dissolved	**105J**	ug/L	200	1		05/12/22 19:22	7440-39-3	
Calcium, Dissolved	**13300**	ug/L	1000	1		05/12/22 19:22	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/12/22 19:22	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/12/22 19:22	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		05/12/22 19:22	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/12/22 19:22	7439-92-1	
Magnesium, Dissolved	**5850**	ug/L	1000	1		05/12/22 19:22	7439-95-4	
Manganese, Dissolved	**2970**	ug/L	10.0	1		05/12/22 19:22	7439-96-5	
Nickel, Dissolved	**4.9J**	ug/L	40.0	1		05/12/22 19:22	7440-02-0	
Potassium, Dissolved	**9710**	ug/L	5000	1		05/12/22 19:22	7440-09-7	
Sodium, Dissolved	**57000**	ug/L	5000	1		05/12/22 19:22	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/12/22 19:22	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	05/25/22 14:38	05/26/22 11:30	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/06/22 16:29	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-09C_5/5/2022 **Lab ID: 70213830006** Collected: 05/05/22 14:30 Received: 05/05/22 18:02 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	05/12/22 09:20	05/13/22 21:15	7429-90-5	
Barium	**69.4J**	ug/L	200	1	05/12/22 09:20	05/13/22 21:15	7440-39-3	
Calcium	**12300**	ug/L	200	1	05/12/22 09:20	05/13/22 21:15	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/12/22 09:20	05/13/22 21:15	7440-47-3	
Copper	**3.9J**	ug/L	25.0	1	05/12/22 09:20	05/13/22 21:15	7440-50-8	
Iron	**<100**	ug/L	100	1	05/12/22 09:20	05/13/22 21:15	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/12/22 09:20	05/13/22 21:15	7439-92-1	
Magnesium	**7680**	ug/L	200	1	05/12/22 09:20	05/13/22 21:15	7439-95-4	
Manganese	**325**	ug/L	10.0	1	05/12/22 09:20	05/13/22 21:15	7439-96-5	
Nickel	**6.4J**	ug/L	40.0	1	05/12/22 09:20	05/13/22 21:15	7440-02-0	
Potassium	**12200**	ug/L	5000	1	05/12/22 09:20	05/13/22 21:15	7440-09-7	
Sodium	**62900**	ug/L	5000	1	05/12/22 09:20	05/13/22 21:15	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/12/22 09:20	05/13/22 21:15	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**62300**	ug/L	830	1		05/13/22 21:15		
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	05/23/22 16:15	05/24/22 11:12	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/16/22 22:30	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/16/22 22:30	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/16/22 22:30	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:30	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:30	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/16/22 22:30	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:30	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/16/22 22:30	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/16/22 22:30	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/16/22 22:30	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:30	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:30	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:30	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/16/22 22:30	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/16/22 22:30	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/16/22 22:30	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 22:30	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 22:30	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 22:30	156-60-5	L1
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/16/22 22:30	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:30	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-09C_5/5/2022 **Lab ID: 70213830006** Collected: 05/05/22 14:30 Received: 05/05/22 18:02 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							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/16/22 22:30	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/16/22 22:30	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/16/22 22:30	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/16/22 22:30	108-88-3	L1
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/16/22 22:30	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 22:30	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/16/22 22:30	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/16/22 22:30	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/16/22 22:30	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/16/22 22:30	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		05/16/22 22:30	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		05/16/22 22:30	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		05/16/22 22:30	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**57.5**	mg/L	1.0	1		05/19/22 18:39		
Alkalinity,Bicarbonate (CaCO3)	**57.5**	mg/L	1.0	1		05/19/22 18:39		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/19/22 18:39		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**294**	mg/L	20.0	1		05/12/22 15:54		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/06/22 16:31	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**22.2**	mg/L	5.0	1		05/14/22 00:09	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	**3.4**	mg/L	0.10	1	05/23/22 06:50	05/23/22 19:13	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**0.092**	mg/L	0.050	1		05/17/22 02:46	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		05/07/22 04:30	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-09C_5/5/2022 **Lab ID: 70213830006** Collected: 05/05/22 14:30 Received: 05/05/22 18:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	05/13/22 11:40	05/13/22 15:56		
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	05/12/22 13:25	05/12/22 17:29	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**72.5**	mg/L	40.0	20		05/13/22 11:55	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**3.0**	mg/L	0.10	1		05/17/22 12:47	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-09C_5/5/2022 DISS **Lab ID: 70213830007** Collected: 05/05/22 14:30 Received: 05/05/22 18:02 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		05/12/22 19:25	7429-90-5	
Barium, Dissolved	**70.2J**	ug/L	200	1		05/12/22 19:25	7440-39-3	
Calcium, Dissolved	**12300**	ug/L	1000	1		05/12/22 19:25	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/12/22 19:25	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/12/22 19:25	7440-50-8	
Iron, Dissolved	**8.4J**	ug/L	20.0	1		05/12/22 19:25	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/12/22 19:25	7439-92-1	
Magnesium, Dissolved	**7570**	ug/L	1000	1		05/12/22 19:25	7439-95-4	
Manganese, Dissolved	**324**	ug/L	10.0	1		05/12/22 19:25	7439-96-5	
Nickel, Dissolved	**5.9J**	ug/L	40.0	1		05/12/22 19:25	7440-02-0	
Potassium, Dissolved	**11900**	ug/L	5000	1		05/12/22 19:25	7440-09-7	
Sodium, Dissolved	**63900**	ug/L	5000	1		05/12/22 19:25	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/12/22 19:25	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	05/25/22 14:38	05/26/22 11:34	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/06/22 16:31	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-05B_5/5/2022 **Lab ID: 70213830008** Collected: 05/05/22 16:45 Received: 05/05/22 18:02 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	05/12/22 09:20	05/13/22 21:17	7429-90-5	
Barium	**34.4J**	ug/L	200	1	05/12/22 09:20	05/13/22 21:17	7440-39-3	
Calcium	**10600**	ug/L	200	1	05/12/22 09:20	05/13/22 21:17	7440-70-2	
Chromium	**1.1J**	ug/L	10.0	1	05/12/22 09:20	05/13/22 21:17	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/12/22 09:20	05/13/22 21:17	7440-50-8	
Iron	**<100**	ug/L	100	1	05/12/22 09:20	05/13/22 21:17	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/12/22 09:20	05/13/22 21:17	7439-92-1	
Magnesium	**4460**	ug/L	200	1	05/12/22 09:20	05/13/22 21:17	7439-95-4	
Manganese	**2510**	ug/L	10.0	1	05/12/22 09:20	05/13/22 21:17	7439-96-5	
Nickel	**10.1J**	ug/L	40.0	1	05/12/22 09:20	05/13/22 21:17	7440-02-0	
Potassium	**8880**	ug/L	5000	1	05/12/22 09:20	05/13/22 21:17	7440-09-7	
Sodium	**57000**	ug/L	5000	1	05/12/22 09:20	05/13/22 21:17	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/12/22 09:20	05/13/22 21:17	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**44800**	ug/L	830	1		05/13/22 21:17		
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	05/23/22 16:15	05/24/22 11:13	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/16/22 22:49	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/16/22 22:49	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/16/22 22:49	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:49	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:49	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/16/22 22:49	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:49	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/16/22 22:49	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/16/22 22:49	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/16/22 22:49	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:49	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:49	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:49	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/16/22 22:49	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/16/22 22:49	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/16/22 22:49	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 22:49	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 22:49	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 22:49	156-60-5	L1
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/16/22 22:49	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/16/22 22:49	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-05B_5/5/2022 **Lab ID: 70213830008** Collected: 05/05/22 16:45 Received: 05/05/22 18:02 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							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/16/22 22:49	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/16/22 22:49	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/16/22 22:49	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/16/22 22:49	108-88-3	L1
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/16/22 22:49	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/16/22 22:49	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/16/22 22:49	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/16/22 22:49	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/16/22 22:49	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/16/22 22:49	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		05/16/22 22:49	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/16/22 22:49	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		05/16/22 22:49	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**37.9**	mg/L	1.0	1		05/19/22 18:32		
Alkalinity,Bicarbonate (CaCO3)	**37.9**	mg/L	1.0	1		05/19/22 18:32		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/19/22 18:32		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**268**	mg/L	20.0	1		05/12/22 15:54		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/06/22 16:32	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**21.3**	mg/L	5.0	1		05/14/22 00:22	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	**0.18**	mg/L	0.10	1	05/23/22 06:50	05/23/22 19:14	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**2.1**	mg/L	0.050	1		05/17/22 02:53	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		05/07/22 04:32	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-05B_5/5/2022 **Lab ID: 70213830008** Collected: 05/05/22 16:45 Received: 05/05/22 18:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	05/13/22 11:40	05/13/22 15:57		
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	05/12/22 13:25	05/12/22 17:29	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**80.1**	mg/L	40.0	20		05/13/22 11:54	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.061J**	mg/L	0.10	1		05/17/22 12:49	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-05B_5/5/2022 DISS **Lab ID: 70213830009** Collected: 05/05/22 16:45 Received: 05/05/22 18:02 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		05/12/22 19:27	7429-90-5	
Barium, Dissolved	**36.0J**	ug/L	200	1		05/12/22 19:27	7440-39-3	
Calcium, Dissolved	**11200**	ug/L	1000	1		05/12/22 19:27	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/12/22 19:27	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/12/22 19:27	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		05/12/22 19:27	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/12/22 19:27	7439-92-1	
Magnesium, Dissolved	**4580**	ug/L	1000	1		05/12/22 19:27	7439-95-4	
Manganese, Dissolved	**2600**	ug/L	10.0	1		05/12/22 19:27	7439-96-5	
Nickel, Dissolved	**8.4J**	ug/L	40.0	1		05/12/22 19:27	7440-02-0	
Potassium, Dissolved	**9140**	ug/L	5000	1		05/12/22 19:27	7440-09-7	
Sodium, Dissolved	**60300**	ug/L	5000	1		05/12/22 19:27	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/12/22 19:27	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	05/25/22 14:38	05/26/22 11:38	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/06/22 16:32	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: TRIP BLANK_5/10/2022 **Lab ID: 70213830010** Collected: 05/10/22 00:00 Received: 05/10/22 14:45 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		05/18/22 19:12	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/18/22 19:12	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/18/22 19:12	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:12	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:12	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/18/22 19:12	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:12	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/18/22 19:12	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/18/22 19:12	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/18/22 19:12	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:12	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:12	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:12	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/18/22 19:12	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 19:12	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 19:12	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 19:12	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 19:12	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 19:12	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/18/22 19:12	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:12	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/18/22 19:12	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/18/22 19:12	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/18/22 19:12	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/18/22 19:12	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 19:12	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 19:12	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/18/22 19:12	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/18/22 19:12	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/18/22 19:12	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/18/22 19:12	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	85	%	81-122	1		05/18/22 19:12	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-118	1		05/18/22 19:12	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		05/18/22 19:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-08B_5/10/2022 **Lab ID: 70213830011** Collected: 05/10/22 09:50 Received: 05/10/22 14:45 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	05/12/22 09:20	05/13/22 22:00	7429-90-5	
Barium	**66.7J**	ug/L	200	1	05/12/22 09:20	05/13/22 22:00	7440-39-3	
Calcium	**13400**	ug/L	200	1	05/12/22 09:20	05/13/22 22:00	7440-70-2	
Chromium	**1.2J**	ug/L	10.0	1	05/12/22 09:20	05/13/22 22:00	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/12/22 09:20	05/13/22 22:00	7440-50-8	
Iron	**<100**	ug/L	100	1	05/12/22 09:20	05/13/22 22:00	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/12/22 09:20	05/13/22 22:00	7439-92-1	
Magnesium	**4100**	ug/L	200	1	05/12/22 09:20	05/13/22 22:00	7439-95-4	
Manganese	**579**	ug/L	10.0	1	05/12/22 09:20	05/13/22 22:00	7439-96-5	
Nickel	**17.7J**	ug/L	40.0	1	05/12/22 09:20	05/13/22 22:00	7440-02-0	
Potassium	**8200**	ug/L	5000	1	05/12/22 09:20	05/13/22 22:00	7440-09-7	
Sodium	**101000**	ug/L	5000	1	05/12/22 09:20	05/13/22 22:00	7440-23-5	
Zinc	**31.2**	ug/L	20.0	1	05/12/22 09:20	05/13/22 22:00	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**50300**	ug/L	830	1		05/13/22 22:00		
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	05/23/22 16:15	05/24/22 11:17	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/18/22 19:51	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/18/22 19:51	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/18/22 19:51	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:51	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:51	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/18/22 19:51	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:51	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/18/22 19:51	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/18/22 19:51	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/18/22 19:51	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:51	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:51	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:51	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/18/22 19:51	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 19:51	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 19:51	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 19:51	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 19:51	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 19:51	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/18/22 19:51	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:51	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-08B_5/10/2022 **Lab ID: 70213830011** Collected: 05/10/22 09:50 Received: 05/10/22 14:45 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							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/18/22 19:51	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/18/22 19:51	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/18/22 19:51	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/18/22 19:51	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 19:51	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 19:51	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/18/22 19:51	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/18/22 19:51	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/18/22 19:51	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/18/22 19:51	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	85	%	81-122	1		05/18/22 19:51	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-118	1		05/18/22 19:51	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/18/22 19:51	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**6.5**	mg/L	1.0	1		05/23/22 19:54		
Alkalinity,Bicarbonate (CaCO3)	**6.5**	mg/L	1.0	1		05/23/22 19:54		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/23/22 19:54		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**391**	mg/L	10.0	1		05/17/22 14:24		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/11/22 09:49	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**23.6**	mg/L	5.0	1		05/17/22 00:04	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	05/23/22 06:50	05/23/22 19:16	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**2.4**	mg/L	0.050	1		05/17/22 13:16	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		05/11/22 12:39	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-08B_5/10/2022 **Lab ID: 70213830011** Collected: 05/10/22 09:50 Received: 05/10/22 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**4.7J**	ug/L	5.0	1	05/16/22 11:10	05/16/22 14:54		
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	05/18/22 14:20	05/18/22 18:04	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**115**	mg/L	100	50		05/13/22 11:53	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.067J**	mg/L	0.10	1		05/17/22 12:50	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-08B_5/10/2022 DISS **Lab ID: 70213830012** Collected: 05/10/22 09:50 Received: 05/10/22 14:45 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		05/12/22 19:32	7429-90-5	
Barium, Dissolved	**65.7J**	ug/L	200	1		05/12/22 19:32	7440-39-3	
Calcium, Dissolved	**13300**	ug/L	1000	1		05/12/22 19:32	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/12/22 19:32	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/12/22 19:32	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		05/12/22 19:32	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/12/22 19:32	7439-92-1	
Magnesium, Dissolved	**3970**	ug/L	1000	1		05/12/22 19:32	7439-95-4	
Manganese, Dissolved	**563**	ug/L	10.0	1		05/12/22 19:32	7439-96-5	
Nickel, Dissolved	**15.9J**	ug/L	40.0	1		05/12/22 19:32	7440-02-0	
Potassium, Dissolved	**7970**	ug/L	5000	1		05/12/22 19:32	7440-09-7	
Sodium, Dissolved	**101000**	ug/L	5000	1		05/12/22 19:32	7440-23-5	
Zinc, Dissolved	**30.5**	ug/L	20.0	1		05/12/22 19:32	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	05/25/22 14:38	05/26/22 11:40	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/11/22 09:49	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-08A_5/10/2022 **Lab ID: 70213830013** Collected: 05/10/22 11:10 Received: 05/10/22 14:45 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	05/12/22 09:20	05/13/22 22:02	7429-90-5	
Barium	**63.7J**	ug/L	200	1	05/12/22 09:20	05/13/22 22:02	7440-39-3	
Calcium	**11100**	ug/L	200	1	05/12/22 09:20	05/13/22 22:02	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/12/22 09:20	05/13/22 22:02	7440-47-3	
Copper	**5.4J**	ug/L	25.0	1	05/12/22 09:20	05/13/22 22:02	7440-50-8	
Iron	**<100**	ug/L	100	1	05/12/22 09:20	05/13/22 22:02	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/12/22 09:20	05/13/22 22:02	7439-92-1	
Magnesium	**4820**	ug/L	200	1	05/12/22 09:20	05/13/22 22:02	7439-95-4	
Manganese	**126**	ug/L	10.0	1	05/12/22 09:20	05/13/22 22:02	7439-96-5	
Nickel	**9.5J**	ug/L	40.0	1	05/12/22 09:20	05/13/22 22:02	7440-02-0	
Potassium	**6840**	ug/L	5000	1	05/12/22 09:20	05/13/22 22:02	7440-09-7	
Sodium	**24500**	ug/L	5000	1	05/12/22 09:20	05/13/22 22:02	7440-23-5	
Zinc	**12.8J**	ug/L	20.0	1	05/12/22 09:20	05/13/22 22:02	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**47600**	ug/L	830	1		05/13/22 22:02		
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	05/23/22 16:15	05/24/22 11:19	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/18/22 20:10	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/18/22 20:10	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/18/22 20:10	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:10	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:10	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/18/22 20:10	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:10	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/18/22 20:10	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/18/22 20:10	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/18/22 20:10	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:10	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:10	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:10	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/18/22 20:10	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 20:10	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 20:10	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 20:10	75-35-4	
cis-1,2-Dichloroethene	**11.5**	ug/L	1.0	1		05/18/22 20:10	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 20:10	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/18/22 20:10	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:10	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-08A_5/10/2022 **Lab ID: 70213830013** Collected: 05/10/22 11:10 Received: 05/10/22 14:45 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							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/18/22 20:10	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/18/22 20:10	75-09-2	
Tetrachloroethene	**6.4**	ug/L	1.0	1		05/18/22 20:10	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/18/22 20:10	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 20:10	71-55-6	
Trichloroethene	**1.8**	ug/L	1.0	1		05/18/22 20:10	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/18/22 20:10	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/18/22 20:10	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/18/22 20:10	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/18/22 20:10	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%	81-122	1		05/18/22 20:10	17060-07-0	
4-Bromofluorobenzene (S)	103	%	79-118	1		05/18/22 20:10	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/18/22 20:10	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**16.2**	mg/L	1.0	1		05/23/22 20:00		
Alkalinity,Bicarbonate (CaCO3)	**16.2**	mg/L	1.0	1		05/23/22 20:00		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/23/22 20:00		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**188**	mg/L	10.0	1		05/17/22 14:24		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/11/22 10:02	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**33.0**	mg/L	5.0	1		05/17/22 00:18	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	05/23/22 06:50	05/23/22 19:19	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**1.9**	mg/L	0.050	1		05/17/22 13:17	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		05/11/22 12:48	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-08A_5/10/2022 **Lab ID: 70213830013** Collected: 05/10/22 11:10 Received: 05/10/22 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	05/16/22 11:10	05/16/22 14:55		
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	05/18/22 14:20	05/18/22 18:05	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**39.3**	mg/L	2.0	1		05/13/22 11:42	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		05/17/22 12:51	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-08A_5/10/2022 DISS **Lab ID: 70213830014** Collected: 05/10/22 11:10 Received: 05/10/22 14:45 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		05/12/22 19:39	7429-90-5	
Barium, Dissolved	**58.9J**	ug/L	200	1		05/12/22 19:39	7440-39-3	
Calcium, Dissolved	**9520**	ug/L	1000	1		05/12/22 19:39	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/12/22 19:39	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/12/22 19:39	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		05/12/22 19:39	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/12/22 19:39	7439-92-1	
Magnesium, Dissolved	**4480**	ug/L	1000	1		05/12/22 19:39	7439-95-4	
Manganese, Dissolved	**115**	ug/L	10.0	1		05/12/22 19:39	7439-96-5	
Nickel, Dissolved	**8.6J**	ug/L	40.0	1		05/12/22 19:39	7440-02-0	
Potassium, Dissolved	**6070**	ug/L	5000	1		05/12/22 19:39	7440-09-7	
Sodium, Dissolved	**22100**	ug/L	5000	1		05/12/22 19:39	7440-23-5	
Zinc, Dissolved	**9.8J**	ug/L	20.0	1		05/12/22 19:39	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	05/25/22 14:38	05/26/22 11:41	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/11/22 10:02	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: BLIND DUPLICATE_5/10/2022 **Lab ID: 70213830015** Collected: 05/10/22 00:00 Received: 05/10/22 14:45 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	05/12/22 14:00	05/13/22 20:32	7429-90-5	
Barium	**62.7J**	ug/L	200	1	05/12/22 14:00	05/13/22 20:32	7440-39-3	
Calcium	**12600**	ug/L	200	1	05/12/22 14:00	05/13/22 20:32	7440-70-2	
Chromium	**1.3J**	ug/L	10.0	1	05/12/22 14:00	05/13/22 20:32	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/12/22 14:00	05/13/22 20:32	7440-50-8	
Iron	**<100**	ug/L	100	1	05/12/22 14:00	05/13/22 20:32	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/12/22 14:00	05/13/22 20:32	7439-92-1	
Magnesium	**3850**	ug/L	200	1	05/12/22 14:00	05/13/22 20:32	7439-95-4	
Manganese	**557**	ug/L	10.0	1	05/12/22 14:00	05/13/22 20:32	7439-96-5	
Nickel	**16.6J**	ug/L	40.0	1	05/12/22 14:00	05/13/22 20:32	7440-02-0	
Potassium	**8100**	ug/L	5000	1	05/12/22 14:00	05/13/22 20:32	7440-09-7	
Sodium	**96300**	ug/L	5000	1	05/12/22 14:00	05/13/22 20:32	7440-23-5	
Zinc	**29.9**	ug/L	20.0	1	05/12/22 14:00	05/13/22 20:32	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**47300**	ug/L	830	1		05/13/22 20:32		
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	05/23/22 16:15	05/24/22 11:20	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/18/22 20:29	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/18/22 20:29	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/18/22 20:29	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:29	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:29	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/18/22 20:29	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:29	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/18/22 20:29	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/18/22 20:29	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/18/22 20:29	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:29	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:29	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:29	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/18/22 20:29	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 20:29	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 20:29	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 20:29	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 20:29	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 20:29	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/18/22 20:29	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:29	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: BLIND DUPLICATE_5/10/2022 **Lab ID: 70213830015** Collected: 05/10/22 00:00 Received: 05/10/22 14:45 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							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/18/22 20:29	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/18/22 20:29	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/18/22 20:29	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/18/22 20:29	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 20:29	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 20:29	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/18/22 20:29	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/18/22 20:29	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/18/22 20:29	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/18/22 20:29	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%	81-122	1		05/18/22 20:29	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		05/18/22 20:29	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/18/22 20:29	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**6.6**	mg/L	1.0	1		05/23/22 20:05		
Alkalinity,Bicarbonate (CaCO3)	**6.6**	mg/L	1.0	1		05/23/22 20:05		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/23/22 20:05		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**357**	mg/L	10.0	1		05/17/22 14:32		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/11/22 09:48	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**23.7**	mg/L	5.0	1		05/17/22 01:12	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	05/23/22 06:50	05/23/22 19:20	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**2.5**	mg/L	0.050	1		05/17/22 13:22	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		05/10/22 23:53	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: BLIND DUPLICATE_5/10/2022 **Lab ID: 70213830015** Collected: 05/10/22 00:00 Received: 05/10/22 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**7.2**	ug/L	5.0	1	05/16/22 11:10	05/16/22 14:55		
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	05/18/22 14:20	05/18/22 18:06	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**154**	mg/L	40.0	20		05/13/22 11:56	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.064J**	mg/L	0.10	1		05/17/22 12:52	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: BLIND DUPLICATE_5/10/2022 DISS **Lab ID: 70213830016** Collected: 05/10/22 00:00 Received: 05/10/22 14:45 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		05/12/22 19:41	7429-90-5	
Barium, Dissolved	**66.1J**	ug/L	200	1		05/12/22 19:41	7440-39-3	
Calcium, Dissolved	**13400**	ug/L	1000	1		05/12/22 19:41	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/12/22 19:41	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/12/22 19:41	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		05/12/22 19:41	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/12/22 19:41	7439-92-1	
Magnesium, Dissolved	**4010**	ug/L	1000	1		05/12/22 19:41	7439-95-4	
Manganese, Dissolved	**568**	ug/L	10.0	1		05/12/22 19:41	7439-96-5	
Nickel, Dissolved	**15.9J**	ug/L	40.0	1		05/12/22 19:41	7440-02-0	
Potassium, Dissolved	**7940**	ug/L	5000	1		05/12/22 19:41	7440-09-7	
Sodium, Dissolved	**102000**	ug/L	5000	1		05/12/22 19:41	7440-23-5	
Zinc, Dissolved	**30.5**	ug/L	20.0	1		05/12/22 19:41	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	05/25/22 14:38	05/26/22 11:42	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/11/22 09:49	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06C_5/10/2022 **Lab ID: 70213830017** Collected: 05/10/22 13:20 Received: 05/10/22 14:45 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	**235**	ug/L	200	1	05/12/22 14:00	05/13/22 20:34	7429-90-5	
Barium	**29.8J**	ug/L	200	1	05/12/22 14:00	05/13/22 20:34	7440-39-3	
Calcium	**52200**	ug/L	200	1	05/12/22 14:00	05/13/22 20:34	7440-70-2	
Chromium	**8.6J**	ug/L	10.0	1	05/12/22 14:00	05/13/22 20:34	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/12/22 14:00	05/13/22 20:34	7440-50-8	
Iron	**5420**	ug/L	100	1	05/12/22 14:00	05/13/22 20:34	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/12/22 14:00	05/13/22 20:34	7439-92-1	
Magnesium	**11800**	ug/L	200	1	05/12/22 14:00	05/13/22 20:34	7439-95-4	
Manganese	**186**	ug/L	10.0	1	05/12/22 14:00	05/13/22 20:34	7439-96-5	
Nickel	**14.2J**	ug/L	40.0	1	05/12/22 14:00	05/13/22 20:34	7440-02-0	
Potassium	**46400**	ug/L	5000	1	05/12/22 14:00	05/13/22 20:34	7440-09-7	
Sodium	**263000**	ug/L	5000	1	05/12/22 14:00	05/13/22 20:34	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/12/22 14:00	05/13/22 20:34	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**179000**	ug/L	830	1		05/13/22 20:34		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	05/23/22 16:15	05/24/22 11:22	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/18/22 20:48	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/18/22 20:48	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/18/22 20:48	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:48	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:48	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/18/22 20:48	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:48	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/18/22 20:48	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/18/22 20:48	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/18/22 20:48	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:48	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:48	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:48	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/18/22 20:48	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 20:48	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 20:48	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 20:48	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 20:48	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 20:48	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/18/22 20:48	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 20:48	100-41-4	

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06C_5/10/2022 **Lab ID: 70213830017** Collected: 05/10/22 13:20 Received: 05/10/22 14:45 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							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/18/22 20:48	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/18/22 20:48	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/18/22 20:48	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/18/22 20:48	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 20:48	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 20:48	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/18/22 20:48	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/18/22 20:48	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/18/22 20:48	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/18/22 20:48	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	84	%	81-122	1		05/18/22 20:48	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-118	1		05/18/22 20:48	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		05/18/22 20:48	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**532**	mg/L	1.0	1		05/23/22 20:28		
Alkalinity,Bicarbonate (CaCO3)	**532**	mg/L	1.0	1		05/23/22 20:28		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/23/22 20:28		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**950**	mg/L	20.0	1		05/17/22 14:33		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/11/22 10:02	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**10.8**	mg/L	5.0	1		05/17/22 01:26	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	**35.4**	mg/L	1.0	10	05/23/22 06:50	05/23/22 20:07	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		05/17/22 13:23	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		05/11/22 13:19	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06C_5/10/2022 **Lab ID: 70213830017** Collected: 05/10/22 13:20 Received: 05/10/22 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**12.0**	ug/L	5.0	1	05/16/22 11:10	05/16/22 14:56		
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	05/18/22 14:20	05/18/22 18:07	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**224**	mg/L	20.0	10		05/13/22 11:39	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**35.8**	mg/L	2.0	20		05/17/22 13:07	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06C_5/10/2022 DISS **Lab ID: 70213830018** Collected: 05/10/22 13:20 Received: 05/10/22 14:45 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		05/16/22 15:02	7429-90-5	
Barium, Dissolved	**35.7J**	ug/L	200	1		05/16/22 15:02	7440-39-3	
Calcium, Dissolved	**93000**	ug/L	1000	1		05/16/22 15:02	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/16/22 15:02	7440-47-3	
Copper, Dissolved	**9.0J**	ug/L	25.0	1		05/16/22 15:02	7440-50-8	
Iron, Dissolved	**3940**	ug/L	20.0	1		05/16/22 15:02	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/16/22 15:02	7439-92-1	
Magnesium, Dissolved	**24800**	ug/L	1000	1		05/16/22 15:02	7439-95-4	
Manganese, Dissolved	**139**	ug/L	10.0	1		05/16/22 15:02	7439-96-5	
Nickel, Dissolved	**15.8J**	ug/L	40.0	1		05/16/22 15:02	7440-02-0	
Potassium, Dissolved	**36700**	ug/L	5000	1		05/16/22 15:02	7440-09-7	
Sodium, Dissolved	**200000**	ug/L	5000	1		05/16/22 15:02	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/16/22 15:02	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	05/25/22 14:38	05/26/22 11:44	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/11/22 10:05	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: FIELD BLANK_5/10/2022 **Lab ID: 70213830019** Collected: 05/10/22 13:45 Received: 05/10/22 14:45 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	05/12/22 14:00	05/13/22 20:36	7429-90-5	
Barium	**<200**	ug/L	200	1	05/12/22 14:00	05/13/22 20:36	7440-39-3	
Calcium	**69.1J**	ug/L	200	1	05/12/22 14:00	05/13/22 20:36	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/12/22 14:00	05/13/22 20:36	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/12/22 14:00	05/13/22 20:36	7440-50-8	
Iron	**24.0J**	ug/L	100	1	05/12/22 14:00	05/13/22 20:36	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/12/22 14:00	05/13/22 20:36	7439-92-1	
Magnesium	**<200**	ug/L	200	1	05/12/22 14:00	05/13/22 20:36	7439-95-4	
Manganese	**<10.0**	ug/L	10.0	1	05/12/22 14:00	05/13/22 20:36	7439-96-5	
Nickel	**<40.0**	ug/L	40.0	1	05/12/22 14:00	05/13/22 20:36	7440-02-0	
Potassium	**<5000**	ug/L	5000	1	05/12/22 14:00	05/13/22 20:36	7440-09-7	
Sodium	**<5000**	ug/L	5000	1	05/12/22 14:00	05/13/22 20:36	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/12/22 14:00	05/13/22 20:36	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		05/13/22 20:36		
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	05/23/22 16:15	05/24/22 11:23	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/18/22 18:53	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/18/22 18:53	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/18/22 18:53	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 18:53	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 18:53	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/18/22 18:53	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 18:53	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/18/22 18:53	75-00-3	
Chloroform	**1.0**	ug/L	1.0	1		05/18/22 18:53	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/18/22 18:53	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 18:53	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 18:53	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 18:53	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/18/22 18:53	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 18:53	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 18:53	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 18:53	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 18:53	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 18:53	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/18/22 18:53	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 18:53	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: FIELD BLANK_5/10/2022 **Lab ID: 70213830019** Collected: 05/10/22 13:45 Received: 05/10/22 14:45 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							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/18/22 18:53	98-82-8	
Methylene Chloride	**3.6**	ug/L	1.0	1		05/18/22 18:53	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/18/22 18:53	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/18/22 18:53	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 18:53	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 18:53	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/18/22 18:53	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/18/22 18:53	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/18/22 18:53	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/18/22 18:53	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	83	%	81-122	1		05/18/22 18:53	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-118	1		05/18/22 18:53	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		05/18/22 18:53	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**<1.0**	mg/L	1.0	1		05/23/22 20:31		
Alkalinity,Bicarbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/23/22 20:31		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/23/22 20:31		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**28.0**	mg/L	10.0	1		05/17/22 14:33		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/11/22 10:06	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**0.18J**	mg/L	5.0	1		05/17/22 01:39	14808-79-8	B
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**0.50**	mg/L	0.10	1	05/23/22 06:50	05/23/22 19:21	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**0.040J**	mg/L	0.050	1		05/17/22 13:24	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/11/22 13:20	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: FIELD BLANK_5/10/2022 **Lab ID: 70213830019** Collected: 05/10/22 13:45 Received: 05/10/22 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	05/19/22 11:20	05/19/22 15:08		
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	05/18/22 14:20	05/18/22 18:08	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**<2.0**	mg/L	2.0	1		05/13/22 11:38	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		05/17/22 12:57	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: FIELD BLANK_5/10/2022 DISS **Lab ID: 70213830020** Collected: 05/10/22 13:45 Received: 05/10/22 14:45 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		05/16/22 15:05	7429-90-5	
Barium, Dissolved	**36.6J**	ug/L	200	1		05/16/22 15:05	7440-39-3	
Calcium, Dissolved	**68600**	ug/L	1000	1		05/16/22 15:05	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/16/22 15:05	7440-47-3	
Copper, Dissolved	**6.4J**	ug/L	25.0	1		05/16/22 15:05	7440-50-8	
Iron, Dissolved	**22.8**	ug/L	20.0	1		05/16/22 15:05	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/16/22 15:05	7439-92-1	
Magnesium, Dissolved	**23000**	ug/L	1000	1		05/16/22 15:05	7439-95-4	
Manganese, Dissolved	**191**	ug/L	10.0	1		05/16/22 15:05	7439-96-5	
Nickel, Dissolved	**10.6J**	ug/L	40.0	1		05/16/22 15:05	7440-02-0	
Potassium, Dissolved	**8890**	ug/L	5000	1		05/16/22 15:05	7440-09-7	
Sodium, Dissolved	**157000**	ug/L	5000	1		05/16/22 15:05	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/16/22 15:05	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	05/25/22 14:38	05/26/22 11:45	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/11/22 10:07	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: TRIP BLANK_5/11/22 **Lab ID: 70213830021** Collected: 05/11/22 00:00 Received: 05/11/22 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/18/22 19:32	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/18/22 19:32	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/18/22 19:32	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:32	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:32	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/18/22 19:32	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:32	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/18/22 19:32	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/18/22 19:32	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/18/22 19:32	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:32	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:32	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:32	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/18/22 19:32	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 19:32	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 19:32	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 19:32	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 19:32	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 19:32	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/18/22 19:32	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 19:32	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/18/22 19:32	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/18/22 19:32	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/18/22 19:32	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/18/22 19:32	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 19:32	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 19:32	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/18/22 19:32	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/18/22 19:32	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/18/22 19:32	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/18/22 19:32	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	81-122	1		05/18/22 19:32	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-118	1		05/18/22 19:32	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/18/22 19:32	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06B_5/11/22 **Lab ID: 70213830022** Collected: 05/11/22 09:45 Received: 05/11/22 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	05/13/22 10:00	05/19/22 19:56	7429-90-5	
Barium	**63.5J**	ug/L	200	1	05/13/22 10:00	05/19/22 19:56	7440-39-3	
Calcium	**23400**	ug/L	200	1	05/13/22 10:00	05/19/22 19:56	7440-70-2	
Chromium	**1.7J**	ug/L	10.0	1	05/13/22 10:00	05/19/22 19:56	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/13/22 10:00	05/19/22 19:56	7440-50-8	
Iron	**14200**	ug/L	100	1	05/13/22 10:00	05/19/22 19:56	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/13/22 10:00	05/19/22 19:56	7439-92-1	
Magnesium	**23900**	ug/L	200	1	05/13/22 10:00	05/19/22 19:56	7439-95-4	
Manganese	**43.2**	ug/L	10.0	1	05/13/22 10:00	05/19/22 19:56	7439-96-5	
Nickel	**11.6J**	ug/L	40.0	1	05/13/22 10:00	05/19/22 19:56	7440-02-0	
Potassium	**118000**	ug/L	5000	1	05/13/22 10:00	05/19/22 19:56	7440-09-7	
Sodium	**195000**	ug/L	5000	1	05/13/22 10:00	05/20/22 14:08	7440-23-5	
Zinc	**15.3J**	ug/L	20.0	1	05/13/22 10:00	05/19/22 19:56	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**157000**	ug/L	830	1		05/19/22 19:56		
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	05/23/22 16:15	05/24/22 11:25	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**3.6**	ug/L	1.0	1		05/18/22 21:07	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/18/22 21:07	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/18/22 21:07	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:07	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:07	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/18/22 21:07	56-23-5	
Chlorobenzene	**12.9**	ug/L	1.0	1		05/18/22 21:07	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/18/22 21:07	75-00-3	
Chloroform	**1.3**	ug/L	1.0	1		05/18/22 21:07	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/18/22 21:07	124-48-1	
1,2-Dichlorobenzene	**1.0**	ug/L	1.0	1		05/18/22 21:07	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:07	541-73-1	
1,4-Dichlorobenzene	**3.8**	ug/L	1.0	1		05/18/22 21:07	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/18/22 21:07	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 21:07	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 21:07	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 21:07	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 21:07	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 21:07	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/18/22 21:07	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:07	100-41-4	

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06B_5/11/22 **Lab ID: 70213830022** Collected: 05/11/22 09:45 Received: 05/11/22 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**2.3**	ug/L	1.0	1		05/18/22 21:07	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/18/22 21:07	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/18/22 21:07	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/18/22 21:07	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 21:07	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 21:07	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/18/22 21:07	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/18/22 21:07	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/18/22 21:07	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/18/22 21:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%	81-122	1		05/18/22 21:07	17060-07-0	
4-Bromofluorobenzene (S)	104	%	79-118	1		05/18/22 21:07	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/18/22 21:07	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**981**	mg/L	1.0	1		05/24/22 11:07		
Alkalinity,Bicarbonate (CaCO3)	**981**	mg/L	1.0	1		05/24/22 11:07		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/24/22 11:07		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**794**	mg/L	20.0	1		05/18/22 14:20		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/12/22 10:06	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**0.63J**	mg/L	5.0	1		05/19/22 02:44	14808-79-8	B
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**150**	mg/L	5.0	10	05/23/22 06:50	05/23/22 20:08	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		05/17/22 13:27	7727-37-9	M1
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/12/22 15:44	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06B_5/11/22 **Lab ID: 70213830022** Collected: 05/11/22 09:45 Received: 05/11/22 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**18.0**	ug/L	5.0	1	05/16/22 11:10	05/16/22 14:58		
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	05/23/22 14:40	05/23/22 16:44	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**126**	mg/L	40.0	20		05/13/22 11:37	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**165**	mg/L	10.0	100		05/17/22 13:10	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06B_5/11/22 DISS **Lab ID: 70213830023** Collected: 05/11/22 09:45 Received: 05/11/22 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		05/25/22 10:55	7429-90-5	
Barium, Dissolved	**76.0J**	ug/L	200	1		05/25/22 10:55	7440-39-3	
Calcium, Dissolved	**27100**	ug/L	1000	1		05/25/22 10:55	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/25/22 10:55	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/25/22 10:55	7440-50-8	
Iron, Dissolved	**16100**	ug/L	20.0	1		05/25/22 10:55	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/25/22 10:55	7439-92-1	
Magnesium, Dissolved	**26900**	ug/L	1000	1		05/25/22 10:55	7439-95-4	
Manganese, Dissolved	**49.6**	ug/L	10.0	1		05/25/22 10:55	7439-96-5	
Nickel, Dissolved	**12.4J**	ug/L	40.0	1		05/25/22 10:55	7440-02-0	
Potassium, Dissolved	**143000**	ug/L	5000	1		05/25/22 10:55	7440-09-7	M1
Sodium, Dissolved	**247000**	ug/L	5000	1		05/25/22 10:55	7440-23-5	M1
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/25/22 10:55	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	05/25/22 14:38	05/26/22 11:47	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/12/22 10:09	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06A_5/11/22 **Lab ID: 70213830024** Collected: 05/11/22 11:30 Received: 05/11/22 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	05/13/22 10:00	05/19/22 19:59	7429-90-5	
Barium	**16.8J**	ug/L	200	1	05/13/22 10:00	05/19/22 19:59	7440-39-3	
Calcium	**1240**	ug/L	200	1	05/13/22 10:00	05/19/22 19:59	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/13/22 10:00	05/19/22 19:59	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/13/22 10:00	05/19/22 19:59	7440-50-8	
Iron	**<100**	ug/L	100	1	05/13/22 10:00	05/19/22 19:59	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/13/22 10:00	05/19/22 19:59	7439-92-1	
Magnesium	**1290**	ug/L	200	1	05/13/22 10:00	05/19/22 19:59	7439-95-4	
Manganese	**5.1J**	ug/L	10.0	1	05/13/22 10:00	05/19/22 19:59	7439-96-5	
Nickel	**4.9J**	ug/L	40.0	1	05/13/22 10:00	05/19/22 19:59	7440-02-0	
Potassium	**1520J**	ug/L	5000	1	05/13/22 10:00	05/19/22 19:59	7440-09-7	
Sodium	**6310**	ug/L	5000	1	05/13/22 10:00	05/20/22 14:10	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/13/22 10:00	05/19/22 19:59	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**8410**	ug/L	830	1		05/19/22 19:59		
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	05/23/22 16:15	05/24/22 11:26	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/18/22 21:27	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/18/22 21:27	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/18/22 21:27	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:27	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:27	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/18/22 21:27	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:27	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/18/22 21:27	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/18/22 21:27	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/18/22 21:27	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:27	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:27	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:27	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/18/22 21:27	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 21:27	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 21:27	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 21:27	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 21:27	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 21:27	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/18/22 21:27	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:27	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06A_5/11/22 **Lab ID: 70213830024** Collected: 05/11/22 11:30 Received: 05/11/22 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/18/22 21:27	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/18/22 21:27	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/18/22 21:27	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/18/22 21:27	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 21:27	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 21:27	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/18/22 21:27	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/18/22 21:27	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/18/22 21:27	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/18/22 21:27	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	81-122	1		05/18/22 21:27	17060-07-0	
4-Bromofluorobenzene (S)	103	%	79-118	1		05/18/22 21:27	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/18/22 21:27	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**4.0**	mg/L	1.0	1		05/24/22 11:24		
Alkalinity,Bicarbonate (CaCO3)	**4.0**	mg/L	1.0	1		05/24/22 11:24		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/24/22 11:24		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**46.0**	mg/L	10.0	1		05/18/22 14:21		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/12/22 10:10	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**7.1**	mg/L	5.0	1		05/19/22 03:25	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	**2.0**	mg/L	0.10	1	05/23/22 06:50	05/23/22 19:23	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**0.32**	mg/L	0.050	1		05/17/22 13:30	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		05/12/22 16:02	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06A_5/11/22 **Lab ID: 70213830024** Collected: 05/11/22 11:30 Received: 05/11/22 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**6.2**	ug/L	5.0	1	05/16/22 11:10	05/16/22 14:59		
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	05/23/22 14:40	05/23/22 16:44	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**8.4**	mg/L	2.0	1		05/13/22 11:37	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.092J**	mg/L	0.10	1		05/17/22 12:59	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06A_5/11/22 DISS **Lab ID: 70213830025** Collected: 05/11/22 11:30 Received: 05/11/22 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		05/25/22 11:02	7429-90-5	
Barium, Dissolved	**19.9J**	ug/L	200	1		05/25/22 11:02	7440-39-3	
Calcium, Dissolved	**1410**	ug/L	1000	1		05/25/22 11:02	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/25/22 11:02	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/25/22 11:02	7440-50-8	
Iron, Dissolved	**16.4J**	ug/L	20.0	1		05/25/22 11:02	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/25/22 11:02	7439-92-1	
Magnesium, Dissolved	**1440**	ug/L	1000	1		05/25/22 11:02	7439-95-4	
Manganese, Dissolved	**6.1J**	ug/L	10.0	1		05/25/22 11:02	7439-96-5	
Nickel, Dissolved	**10.5J**	ug/L	40.0	1		05/25/22 11:02	7440-02-0	
Potassium, Dissolved	**1770J**	ug/L	5000	1		05/25/22 11:02	7440-09-7	
Sodium, Dissolved	**8160**	ug/L	5000	1		05/25/22 11:02	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/25/22 11:02	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	05/25/22 14:38	05/26/22 11:48	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/12/22 10:10	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06F_5/11/22 **Lab ID: 70213830026** Collected: 05/11/22 11:50 Received: 05/11/22 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**193J**	ug/L	200	1	05/13/22 10:00	05/19/22 20:06	7429-90-5	
Barium	**277**	ug/L	200	1	05/13/22 10:00	05/19/22 20:06	7440-39-3	
Calcium	**50700**	ug/L	200	1	05/13/22 10:00	05/19/22 20:06	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/13/22 10:00	05/19/22 20:06	7440-47-3	
Copper	**5.8J**	ug/L	25.0	1	05/13/22 10:00	05/19/22 20:06	7440-50-8	
Iron	**160**	ug/L	100	1	05/13/22 10:00	05/19/22 20:06	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/13/22 10:00	05/19/22 20:06	7439-92-1	
Magnesium	**19800**	ug/L	200	1	05/13/22 10:00	05/19/22 20:06	7439-95-4	
Manganese	**145**	ug/L	10.0	1	05/13/22 10:00	05/19/22 20:06	7439-96-5	
Nickel	**32.4J**	ug/L	40.0	1	05/13/22 10:00	05/19/22 20:06	7440-02-0	
Potassium	**11200**	ug/L	5000	1	05/13/22 10:00	05/19/22 20:06	7440-09-7	
Sodium	**181000**	ug/L	5000	1	05/13/22 10:00	05/20/22 14:13	7440-23-5	
Zinc	**26.3**	ug/L	20.0	1	05/13/22 10:00	05/19/22 20:06	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		05/19/22 20:06		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**1.2**	ug/L	0.20	1	05/23/22 16:15	05/24/22 11:27	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/18/22 21:46	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/18/22 21:46	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/18/22 21:46	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:46	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:46	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/18/22 21:46	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:46	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/18/22 21:46	75-00-3	
Chloroform	**1.1**	ug/L	1.0	1		05/18/22 21:46	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/18/22 21:46	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:46	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:46	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:46	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/18/22 21:46	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 21:46	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 21:46	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 21:46	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 21:46	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 21:46	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/18/22 21:46	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 21:46	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06F_5/11/22 **Lab ID: 70213830026** Collected: 05/11/22 11:50 Received: 05/11/22 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/18/22 21:46	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/18/22 21:46	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/18/22 21:46	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/18/22 21:46	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 21:46	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 21:46	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/18/22 21:46	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/18/22 21:46	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/18/22 21:46	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/18/22 21:46	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%	81-122	1		05/18/22 21:46	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		05/18/22 21:46	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		05/18/22 21:46	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**<1.0**	mg/L	1.0	1		05/24/22 11:27		
Alkalinity,Bicarbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/24/22 11:27		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/24/22 11:27		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**737**	mg/L	10.0	1		05/18/22 14:21		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/12/22 10:11	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**0.27J**	mg/L	5.0	1		05/19/22 04:05	14808-79-8	B
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	05/23/22 06:50	05/23/22 19:24	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**4.2**	mg/L	0.25	5		05/17/22 14:06	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		05/12/22 16:03	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06F_5/11/22 **Lab ID: 70213830026** Collected: 05/11/22 11:50 Received: 05/11/22 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**6.0**	ug/L	5.0	1	05/16/22 11:10	05/16/22 15:01		
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	05/23/22 14:40	05/23/22 16:45	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**344**	mg/L	200	100		05/13/22 11:52	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.20**	mg/L	0.10	1		05/17/22 13:01	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06F_5/11/22 DISS **Lab ID: 70213830027** Collected: 05/11/22 11:50 Received: 05/11/22 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**251**	ug/L	200	1		05/25/22 11:12	7429-90-5	
Barium, Dissolved	**316**	ug/L	200	1		05/25/22 11:12	7440-39-3	
Calcium, Dissolved	**56100**	ug/L	1000	1		05/25/22 11:12	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/25/22 11:12	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/25/22 11:12	7440-50-8	
Iron, Dissolved	**51.2**	ug/L	20.0	1		05/25/22 11:12	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/25/22 11:12	7439-92-1	
Magnesium, Dissolved	**21600**	ug/L	1000	1		05/25/22 11:12	7439-95-4	
Manganese, Dissolved	**162**	ug/L	10.0	1		05/25/22 11:12	7439-96-5	
Nickel, Dissolved	**37.7J**	ug/L	40.0	1		05/25/22 11:12	7440-02-0	
Potassium, Dissolved	**13400**	ug/L	5000	1		05/25/22 11:12	7440-09-7	
Sodium, Dissolved	**231000**	ug/L	5000	1		05/25/22 11:12	7440-23-5	
Zinc, Dissolved	**28.4**	ug/L	20.0	1		05/25/22 11:12	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	05/25/22 14:38	05/26/22 11:49	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/12/22 10:12	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: TRIP BLANK_5/12/22 **Lab ID: 70213830028** Collected: 05/12/22 00:00 Received: 05/12/22 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/23/22 20:43	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/22 20:43	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/22 20:43	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/22 20:43	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/22 20:43	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/22 20:43	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/22 20:43	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/22 20:43	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/22 20:43	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/22 20:43	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/22 20:43	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/22 20:43	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/22 20:43	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/22 20:43	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/22 20:43	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/22 20:43	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/22 20:43	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/22 20:43	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/22 20:43	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/22 20:43	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/22 20:43	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/23/22 20:43	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/22 20:43	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/22 20:43	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/22 20:43	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/22 20:43	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/22 20:43	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/22 20:43	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/22 20:43	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/22 20:43	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/22 20:43	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		05/23/22 20:43	17060-07-0	
4-Bromofluorobenzene (S)	90	%	79-118	1		05/23/22 20:43	460-00-4	
Toluene-d8 (S)	95	%	82-122	1		05/23/22 20:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: LF-2_5/12/22 **Lab ID: 70213830029** Collected: 05/12/22 09:25 Received: 05/12/22 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	05/19/22 09:15	05/23/22 20:37	7429-90-5	
Barium	**67.9J**	ug/L	200	1	05/19/22 09:15	05/23/22 20:37	7440-39-3	
Calcium	**46700**	ug/L	200	1	05/19/22 09:15	05/23/22 20:37	7440-70-2	
Chromium	**11.3**	ug/L	10.0	1	05/19/22 09:15	05/23/22 20:37	7440-47-3	
Copper	**6.2J**	ug/L	25.0	1	05/19/22 09:15	05/23/22 20:37	7440-50-8	
Iron	**11300**	ug/L	100	1	05/19/22 09:15	05/23/22 20:37	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/19/22 09:15	05/23/22 20:37	7439-92-1	
Magnesium	**29100**	ug/L	200	1	05/19/22 09:15	05/23/22 20:37	7439-95-4	
Manganese	**175**	ug/L	10.0	1	05/19/22 09:15	05/23/22 20:37	7439-96-5	
Nickel	**25.8J**	ug/L	40.0	1	05/19/22 09:15	05/23/22 20:37	7440-02-0	
Potassium	**194000**	ug/L	5000	1	05/19/22 09:15	05/23/22 20:37	7440-09-7	
Sodium	**515000**	ug/L	5000	1	05/19/22 09:15	05/23/22 20:37	7440-23-5	M1
Zinc	**<20.0**	ug/L	20.0	1	05/19/22 09:15	05/23/22 20:37	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**236000**	ug/L	830	1		05/23/22 20:37		
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	05/25/22 14:38	05/26/22 12:25	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**2.8**	ug/L	1.0	1		05/18/22 22:05	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/18/22 22:05	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/18/22 22:05	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 22:05	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 22:05	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/18/22 22:05	56-23-5	
Chlorobenzene	**3.5**	ug/L	1.0	1		05/18/22 22:05	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/18/22 22:05	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/18/22 22:05	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/18/22 22:05	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 22:05	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 22:05	541-73-1	
1,4-Dichlorobenzene	**3.2**	ug/L	1.0	1		05/18/22 22:05	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/18/22 22:05	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 22:05	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 22:05	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 22:05	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 22:05	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 22:05	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/18/22 22:05	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 22:05	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: LF-2_5/12/22 **Lab ID: 70213830029** Collected: 05/12/22 09:25 Received: 05/12/22 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**8.6**	ug/L	1.0	1		05/18/22 22:05	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/18/22 22:05	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/18/22 22:05	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/18/22 22:05	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 22:05	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 22:05	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/18/22 22:05	75-01-4	
Xylene (Total)	**2.7J**	ug/L	3.0	1		05/18/22 22:05	1330-20-7	
m&p-Xylene	**1.7J**	ug/L	2.0	1		05/18/22 22:05	179601-23-1	
o-Xylene	**1.1**	ug/L	1.0	1		05/18/22 22:05	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%	81-122	1		05/18/22 22:05	17060-07-0	
4-Bromofluorobenzene (S)	103	%	79-118	1		05/18/22 22:05	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		05/18/22 22:05	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**1580**	mg/L	5.0	1		05/25/22 18:28		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**1860**	mg/L	20.0	1		05/19/22 14:03		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/13/22 13:44	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**0.19J**	mg/L	5.0	1		05/22/22 17:34	14808-79-8	B
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**169**	mg/L	5.0	10	05/23/22 06:50	05/23/22 20:08	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		05/17/22 13:35	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		05/13/22 22:03	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: LF-2_5/12/22 **Lab ID: 70213830029** Collected: 05/12/22 09:25 Received: 05/12/22 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**16.5**	ug/L	5.0	1	05/19/22 11:20	05/19/22 15:06		
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	05/24/22 13:20	05/24/22 15:26	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**446**	mg/L	20.0	10		05/17/22 14:38	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**675**	mg/L	20.0	200		05/17/22 13:11	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: LF-2_5/12/22 DISS **Lab ID: 70213830030** Collected: 05/12/22 09:25 Received: 05/12/22 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		05/25/22 11:24	7429-90-5	
Barium, Dissolved	**74.9J**	ug/L	200	1		05/25/22 11:24	7440-39-3	
Calcium, Dissolved	**51600**	ug/L	1000	1		05/25/22 11:24	7440-70-2	
Chromium, Dissolved	**12.6**	ug/L	10.0	1		05/25/22 11:24	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/25/22 11:24	7440-50-8	
Iron, Dissolved	**12100**	ug/L	20.0	1		05/25/22 11:24	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/25/22 11:24	7439-92-1	
Magnesium, Dissolved	**31700**	ug/L	1000	1		05/25/22 11:24	7439-95-4	
Manganese, Dissolved	**190**	ug/L	10.0	1		05/25/22 11:24	7439-96-5	
Nickel, Dissolved	**29.2J**	ug/L	40.0	1		05/25/22 11:24	7440-02-0	
Potassium, Dissolved	**223000**	ug/L	5000	1		05/25/22 11:24	7440-09-7	
Sodium, Dissolved	**587000**	ug/L	5000	1		05/25/22 11:24	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/25/22 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	05/25/22 14:38	05/26/22 11:51	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/13/22 13:44	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: LF-1_5/12/22 **Lab ID: 70213830031** Collected: 05/12/22 12:40 Received: 05/12/22 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	05/19/22 09:15	05/23/22 20:54	7429-90-5	
Barium	**84.7J**	ug/L	200	1	05/19/22 09:15	05/23/22 20:54	7440-39-3	
Calcium	**15400**	ug/L	200	1	05/19/22 09:15	05/23/22 20:54	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/19/22 09:15	05/23/22 20:54	7440-47-3	
Copper	**3.8J**	ug/L	25.0	1	05/19/22 09:15	05/23/22 20:54	7440-50-8	
Iron	**22400**	ug/L	100	1	05/19/22 09:15	05/23/22 20:54	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/19/22 09:15	05/23/22 20:54	7439-92-1	
Magnesium	**10700**	ug/L	200	1	05/19/22 09:15	05/23/22 20:54	7439-95-4	
Manganese	**3330**	ug/L	10.0	1	05/19/22 09:15	05/23/22 20:54	7439-96-5	
Nickel	**7.9J**	ug/L	40.0	1	05/19/22 09:15	05/23/22 20:54	7440-02-0	
Potassium	**14400**	ug/L	5000	1	05/19/22 09:15	05/23/22 20:54	7440-09-7	
Sodium	**77700**	ug/L	5000	1	05/19/22 09:15	05/23/22 20:54	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/19/22 09:15	05/23/22 20:54	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**82500**	ug/L	830	1		05/23/22 20:54		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	05/25/22 14:38	05/26/22 12:29	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/23/22 21:03	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/22 21:03	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/22 21:03	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/22 21:03	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/22 21:03	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/22 21:03	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/22 21:03	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/22 21:03	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/22 21:03	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/22 21:03	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/22 21:03	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/22 21:03	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/22 21:03	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/22 21:03	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/22 21:03	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/22 21:03	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/22 21:03	75-35-4	
cis-1,2-Dichloroethene	**2.6**	ug/L	1.0	1		05/23/22 21:03	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/22 21:03	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/22 21:03	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/22 21:03	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: LF-1_5/12/22 **Lab ID: 70213830031** Collected: 05/12/22 12:40 Received: 05/12/22 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/23/22 21:03	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/22 21:03	75-09-2	
Tetrachloroethene	**1.7**	ug/L	1.0	1		05/23/22 21:03	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/22 21:03	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/22 21:03	71-55-6	
Trichloroethene	**22.3**	ug/L	1.0	1		05/23/22 21:03	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/22 21:03	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/22 21:03	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/22 21:03	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/22 21:03	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	81-122	1		05/23/22 21:03	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-118	1		05/23/22 21:03	460-00-4	
Toluene-d8 (S)	95	%	82-122	1		05/23/22 21:03	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**54.6**	mg/L	1.0	1		05/25/22 14:44		
Alkalinity,Bicarbonate (CaCO3)	**54.6**	mg/L	1.0	1		05/25/22 14:44		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/25/22 14:44		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**304**	mg/L	20.0	1		05/19/22 14:03		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/13/22 13:44	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**33.3**	mg/L	5.0	1		05/22/22 18:28	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**1.1**	mg/L	0.10	1	05/23/22 06:50	05/23/22 19:29	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		05/17/22 13:36	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**0.048J**	mg/L	0.050	1		05/13/22 22:10	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: LF-1_5/12/22 **Lab ID: 70213830031** Collected: 05/12/22 12:40 Received: 05/12/22 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	05/19/22 11:20	05/19/22 15:06		
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	05/24/22 13:20	05/24/22 15:27	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**123**	mg/L	20.0	10		05/17/22 14:38	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.37**	mg/L	0.10	1		05/17/22 13:03	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: LF-1_5/12/22 DISS **Lab ID: 70213830032** Collected: 05/12/22 12:40 Received: 05/12/22 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		05/25/22 11:26	7429-90-5	
Barium, Dissolved	**93.7J**	ug/L	200	1		05/25/22 11:26	7440-39-3	
Calcium, Dissolved	**16900**	ug/L	1000	1		05/25/22 11:26	7440-70-2	
Chromium, Dissolved	**7.8J**	ug/L	10.0	1		05/25/22 11:26	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/25/22 11:26	7440-50-8	
Iron, Dissolved	**23900**	ug/L	20.0	1		05/25/22 11:26	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/25/22 11:26	7439-92-1	
Magnesium, Dissolved	**11800**	ug/L	1000	1		05/25/22 11:26	7439-95-4	
Manganese, Dissolved	**3590**	ug/L	10.0	1		05/25/22 11:26	7439-96-5	
Nickel, Dissolved	**9.2J**	ug/L	40.0	1		05/25/22 11:26	7440-02-0	
Potassium, Dissolved	**16000**	ug/L	5000	1		05/25/22 11:26	7440-09-7	
Sodium, Dissolved	**89200**	ug/L	5000	1		05/25/22 11:26	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/25/22 11:26	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	05/25/22 14:38	05/26/22 11:55	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/13/22 13:45	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06E_5/12/22 **Lab ID: 70213830033** Collected: 05/12/22 16:15 Received: 05/12/22 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	05/17/22 12:45	05/23/22 17:27	7429-90-5	
Barium	**169J**	ug/L	200	1	05/17/22 12:45	05/23/22 17:27	7440-39-3	
Calcium	**24600**	ug/L	200	1	05/17/22 12:45	05/23/22 17:27	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/17/22 12:45	05/23/22 17:27	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/17/22 12:45	05/23/22 17:27	7440-50-8	
Iron	**7860**	ug/L	100	1	05/17/22 12:45	05/23/22 17:27	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/17/22 12:45	05/23/22 17:27	7439-92-1	
Magnesium	**12400**	ug/L	200	1	05/17/22 12:45	05/23/22 17:27	7439-95-4	
Manganese	**316**	ug/L	10.0	1	05/17/22 12:45	05/23/22 17:27	7439-96-5	
Nickel	**15.2J**	ug/L	40.0	1	05/17/22 12:45	05/23/22 17:27	7440-02-0	
Potassium	**29100**	ug/L	5000	1	05/17/22 12:45	05/23/22 17:27	7440-09-7	
Sodium	**167000**	ug/L	5000	1	05/17/22 12:45	05/23/22 17:27	7440-23-5	
Zinc	**30.2**	ug/L	20.0	1	05/17/22 12:45	05/23/22 17:27	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**112000**	ug/L	830	1		05/23/22 17:27		
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	05/25/22 14:38	05/26/22 12:33	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/18/22 22:25	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/18/22 22:25	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/18/22 22:25	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 22:25	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 22:25	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/18/22 22:25	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 22:25	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/18/22 22:25	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/18/22 22:25	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/18/22 22:25	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 22:25	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 22:25	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/18/22 22:25	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/18/22 22:25	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 22:25	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 22:25	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 22:25	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 22:25	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 22:25	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/18/22 22:25	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/18/22 22:25	100-41-4	

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06E_5/12/22 **Lab ID: 70213830033** Collected: 05/12/22 16:15 Received: 05/12/22 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/18/22 22:25	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/18/22 22:25	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/18/22 22:25	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/18/22 22:25	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/18/22 22:25	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/18/22 22:25	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/18/22 22:25	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/18/22 22:25	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/18/22 22:25	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/18/22 22:25	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	86	%	81-122	1		05/18/22 22:25	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		05/18/22 22:25	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		05/18/22 22:25	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**81.6**	mg/L	1.0	1		05/25/22 14:51		
Alkalinity,Bicarbonate (CaCO3)	**81.6**	mg/L	1.0	1		05/25/22 14:51		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/25/22 14:51		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**647**	mg/L	10.0	1		05/19/22 14:04		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/13/22 13:45	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**43.0**	mg/L	5.0	1		05/22/22 18:42	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	**17.2**	mg/L	0.50	5	05/23/22 06:50	05/23/22 20:09	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**1.5**	mg/L	0.050	1		05/17/22 13:38	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**0.055**	mg/L	0.050	1		05/13/22 22:16	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06E_5/12/22 **Lab ID: 70213830033** Collected: 05/12/22 16:15 Received: 05/12/22 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	05/19/22 11:20	05/19/22 15:07		
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	05/24/22 13:20	05/24/22 15:28	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**277**	mg/L	40.0	20		05/17/22 14:54	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**15.7**	mg/L	10.0	100		05/17/22 13:13	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Sample: MW-06E_5/12/22 DISS **Lab ID: 70213830034** Collected: 05/12/22 16:15 Received: 05/12/22 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		05/25/22 11:28	7429-90-5	
Barium, Dissolved	**191J**	ug/L	200	1		05/25/22 11:28	7440-39-3	
Calcium, Dissolved	**27600**	ug/L	1000	1		05/25/22 11:28	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/25/22 11:28	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/25/22 11:28	7440-50-8	
Iron, Dissolved	**8390**	ug/L	20.0	1		05/25/22 11:28	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/25/22 11:28	7439-92-1	
Magnesium, Dissolved	**13900**	ug/L	1000	1		05/25/22 11:28	7439-95-4	
Manganese, Dissolved	**348**	ug/L	10.0	1		05/25/22 11:28	7439-96-5	
Nickel, Dissolved	**17.6J**	ug/L	40.0	1		05/25/22 11:28	7440-02-0	
Potassium, Dissolved	**33600**	ug/L	5000	1		05/25/22 11:28	7440-09-7	
Sodium, Dissolved	**197000**	ug/L	5000	1		05/25/22 11:28	7440-23-5	
Zinc, Dissolved	**15.4J**	ug/L	20.0	1		05/25/22 11:28	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	05/25/22 14:38	05/26/22 11:56	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/13/22 13:47	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256434 | Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 | Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830003, 70213830005, 70213830007, 70213830009, 70213830012, 70213830014, 70213830016, 70213830018, 70213830020

METHOD BLANK: 1295053 Matrix: Water
Associated Lab Samples: 70213830003, 70213830005, 70213830007, 70213830009, 70213830012, 70213830014, 70213830016, 70213830018, 70213830020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	05/12/22 18:42	
Barium, Dissolved	ug/L	<200	200	05/12/22 18:42	
Calcium, Dissolved	ug/L	<1000	1000	05/12/22 18:42	
Chromium, Dissolved	ug/L	<10.0	10.0	05/12/22 18:42	
Copper, Dissolved	ug/L	<25.0	25.0	05/12/22 18:42	
Iron, Dissolved	ug/L	<20.0	20.0	05/12/22 18:42	
Lead, Dissolved	ug/L	<5.0	5.0	05/12/22 18:42	
Magnesium, Dissolved	ug/L	<1000	1000	05/12/22 18:42	
Manganese, Dissolved	ug/L	<10.0	10.0	05/12/22 18:42	
Nickel, Dissolved	ug/L	<40.0	40.0	05/12/22 18:42	
Potassium, Dissolved	ug/L	<5000	5000	05/12/22 18:42	
Sodium, Dissolved	ug/L	<5000	5000	05/12/22 18:42	
Zinc, Dissolved	ug/L	<20.0	20.0	05/12/22 18:42	

LABORATORY CONTROL SAMPLE: 1295054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	25000	24400	98	85-115	
Barium, Dissolved	ug/L	500	482	96	85-115	
Calcium, Dissolved	ug/L	25000	24600	98	85-115	
Chromium, Dissolved	ug/L	500	485	97	85-115	
Copper, Dissolved	ug/L	500	484	97	85-115	
Iron, Dissolved	ug/L	12500	12500	100	85-115	
Lead, Dissolved	ug/L	500	487	97	85-115	
Magnesium, Dissolved	ug/L	25000	24000	96	85-115	
Manganese, Dissolved	ug/L	500	492	98	85-115	
Nickel, Dissolved	ug/L	500	488	98	85-115	
Potassium, Dissolved	ug/L	25000	23800	95	85-115	
Sodium, Dissolved	ug/L	25000	24200	97	85-115	
Zinc, Dissolved	ug/L	500	488	98	85-115	

MATRIX SPIKE SAMPLE: 1295056

Parameter	Units	70213744001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	12500	13300	106	70-130	
Barium, Dissolved	ug/L	<200	500	678	100	70-130	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

MATRIX SPIKE SAMPLE: 1295056

Parameter	Units	70213744001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	128000	12500	131000	24	70-130	M1
Chromium, Dissolved	ug/L	<10.0	500	525	105	70-130	
Copper, Dissolved	ug/L	135	500	640	101	70-130	
Iron, Dissolved	ug/L	183	5000	5480	106	70-130	
Lead, Dissolved	ug/L	<5.0	500	517	103	70-130	
Magnesium, Dissolved	ug/L	37900	12500	48100	82	70-130	
Manganese, Dissolved	ug/L	3030	500	3330	60	70-130	M1
Nickel, Dissolved	ug/L	<40.0	500	543	101	70-130	
Potassium, Dissolved	ug/L	<5000	12500	16100	108	70-130	
Sodium, Dissolved	ug/L	8030	12500	22700	117	70-130	
Zinc, Dissolved	ug/L	81.4	500	595	103	70-130	

MATRIX SPIKE SAMPLE: 1295058

Parameter	Units	70213744002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	12500	12400	99	70-130	
Barium, Dissolved	ug/L	<200	500	491	97	70-130	
Calcium, Dissolved	ug/L	63800	12500	70900	57	70-130	M1
Chromium, Dissolved	ug/L	<10.0	500	494	99	70-130	
Copper, Dissolved	ug/L	<25.0	500	491	97	70-130	
Iron, Dissolved	ug/L	<20.0	5000	5010	100	70-130	
Lead, Dissolved	ug/L	<5.0	500	484	97	70-130	
Magnesium, Dissolved	ug/L	28700	12500	38500	78	70-130	
Manganese, Dissolved	ug/L	1700	500	2060	72	70-130	
Nickel, Dissolved	ug/L	<40.0	500	512	95	70-130	
Potassium, Dissolved	ug/L	<5000	12500	16200	109	70-130	
Sodium, Dissolved	ug/L	96800	12500	104000	58	70-130	M1
Zinc, Dissolved	ug/L	94.1	500	581	97	70-130	

SAMPLE DUPLICATE: 1295055

Parameter	Units	70213744001 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	<200	180J		
Calcium, Dissolved	ug/L	128000	129000	1	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	135	134	1	
Iron, Dissolved	ug/L	183	183	0	
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	37900	38000	0	
Manganese, Dissolved	ug/L	3030	3050	1	
Nickel, Dissolved	ug/L	<40.0	38.4J		
Potassium, Dissolved	ug/L	<5000	2450J		
Sodium, Dissolved	ug/L	8030	8020	0	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

SAMPLE DUPLICATE: 1295055

Parameter	Units	70213744001 Result	Dup Result	RPD	Qualifiers
Zinc, Dissolved	ug/L	81.4	82.1	1	

SAMPLE DUPLICATE: 1295057

Parameter	Units	70213744002 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	<200	6.1J		
Calcium, Dissolved	ug/L	63800	63400	1	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	<25.0	5.6J		
Iron, Dissolved	ug/L	<20.0	6.2J		
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	28700	28700	0	
Manganese, Dissolved	ug/L	1700	1690	1	
Nickel, Dissolved	ug/L	<40.0	36.1J		
Potassium, Dissolved	ug/L	<5000	2680J		
Sodium, Dissolved	ug/L	96800	96600	0	
Zinc, Dissolved	ug/L	94.1	93.7	0	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257939
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: 70213830023, 70213830025, 70213830027, 70213830030, 70213830032, 70213830034

METHOD BLANK: 1302482 Matrix: Water
Associated Lab Samples: 70213830023, 70213830025, 70213830027, 70213830030, 70213830032, 70213830034

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	05/25/22 10:50	
Barium, Dissolved	ug/L	<200	200	05/25/22 10:50	
Calcium, Dissolved	ug/L	<1000	1000	05/25/22 10:50	
Chromium, Dissolved	ug/L	<10.0	10.0	05/25/22 10:50	
Copper, Dissolved	ug/L	<25.0	25.0	05/25/22 10:50	
Iron, Dissolved	ug/L	<20.0	20.0	05/25/22 10:50	
Lead, Dissolved	ug/L	<5.0	5.0	05/25/22 10:50	
Magnesium, Dissolved	ug/L	<1000	1000	05/25/22 10:50	
Manganese, Dissolved	ug/L	<10.0	10.0	05/25/22 10:50	
Nickel, Dissolved	ug/L	<40.0	40.0	05/25/22 10:50	
Potassium, Dissolved	ug/L	<5000	5000	05/25/22 10:50	
Sodium, Dissolved	ug/L	<5000	5000	05/25/22 10:50	
Zinc, Dissolved	ug/L	<20.0	20.0	05/25/22 10:50	

LABORATORY CONTROL SAMPLE: 1302483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	25000	25600	102	85-115	
Barium, Dissolved	ug/L	500	519	104	85-115	
Calcium, Dissolved	ug/L	25000	25900	104	85-115	
Chromium, Dissolved	ug/L	500	483	97	85-115	
Copper, Dissolved	ug/L	500	502	100	85-115	
Iron, Dissolved	ug/L	12500	12900	103	85-115	
Lead, Dissolved	ug/L	500	514	103	85-115	
Magnesium, Dissolved	ug/L	25000	25500	102	85-115	
Manganese, Dissolved	ug/L	500	513	103	85-115	
Nickel, Dissolved	ug/L	500	509	102	85-115	
Potassium, Dissolved	ug/L	25000	26200	105	85-115	
Sodium, Dissolved	ug/L	25000	26300	105	85-115	
Zinc, Dissolved	ug/L	500	505	101	85-115	

MATRIX SPIKE SAMPLE: 1302485

Parameter	Units	70213830023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	12500	14900	119	70-130	
Barium, Dissolved	ug/L	76.0J	500	659	117	70-130	
Calcium, Dissolved	ug/L	27100	12500	40100	104	70-130	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

MATRIX SPIKE SAMPLE: 1302485

Parameter	Units	70213830023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	<10.0	500	565	113	70-130	
Copper, Dissolved	ug/L	<25.0	500	572	114	70-130	
Iron, Dissolved	ug/L	16100	5000	21000	97	70-130	
Lead, Dissolved	ug/L	<5.0	500	578	116	70-130	
Magnesium, Dissolved	ug/L	26900	12500	39400	100	70-130	
Manganese, Dissolved	ug/L	49.6	500	618	114	70-130	
Nickel, Dissolved	ug/L	12.4J	500	569	111	70-130	
Potassium, Dissolved	ug/L	143000	12500	151000	64	70-130	M1
Sodium, Dissolved	ug/L	247000	12500	247000	0	70-130	M1
Zinc, Dissolved	ug/L	<20.0	500	591	118	70-130	

MATRIX SPIKE SAMPLE: 1302487

Parameter	Units	70213830025 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	12500	14700	118	70-130	
Barium, Dissolved	ug/L	19.9J	500	594	115	70-130	
Calcium, Dissolved	ug/L	1410	12500	16100	118	70-130	
Chromium, Dissolved	ug/L	<10.0	500	543	109	70-130	
Copper, Dissolved	ug/L	<25.0	500	569	114	70-130	
Iron, Dissolved	ug/L	16.4J	5000	5840	117	70-130	
Lead, Dissolved	ug/L	<5.0	500	583	116	70-130	
Magnesium, Dissolved	ug/L	1440	12500	15800	115	70-130	
Manganese, Dissolved	ug/L	6.1J	500	578	114	70-130	
Nickel, Dissolved	ug/L	10.5J	500	563	110	70-130	
Potassium, Dissolved	ug/L	1770J	12500	16800	120	70-130	
Sodium, Dissolved	ug/L	8160	12500	24300	129	70-130	
Zinc, Dissolved	ug/L	<20.0	500	589	117	70-130	

SAMPLE DUPLICATE: 1302484

Parameter	Units	70213830023 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	76.0J	76.8J		
Calcium, Dissolved	ug/L	27100	27300	1	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	16100	16300	1	
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	26900	27200	1	
Manganese, Dissolved	ug/L	49.6	50.0	1	
Nickel, Dissolved	ug/L	12.4J	12.4J		
Potassium, Dissolved	ug/L	143000	144000	1	
Sodium, Dissolved	ug/L	247000	249000	1	
Zinc, Dissolved	ug/L	<20.0	<20.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

SAMPLE DUPLICATE: 1302486

Parameter	Units	70213830025 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	19.9J	19.8J		
Calcium, Dissolved	ug/L	1410	1400	1	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	16.4J	16.3J		
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	1440	1430	1	
Manganese, Dissolved	ug/L	6.1J	6.0J		
Nickel, Dissolved	ug/L	10.5J	6.8J		
Potassium, Dissolved	ug/L	1770J	1700J		
Sodium, Dissolved	ug/L	8160	8130	0	
Zinc, Dissolved	ug/L	<20.0	<20.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257827 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008, 70213830011, 70213830013, 70213830015, 70213830017, 70213830019, 70213830022, 70213830024, 70213830026

METHOD BLANK: 1301882 | Matrix: Water
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008, 70213830011, 70213830013, 70213830015, 70213830017, 70213830019, 70213830022, 70213830024, 70213830026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	05/24/22 11:01	

LABORATORY CONTROL SAMPLE: 1301883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.0	100	85-115	

MATRIX SPIKE SAMPLE: 1301884

Parameter	Units	70213830002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.1	104	70-130	

MATRIX SPIKE SAMPLE: 1301886

Parameter	Units	70213830004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.1	106	70-130	

SAMPLE DUPLICATE: 1301885

Parameter	Units	70213830002 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1301887

Parameter	Units	70213830004 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 258170 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830029, 70213830031, 70213830033

METHOD BLANK: 1303604 Matrix: Water
Associated Lab Samples: 70213830029, 70213830031, 70213830033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	05/26/22 12:22	

LABORATORY CONTROL SAMPLE: 1303605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.0	100	85-115	

MATRIX SPIKE SAMPLE: 1303606

Parameter	Units	70213830029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	0.97	97	70-130	

MATRIX SPIKE SAMPLE: 1303608

Parameter	Units	70213830031 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.0	103	70-130	

SAMPLE DUPLICATE: 1303607

Parameter	Units	70213830029 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1303609

Parameter	Units	70213830031 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 258169
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: 70213830003, 70213830005, 70213830007, 70213830009, 70213830012, 70213830014, 70213830016, 70213830018, 70213830020, 70213830023, 70213830025, 70213830027, 70213830030, 70213830032, 70213830034

METHOD BLANK: 1303598 Matrix: Water
Associated Lab Samples: 70213830003, 70213830005, 70213830007, 70213830009, 70213830012, 70213830014, 70213830016, 70213830018, 70213830020, 70213830023, 70213830025, 70213830027, 70213830030, 70213830032, 70213830034

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.20	0.20	05/26/22 11:21	

LABORATORY CONTROL SAMPLE: 1303599

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

MATRIX SPIKE SAMPLE: 1303600

Parameter	Units	70213830003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	<0.20	1	1.0	100	70-130	

MATRIX SPIKE SAMPLE: 1303602

Parameter	Units	70213830005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	<0.20	1	1.0	98	70-130	

SAMPLE DUPLICATE: 1303601

Parameter	Units	70213830003 Result	Dup Result	RPD	Qualifiers
Mercury, Dissolved	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1303603

Parameter	Units	70213830005 Result	Dup Result	RPD	Qualifiers
Mercury, Dissolved	ug/L	<0.20	<0.20		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256293
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: 70213830002, 70213830004, 70213830006, 70213830008, 70213830011, 70213830013

METHOD BLANK: 1294664 Matrix: Water
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008, 70213830011, 70213830013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	05/13/22 20:48	
Barium	ug/L	<200	200	05/13/22 20:48	
Calcium	ug/L	<200	200	05/13/22 20:48	
Chromium	ug/L	<10.0	10.0	05/13/22 20:48	
Copper	ug/L	<25.0	25.0	05/13/22 20:48	
Iron	ug/L	<100	100	05/13/22 20:48	
Lead	ug/L	<5.0	5.0	05/13/22 20:48	
Magnesium	ug/L	<200	200	05/13/22 20:48	
Manganese	ug/L	<10.0	10.0	05/13/22 20:48	
Nickel	ug/L	<40.0	40.0	05/13/22 20:48	
Potassium	ug/L	<5000	5000	05/13/22 20:48	
Sodium	ug/L	<5000	5000	05/13/22 20:48	
Zinc	ug/L	<20.0	20.0	05/13/22 20:48	

LABORATORY CONTROL SAMPLE: 1294665

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	24000	96	85-115	
Barium	ug/L	500	479	96	85-115	
Calcium	ug/L	25000	24100	96	85-115	
Chromium	ug/L	500	494	99	85-115	
Copper	ug/L	500	487	97	85-115	
Iron	ug/L	12500	12400	99	85-115	
Lead	ug/L	500	478	96	85-115	
Magnesium	ug/L	25000	24400	98	85-115	
Manganese	ug/L	500	485	97	85-115	
Nickel	ug/L	500	488	98	85-115	
Potassium	ug/L	25000	25000	100	85-115	
Sodium	ug/L	25000	26100	104	85-115	
Zinc	ug/L	500	481	96	85-115	

MATRIX SPIKE SAMPLE: 1294667

Parameter	Units	70213961001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	12500	11900	95	70-130	
Barium	ug/L	<200	500	471	94	70-130	
Calcium	ug/L	<200	12500	11800	94	70-130	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

MATRIX SPIKE SAMPLE: 1294667

Parameter	Units	70213961001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	<10.0	500	486	97	70-130	
Copper	ug/L	375	500	840	93	70-130	
Iron	ug/L	<100	5000	4890	98	70-130	
Lead	ug/L	<5.0	500	476	95	70-130	
Magnesium	ug/L	<200	12500	12000	96	70-130	
Manganese	ug/L	<10.0	500	477	95	70-130	
Nickel	ug/L	<40.0	500	475	92	70-130	
Potassium	ug/L	<5000	12500	12900	100	70-130	
Sodium	ug/L	27900	12500	41700	110	70-130	
Zinc	ug/L	<20.0	500	484	96	70-130	

MATRIX SPIKE SAMPLE: 1294669

Parameter	Units	70214171001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	12500	12400	99	70-130	
Barium	ug/L	<200	500	511	98	70-130	
Calcium	ug/L	164000	12500	173000	72	70-130	
Chromium	ug/L	<0.010 mg/L	500	505	100	70-130	
Copper	ug/L	0.30 mg/L	500	787	97	70-130	
Iron	ug/L	107	5000	5150	101	70-130	
Lead	ug/L	<0.0050 mg/L	500	486	97	70-130	
Magnesium	ug/L	1870	12500	14000	97	70-130	
Manganese	ug/L	41.6	500	532	98	70-130	
Nickel	ug/L	<0.040 mg/L	500	477	93	70-130	
Potassium	ug/L	<5000	12500	16600	116	70-130	
Sodium	ug/L	97800	12500	112000	114	70-130	
Zinc	ug/L	0.070 mg/L	500	560	98	70-130	

SAMPLE DUPLICATE: 1294666

Parameter	Units	70213961001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	<200	<200		
Calcium	ug/L	<200	<200		
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	375	366	2	
Iron	ug/L	<100	<100		
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	<200	28.9J		
Manganese	ug/L	<10.0	<10.0		
Nickel	ug/L	<40.0	15.1J		
Potassium	ug/L	<5000	<5000		
Sodium	ug/L	27900	27200	3	
Zinc	ug/L	<20.0	<20.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

SAMPLE DUPLICATE: 1294668

Parameter	Units	70214171001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	54.2J		
Barium	ug/L	<200	22.4J		
Calcium	ug/L	164000	161000	2	
Chromium	ug/L	<0.010 mg/L	4.2J		
Copper	ug/L	0.30 mg/L	298	1	
Iron	ug/L	107	105	2	
Lead	ug/L	<0.0050 mg/L	<5.0		
Magnesium	ug/L	1870	1850	1	
Manganese	ug/L	41.6	40.3	3	
Nickel	ug/L	<0.040 mg/L	9.1J		
Potassium	ug/L	<5000	2100J		
Sodium	ug/L	97800	96800	1	
Zinc	ug/L	0.070 mg/L	68.2	2	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256407
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: 70213830015, 70213830017, 70213830019

METHOD BLANK: 1294895 Matrix: Water
Associated Lab Samples: 70213830015, 70213830017, 70213830019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	05/13/22 20:01	
Barium	ug/L	<200	200	05/13/22 20:01	
Calcium	ug/L	<200	200	05/13/22 20:01	
Chromium	ug/L	<10.0	10.0	05/13/22 20:01	
Copper	ug/L	<25.0	25.0	05/13/22 20:01	
Iron	ug/L	<100	100	05/13/22 20:01	
Lead	ug/L	<5.0	5.0	05/13/22 20:01	
Magnesium	ug/L	<200	200	05/13/22 20:01	
Manganese	ug/L	<10.0	10.0	05/13/22 20:01	
Nickel	ug/L	<40.0	40.0	05/13/22 20:01	
Potassium	ug/L	<5000	5000	05/13/22 20:01	
Sodium	ug/L	<5000	5000	05/13/22 20:01	
Zinc	ug/L	<20.0	20.0	05/13/22 20:01	

LABORATORY CONTROL SAMPLE: 1294896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	22900	92	85-115	
Barium	ug/L	500	454	91	85-115	
Calcium	ug/L	25000	22900	92	85-115	
Chromium	ug/L	500	469	94	85-115	
Copper	ug/L	500	463	93	85-115	
Iron	ug/L	12500	11700	94	85-115	
Lead	ug/L	500	456	91	85-115	
Magnesium	ug/L	25000	23300	93	85-115	
Manganese	ug/L	500	460	92	85-115	
Nickel	ug/L	500	465	93	85-115	
Potassium	ug/L	25000	24500	98	85-115	
Sodium	ug/L	25000	25300	101	85-115	
Zinc	ug/L	500	459	92	85-115	

MATRIX SPIKE SAMPLE: 1295020

Parameter	Units	70214315001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	87900	12500	105000	137	70-130	M1
Barium	ug/L	<200	500	492	98	70-130	
Calcium	ug/L	9780	12500	21700	95	70-130	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

MATRIX SPIKE SAMPLE: 1295020

Parameter	Units	70214315001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	2300	500	2920	124	70-130	
Copper	ug/L	0.045 mg/L	500	520	95	70-130	
Iron	ug/L	400	5000	5100	94	70-130	
Lead	ug/L	<0.050 mg/L	500	445	88	70-130	
Magnesium	ug/L	2220	12500	13500	90	70-130	
Manganese	ug/L	23.9	500	485	92	70-130	
Nickel	ug/L	<0.040 mg/L	500	445	88	70-130	
Potassium	ug/L	40500	12500	66000	204	70-130	M1
Sodium	ug/L	3590000	12500	4140000	4400	70-130	M1
Zinc	ug/L	0.19 mg/L	500	683	98	70-130	

SAMPLE DUPLICATE: 1295019

Parameter	Units	70214315001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	87900	92200	5	
Barium	ug/L	<200	<200		
Calcium	ug/L	9780	10300	5	
Chromium	ug/L	2300	2410	5	
Copper	ug/L	0.045 mg/L	48.5	7	
Iron	ug/L	400	414	4	
Lead	ug/L	<0.050 mg/L	<50.0		
Magnesium	ug/L	2220	2330	5	
Manganese	ug/L	23.9	24.9	4	
Nickel	ug/L	<0.040 mg/L	7.5J		
Potassium	ug/L	40500	43500	7	
Sodium	ug/L	3590000	3830000	6	
Zinc	ug/L	0.19 mg/L	203	6	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256520
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: 70213830022, 70213830024, 70213830026

METHOD BLANK: 1295640 Matrix: Water
Associated Lab Samples: 70213830022, 70213830024, 70213830026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	05/20/22 13:39	
Barium	ug/L	<200	200	05/20/22 13:39	
Calcium	ug/L	<200	200	05/20/22 13:39	
Chromium	ug/L	<10.0	10.0	05/20/22 13:39	
Copper	ug/L	<25.0	25.0	05/20/22 13:39	
Iron	ug/L	<100	100	05/20/22 13:39	
Lead	ug/L	<5.0	5.0	05/20/22 13:39	
Magnesium	ug/L	<200	200	05/20/22 13:39	
Manganese	ug/L	<10.0	10.0	05/20/22 13:39	
Nickel	ug/L	<40.0	40.0	05/20/22 13:39	
Potassium	ug/L	<5000	5000	05/20/22 13:39	
Sodium	ug/L	<5000	5000	05/20/22 13:39	
Zinc	ug/L	<20.0	20.0	05/20/22 13:39	

LABORATORY CONTROL SAMPLE: 1295641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	23400	94	85-115	
Barium	ug/L	500	467	93	85-115	
Calcium	ug/L	25000	23700	95	85-115	
Chromium	ug/L	500	469	94	85-115	
Copper	ug/L	500	460	92	85-115	
Iron	ug/L	12500	11800	94	85-115	
Lead	ug/L	500	475	95	85-115	
Magnesium	ug/L	25000	23200	93	85-115	
Manganese	ug/L	500	468	94	85-115	
Nickel	ug/L	500	462	92	85-115	
Potassium	ug/L	25000	23400	94	85-115	
Sodium	ug/L	25000	23800	95	85-115	
Zinc	ug/L	500	461	92	85-115	

MATRIX SPIKE SAMPLE: 1295643

Parameter	Units	70214497001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<2000	12500	18100	144	70-130	M1
Barium	ug/L	4490	500	5000	102	70-130	
Calcium	ug/L		12500	13800	104	70-130	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

MATRIX SPIKE SAMPLE: 1295643

Parameter	Units	70214497001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	<10.0	500	502	100	70-130	
Copper	ug/L	56.7	500	540	97	70-130	
Iron	ug/L	1690	5000	6960	106	70-130	
Lead	ug/L	44.1	500	534	98	70-130	
Magnesium	ug/L	370000	12500	413000	344	70-130	M1
Manganese	ug/L	705	500	1230	105	70-130	
Nickel	ug/L	<40.0	500	472	92	70-130	
Potassium	ug/L	310000	12500	321000	88	70-130	
Sodium	ug/L	1400000	12500	1460000	480	70-130	M1
Zinc	ug/L	30.3	500	514	97	70-130	

MATRIX SPIKE SAMPLE: 1295765

Parameter	Units	70214509005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	12500	13100	105	70-130	
Barium	ug/L	<200	500	545	105	70-130	
Calcium	ug/L	49400	12500	63900	116	70-130	
Chromium	ug/L	<10.0	500	488	98	70-130	
Copper	ug/L	50.7	500	590	108	70-130	
Iron	ug/L	4290	5000	9470	103	70-130	
Lead	ug/L	<5.0	500	505	101	70-130	
Magnesium	ug/L	18200	12500	31100	103	70-130	
Manganese	ug/L	704	500	1220	103	70-130	
Nickel	ug/L	49.0	500	535	97	70-130	
Potassium	ug/L	100000	12500	124000	192	70-130	M1
Sodium	ug/L	3160000	12500	3040000	-960	70-130	M1
Zinc	ug/L	108	500	632	105	70-130	

SAMPLE DUPLICATE: 1295642

Parameter	Units	70214497001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<2000	<2000		
Barium	ug/L	4490	4390	2	
Calcium	ug/L		757J		
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	56.7	56.3	1	
Iron	ug/L	1690	1700	1	
Lead	ug/L	44.1	49.2	11	
Magnesium	ug/L	370000	406000	9	
Manganese	ug/L	705	709	1	
Nickel	ug/L	<40.0	10.1J		
Potassium	ug/L	310000	292000	6	
Sodium	ug/L	1400000	1450000	4	
Zinc	ug/L	30.3	33.3	9	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

SAMPLE DUPLICATE: 1295764

Parameter	Units	70214509005 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	<200	19.4J		
Calcium	ug/L	49400	51800	5	
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	50.7	53.5	5	
Iron	ug/L	4290	4400	3	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	18200	19200	5	
Manganese	ug/L	704	739	5	
Nickel	ug/L	49.0	51.3	5	
Potassium	ug/L	100000	106000	6	
Sodium	ug/L	3160000	3040000	4	
Zinc	ug/L	108	113	5	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256944
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: 70213830033

METHOD BLANK: 1297751 Matrix: Water
Associated Lab Samples: 70213830033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	05/23/22 16:25	
Barium	ug/L	<200	200	05/23/22 16:25	
Calcium	ug/L	<200	200	05/23/22 16:25	
Chromium	ug/L	<10.0	10.0	05/23/22 16:25	
Copper	ug/L	<25.0	25.0	05/23/22 16:25	
Iron	ug/L	<100	100	05/23/22 16:25	
Lead	ug/L	<5.0	5.0	05/23/22 16:25	
Magnesium	ug/L	<200	200	05/23/22 16:25	
Manganese	ug/L	<10.0	10.0	05/23/22 16:25	
Nickel	ug/L	<40.0	40.0	05/23/22 16:25	
Potassium	ug/L	<5000	5000	05/23/22 16:25	
Sodium	ug/L	<5000	5000	05/23/22 16:25	
Zinc	ug/L	<20.0	20.0	05/23/22 16:25	

LABORATORY CONTROL SAMPLE: 1297752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	24700	99	85-115	
Barium	ug/L	500	498	100	85-115	
Calcium	ug/L	25000	25300	101	85-115	
Chromium	ug/L	500	486	97	85-115	
Copper	ug/L	500	509	102	85-115	
Iron	ug/L	12500	12800	102	85-115	
Lead	ug/L	500	513	103	85-115	
Magnesium	ug/L	25000	24700	99	85-115	
Manganese	ug/L	500	506	101	85-115	
Nickel	ug/L	500	503	101	85-115	
Potassium	ug/L	25000	24900	100	85-115	
Sodium	ug/L	25000	24600	98	85-115	
Zinc	ug/L	500	511	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1297754 1297753

Parameter	Units	70214850001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Aluminum	ug/L	174J	12500	12500	13400	13700	106	108	70-130	2	
Barium	ug/L	23.0J	500	500	555	565	106	108	70-130	2	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1297754 1297753

Parameter	Units	70214850001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Calcium	ug/L	7040	12500	12500	20500	20800	108	110	70-130	1	
Chromium	ug/L	3.3J	500	500	529	537	105	107	70-130	2	
Copper	ug/L	167	500	500	723	736	111	114	70-130	2	
Iron	ug/L	18800	5000	5000	25000	25300	123	129	70-130	1	
Lead	ug/L	20.0	500	500	568	576	110	111	70-130	1	
Magnesium	ug/L	1440	12500	12500	14300	14500	103	104	70-130	1	
Manganese	ug/L	55.7	500	500	587	596	106	108	70-130	2	
Nickel	ug/L	18.4J	500	500	537	546	104	106	70-130	2	
Potassium	ug/L	5010	12500	12500	20600	20800	125	126	70-130	1	
Sodium	ug/L	92100	12500	12500	111000	112000	151	159	70-130	1	M1
Zinc	ug/L	531	500	500	1080	1100	110	114	70-130	2	

MATRIX SPIKE SAMPLE: 1297755

Parameter	Units	70214850017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	139J	12500	12700	100	70-130	
Barium	ug/L	36.5J	500	531	99	70-130	
Calcium	ug/L	7560	12500	20100	100	70-130	
Chromium	ug/L	<10.0	500	493	99	70-130	
Copper	ug/L	108	500	618	102	70-130	
Iron	ug/L	3230	5000	8220	100	70-130	
Lead	ug/L	7.9	500	523	103	70-130	
Magnesium	ug/L	1510	12500	13900	99	70-130	
Manganese	ug/L	50.8	500	560	102	70-130	
Nickel	ug/L	184	500	661	95	70-130	
Potassium	ug/L	3190J	12500	16800	109	70-130	
Sodium	ug/L	30800	12500	43500	102	70-130	
Zinc	ug/L	128	500	640	102	70-130	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257310
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: 70213830029, 70213830031

METHOD BLANK: 1299419 Matrix: Water
Associated Lab Samples: 70213830029, 70213830031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	05/23/22 20:32	
Barium	ug/L	<200	200	05/23/22 20:32	
Calcium	ug/L	<200	200	05/23/22 20:32	
Chromium	ug/L	<10.0	10.0	05/23/22 20:32	
Copper	ug/L	<25.0	25.0	05/23/22 20:32	
Iron	ug/L	<100	100	05/23/22 20:32	
Lead	ug/L	<5.0	5.0	05/23/22 20:32	
Magnesium	ug/L	<200	200	05/23/22 20:32	
Manganese	ug/L	<10.0	10.0	05/23/22 20:32	
Nickel	ug/L	<40.0	40.0	05/23/22 20:32	
Potassium	ug/L	<5000	5000	05/23/22 20:32	
Sodium	ug/L	<5000	5000	05/23/22 20:32	
Zinc	ug/L	<20.0	20.0	05/23/22 20:32	

LABORATORY CONTROL SAMPLE: 1299420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	25000	25400	102	85-115	
Barium	ug/L	500	510	102	85-115	
Calcium	ug/L	25000	26100	104	85-115	
Chromium	ug/L	500	496	99	85-115	
Copper	ug/L	500	518	104	85-115	
Iron	ug/L	12500	13100	105	85-115	
Lead	ug/L	500	532	106	85-115	
Magnesium	ug/L	25000	25400	102	85-115	
Manganese	ug/L	500	521	104	85-115	
Nickel	ug/L	500	521	104	85-115	
Potassium	ug/L	25000	25600	102	85-115	
Sodium	ug/L	25000	25400	102	85-115	
Zinc	ug/L	500	537	107	85-115	

MATRIX SPIKE SAMPLE: 1299422

Parameter	Units	70213830029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	12500	13200	106	70-130	
Barium	ug/L	67.9J	500	579	102	70-130	
Calcium	ug/L	46700	12500	58000	90	70-130	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

MATRIX SPIKE SAMPLE: 1299422

Parameter	Units	70213830029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	11.3	500	508	99	70-130	
Copper	ug/L	6.2J	500	523	103	70-130	
Iron	ug/L	11300	5000	16200	99	70-130	
Lead	ug/L	<5.0	500	520	104	70-130	
Magnesium	ug/L	29100	12500	40800	94	70-130	
Manganese	ug/L	175	500	675	100	70-130	
Nickel	ug/L	25.8J	500	514	98	70-130	
Potassium	ug/L	194000	12500	207000	104	70-130	
Sodium	ug/L	515000	12500	517000	16	70-130	M1
Zinc	ug/L	<20.0	500	530	106	70-130	

MATRIX SPIKE SAMPLE: 1299424

Parameter	Units	70215088025 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	12500	14500	115	70-130	
Barium	ug/L	<200	500	578	113	70-130	
Calcium	ug/L	224000	12500	233000	72	70-130	
Chromium	ug/L	<10.0	500	490	98	70-130	
Copper	ug/L	25.4	500	496	94	70-130	
Iron	ug/L	322	5000	5460	103	70-130	
Lead	ug/L	<5.0	500	471	94	70-130	
Magnesium	ug/L	692000	12500	687000	-40	70-130	M1
Manganese	ug/L	43.7	500	558	103	70-130	
Nickel	ug/L	<40.0	500	475	94	70-130	
Potassium	ug/L	383000	12500	395000	96	70-130	E
Sodium	ug/L	3730000	12500	3590000	-1120	70-130	E,M1
Zinc	ug/L	<20.0	500	447	89	70-130	

SAMPLE DUPLICATE: 1299421

Parameter	Units	70213830029 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	67.9J	66.9J		
Calcium	ug/L	46700	45900	2	
Chromium	ug/L	11.3	11.0	3	
Copper	ug/L	6.2J	5.1J		
Iron	ug/L	11300	11100	2	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	29100	28600	2	
Manganese	ug/L	175	172	2	
Nickel	ug/L	25.8J	25.7J		
Potassium	ug/L	194000	192000	1	
Sodium	ug/L	515000	506000	2	
Zinc	ug/L	<20.0	<20.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

SAMPLE DUPLICATE: 1299423

Parameter	Units	70215088025 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	101J		
Barium	ug/L	<200	<200		
Calcium	ug/L	224000	227000	1	
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	25.4	25.5	0	
Iron	ug/L	322	311	4	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	692000	694000	0	
Manganese	ug/L	43.7	43.8	0	
Nickel	ug/L	<40.0	<40.0		
Potassium	ug/L	383000	384000	0	E
Sodium	ug/L	3730000	3680000	1	E
Zinc	ug/L	<20.0	<20.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256858
QC Batch Method: EPA 8260C/5030C
Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830001, 70213830002, 70213830004, 70213830006, 70213830008

METHOD BLANK: 1297218 Matrix: Water
Associated Lab Samples: 70213830001, 70213830002, 70213830004, 70213830006, 70213830008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/16/22 19:55	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/16/22 19:55	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/16/22 19:55	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/16/22 19:55	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/16/22 19:55	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/16/22 19:55	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	05/16/22 19:55	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/16/22 19:55	
Benzene	ug/L	<1.0	1.0	05/16/22 19:55	
Bromodichloromethane	ug/L	<1.0	1.0	05/16/22 19:55	
Bromoform	ug/L	<1.0	1.0	05/16/22 19:55	
Carbon tetrachloride	ug/L	<1.0	1.0	05/16/22 19:55	
Chlorobenzene	ug/L	<1.0	1.0	05/16/22 19:55	
Chloroethane	ug/L	<1.0	1.0	05/16/22 19:55	
Chloroform	ug/L	<1.0	1.0	05/16/22 19:55	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/16/22 19:55	
Dibromochloromethane	ug/L	<1.0	1.0	05/16/22 19:55	
Dichlorodifluoromethane	ug/L	<1.0	1.0	05/16/22 19:55	
Ethylbenzene	ug/L	<1.0	1.0	05/16/22 19:55	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	05/16/22 19:55	
m&p-Xylene	ug/L	<2.0	2.0	05/16/22 19:55	
Methylene Chloride	ug/L	<1.0	1.0	05/16/22 19:55	
n-Butylbenzene	ug/L	<1.0	1.0	05/16/22 19:55	
o-Xylene	ug/L	<1.0	1.0	05/16/22 19:55	
tert-Butylbenzene	ug/L	<1.0	1.0	05/16/22 19:55	
Tetrachloroethene	ug/L	<1.0	1.0	05/16/22 19:55	
Toluene	ug/L	<1.0	1.0	05/16/22 19:55	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/16/22 19:55	
Trichloroethene	ug/L	<1.0	1.0	05/16/22 19:55	
Vinyl chloride	ug/L	<1.0	1.0	05/16/22 19:55	
Xylene (Total)	ug/L	<3.0	3.0	05/16/22 19:55	
1,2-Dichloroethane-d4 (S)	%	98	81-122	05/16/22 19:55	
4-Bromofluorobenzene (S)	%	97	79-118	05/16/22 19:55	
Toluene-d8 (S)	%	95	82-122	05/16/22 19:55	

LABORATORY CONTROL SAMPLE: 1297219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.3	105	72-126	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

LABORATORY CONTROL SAMPLE: 1297219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	50	55.3	111	72-126	
1,1-Dichloroethene	ug/L	50	58.6	117	66-133	v1
1,2-Dichlorobenzene	ug/L	50	54.4	109	80-117	
1,2-Dichloroethane	ug/L	50	59.2	118	69-134	
1,2-Dichloropropane	ug/L	50	55.1	110	75-125	
1,3-Dichlorobenzene	ug/L	50	54.2	108	82-116	
1,4-Dichlorobenzene	ug/L	50	54.8	110	80-117	
Benzene	ug/L	50	58.3	117	78-117	
Bromodichloromethane	ug/L	50	56.2	112	80-123	
Bromoform	ug/L	50	51.1	102	49-138	
Carbon tetrachloride	ug/L	50	48.4	97	64-135	
Chlorobenzene	ug/L	50	54.5	109	79-117	
Chloroethane	ug/L	50	48.7	97	31-156	
Chloroform	ug/L	50	61.1	122	79-123	v1
cis-1,2-Dichloroethene	ug/L	50	58.1	116	77-125	v1
Dibromochloromethane	ug/L	50	55.6	111	65-123	
Dichlorodifluoromethane	ug/L	50	67.3	135	13-149	IH,v1
Ethylbenzene	ug/L	50	53.5	107	79-115	
Isopropylbenzene (Cumene)	ug/L	50	51.9	104	74-118	
m&p-Xylene	ug/L	100	106	106	80-118	
Methylene Chloride	ug/L	50	58.4	117	67-123	
n-Butylbenzene	ug/L	50	47.8	96	74-126	
o-Xylene	ug/L	50	52.2	104	80-119	
tert-Butylbenzene	ug/L	50	47.9	96	77-118	
Tetrachloroethene	ug/L	50	40.2	80	65-120	
Toluene	ug/L	50	57.8	116	80-114	L1
trans-1,2-Dichloroethene	ug/L	50	62.2	124	74-123	L1,v1
Trichloroethene	ug/L	50	53.6	107	79-115	
Vinyl chloride	ug/L	50	47.3	95	49-118	
Xylene (Total)	ug/L	150	158	105	80-118	
1,2-Dichloroethane-d4 (S)	%			94	81-122	
4-Bromofluorobenzene (S)	%			101	79-118	
Toluene-d8 (S)	%			97	82-122	

MATRIX SPIKE SAMPLE: 1298285

Parameter	Units	70213830002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	54.2	108	72-123	
1,1-Dichloroethane	ug/L	<1.0	50	54.8	110	70-124	
1,1-Dichloroethene	ug/L	<1.0	50	57.4	115	61-139	v1
1,2-Dichlorobenzene	ug/L	<1.0	50	53.1	106	75-120	
1,2-Dichloroethane	ug/L	<1.0	50	56.7	113	58-138	
1,2-Dichloropropane	ug/L	<1.0	50	52.4	105	74-122	
1,3-Dichlorobenzene	ug/L	<1.0	50	53.4	107	78-119	
1,4-Dichlorobenzene	ug/L	<1.0	50	53.5	107	76-118	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

MATRIX SPIKE SAMPLE: 1298285

Parameter	Units	70213830002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	<1.0	50	57.3	115	70-130	
Bromodichloromethane	ug/L	<1.0	50	51.9	104	74-122	
Bromoform	ug/L	<1.0	50	45.2	90	39-139	
Carbon tetrachloride	ug/L	<1.0	50	49.1	98	56-143	
Chlorobenzene	ug/L	<1.0	50	53.2	106	74-122	
Chloroethane	ug/L	<1.0	50	48.9	98	35-146	
Chloroform	ug/L	<1.0	50	59.3	119	71-129	v1
cis-1,2-Dichloroethene	ug/L	<1.0	50	58.9	118	73-129	v1
Dibromochloromethane	ug/L	<1.0	50	46.6	93	55-126	
Dichlorodifluoromethane	ug/L	<1.0	50	39.7	79	10-123	IH,v1
Ethylbenzene	ug/L	<1.0	50	54.5	109	70-126	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	54.5	109	68-127	
m&p-Xylene	ug/L	<2.0	100	107	107	79-123	
Methylene Chloride	ug/L	<1.0	50	54.4	109	69-117	
n-Butylbenzene	ug/L	<1.0	50	53.3	107	64-136	
o-Xylene	ug/L	<1.0	50	53.1	106	57-139	
tert-Butylbenzene	ug/L	<1.0	50	52.5	105	71-126	
Tetrachloroethene	ug/L	<1.0	50	40.4	81	64-124	
Toluene	ug/L	<1.0	50	57.6	115	76-123	
trans-1,2-Dichloroethene	ug/L	<1.0	50	63.3	127	69-127	v1
Trichloroethene	ug/L	<1.0	50	55.0	110	73-125	
Vinyl chloride	ug/L	<1.0	50	51.5	103	33-127	
Xylene (Total)	ug/L	<3.0	150	160	107	78-123	
1,2-Dichloroethane-d4 (S)	%				94	81-122	
4-Bromofluorobenzene (S)	%				100	79-118	
Toluene-d8 (S)	%				96	82-122	

SAMPLE DUPLICATE: 1298284

Parameter	Units	70214218007 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichlorobenzene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,4-Dichlorobenzene	ug/L	<1.0	<1.0		
Benzene	ug/L	2.1	2.0	5	
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

SAMPLE DUPLICATE: 1298284

Parameter	Units	70214218007 Result	Dup Result	RPD	Qualifiers
cis-1,2-Dichloroethene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	201	217	7	E
Isopropylbenzene (Cumene)	ug/L	9.9	8.7	12	
m&p-Xylene	ug/L	36.9	33.1	11	
Methylene Chloride	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	3.3	2.2	41	D6
o-Xylene	ug/L	5.4	4.9	11	
tert-Butylbenzene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	6.7	6.0	11	
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	42.3	38.0	11	
1,2-Dichloroethane-d4 (S)	%	101	99		
4-Bromofluorobenzene (S)	%	100	97		
Toluene-d8 (S)	%	96	95		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257253 | Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C | Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830010, 70213830011, 70213830013, 70213830015, 70213830017, 70213830019, 70213830021, 70213830022, 70213830024, 70213830026, 70213830029, 70213830033

METHOD BLANK: 1299007 Matrix: Water
Associated Lab Samples: 70213830010, 70213830011, 70213830013, 70213830015, 70213830017, 70213830019, 70213830021, 70213830022, 70213830024, 70213830026, 70213830029, 70213830033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/18/22 15:25	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/18/22 15:25	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/18/22 15:25	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/18/22 15:25	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/18/22 15:25	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/18/22 15:25	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	05/18/22 15:25	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/18/22 15:25	
Benzene	ug/L	<1.0	1.0	05/18/22 15:25	
Bromodichloromethane	ug/L	<1.0	1.0	05/18/22 15:25	
Bromoform	ug/L	<1.0	1.0	05/18/22 15:25	
Carbon tetrachloride	ug/L	<1.0	1.0	05/18/22 15:25	
Chlorobenzene	ug/L	<1.0	1.0	05/18/22 15:25	
Chloroethane	ug/L	<1.0	1.0	05/18/22 15:25	
Chloroform	ug/L	<1.0	1.0	05/18/22 15:25	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/18/22 15:25	
Dibromochloromethane	ug/L	<1.0	1.0	05/18/22 15:25	
Dichlorodifluoromethane	ug/L	<1.0	1.0	05/18/22 15:25	
Ethylbenzene	ug/L	<1.0	1.0	05/18/22 15:25	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	05/18/22 15:25	
m&p-Xylene	ug/L	<2.0	2.0	05/18/22 15:25	
Methylene Chloride	ug/L	<1.0	1.0	05/18/22 15:25	
n-Butylbenzene	ug/L	<1.0	1.0	05/18/22 15:25	
o-Xylene	ug/L	<1.0	1.0	05/18/22 15:25	
tert-Butylbenzene	ug/L	<1.0	1.0	05/18/22 15:25	
Tetrachloroethene	ug/L	<1.0	1.0	05/18/22 15:25	
Toluene	ug/L	<1.0	1.0	05/18/22 15:25	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/18/22 15:25	
Trichloroethene	ug/L	<1.0	1.0	05/18/22 15:25	
Vinyl chloride	ug/L	<1.0	1.0	05/18/22 15:25	
Xylene (Total)	ug/L	<3.0	3.0	05/18/22 15:25	
1,2-Dichloroethane-d4 (S)	%	89	81-122	05/18/22 15:25	
4-Bromofluorobenzene (S)	%	103	79-118	05/18/22 15:25	
Toluene-d8 (S)	%	100	82-122	05/18/22 15:25	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

LABORATORY CONTROL SAMPLE: 1299008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.4	93	72-126	
1,1-Dichloroethane	ug/L	50	42.3	85	72-126	
1,1-Dichloroethene	ug/L	50	41.3	83	66-133	
1,2-Dichlorobenzene	ug/L	50	50.1	100	80-117	
1,2-Dichloroethane	ug/L	50	43.3	87	69-134	
1,2-Dichloropropane	ug/L	50	44.3	89	75-125	
1,3-Dichlorobenzene	ug/L	50	48.6	97	82-116	
1,4-Dichlorobenzene	ug/L	50	49.1	98	80-117	
Benzene	ug/L	50	45.1	90	78-117	
Bromodichloromethane	ug/L	50	46.6	93	80-123	
Bromoform	ug/L	50	44.3	89	49-138	
Carbon tetrachloride	ug/L	50	44.2	88	64-135	
Chlorobenzene	ug/L	50	50.8	102	79-117	
Chloroethane	ug/L	50	43.8	88	31-156	
Chloroform	ug/L	50	44.9	90	79-123	
cis-1,2-Dichloroethene	ug/L	50	46.6	93	77-125	
Dibromochloromethane	ug/L	50	43.2	86	65-123	
Dichlorodifluoromethane	ug/L	50	26.1	52	13-149	
Ethylbenzene	ug/L	50	51.1	102	79-115	
Isopropylbenzene (Cumene)	ug/L	50	50.1	100	74-118	
m&p-Xylene	ug/L	100	104	104	80-118	
Methylene Chloride	ug/L	50	46.7	93	67-123	
n-Butylbenzene	ug/L	50	54.0	108	74-126	
o-Xylene	ug/L	50	52.9	106	80-119	
tert-Butylbenzene	ug/L	50	51.5	103	77-118	
Tetrachloroethene	ug/L	50	47.4	95	65-120	
Toluene	ug/L	50	51.2	102	80-114	
trans-1,2-Dichloroethene	ug/L	50	41.2	82	74-123	
Trichloroethene	ug/L	50	46.3	93	79-115	
Vinyl chloride	ug/L	50	45.4	91	49-118	
Xylene (Total)	ug/L	150	157	105	80-118	
1,2-Dichloroethane-d4 (S)	%			98	81-122	
4-Bromofluorobenzene (S)	%			105	79-118	
Toluene-d8 (S)	%			102	82-122	

MATRIX SPIKE SAMPLE: 1299865

Parameter	Units	70214715001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	43.2	86	72-123	
1,1-Dichloroethane	ug/L	<1.0	50	40.7	81	70-124	
1,1-Dichloroethene	ug/L	<1.0	50	43.5	87	61-139	
1,2-Dichlorobenzene	ug/L	<1.0	50	48.1	96	75-120	
1,2-Dichloroethane	ug/L	<1.0	50	41.5	83	58-138	
1,2-Dichloropropane	ug/L	<1.0	50	40.4	81	74-122	
1,3-Dichlorobenzene	ug/L	<1.0	50	48.1	96	78-119	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

MATRIX SPIKE SAMPLE: 1299865

Parameter	Units	70214715001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	<1.0	50	47.3	95	76-118	
Benzene	ug/L	<1.0	50	42.6	85	70-130	
Bromodichloromethane	ug/L	<1.0	50	39.4	79	74-122	
Bromoform	ug/L	<1.0	50	35.4	71	39-139	
Carbon tetrachloride	ug/L	<1.0	50	39.3	79	56-143	
Chlorobenzene	ug/L	<1.0	50	50.4	101	74-122	
Chloroethane	ug/L	<1.0	50	39.5	79	35-146	
Chloroform	ug/L	<1.0	50	43.7	87	71-129	
cis-1,2-Dichloroethene	ug/L	<1.0	50	45.8	92	73-129	
Dibromochloromethane	ug/L	<1.0	50	37.6	75	55-126	
Dichlorodifluoromethane	ug/L	<1.0	50	23.4	47	10-123	
Ethylbenzene	ug/L	<1.0	50	49.8	100	70-126	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	49.9	100	68-127	
m&p-Xylene	ug/L	<2.0	100	102	102	79-123	
Methylene Chloride	ug/L	<1.0	50	45.0	90	69-117	
n-Butylbenzene	ug/L	<1.0	50	52.1	104	64-136	
o-Xylene	ug/L	<1.0	50	51.6	103	57-139	
tert-Butylbenzene	ug/L	<1.0	50	51.6	103	71-126	
Tetrachloroethene	ug/L	<1.0	50	47.7	95	64-124	
Toluene	ug/L	<1.0	50	48.0	96	76-123	
trans-1,2-Dichloroethene	ug/L	<1.0	50	44.0	88	69-127	
Trichloroethene	ug/L	<1.0	50	45.0	90	73-125	
Vinyl chloride	ug/L	<1.0	50	39.3	79	33-127	
Xylene (Total)	ug/L	<3.0	150	154	103	78-123	
1,2-Dichloroethane-d4 (S)	%				93	81-122	
4-Bromofluorobenzene (S)	%				102	79-118	
Toluene-d8 (S)	%				102	82-122	

SAMPLE DUPLICATE: 1299864

Parameter	Units	70213830013 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichlorobenzene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,4-Dichlorobenzene	ug/L	<1.0	<1.0		
Benzene	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

SAMPLE DUPLICATE: 1299864

Parameter	Units	70213830013 Result	Dup Result	RPD	Qualifiers
Chloroform	ug/L	<1.0	<1.0		
cis-1,2-Dichloroethene	ug/L	11.5	11.6	1	
Dibromochloromethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	<1.0	<1.0		
m&p-Xylene	ug/L	<2.0	1.2J		
Methylene Chloride	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	<1.0	<1.0		
o-Xylene	ug/L	<1.0	<1.0		
tert-Butylbenzene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	6.4	6.3	2	
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	1.8	1.9	2	
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	1.2J		
1,2-Dichloroethane-d4 (S)	%	88	89		
4-Bromofluorobenzene (S)	%	103	103		
Toluene-d8 (S)	%	99	101		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257829
QC Batch Method: EPA 8260C/5030C
Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830028, 70213830031

METHOD BLANK: 1301919 Matrix: Water
Associated Lab Samples: 70213830028, 70213830031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/23/22 15:21	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/23/22 15:21	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/23/22 15:21	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/23/22 15:21	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/23/22 15:21	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/23/22 15:21	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	05/23/22 15:21	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/23/22 15:21	
Benzene	ug/L	<1.0	1.0	05/23/22 15:21	
Bromodichloromethane	ug/L	<1.0	1.0	05/23/22 15:21	
Bromoform	ug/L	<1.0	1.0	05/23/22 15:21	
Carbon tetrachloride	ug/L	<1.0	1.0	05/23/22 15:21	
Chlorobenzene	ug/L	<1.0	1.0	05/23/22 15:21	
Chloroethane	ug/L	<1.0	1.0	05/23/22 15:21	
Chloroform	ug/L	<1.0	1.0	05/23/22 15:21	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/23/22 15:21	
Dibromochloromethane	ug/L	<1.0	1.0	05/23/22 15:21	
Dichlorodifluoromethane	ug/L	<1.0	1.0	05/23/22 15:21	
Ethylbenzene	ug/L	<1.0	1.0	05/23/22 15:21	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	05/23/22 15:21	
m&p-Xylene	ug/L	<2.0	2.0	05/23/22 15:21	
Methylene Chloride	ug/L	<1.0	1.0	05/23/22 15:21	
n-Butylbenzene	ug/L	<1.0	1.0	05/23/22 15:21	
o-Xylene	ug/L	<1.0	1.0	05/23/22 15:21	
tert-Butylbenzene	ug/L	<1.0	1.0	05/23/22 15:21	
Tetrachloroethene	ug/L	<1.0	1.0	05/23/22 15:21	
Toluene	ug/L	<1.0	1.0	05/23/22 15:21	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/23/22 15:21	
Trichloroethene	ug/L	<1.0	1.0	05/23/22 15:21	
Vinyl chloride	ug/L	<1.0	1.0	05/23/22 15:21	
Xylene (Total)	ug/L	<3.0	3.0	05/23/22 15:21	
1,2-Dichloroethane-d4 (S)	%	93	81-122	05/23/22 15:21	
4-Bromofluorobenzene (S)	%	92	79-118	05/23/22 15:21	
Toluene-d8 (S)	%	95	82-122	05/23/22 15:21	

LABORATORY CONTROL SAMPLE: 1301920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.0	102	72-126	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

LABORATORY CONTROL SAMPLE: 1301920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	50	47.3	95	72-126	
1,1-Dichloroethene	ug/L	50	61.8	124	66-133	
1,2-Dichlorobenzene	ug/L	50	49.8	100	80-117	
1,2-Dichloroethane	ug/L	50	46.9	94	69-134	
1,2-Dichloropropane	ug/L	50	48.2	96	75-125	
1,3-Dichlorobenzene	ug/L	50	50.8	102	82-116	
1,4-Dichlorobenzene	ug/L	50	49.7	99	80-117	
Benzene	ug/L	50	52.9	106	78-117	
Bromodichloromethane	ug/L	50	49.3	99	80-123	
Bromoform	ug/L	50	37.1	74	49-138	
Carbon tetrachloride	ug/L	50	46.0	92	64-135	
Chlorobenzene	ug/L	50	50.6	101	79-117	
Chloroethane	ug/L	50	63.5	127	31-156	v1
Chloroform	ug/L	50	50.8	102	79-123	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	77-125	
Dibromochloromethane	ug/L	50	42.7	85	65-123	
Dichlorodifluoromethane	ug/L	50	40.2	80	13-149	
Ethylbenzene	ug/L	50	52.1	104	79-115	
Isopropylbenzene (Cumene)	ug/L	50	54.2	108	74-118	
m&p-Xylene	ug/L	100	108	108	80-118	
Methylene Chloride	ug/L	50	58.4	117	67-123	
n-Butylbenzene	ug/L	50	53.1	106	74-126	
o-Xylene	ug/L	50	53.0	106	80-119	
tert-Butylbenzene	ug/L	50	51.4	103	77-118	
Tetrachloroethene	ug/L	50	47.9	96	65-120	
Toluene	ug/L	50	56.1	112	80-114	
trans-1,2-Dichloroethene	ug/L	50	52.0	104	74-123	
Trichloroethene	ug/L	50	51.3	103	79-115	
Vinyl chloride	ug/L	50	55.7	111	49-118	
Xylene (Total)	ug/L	150	161	107	80-118	
1,2-Dichloroethane-d4 (S)	%			103	81-122	
4-Bromofluorobenzene (S)	%			97	79-118	
Toluene-d8 (S)	%			95	82-122	

MATRIX SPIKE SAMPLE: 1302717

Parameter	Units	70215206001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20.5	50	68.3	96	72-123	
1,1-Dichloroethane	ug/L	1.0	50	43.8	86	70-124	
1,1-Dichloroethene	ug/L	<1.0	50	52.8	106	61-139	
1,2-Dichlorobenzene	ug/L	<1.0	50	49.6	99	75-120	
1,2-Dichloroethane	ug/L	<1.0	50	41.4	83	58-138	
1,2-Dichloropropane	ug/L	<1.0	50	41.7	83	74-122	
1,3-Dichlorobenzene	ug/L	<1.0	50	49.1	98	78-119	
1,4-Dichlorobenzene	ug/L	<1.0	50	48.4	97	76-118	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

MATRIX SPIKE SAMPLE: 1302717

Parameter	Units	70215206001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	<1.0	50	46.8	94	70-130	
Bromodichloromethane	ug/L	<1.0	50	38.3	77	74-122	
Bromoform	ug/L	<1.0	50	29.6	59	39-139	
Carbon tetrachloride	ug/L	<1.0	50	36.5	73	56-143	
Chlorobenzene	ug/L	<1.0	50	49.1	98	74-122	
Chloroethane	ug/L	<1.0	50	50.9	102	35-146	v1
Chloroform	ug/L	<1.0	50	45.4	91	71-129	
cis-1,2-Dichloroethene	ug/L	<1.0	50	46.9	94	73-129	
Dibromochloromethane	ug/L	<1.0	50	32.5	65	55-126	
Dichlorodifluoromethane	ug/L	<1.0	50	16.8	34	10-123	
Ethylbenzene	ug/L	<1.0	50	50.2	100	70-126	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	53.4	107	68-127	
m&p-Xylene	ug/L	<2.0	100	105	105	79-123	
Methylene Chloride	ug/L	<1.0	50	58.8	118	69-117	M1
n-Butylbenzene	ug/L	<1.0	50	54.6	109	64-136	
o-Xylene	ug/L	<1.0	50	51.9	104	57-139	
tert-Butylbenzene	ug/L	<1.0	50	53.7	107	71-126	
Tetrachloroethene	ug/L	<1.0	50	47.2	94	64-124	
Toluene	ug/L	<1.0	50	52.6	105	76-123	
trans-1,2-Dichloroethene	ug/L	<1.0	50	46.9	94	69-127	
Trichloroethene	ug/L	<1.0	50	47.2	94	73-125	
Vinyl chloride	ug/L	<1.0	50	42.1	84	33-127	
Xylene (Total)	ug/L	<3.0	150	157	105	78-123	
1,2-Dichloroethane-d4 (S)	%				98	81-122	
4-Bromofluorobenzene (S)	%				94	79-118	
Toluene-d8 (S)	%				98	82-122	

SAMPLE DUPLICATE: 1302716

Parameter	Units	70213830031 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichlorobenzene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,4-Dichlorobenzene	ug/L	<1.0	<1.0		
Benzene	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

SAMPLE DUPLICATE: 1302716

Parameter	Units	70213830031 Result	Dup Result	RPD	Qualifiers
cis-1,2-Dichloroethene	ug/L	2.6	2.4	6	
Dibromochloromethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	<1.0	<1.0		
m&p-Xylene	ug/L	<2.0	<2.0		
Methylene Chloride	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	<1.0	<1.0		
o-Xylene	ug/L	<1.0	<1.0		
tert-Butylbenzene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	1.7	2.1	19	
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	22.3	23.8	6	
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	104	94		
4-Bromofluorobenzene (S)	%	93	89		
Toluene-d8 (S)	%	95	96		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257479
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008

METHOD BLANK: 1299940 Matrix: Water
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	05/19/22 17:35	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	05/19/22 17:35	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	05/19/22 17:35	

LABORATORY CONTROL SAMPLE: 1299941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	25.1	100	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		3.1			
Alkalinity,Carbonate (CaCO3)	mg/L	25	22.0	88	85-115	

MATRIX SPIKE SAMPLE: 1299943

Parameter	Units	70213793002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	50	52.1	104	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0		10.8			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	41.4	83	75-125	

SAMPLE DUPLICATE: 1299942

Parameter	Units	70213793002 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	0.62J		
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	0.62J		
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257773 | Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830011, 70213830013, 70213830015, 70213830017, 70213830019

METHOD BLANK: 1301612 Matrix: Water
Associated Lab Samples: 70213830011, 70213830013, 70213830015, 70213830017, 70213830019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	05/23/22 16:40	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	05/23/22 16:40	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	05/23/22 16:40	

LABORATORY CONTROL SAMPLE: 1301613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	24.4	98	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		2.6			
Alkalinity,Carbonate (CaCO3)	mg/L	25	21.8	87	85-115	

MATRIX SPIKE SAMPLE: 1301615

Parameter	Units	70214246003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	6.0	50	49.0	86	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	6.0		25.0			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	23.9	48	75-125	M1

SAMPLE DUPLICATE: 1301614

Parameter	Units	70214246003 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	6.0	6.1	2	
Alkalinity,Bicarbonate (CaCO3)	mg/L	6.0	6.1	2	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257887
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830022, 70213830024, 70213830026

METHOD BLANK: 1302365 Matrix: Water
Associated Lab Samples: 70213830022, 70213830024, 70213830026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	05/24/22 09:16	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	05/24/22 09:16	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	05/24/22 09:16	

LABORATORY CONTROL SAMPLE: 1302366

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	23.4	93	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		4.5			
Alkalinity,Carbonate (CaCO3)	mg/L	25	18.9	75	85-115	L2

MATRIX SPIKE SAMPLE: 1302368

Parameter	Units	70214885001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	18.0	50	68.4	101	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	18.0		31.2			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	37.3	75	75-125	

SAMPLE DUPLICATE: 1302367

Parameter	Units	70214885001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	18.0	18.5	3	
Alkalinity,Bicarbonate (CaCO3)	mg/L	18.0	18.5	3	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 258137
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830031, 70213830033

METHOD BLANK: 1303523 Matrix: Water
Associated Lab Samples: 70213830031, 70213830033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	05/25/22 13:44	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	05/25/22 13:44	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	05/25/22 13:44	

LABORATORY CONTROL SAMPLE: 1303524

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	24.1	97	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		2.4			
Alkalinity,Carbonate (CaCO3)	mg/L	25	21.7	87	85-115	

MATRIX SPIKE SAMPLE: 1303526

Parameter	Units	70215102001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	15.4	50	65.9	101	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	15.4		50.9			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	15.1	30	75-125	M1

SAMPLE DUPLICATE: 1303525

Parameter	Units	70215102001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	15.4	15.8	3	
Alkalinity,Bicarbonate (CaCO3)	mg/L	15.4	15.8	3	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 258233
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity, High Level
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830029

METHOD BLANK: 1303775 Matrix: Water
Associated Lab Samples: 70213830029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.5	05/25/22 18:17	

LABORATORY CONTROL SAMPLE: 1303776

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	125	125	100	80-120	

MATRIX SPIKE SAMPLE: 1303778

Parameter	Units	70213830029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	1580	625	2240	106	75-125	

SAMPLE DUPLICATE: 1303777

Parameter	Units	70213830029 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	1580	1610	2	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256354
QC Batch Method: SM22 2540C
Analysis Method: SM22 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008

METHOD BLANK: 1294793 Matrix: Water
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	05/12/22 15:49	

LABORATORY CONTROL SAMPLE: 1294794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	498	100	85-115	

MATRIX SPIKE SAMPLE: 1294796

Parameter	Units	70213646002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	8220	6000	14000	97	75-125	

MATRIX SPIKE SAMPLE: 1294798

Parameter	Units	30486677001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	194	600	786	99	75-125	

SAMPLE DUPLICATE: 1294795

Parameter	Units	70213646002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	8220	8200	0	

SAMPLE DUPLICATE: 1294797

Parameter	Units	30486677001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	194	186	4	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256905 | Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830011, 70213830013, 70213830015, 70213830017, 70213830019

METHOD BLANK: 1297669 Matrix: Water
Associated Lab Samples: 70213830011, 70213830013, 70213830015, 70213830017, 70213830019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	05/17/22 14:10	

LABORATORY CONTROL SAMPLE: 1297670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	534	107	85-115	

MATRIX SPIKE SAMPLE: 1297672

Parameter	Units	70214106003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	27200	6000	34600	123	75-125	

MATRIX SPIKE SAMPLE: 1297674

Parameter	Units	70214246003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	63.0	300	366	101	75-125	

SAMPLE DUPLICATE: 1297671

Parameter	Units	70214106003 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	27200	25400	7	D6

SAMPLE DUPLICATE: 1297673

Parameter	Units	70214246003 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	63.0	70.0	11	D6

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257104 | Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830022, 70213830024, 70213830026

METHOD BLANK: 1298657 Matrix: Water
Associated Lab Samples: 70213830022, 70213830024, 70213830026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	05/18/22 13:09	

LABORATORY CONTROL SAMPLE: 1298658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	522	104	85-115	

MATRIX SPIKE SAMPLE: 1298660

Parameter	Units	70214270001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	113	300	398	95	75-125	

MATRIX SPIKE SAMPLE: 1298662

Parameter	Units	70214370005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	194	600	798	101	75-125	

SAMPLE DUPLICATE: 1298659

Parameter	Units	70214270001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	113	107	5	

SAMPLE DUPLICATE: 1298661

Parameter	Units	70214370005 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	194	196	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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257333 | Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830029, 70213830031, 70213830033

METHOD BLANK: 1299490 Matrix: Water
Associated Lab Samples: 70213830029, 70213830031, 70213830033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	05/19/22 13:36	

LABORATORY CONTROL SAMPLE: 1299491

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

MATRIX SPIKE SAMPLE: 1299493

Parameter	Units	70214565001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	42.0	300	341	100	75-125	

MATRIX SPIKE SAMPLE: 1299495

Parameter	Units	70214680001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	41.0	300	311	90	75-125	

SAMPLE DUPLICATE: 1299492

Parameter	Units	70214565001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	42.0	48.0	13	D6

SAMPLE DUPLICATE: 1299494

Parameter	Units	70214680001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	41.0	39.0	5	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 255656 | Analysis Method: SM22 3500-Cr B
QC Batch Method: SM22 3500-Cr B | Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830002, 70213830003, 70213830004, 70213830005, 70213830006, 70213830007, 70213830008, 70213830009

METHOD BLANK: 1291434 Matrix: Water
Associated Lab Samples: 70213830002, 70213830003, 70213830004, 70213830005, 70213830006, 70213830007, 70213830008, 70213830009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	05/06/22 15:54	

LABORATORY CONTROL SAMPLE: 1291435

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: 1291436

Parameter	Units	70213830002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.20	99	75-125	H1

MATRIX SPIKE SAMPLE: 1291437

Parameter	Units	70213830003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.20	98	75-125	H1

SAMPLE DUPLICATE: 1291438

Parameter	Units	70213830004 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		H1

SAMPLE DUPLICATE: 1291439

Parameter	Units	70213830005 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		H1

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256073 | Analysis Method: SM22 3500-Cr B
QC Batch Method: SM22 3500-Cr B | Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830011, 70213830012, 70213830013, 70213830014, 70213830015, 70213830016, 70213830017, 70213830018, 70213830019, 70213830020

METHOD BLANK: 1293806 Matrix: Water
Associated Lab Samples: 70213830011, 70213830012, 70213830013, 70213830014, 70213830015, 70213830016, 70213830017, 70213830018, 70213830019, 70213830020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	05/11/22 09:44	

LABORATORY CONTROL SAMPLE: 1293807

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

MATRIX SPIKE SAMPLE: 1293808

Parameter	Units	70213830015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.19	97	75-125	H1

SAMPLE DUPLICATE: 1293809

Parameter	Units	70213830015 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		H1

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256304 | Analysis Method: SM22 3500-Cr B
QC Batch Method: SM22 3500-Cr B | Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830022, 70213830023, 70213830024, 70213830025, 70213830026, 70213830027

METHOD BLANK: 1294692 Matrix: Water
Associated Lab Samples: 70213830022, 70213830023, 70213830024, 70213830025, 70213830026, 70213830027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	05/12/22 10:05	

LABORATORY CONTROL SAMPLE: 1294693

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: 1294694

Parameter	Units	70213830022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.20	100	75-125	H1

SAMPLE DUPLICATE: 1294695

Parameter	Units	70213830022 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		H1

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256609 | Analysis Method: SM22 3500-Cr B
QC Batch Method: SM22 3500-Cr B | Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830029, 70213830030, 70213830031, 70213830032, 70213830033, 70213830034

METHOD BLANK: 1295864 Matrix: Water
Associated Lab Samples: 70213830029, 70213830030, 70213830031, 70213830032, 70213830033, 70213830034

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	05/13/22 13:30	

LABORATORY CONTROL SAMPLE: 1295865

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

MATRIX SPIKE SAMPLE: 1295866

Parameter	Units	70213830033 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.13	66	75-125	

SAMPLE DUPLICATE: 1295867

Parameter	Units	70213830033 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256688 | 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: 70213830002, 70213830004, 70213830006, 70213830008

METHOD BLANK: 1296185 Matrix: Water
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	0.16J	5.0	05/13/22 20:04	

LABORATORY CONTROL SAMPLE: 1296186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	9.1	91	90-110	

MATRIX SPIKE SAMPLE: 1296187

Parameter	Units	70214571001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10.6	10	20.6	100	90-110	

MATRIX SPIKE SAMPLE: 1296189

Parameter	Units	70213897003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	21.4	10	31.1	97	90-110	

SAMPLE DUPLICATE: 1296188

Parameter	Units	70214571001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	10.6	10.7	1	

SAMPLE DUPLICATE: 1296190

Parameter	Units	70213897003 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	21.4	21.5	0	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256823 | 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: 70213830011, 70213830013, 70213830015, 70213830017, 70213830019

METHOD BLANK: 1296847 Matrix: Water
Associated Lab Samples: 70213830011, 70213830013, 70213830015, 70213830017, 70213830019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	0.14J	5.0	05/17/22 13:21	

LABORATORY CONTROL SAMPLE: 1296848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	10.8	108	90-110	

MATRIX SPIKE SAMPLE: 1296849

Parameter	Units	70214699001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	16.0	10	25.7	97	90-110	

MATRIX SPIKE SAMPLE: 1296851

Parameter	Units	70214246003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	16.6	10	25.6	90	90-110	

SAMPLE DUPLICATE: 1296850

Parameter	Units	70214699001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	16.0	15.9	0	

SAMPLE DUPLICATE: 1296852

Parameter	Units	70214246003 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	16.6	16.7	0	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257186
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: 70213830022

METHOD BLANK: 1298865 Matrix: Water
Associated Lab Samples: 70213830022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	0.15J	5.0	05/18/22 19:43	

LABORATORY CONTROL SAMPLE: 1298866

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	9.5	95	90-110	

MATRIX SPIKE SAMPLE: 1298867

Parameter	Units	70214712001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	<5.0	10	13.6	98	90-110	

MATRIX SPIKE SAMPLE: 1298869

Parameter	Units	70215077001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	12.5	10	22.2	97	90-110	

SAMPLE DUPLICATE: 1298868

Parameter	Units	70214712001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	<5.0	3.7J		

SAMPLE DUPLICATE: 1298870

Parameter	Units	70215077001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	12.5	12.5	0	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257188
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: 70213830024, 70213830026

METHOD BLANK: 1298871 Matrix: Water
Associated Lab Samples: 70213830024, 70213830026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	0.13J	5.0	05/19/22 02:57	

LABORATORY CONTROL SAMPLE: 1298872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	9.2	92	90-110	

MATRIX SPIKE SAMPLE: 1298873

Parameter	Units	70213830024 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	7.1	10	16.5	94	90-110	

MATRIX SPIKE SAMPLE: 1298875

Parameter	Units	70214511001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	27.2	10	36.8	95	90-110	

SAMPLE DUPLICATE: 1298874

Parameter	Units	70213830024 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	7.1	7.1	0	

SAMPLE DUPLICATE: 1298876

Parameter	Units	70214511001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	27.2	27.4	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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257632 | 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: 70213830029, 70213830031, 70213830033

METHOD BLANK: 1300713 Matrix: Water
Associated Lab Samples: 70213830029, 70213830031, 70213830033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	0.16J	5.0	05/22/22 14:10	

LABORATORY CONTROL SAMPLE: 1300714

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	10	100	90-110	

MATRIX SPIKE SAMPLE: 1300715

Parameter	Units	30480213001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10.9	10	20.2	93	90-110	H1

MATRIX SPIKE SAMPLE: 1300717

Parameter	Units	70214846001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	31.7	10	41.3	96	90-110	

SAMPLE DUPLICATE: 1300716

Parameter	Units	30480213001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	10.9	10.9	0	H1

SAMPLE DUPLICATE: 1300718

Parameter	Units	70214846001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	31.7	31.8	0	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257695
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008, 70213830011, 70213830013, 70213830015, 70213830017, 70213830019, 70213830022, 70213830024, 70213830026, 70213830029, 70213830031, 70213830033

METHOD BLANK: 1301378 Matrix: Water
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008, 70213830011, 70213830013, 70213830015, 70213830017, 70213830019, 70213830022, 70213830024, 70213830026, 70213830029, 70213830031, 70213830033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.094	05/23/22 19:09	

LABORATORY CONTROL SAMPLE: 1301379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	4.3	108	90-110	

MATRIX SPIKE SAMPLE: 1301380

Parameter	Units	70213830011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	4	4.1	102	90-110	

MATRIX SPIKE SAMPLE: 1301382

Parameter	Units	70213830026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	4	3.8	96	90-110	

SAMPLE DUPLICATE: 1301381

Parameter	Units	70213830011 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	<0.10		

SAMPLE DUPLICATE: 1301383

Parameter	Units	70213830026 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	<0.10		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 255645
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: 70213830002, 70213830004, 70213830006, 70213830008

METHOD BLANK: 1291399 Matrix: Water
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	05/07/22 04:23	

LABORATORY CONTROL SAMPLE: 1291400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	0.98	98	90-110	

MATRIX SPIKE SAMPLE: 1291401

Parameter	Units	70213830002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.51	102	90-110	

SAMPLE DUPLICATE: 1291402

Parameter	Units	70213830002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256057
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: 70213830015

METHOD BLANK: 1293750 Matrix: Water
Associated Lab Samples: 70213830015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	05/10/22 23:30	

LABORATORY CONTROL SAMPLE: 1293751

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: 1293752

Parameter	Units	30487310001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	ND	0.5	0.51	101	90-110	H3

MATRIX SPIKE SAMPLE: 1293754

Parameter	Units	70214086001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	99	90-110	

SAMPLE DUPLICATE: 1293753

Parameter	Units	30487310001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	ND	<0.050		H3

SAMPLE DUPLICATE: 1293755

Parameter	Units	70214086001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256098
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: 70213830011, 70213830013

METHOD BLANK: 1293867 Matrix: Water
Associated Lab Samples: 70213830011, 70213830013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	05/11/22 12:16	

LABORATORY CONTROL SAMPLE: 1293868

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: 1293869

Parameter	Units	70214246001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.28	54	90-110	M1

MATRIX SPIKE SAMPLE: 1293871

Parameter	Units	70214188002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.080	0.5	0.62	109	90-110	

SAMPLE DUPLICATE: 1293870

Parameter	Units	70214246001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1293872

Parameter	Units	70214188002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	0.080	0.079	2	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256099
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: 70213830017, 70213830019

METHOD BLANK: 1293873 Matrix: Water
Associated Lab Samples: 70213830017, 70213830019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	05/11/22 12:52	

LABORATORY CONTROL SAMPLE: 1293874

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: 1293875

Parameter	Units	70214230001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.51	100	90-110	

MATRIX SPIKE SAMPLE: 1293877

Parameter	Units	70214118001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.49	93	90-110	

SAMPLE DUPLICATE: 1293876

Parameter	Units	70214230001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1293878

Parameter	Units	70214118001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256418
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: 70213830022, 70213830024, 70213830026

METHOD BLANK: 1294969 Matrix: Water
Associated Lab Samples: 70213830022, 70213830024, 70213830026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	05/12/22 15:31	

LABORATORY CONTROL SAMPLE: 1294970

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: 1294971

Parameter	Units	70214360002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.52	99	90-110	

MATRIX SPIKE SAMPLE: 1294973

Parameter	Units	70214332001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	95	90-110	

SAMPLE DUPLICATE: 1294972

Parameter	Units	70214360002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	0.029J		

SAMPLE DUPLICATE: 1294974

Parameter	Units	70214332001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256713
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: 70213830029, 70213830031, 70213830033

METHOD BLANK: 1296321 Matrix: Water
Associated Lab Samples: 70213830029, 70213830031, 70213830033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	05/13/22 21:53	

LABORATORY CONTROL SAMPLE: 1296322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	0.95	95	90-110	

MATRIX SPIKE SAMPLE: 1296323

Parameter	Units	70214712001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	96	90-110	H3

MATRIX SPIKE SAMPLE: 1296325

Parameter	Units	30488615001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	ND	0.5	0.51	98	90-110	

SAMPLE DUPLICATE: 1296324

Parameter	Units	70214712001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		H3

SAMPLE DUPLICATE: 1296326

Parameter	Units	30488615001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	ND	<0.050		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256718
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: 70213830002, 70213830004

METHOD BLANK: 1296378 Matrix: Water
Associated Lab Samples: 70213830002, 70213830004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	05/17/22 02:07	

LABORATORY CONTROL SAMPLE: 1296379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	104	90-110	

MATRIX SPIKE SAMPLE: 1296380

Parameter	Units	70214690001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.66	131	90-110	M1

MATRIX SPIKE SAMPLE: 1296382

Parameter	Units	70214611002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.76	0.5	1.2	89	90-110	M1

SAMPLE DUPLICATE: 1296381

Parameter	Units	70214690001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1296383

Parameter	Units	70214611002 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.76	0.72	6	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256719
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: 70213830006, 70213830008

METHOD BLANK: 1296386 Matrix: Water
Associated Lab Samples: 70213830006, 70213830008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	05/17/22 02:44	

LABORATORY CONTROL SAMPLE: 1296387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.1	108	90-110	

MATRIX SPIKE SAMPLE: 1296388

Parameter	Units	70213830006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.092	0.5	0.64	109	90-110	

MATRIX SPIKE SAMPLE: 1297544

Parameter	Units	70214789002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	8.7	2.5	11.2	100	90-110	

SAMPLE DUPLICATE: 1296389

Parameter	Units	70213830006 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.092	0.092	1	

SAMPLE DUPLICATE: 1297545

Parameter	Units	70214789002 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	8.7	8.0	8	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256898
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: 70213830011, 70213830013, 70213830015, 70213830017, 70213830019, 70213830022, 70213830024, 70213830026, 70213830029, 70213830031, 70213830033

METHOD BLANK: 1297652 Matrix: Water
Associated Lab Samples: 70213830011, 70213830013, 70213830015, 70213830017, 70213830019, 70213830022, 70213830024, 70213830026, 70213830029, 70213830031, 70213830033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	05/17/22 13:07	

LABORATORY CONTROL SAMPLE: 1297653

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: 1297654

Parameter	Units	70214723001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.35	68	90-110	M1

MATRIX SPIKE SAMPLE: 1297656

Parameter	Units	70213830022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.092	18	90-110	M1

SAMPLE DUPLICATE: 1297655

Parameter	Units	70214723001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1297657

Parameter	Units	70213830022 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256535 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: 70213830002, 70213830004, 70213830006, 70213830008

METHOD BLANK: 1295691 Matrix: Water
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	5.0	05/13/22 15:41	

LABORATORY CONTROL SAMPLE: 1295692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	100	106	106	90-110	

MATRIX SPIKE SAMPLE: 1295693

Parameter	Units	70213818004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	50	46.0	92	75-125	

SAMPLE DUPLICATE: 1295694

Parameter	Units	70213818004 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	<5.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256754 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: 70213830011, 70213830013, 70213830015, 70213830017, 70213830022, 70213830024, 70213830026

METHOD BLANK: 1296497 Matrix: Water
Associated Lab Samples: 70213830011, 70213830013, 70213830015, 70213830017, 70213830022, 70213830024, 70213830026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	5.0	05/16/22 14:50	

LABORATORY CONTROL SAMPLE: 1296498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	100	107	107	90-110	

MATRIX SPIKE SAMPLE: 1296499

Parameter	Units	70214512001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	86.3	50	133	94	75-125	

SAMPLE DUPLICATE: 1296500

Parameter	Units	70214512001 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	86.3	96.4	11	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257338 | 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: 70213830019, 70213830029, 70213830031, 70213830033

METHOD BLANK: 1299511 Matrix: Water
Associated Lab Samples: 70213830019, 70213830029, 70213830031, 70213830033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	5.0	05/19/22 15:00	

LABORATORY CONTROL SAMPLE: 1299512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	100	96.4	96	90-110	

MATRIX SPIKE SAMPLE: 1299513

Parameter	Units	70214536001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	46.3	50	103	114	75-125	

SAMPLE DUPLICATE: 1299514

Parameter	Units	70214536001 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	46.3	47.9	3	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256370 | Analysis Method: SM22 4500-CN-E
QC Batch Method: SM20/22 4500-CN-C | Analysis Description: 4500 CNE Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008

METHOD BLANK: 1294822 Matrix: Water
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	05/12/22 17:19	

LABORATORY CONTROL SAMPLE: 1294823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	76.5	102	85-115	

MATRIX SPIKE SAMPLE: 1294824

Parameter	Units	70214067001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<10.0	100	48.0	41	75-125	M1

SAMPLE DUPLICATE: 1294825

Parameter	Units	70214067001 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	<10.0	<10.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257098 | Analysis Method: SM22 4500-CN-E
QC Batch Method: SM20/22 4500-CN-C | Analysis Description: 4500 CNE Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830011, 70213830013, 70213830015, 70213830017, 70213830019

METHOD BLANK: 1298638 Matrix: Water
Associated Lab Samples: 70213830011, 70213830013, 70213830015, 70213830017, 70213830019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	05/18/22 18:00	

LABORATORY CONTROL SAMPLE: 1298639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	81.5	109	85-115	

MATRIX SPIKE SAMPLE: 1298640

Parameter	Units	70214120001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<10.0	100	110	108	75-125	

SAMPLE DUPLICATE: 1298641

Parameter	Units	70214120001 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	<10.0	<10.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257731 | Analysis Method: SM22 4500-CN-E
QC Batch Method: SM20/22 4500-CN-C | Analysis Description: 4500 CNE Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830022, 70213830024, 70213830026

METHOD BLANK: 1301468 Matrix: Water
Associated Lab Samples: 70213830022, 70213830024, 70213830026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	05/23/22 16:39	

LABORATORY CONTROL SAMPLE: 1301469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	77.7	104	85-115	

MATRIX SPIKE SAMPLE: 1301470

Parameter	Units	70214465002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<10.0	100	67.7	68	75-125	M1

SAMPLE DUPLICATE: 1301471

Parameter	Units	70214465002 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	<10.0	<10.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 257893 | Analysis Method: SM22 4500-CN-E
QC Batch Method: SM20/22 4500-CN-C | Analysis Description: 4500 CNE Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830029, 70213830031, 70213830033

METHOD BLANK: 1302379 Matrix: Water
Associated Lab Samples: 70213830029, 70213830031, 70213830033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	05/24/22 15:21	

LABORATORY CONTROL SAMPLE: 1302380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	79.8	106	85-115	

MATRIX SPIKE SAMPLE: 1302689

Parameter	Units	70214433001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<0.010 mg/L	100	106	100	75-125	

SAMPLE DUPLICATE: 1302690

Parameter	Units	70214433001 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	<0.010 mg/L	<10.0		

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256560 Analysis Method: SM22 4500-Cl-E
QC Batch Method: SM22 4500-Cl-E Analysis Description: 4500 Chloride
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008, 70213830011, 70213830013, 70213830015, 70213830017, 70213830019, 70213830022, 70213830024, 70213830026

METHOD BLANK: 1295749 Matrix: Water
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008, 70213830011, 70213830013, 70213830015, 70213830017, 70213830019, 70213830022, 70213830024, 70213830026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	05/13/22 11:32	

LABORATORY CONTROL SAMPLE: 1295750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.5	103	90-110	

MATRIX SPIKE SAMPLE: 1295751

Parameter	Units	70214396001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	217	125	324	85	80-120	

SAMPLE DUPLICATE: 1295752

Parameter	Units	70214396001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	217	222	2	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256927
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: 70213830029, 70213830031, 70213830033

METHOD BLANK: 1297717 Matrix: Water
Associated Lab Samples: 70213830029, 70213830031, 70213830033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	05/17/22 14:36	

LABORATORY CONTROL SAMPLE: 1297718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.1	100	90-110	

MATRIX SPIKE SAMPLE: 1297719

Parameter	Units	70214791001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	195	125	317	97	80-120	

SAMPLE DUPLICATE: 1297720

Parameter	Units	70214791001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	195	196	0	

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
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

QC Batch: 256963
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: 70213830002, 70213830004, 70213830006, 70213830008, 70213830011, 70213830013, 70213830015, 70213830017, 70213830019, 70213830022, 70213830024, 70213830026, 70213830029, 70213830031, 70213830033

METHOD BLANK: 1297820 Matrix: Water
Associated Lab Samples: 70213830002, 70213830004, 70213830006, 70213830008, 70213830011, 70213830013, 70213830015, 70213830017, 70213830019, 70213830022, 70213830024, 70213830026, 70213830029, 70213830031, 70213830033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	05/17/22 12:33	

LABORATORY CONTROL SAMPLE: 1297821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 1297822

Parameter	Units	70214581001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	0.96	95	75-125	

SAMPLE DUPLICATE: 1297823

Parameter	Units	70214581001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	0.058J		

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
(631)694-3040

QUALIFIERS

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

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.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
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.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
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.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70213830002	OBS-1_5/5/2022	EPA 200.7	256293	EPA 200.7	256364
70213830004	MW-09B_5/5/2022	EPA 200.7	256293	EPA 200.7	256364
70213830006	MW-09C_5/5/2022	EPA 200.7	256293	EPA 200.7	256364
70213830008	MW-05B_5/5/2022	EPA 200.7	256293	EPA 200.7	256364
70213830011	MW-08B_5/10/2022	EPA 200.7	256293	EPA 200.7	256364
70213830013	MW-08A_5/10/2022	EPA 200.7	256293	EPA 200.7	256364
70213830015	BLIND DUPLICATE_5/10/2022	EPA 200.7	256407	EPA 200.7	256433
70213830017	MW-06C_5/10/2022	EPA 200.7	256407	EPA 200.7	256433
70213830019	FIELD BLANK_5/10/2022	EPA 200.7	256407	EPA 200.7	256433
70213830022	MW-06B_5/11/22	EPA 200.7	256520	EPA 200.7	256577
70213830024	MW-06A_5/11/22	EPA 200.7	256520	EPA 200.7	256577
70213830026	MW-06F_5/11/22	EPA 200.7	256520	EPA 200.7	256577
70213830029	LF-2_5/12/22	EPA 200.7	257310	EPA 200.7	257386
70213830031	LF-1_5/12/22	EPA 200.7	257310	EPA 200.7	257386
70213830033	MW-06E_5/12/22	EPA 200.7	256944	EPA 200.7	256971
70213830003	OBS-1_5/5/2022 DISS	EPA 200.7	256434		
70213830005	MW-09B_5/5/2022 DISS	EPA 200.7	256434		
70213830007	MW-09C_5/5/2022 DISS	EPA 200.7	256434		
70213830009	MW-05B_5/5/2022 DISS	EPA 200.7	256434		
70213830012	MW-08B_5/10/2022 DISS	EPA 200.7	256434		
70213830014	MW-08A_5/10/2022 DISS	EPA 200.7	256434		
70213830016	BLIND DUPLICATE_5/10/2022 DISS	EPA 200.7	256434		
70213830018	MW-06C_5/10/2022 DISS	EPA 200.7	256434		
70213830020	FIELD BLANK_5/10/2022 DISS	EPA 200.7	256434		
70213830023	MW-06B_5/11/22 DISS	EPA 200.7	257939		
70213830025	MW-06A_5/11/22 DISS	EPA 200.7	257939		
70213830027	MW-06F_5/11/22 DISS	EPA 200.7	257939		
70213830030	LF-2_5/12/22 DISS	EPA 200.7	257939		
70213830032	LF-1_5/12/22 DISS	EPA 200.7	257939		
70213830034	MW-06E_5/12/22 DISS	EPA 200.7	257939		
70213830002	OBS-1_5/5/2022	SM22 2340B	257924		
70213830004	MW-09B_5/5/2022	SM22 2340B	257924		
70213830006	MW-09C_5/5/2022	SM22 2340B	257924		
70213830008	MW-05B_5/5/2022	SM22 2340B	257924		
70213830011	MW-08B_5/10/2022	SM22 2340B	257924		
70213830013	MW-08A_5/10/2022	SM22 2340B	257924		
70213830015	BLIND DUPLICATE_5/10/2022	SM22 2340B	257924		
70213830017	MW-06C_5/10/2022	SM22 2340B	257924		
70213830019	FIELD BLANK_5/10/2022	SM22 2340B	257924		
70213830022	MW-06B_5/11/22	SM22 2340B	257924		
70213830024	MW-06A_5/11/22	SM22 2340B	257924		
70213830026	MW-06F_5/11/22	SM22 2340B	257924		
70213830029	LF-2_5/12/22	SM22 2340B	257924		
70213830031	LF-1_5/12/22	SM22 2340B	257924		
70213830033	MW-06E_5/12/22	SM22 2340B	257924		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70213830002	OBS-1_5/5/2022	EPA 245.1	257827	EPA 245.1	257846
70213830004	MW-09B_5/5/2022	EPA 245.1	257827	EPA 245.1	257846
70213830006	MW-09C_5/5/2022	EPA 245.1	257827	EPA 245.1	257846
70213830008	MW-05B_5/5/2022	EPA 245.1	257827	EPA 245.1	257846
70213830011	MW-08B_5/10/2022	EPA 245.1	257827	EPA 245.1	257846
70213830013	MW-08A_5/10/2022	EPA 245.1	257827	EPA 245.1	257846
70213830015	BLIND DUPLICATE_5/10/2022	EPA 245.1	257827	EPA 245.1	257846
70213830017	MW-06C_5/10/2022	EPA 245.1	257827	EPA 245.1	257846
70213830019	FIELD BLANK_5/10/2022	EPA 245.1	257827	EPA 245.1	257846
70213830022	MW-06B_5/11/22	EPA 245.1	257827	EPA 245.1	257846
70213830024	MW-06A_5/11/22	EPA 245.1	257827	EPA 245.1	257846
70213830026	MW-06F_5/11/22	EPA 245.1	257827	EPA 245.1	257846
70213830029	LF-2_5/12/22	EPA 245.1	258170	EPA 245.1	258232
70213830031	LF-1_5/12/22	EPA 245.1	258170	EPA 245.1	258232
70213830033	MW-06E_5/12/22	EPA 245.1	258170	EPA 245.1	258232
70213830003	OBS-1_5/5/2022 DISS	EPA 245.1	258169	EPA 245.1	258231
70213830005	MW-09B_5/5/2022 DISS	EPA 245.1	258169	EPA 245.1	258231
70213830007	MW-09C_5/5/2022 DISS	EPA 245.1	258169	EPA 245.1	258231
70213830009	MW-05B_5/5/2022 DISS	EPA 245.1	258169	EPA 245.1	258231
70213830012	MW-08B_5/10/2022 DISS	EPA 245.1	258169	EPA 245.1	258231
70213830014	MW-08A_5/10/2022 DISS	EPA 245.1	258169	EPA 245.1	258231
70213830016	BLIND DUPLICATE_5/10/2022 DISS	EPA 245.1	258169	EPA 245.1	258231
70213830018	MW-06C_5/10/2022 DISS	EPA 245.1	258169	EPA 245.1	258231
70213830020	FIELD BLANK_5/10/2022 DISS	EPA 245.1	258169	EPA 245.1	258231
70213830023	MW-06B_5/11/22 DISS	EPA 245.1	258169	EPA 245.1	258231
70213830025	MW-06A_5/11/22 DISS	EPA 245.1	258169	EPA 245.1	258231
70213830027	MW-06F_5/11/22 DISS	EPA 245.1	258169	EPA 245.1	258231
70213830030	LF-2_5/12/22 DISS	EPA 245.1	258169	EPA 245.1	258231
70213830032	LF-1_5/12/22 DISS	EPA 245.1	258169	EPA 245.1	258231
70213830034	MW-06E_5/12/22 DISS	EPA 245.1	258169	EPA 245.1	258231
70213830001	TRIP BLANK_5/5/2022	EPA 8260C/5030C	256858		
70213830002	OBS-1_5/5/2022	EPA 8260C/5030C	256858		
70213830004	MW-09B_5/5/2022	EPA 8260C/5030C	256858		
70213830006	MW-09C_5/5/2022	EPA 8260C/5030C	256858		
70213830008	MW-05B_5/5/2022	EPA 8260C/5030C	256858		
70213830010	TRIP BLANK_5/10/2022	EPA 8260C/5030C	257253		
70213830011	MW-08B_5/10/2022	EPA 8260C/5030C	257253		
70213830013	MW-08A_5/10/2022	EPA 8260C/5030C	257253		
70213830015	BLIND DUPLICATE_5/10/2022	EPA 8260C/5030C	257253		
70213830017	MW-06C_5/10/2022	EPA 8260C/5030C	257253		
70213830019	FIELD BLANK_5/10/2022	EPA 8260C/5030C	257253		
70213830021	TRIP BLANK_5/11/22	EPA 8260C/5030C	257253		
70213830022	MW-06B_5/11/22	EPA 8260C/5030C	257253		
70213830024	MW-06A_5/11/22	EPA 8260C/5030C	257253		
70213830026	MW-06F_5/11/22	EPA 8260C/5030C	257253		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70213830028	TRIP BLANK_5/12/22	EPA 8260C/5030C	257829		
70213830029	LF-2_5/12/22	EPA 8260C/5030C	257253		
70213830031	LF-1_5/12/22	EPA 8260C/5030C	257829		
70213830033	MW-06E_5/12/22	EPA 8260C/5030C	257253		
70213830002	OBS-1_5/5/2022	SM22 2320B	257479		
70213830004	MW-09B_5/5/2022	SM22 2320B	257479		
70213830006	MW-09C_5/5/2022	SM22 2320B	257479		
70213830008	MW-05B_5/5/2022	SM22 2320B	257479		
70213830011	MW-08B_5/10/2022	SM22 2320B	257773		
70213830013	MW-08A_5/10/2022	SM22 2320B	257773		
70213830015	BLIND DUPLICATE_5/10/2022	SM22 2320B	257773		
70213830017	MW-06C_5/10/2022	SM22 2320B	257773		
70213830019	FIELD BLANK_5/10/2022	SM22 2320B	257773		
70213830022	MW-06B_5/11/22	SM22 2320B	257887		
70213830024	MW-06A_5/11/22	SM22 2320B	257887		
70213830026	MW-06F_5/11/22	SM22 2320B	257887		
70213830031	LF-1_5/12/22	SM22 2320B	258137		
70213830033	MW-06E_5/12/22	SM22 2320B	258137		
70213830029	LF-2_5/12/22	SM22 2320B	258233		
70213830002	OBS-1_5/5/2022	SM22 2540C	256354		
70213830004	MW-09B_5/5/2022	SM22 2540C	256354		
70213830006	MW-09C_5/5/2022	SM22 2540C	256354		
70213830008	MW-05B_5/5/2022	SM22 2540C	256354		
70213830011	MW-08B_5/10/2022	SM22 2540C	256905		
70213830013	MW-08A_5/10/2022	SM22 2540C	256905		
70213830015	BLIND DUPLICATE_5/10/2022	SM22 2540C	256905		
70213830017	MW-06C_5/10/2022	SM22 2540C	256905		
70213830019	FIELD BLANK_5/10/2022	SM22 2540C	256905		
70213830022	MW-06B_5/11/22	SM22 2540C	257104		
70213830024	MW-06A_5/11/22	SM22 2540C	257104		
70213830026	MW-06F_5/11/22	SM22 2540C	257104		
70213830029	LF-2_5/12/22	SM22 2540C	257333		
70213830031	LF-1_5/12/22	SM22 2540C	257333		
70213830033	MW-06E_5/12/22	SM22 2540C	257333		
70213830002	OBS-1_5/5/2022	SM22 3500-Cr B	255656		
70213830003	OBS-1_5/5/2022 DISS	SM22 3500-Cr B	255656		
70213830004	MW-09B_5/5/2022	SM22 3500-Cr B	255656		
70213830005	MW-09B_5/5/2022 DISS	SM22 3500-Cr B	255656		
70213830006	MW-09C_5/5/2022	SM22 3500-Cr B	255656		
70213830007	MW-09C_5/5/2022 DISS	SM22 3500-Cr B	255656		
70213830008	MW-05B_5/5/2022	SM22 3500-Cr B	255656		
70213830009	MW-05B_5/5/2022 DISS	SM22 3500-Cr B	255656		

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70213830011	MW-08B_5/10/2022	SM22 3500-Cr B	256073		
70213830012	MW-08B_5/10/2022 DISS	SM22 3500-Cr B	256073		
70213830013	MW-08A_5/10/2022	SM22 3500-Cr B	256073		
70213830014	MW-08A_5/10/2022 DISS	SM22 3500-Cr B	256073		
70213830015	BLIND DUPLICATE_5/10/2022	SM22 3500-Cr B	256073		
70213830016	BLIND DUPLICATE_5/10/2022 DISS	SM22 3500-Cr B	256073		
70213830017	MW-06C_5/10/2022	SM22 3500-Cr B	256073		
70213830018	MW-06C_5/10/2022 DISS	SM22 3500-Cr B	256073		
70213830019	FIELD BLANK_5/10/2022	SM22 3500-Cr B	256073		
70213830020	FIELD BLANK_5/10/2022 DISS	SM22 3500-Cr B	256073		
70213830022	MW-06B_5/11/22	SM22 3500-Cr B	256304		
70213830023	MW-06B_5/11/22 DISS	SM22 3500-Cr B	256304		
70213830024	MW-06A_5/11/22	SM22 3500-Cr B	256304		
70213830025	MW-06A_5/11/22 DISS	SM22 3500-Cr B	256304		
70213830026	MW-06F_5/11/22	SM22 3500-Cr B	256304		
70213830027	MW-06F_5/11/22 DISS	SM22 3500-Cr B	256304		
70213830029	LF-2_5/12/22	SM22 3500-Cr B	256609		
70213830030	LF-2_5/12/22 DISS	SM22 3500-Cr B	256609		
70213830031	LF-1_5/12/22	SM22 3500-Cr B	256609		
70213830032	LF-1_5/12/22 DISS	SM22 3500-Cr B	256609		
70213830033	MW-06E_5/12/22	SM22 3500-Cr B	256609		
70213830034	MW-06E_5/12/22 DISS	SM22 3500-Cr B	256609		
70213830002	OBS-1_5/5/2022	EPA 300.0	256688		
70213830004	MW-09B_5/5/2022	EPA 300.0	256688		
70213830006	MW-09C_5/5/2022	EPA 300.0	256688		
70213830008	MW-05B_5/5/2022	EPA 300.0	256688		
70213830011	MW-08B_5/10/2022	EPA 300.0	256823		
70213830013	MW-08A_5/10/2022	EPA 300.0	256823		
70213830015	BLIND DUPLICATE_5/10/2022	EPA 300.0	256823		
70213830017	MW-06C_5/10/2022	EPA 300.0	256823		
70213830019	FIELD BLANK_5/10/2022	EPA 300.0	256823		
70213830022	MW-06B_5/11/22	EPA 300.0	257186		
70213830024	MW-06A_5/11/22	EPA 300.0	257188		
70213830026	MW-06F_5/11/22	EPA 300.0	257188		
70213830029	LF-2_5/12/22	EPA 300.0	257632		
70213830031	LF-1_5/12/22	EPA 300.0	257632		
70213830033	MW-06E_5/12/22	EPA 300.0	257632		
70213830002	OBS-1_5/5/2022	EPA 351.2	257695	EPA 351.2	257706
70213830004	MW-09B_5/5/2022	EPA 351.2	257695	EPA 351.2	257706
70213830006	MW-09C_5/5/2022	EPA 351.2	257695	EPA 351.2	257706
70213830008	MW-05B_5/5/2022	EPA 351.2	257695	EPA 351.2	257706
70213830011	MW-08B_5/10/2022	EPA 351.2	257695	EPA 351.2	257706
70213830013	MW-08A_5/10/2022	EPA 351.2	257695	EPA 351.2	257706
70213830015	BLIND DUPLICATE_5/10/2022	EPA 351.2	257695	EPA 351.2	257706

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70213830017	MW-06C_5/10/2022	EPA 351.2	257695	EPA 351.2	257706
70213830019	FIELD BLANK_5/10/2022	EPA 351.2	257695	EPA 351.2	257706
70213830022	MW-06B_5/11/22	EPA 351.2	257695	EPA 351.2	257706
70213830024	MW-06A_5/11/22	EPA 351.2	257695	EPA 351.2	257706
70213830026	MW-06F_5/11/22	EPA 351.2	257695	EPA 351.2	257706
70213830029	LF-2_5/12/22	EPA 351.2	257695	EPA 351.2	257706
70213830031	LF-1_5/12/22	EPA 351.2	257695	EPA 351.2	257706
70213830033	MW-06E_5/12/22	EPA 351.2	257695	EPA 351.2	257706
70213830002	OBS-1_5/5/2022	EPA 353.2	256718		
70213830004	MW-09B_5/5/2022	EPA 353.2	256718		
70213830006	MW-09C_5/5/2022	EPA 353.2	256719		
70213830008	MW-05B_5/5/2022	EPA 353.2	256719		
70213830011	MW-08B_5/10/2022	EPA 353.2	256898		
70213830013	MW-08A_5/10/2022	EPA 353.2	256898		
70213830015	BLIND DUPLICATE_5/10/2022	EPA 353.2	256898		
70213830017	MW-06C_5/10/2022	EPA 353.2	256898		
70213830019	FIELD BLANK_5/10/2022	EPA 353.2	256898		
70213830022	MW-06B_5/11/22	EPA 353.2	256898		
70213830024	MW-06A_5/11/22	EPA 353.2	256898		
70213830026	MW-06F_5/11/22	EPA 353.2	256898		
70213830029	LF-2_5/12/22	EPA 353.2	256898		
70213830031	LF-1_5/12/22	EPA 353.2	256898		
70213830033	MW-06E_5/12/22	EPA 353.2	256898		
70213830002	OBS-1_5/5/2022	EPA 353.2	255645		
70213830004	MW-09B_5/5/2022	EPA 353.2	255645		
70213830006	MW-09C_5/5/2022	EPA 353.2	255645		
70213830008	MW-05B_5/5/2022	EPA 353.2	255645		
70213830011	MW-08B_5/10/2022	EPA 353.2	256098		
70213830013	MW-08A_5/10/2022	EPA 353.2	256098		
70213830015	BLIND DUPLICATE_5/10/2022	EPA 353.2	256057		
70213830017	MW-06C_5/10/2022	EPA 353.2	256099		
70213830019	FIELD BLANK_5/10/2022	EPA 353.2	256099		
70213830022	MW-06B_5/11/22	EPA 353.2	256418		
70213830024	MW-06A_5/11/22	EPA 353.2	256418		
70213830026	MW-06F_5/11/22	EPA 353.2	256418		
70213830029	LF-2_5/12/22	EPA 353.2	256713		
70213830031	LF-1_5/12/22	EPA 353.2	256713		
70213830033	MW-06E_5/12/22	EPA 353.2	256713		
70213830002	OBS-1_5/5/2022	EPA 420.1	256535	EPA 420.1	256651
70213830004	MW-09B_5/5/2022	EPA 420.1	256535	EPA 420.1	256651
70213830006	MW-09C_5/5/2022	EPA 420.1	256535	EPA 420.1	256651
70213830008	MW-05B_5/5/2022	EPA 420.1	256535	EPA 420.1	256651
70213830011	MW-08B_5/10/2022	EPA 420.1	256754	EPA 420.1	256798

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70213830013	MW-08A_5/10/2022	EPA 420.1	256754	EPA 420.1	256798
70213830015	BLIND DUPLICATE_5/10/2022	EPA 420.1	256754	EPA 420.1	256798
70213830017	MW-06C_5/10/2022	EPA 420.1	256754	EPA 420.1	256798
70213830019	FIELD BLANK_5/10/2022	EPA 420.1	257338	EPA 420.1	257451
70213830022	MW-06B_5/11/22	EPA 420.1	256754	EPA 420.1	256798
70213830024	MW-06A_5/11/22	EPA 420.1	256754	EPA 420.1	256798
70213830026	MW-06F_5/11/22	EPA 420.1	256754	EPA 420.1	256798
70213830029	LF-2_5/12/22	EPA 420.1	257338	EPA 420.1	257451
70213830031	LF-1_5/12/22	EPA 420.1	257338	EPA 420.1	257451
70213830033	MW-06E_5/12/22	EPA 420.1	257338	EPA 420.1	257451
70213830002	OBS-1_5/5/2022	SM20/22 4500-CN-C	256370	SM22 4500-CN-E	256447
70213830004	MW-09B_5/5/2022	SM20/22 4500-CN-C	256370	SM22 4500-CN-E	256447
70213830006	MW-09C_5/5/2022	SM20/22 4500-CN-C	256370	SM22 4500-CN-E	256447
70213830008	MW-05B_5/5/2022	SM20/22 4500-CN-C	256370	SM22 4500-CN-E	256447
70213830011	MW-08B_5/10/2022	SM20/22 4500-CN-C	257098	SM22 4500-CN-E	257236
70213830013	MW-08A_5/10/2022	SM20/22 4500-CN-C	257098	SM22 4500-CN-E	257236
70213830015	BLIND DUPLICATE_5/10/2022	SM20/22 4500-CN-C	257098	SM22 4500-CN-E	257236
70213830017	MW-06C_5/10/2022	SM20/22 4500-CN-C	257098	SM22 4500-CN-E	257236
70213830019	FIELD BLANK_5/10/2022	SM20/22 4500-CN-C	257098	SM22 4500-CN-E	257236
70213830022	MW-06B_5/11/22	SM20/22 4500-CN-C	257731	SM22 4500-CN-E	257823
70213830024	MW-06A_5/11/22	SM20/22 4500-CN-C	257731	SM22 4500-CN-E	257823
70213830026	MW-06F_5/11/22	SM20/22 4500-CN-C	257731	SM22 4500-CN-E	257823
70213830029	LF-2_5/12/22	SM20/22 4500-CN-C	257893	SM22 4500-CN-E	257994
70213830031	LF-1_5/12/22	SM20/22 4500-CN-C	257893	SM22 4500-CN-E	257994
70213830033	MW-06E_5/12/22	SM20/22 4500-CN-C	257893	SM22 4500-CN-E	257994
70213830002	OBS-1_5/5/2022	SM22 4500-Cl-E	256560		
70213830004	MW-09B_5/5/2022	SM22 4500-Cl-E	256560		
70213830006	MW-09C_5/5/2022	SM22 4500-Cl-E	256560		
70213830008	MW-05B_5/5/2022	SM22 4500-Cl-E	256560		
70213830011	MW-08B_5/10/2022	SM22 4500-Cl-E	256560		
70213830013	MW-08A_5/10/2022	SM22 4500-Cl-E	256560		
70213830015	BLIND DUPLICATE_5/10/2022	SM22 4500-Cl-E	256560		
70213830017	MW-06C_5/10/2022	SM22 4500-Cl-E	256560		
70213830019	FIELD BLANK_5/10/2022	SM22 4500-Cl-E	256560		
70213830022	MW-06B_5/11/22	SM22 4500-Cl-E	256560		
70213830024	MW-06A_5/11/22	SM22 4500-Cl-E	256560		
70213830026	MW-06F_5/11/22	SM22 4500-Cl-E	256560		
70213830029	LF-2_5/12/22	SM22 4500-Cl-E	256927		
70213830031	LF-1_5/12/22	SM22 4500-Cl-E	256927		
70213830033	MW-06E_5/12/22	SM22 4500-Cl-E	256927		
70213830002	OBS-1_5/5/2022	SM22 4500 NH3 H	256963		
70213830004	MW-09B_5/5/2022	SM22 4500 NH3 H	256963		
70213830006	MW-09C_5/5/2022	SM22 4500 NH3 H	256963		
70213830008	MW-05B_5/5/2022	SM22 4500 NH3 H	256963		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 5/5
Pace Project No.: 70213830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70213830011	**MW-08B_5/10/2022**	SM22 4500 NH3 H	256963		
70213830013	**MW-08A_5/10/2022**	SM22 4500 NH3 H	256963		
70213830015	**BLIND DUPLICATE_5/10/2022**	SM22 4500 NH3 H	256963		
70213830017	**MW-06C_5/10/2022**	SM22 4500 NH3 H	256963		
70213830019	**FIELD BLANK_5/10/2022**	SM22 4500 NH3 H	256963		
70213830022	**MW-06B_5/11/22**	SM22 4500 NH3 H	256963		
70213830024	**MW-06A_5/11/22**	SM22 4500 NH3 H	256963		
70213830026	**MW-06F_5/11/22**	SM22 4500 NH3 H	256963		
70213830029	**LF-2_5/12/22**	SM22 4500 NH3 H	256963		
70213830031	**LF-1_5/12/22**	SM22 4500 NH3 H	256963		
70213830033	**MW-06E_5/12/22**	SM22 4500 NH3 H	256963		

WO#: 70213830

70213830

Pace

CHAIN-OF-CUSTO[DY]

The Chain-of-Custody is a LE[GAL DOCUMENT] ...ely.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace T[erms] ...rd-terms.pdf.

Page : 1 Of 1

Section A — Required Client Information:

Company:	Town of Oyster Bay
Address:	150 Miller Place
	Syosset, NY 11791
Email:	mrusso@tobays.net
Phone: NONE	Fax
Requested Due Date:	Standard

Section B — Required Project Information:

Report To:	Russo, Matt
Copy To:	Keith Robins (D&B Engineers and Architects)
Purchase Order #:	
Project Name:	Old Bethpage Landfill
Project #:	3617-07 First Semi-annual 2022 Event

Section C — Invoice Information:

Attention:	Matt Russo
Company Name:	Town of Oyster Bay
Address:	150 Miller Place, Syosset, NY 11791
Pace Quote:	
Pace Project Manager:	giovanna.deloca@pacelabs.com,
Pace Profile #:	6466

Regulatory Agency
State / Location
NY

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Requested Analysis Filtered (Y/N): VOC by 8260 N; NH3,NO3,Phenols,TKN N; Cyanide N; Total Metals & Hardness N; Dissolved Metals (field filter) N; Dissolved Cr+6 (Field Filter) N; Alk,Cl,SO4,CO3,Cr6,HCO3 N; No2,TDS N

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (Field Filter)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)
1	Trip Blank - 5/5/2022	WT	–	5/5/22	–	5/5/22	–		2	–	–	–	2	–	–	–	–		✓	–	–	–	–	–	–	–	N
2	OBS-1 - 5/5/2022	WT	G	5/5/22	0950	5/5/22	–	8	8	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N
3	MW-09B - 5/5/2022	WT	G	5/5/22	1:15pm	5/5/22	–		8	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N
4	MW-09C - 5/5/2022	WT	G	5/5/22	2:30pm	5/5/22	–		8	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N
5	MW-05B - 5/5/2022	WT	G	5/5/22	4:45pm	5/5/22	–		8	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N
6																											
7																											
8																											
9																											
10																											
11																											
12																											

Notes: VOCs leachate indicators, total metals, dissolved metals. Field filtered for dissolved metals and CR+6

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill	Keith Robins / D&B	5/5/2022	6:00pm	[signature]	5/5/22	1807	0.0	N	N	Y
Field filtering for metals and CR+6, denoted with "F"										
Provide category "B" and EQuIS deliverables										
Send data to: lab data@db-eng.com							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith Robins

SIGNATURE of SAMPLER: Keith Robins — DATE Signed: 5/5/2022

Pace Analytical®

Sample Condition Upon Receip

WO# : 70213830

PM: STS **Due Date: 05/20/22**

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 ☑ N/A

Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Type of Ice: (Wet) Blue None

Thermometer Used: TH091 Correction Factor: + 0.1

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 0.0 Cooler Temperature Corrected(°C): .1

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Date and Initials of person examining contents: KJS 5/16/22

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 (F-LI-C-010) and include with SCUR/COC paperwork.

				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 I	☑ 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:	☑ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SL WT OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC775724				
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	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	☑ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot # 14-8860				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☑ Yes	☐ No	☐ N/A	15.
Lead Acetate Strips Lot # 5600125				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	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

ENV-FRM-MELV-0024 01

Pace

CHAIN-OF-CUSTODY / Analytical Re

The Chain-of-Custody is a LEGAL DOCUMENT. All relev

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at

WO# : 70213830

PM: STS **Due Date: 05/20/22**

CLIENT: TOY

1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Town of Oyster Bay	Report To: Russo, Matt	Attention: MATT RUSSO
Address: 150 Miller Place	Copy To: KEITH ROBINS (D+B)	Company Name: Town of Oyster Bay
Syosset, NY 11791		Address: 150 Miller Place, NY 11791
Email: mrusso@tobays.net	Purchase Order #:	Pace Quote:
Phone: NONE Fax:	Project Name: Old Bethpage Landfill	Pace Project Manager: giovanna.deloca@pacelabs.com,
Requested Due Date: STandard	Project #: 3617-07 (First Semiannual Post Termination GW Event 2022)	Pace Profile #: 6466

Regulatory Agency	State / Location
	NY

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (Field Filter)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)	
	MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	Y/N	N	N	N	N	N	N	N	N		
1	Trip Blank – 5/10/2022	WT	–	5/10/22	–	5/10/22	–		2	–	–	–	2	–	–	–	–		✓	–	–	–	–	–	–	–	N	
2	MW-08B – 5/10/2022	WT	G	5/10/22	0950	5/10/22	–		6	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N	
3	MW-08A – 5/10/2022	WT	G	5/10/22	1110 am	5/10/22	–		6	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N	
4	Blind Duplicate – 5/10/2022	WT	G	5/10/22	0000	5/10/22	–		6	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N	
5	MW-06C – 5/10/2022	WT	G	5/10/22	1320 pm	5/10/22	–		8	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N	
6	Field Blank – 5/10/2022	WT	G	5/10/22	1:45 pm	5/10/22	–		8	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓		
7																												
8																												
9																												
10																												
11																												
12																												

Requested Analysis Filtered (Y/N)

Residual Chlorine (Y/N): VOCs, Leachate indicators, metals (Total and dissolved) (Cr+6)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill – Samples designated with "F", were field filtered for metals (dissolved) and Cr+6	Keith Robins / D+B Engineering	5-10-22	2:42 pm		5/10/22	14:45	0.0	W	N	X
Send data to Lab data @ db-ny.com										
Provide Category 'B' and EQuIS										

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Keith Robins					
SIGNATURE of SAMPLER:	Keith Robins	DATE Signed: 5-10-2022				

Pace Analytical®

Sample Condition Upon Rece

WO#: 70213830

PM: STS **Due Date: 05/20/22**

CLIENT: TOY

Client Name: Projec

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No ☑ N/A

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Thermometer Used: TH~~89~~1077 Correction Factor: + 0.1

Cooler Temperature(°C): 0.3 Cooler Temperature Corrected(°C): 0.4

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Temperature Blank Present: ☑ Yes ☐ No

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: KWS 5/10/22

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 (F-LI-C-010) and include with SCUR/COC paperwork.

				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 I	☑ 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:	☑ Yes	☐ No		12.
-Includes date/time/ID/ Matrix: SL (WT) OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC160347				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).				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	☑ Yes	☐ No	~~☐ N/A~~	14.
KI starch test strips Lot # 14-860				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☑ Yes	☐ No	~~☐ N/A~~	15.
Lead Acetate Strips Lot # 560125				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	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

Laboratory Report

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

LIAL# 2051827

May 19, 2022

Pace Analytical
Sophia Sparkes
575 Broad Hollow Road
Melville, NY 11747

Re: Old Bethpage Landfilll 5/5

Dear Sophia Sparkes,

Enclosed please find the laboratory Analysis Report(s) for sample(s) received on May 18, 2022. Long Island Analytical laboratories analyzed the samples on May 19, 2022 for the following:

SAMPLE ID	ANALYSIS
70213830002	Alkalinity
70213830004	Alkalinity
70213830006	Alkalinity
70213830008	Alkalinity

Samples received at 2.1 ° C

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Michael Veraldi - Laboratory Director

Client: Pace Analytical	Client ID: Old Bethpage Landfilll 5/5
Date (Time) Collected: 05/05/2022 09:50	Sample ID: 70213830002
Date (Time) Received: 05/18/2022 16:13	Laboratory ID: 2051827-01
Matrix: Potable Water	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Alkalinity	05/18/2022 17:42	SM 21-23 2320B (-97)	5.00	125	mg/L	

Date Prepared: 05/18/2022

Preparation Method: No Preparation

Client: Pace Analytical	Client ID: Old Bethpage Landfilll 5/5
Date (Time) Collected: 05/05/2022 13:15	Sample ID: 70213830004
Date (Time) Received: 05/18/2022 16:13	Laboratory ID: 2051827-02
Matrix: Potable Water	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Alkalinity	05/18/2022 17:42	SM 21-23 2320B (-97)	5.00	32.0	mg/L	

Date Prepared: 05/18/2022

Preparation Method: No Preparation

Client: Pace Analytical	Client ID: Old Bethpage Landfilll 5/5
Date (Time) Collected: 05/05/2022 14:30	Sample ID: 70213830006
Date (Time) Received: 05/18/2022 16:13	Laboratory ID: 2051827-03
Matrix: Potable Water	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Alkalinity	05/18/2022 17:42	SM 21-23 2320B (-97)	5.00	59.0	mg/L	

Date Prepared: 05/18/2022

Preparation Method: No Preparation

Client: Pace Analytical	Client ID: Old Bethpage Landfilll 5/5
Date (Time) Collected: 05/05/2022 16:45	Sample ID: 70213830008
Date (Time) Received: 05/18/2022 16:13	Laboratory ID: 2051827-04
Matrix: Potable Water	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Alkalinity	05/19/2022 09:21	SM 21-23 2320B (-97)	5.00	12.5	mg/L	

Date Prepared: 05/18/2022

Preparation Method: No Preparation

Data Qualifiers Key Reference:

MDL Minimum Detection Limit

LOQ Limit of Quantitation

H Holding Time Exceeded

Chain of Custody

PASI New York Laboratory

Pace Analytical®
www.pacelabs.com

Workorder: 70213830 **Workorder Name:** OLD BETHPAGE LANDFILL 5/5 **Results Requested By:** 5/20/2022

2051827

Report / Invoice To	Subcontract To
Sophia Sparkes Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040 Email: sophia.sparkes@pacelabs.com	LIAL **P.O.70213830STS**

State of Sample Origin: NY

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: Alkalinity	LAB USE ONLY
1	OBS-1_5/5/2022	5/5/2022 09:50	70213830002	Water		X	
2	MW-09B_5/5/2022	5/5/2022 13:15	70213830004	Water		X	
3	MW-09C_5/5/2022	5/5/2022 14:30	70213830006	Water		X	
4	MW-05B_5/5/2022	5/5/2022 16:45	70213830008	Water		X	
5							

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	5/18/22 3:00	[signature]	5/18/22 18:19
2				
3				

Comments

Cooler Temperature on Receipt 2.1 °C | **Custody Seal** Y or | **Received on Ice** Y or | **Samples Intact** Y or

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

June 15, 2022

Keith Robins
Dvirka & Bartilucci
330 Crossways Park Drive
Woodbury, NY 11797

RE: Project:
Pace Project No.:

Dear Keith Robins:

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

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

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

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

Sincerely,

Sophia Sparkes

Sophia Sparkes
sophia.sparkes@pacelabs.com
(631)694-3040
Project Manager

Enclosures

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

WO# : 70213830

70213830

CHAIN-OF-CUSTO

The Chain-of-Custody is a LE ely.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace T ard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Town of Oyster Bay	Report To:	Russo, Matt	Attention:	Matt Russo
Address:	150 Miller Place	Copy To:	Keith Robins (D&B Engineers and Architects)	Company Name:	Town of Oyster Bay
Syosset, NY 11791				Address:	150 Miller Place, Syosset, NY 11791
Email:	mrusso@tobays.net	Purchase Order #:		Pace Quote:	
Phone:	NONE Fax	Project Name:	Old Bethpage Landfill	Pace Project Manager:	giovanna.deloca@pacelabs.com,
Requested Due Date:	Standard	Project #:	3617-07 First Semiannual 2022 EVENT	Pace Profile #:	6466

Regulatory Agency	State / Location
	NY

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (Field Filter)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)	Vocs leachate Indicators, total metals dissolved metals Field filtered for dissolved metals and CR+6
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																	Y/N	N	N	N	N	N	N	N	N		
1	Trip Blank - 5/5/2022	WT	-	5/5/22	-	5/5/22	-		2	-	-	-	2	-	-	-	-		✓	-	-	-	-	-	-		N	
2	OBS-1 - 5/5/2022	WT	G	5/5/22	0950	5/5/22	-		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	
3	MW-09B - 5/5/2022	WT	G	5/5/22	1150	5/5/22	-		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	
4	MW-09C - 5/5/2022	WT	G	5/5/22	1230	5/5/22	-		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	
5	MW-05B - 5/5/2022	WT	G	5/5/22	1445	5/5/22	-		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill	Keith Robins / D&B	5/5/2022	6:00pm		5/5/22	1810	10.0	W	N	Y
Field filtering for metals and CR+6, denoted with an "F"										
Provide category "B" and EQuIS deliverable										
Cal data to: Lab data @ d6-pace.com										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Keith Robins				
SIGNATURE of SAMPLER:	Keith Robins	DATE Signed:	5/5/2022		

Pace Analytical®

Sample Condition Upon Receip

WO# : 70213830

PM: STS **Due Date: 05/20/22**

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 ☐ N/A

Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Type of Ice: (Wet) Blue None

Thermometer Used: TH091 Correction Factor: + 0.1

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 0.0 Cooler Temperature Corrected(°C): .1

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Date and Initials of person examining contents: KJS 5/6/22

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 (F-LI-C-010) and include with SCUR/COC paperwork.

				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 I	☑ 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:	☑ Yes	☐ No		12.
-Includes date/time/ID/Matrix: SL WT OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC775724				
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	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	☑ Yes	☐ No	~~☐ N/A~~	14.
KI starch test strips Lot # 14-8600				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☑ Yes	☐ No	☐ N/A	15.
Lead Acetate Strips Lot # 560125				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	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Keith Robins @ D&B Date/Time: 5/12/22

Comments/ Resolution:

The client was emailed regarding Cr6 samples out of hold.

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

ENV-FRM-MELV-0024 01

Pace

CHAIN-OF-CUSTODY / Analytical Re

The Chain-of-Custody is a LEGAL DOCUMENT. All relev

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at

WO# : 70213830

PM: STS **Due Date: 05/20/22**

CLIENT: TOY

1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Town of Oyster Bay	Report To:	Russo, Matt	Attention:	MATT RUSSO
Address:	150 Miller Place	Copy To:	Keith Robins (D+B)	Company Name:	Town of Oyster Bay
	Syosset, NY 11791			Address:	150 Miller Place, NY 11791
Email:	mrusso@tobays.net	Purchase Order #:		Pace Quote:	
Phone:	NONE Fax:	Project Name:	Old Bethpage Landfill	Pace Project Manager:	giovanna.deloca@pacelabs.com,
Requested Due Date:	STandard	Project #:	3617-07 (First Semiannual Post Remediation GW Event 2022)	Pace Profile #:	6466

Regulatory Agency	
State / Location	NY

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (Field Filter)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)	VOCs, Leachate indicators, metals (Total and dissolved) (CR+6)
	MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	N	N	N	N	N	N	W	N			
1	Trip Blank – 5/10/2022	WT	–	5/10/22	–	5/10/22	–		2	–	–	–	2	–	–	–	–		✓	–	–	–	–	–	–		N	
2	MW-08B – 5/10/2022	WT	G	5/10/22	0950	5/10/22	–		8	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N	
3	MW-08A – 5/10/2022	WT	G	5/10/22	1110 am	5/10/22	–		8	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N	
4	Blind Duplicate – 5/10/2022	WT	G	5/10/22	0000	5/10/22	–		8	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N	
5	MW-06C – 5/10/2022	WT	G	5/10/22	1200 pm	5/10/22	–		8	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N	
6	Field Blank – 5/10/2022	WT	G	5/10/22	1145 pm	5/10/22	–		8	2	1	2	2	1	–	–	–		✓	✓	✓	✓	✓	✓	✓	✓	N	
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Old Bethpage Landfill – Samples denoted with "F", were field filtered for metals (dissolved) and CR+6	Keith Robins / D+B Engr.	5-10-22	242pm		5/10/22	14:45	0.0	✓	N	X
Send data to Lab data @ db-eng.com										
Provide Category 'B' and EQuIS										

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Keith Robins
SIGNATURE of SAMPLER:	Keith Robins
DATE Signed:	5-10-2022

Pace Analytical®

Sample Condition Upon Rece

WO#: 70213830

PM: STS **Due Date: 05/20/22**

CLIENT: TOY

Client Name: Projec

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No ☑ N/A

Temperature Blank Present: ☑ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Type of Ice: Wet Blue None

Thermometer Used: TH~~01~~ 077 Correction Factor: + 0.1

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 0.3 Cooler Temperature Corrected(°C): 0.4

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Date and Initials of person examining contents: KWS 5/10/22

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 (F-LI-C-010) and include with SCUR/COC paperwork.

				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 I	☑ 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:	☑ Yes	☐ No		12.
-Includes date/time/ID/ Matrix: SL (WT) OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC160347				
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	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	☑ Yes	☐ No	~~☐ N/A~~	14.
KI starch test strips Lot # 14-860				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☑ Yes	☐ No	~~☐ N/A~~	15.
Lead Acetate Strips Lot # SC0125				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	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Town of Oyster Bay	Report To:	Russo, Matt	Attention:	Matt Russo
Address:	150 Miller Place	Copy To:	Keith Robins D+B Engineers + Architects	Company Name:	Town of Oyster Bay
Syosset, NY 11791		Purchase Order #:		Address:	150 Miller Place, Syosset NY 11791
Email:	mrusso@tobays.net	Project Name:	Old Bethpage Landfill	Pace Quote:	
Phone:	NONE Fax:	Project #:	3617-07 First semiannual 2022 Event	Pace Project Manager:	giovanna.deloca@pacelabs.com,
Requested Due Date:	Standard			Pace Profile #:	6466

Regulatory Agency

State / Location: NY

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (Field Filter)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)	VOCs, leachate indicators, total metals, dissolved metals Field filtered for dissolved metals and CR+6
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	Requested Analysis Filtered (Y/N)	N	N	N	N	N	N	N	N		
1	Trip Blank_5/11/22	WT	-	5/11/22	-	5/11/22	-		2	-	-	-	2	-	-	-	-		J	-	-	-	-	-	-	-	N	
2	MW-06B_5/11/22	WT	G	5/11/22	0945	5/11/22	-		8	2	1	2	2	1	-	-	-		J	J	J	J	J	J	J	J	N	
3	MW-06A_5/11/22	WT	G	5/11/22	1130 est.	5/11/22	-		8	2	1	2	2	1	-	-	-		J	J	J	J	J	J	J	J	N	
4	MW-06F_5/11/22	WT	G	5/11/22	1150 est.	5/11/22	-		8	2	1	2	2	1	-	-	-		J	J	J	J	J	J	J	J	N	
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

WO#: 70213830

PM: STS Due Date: 05/20/22

CLIENT: TOY

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill	D+B/Engrs	5/11/2022	1316	Sara Rivenbark	5/11/22	1317	2.1	W	N	Y
Field Filtering for metals and CR+6 denoted with an "F"										
Provide Category B + Equis deliverables Send data to labdata@db-eng.com										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: Keith Robins DATE Signed: 5/11/2022

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical®

Sample Condition Upon Receipt

WO#: 70213830
PM: STS Due Date: 05/20/22
CLIENT: TOY

Client Name: Town of Oyster Bay Proj

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

Tracking #:

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No ☐ N/A

Temperature Blank Present: ☑ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Type of Ice: ☑ Wet Blue None

Thermometer Used: TH091 Correction Factor: + 0.1

☑ Samples on ice, cooling process has begun

Cooler Temperature(°C): 2.1 Cooler Temperature Corrected(°C): 2.2

Date/Time 5035A kits placed in freezer ✓

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Date and Initials of person examining contents: 5/11/22 EU

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 (F-LI-C-010) and include with SCUR/COC paperwork.

				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 I	☑ 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:	☑ Yes	☐ No		12.
-Includes date/time/ID/ Matrix: SL WT OIL				
All contalners needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC275724				
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	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	☐ 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 sulfide?	☐ 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	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

ENV-FRM-MELV-0024 01

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Town of Oyster Bay	Report To:	Russo, Matt	Attention:	Matt Russo
Address:	150 Miller Place	Copy To:	Keith Robins	Company Name:	Town of Oyster Bay
	Syosset, NY 11791		D+B Engineers + Architects	Address:	150 Miller Place, Syosset NY 11791
Email:	mrusso@tobays.net	Purchase Order #:		Pace Quote:	
Phone:	NONE Fax:	Project Name:	Old Bethpage Landfill	Pace Project Manager:	giovanna.deloca@pacelabs.com
Requested Due Date:	Standard	Project #:	3617-07 First Semiannual 2022 Event	Pace Profile #:	6466

Regulatory Agency

State / Location: NY

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (Field Filter)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	Requested Analysis Filtered (Y/N)	N	N	N	N	N	N	N	N		VOCs, leachate indicators, total metals, dissolved metals, Field filtered for dissolved metals & CR+6
1	Trip Blank - 5/12/22	WT	—	5/12/22	-	5/12/22	—		2	-	-	-	2	-	-	-	-		✓	-	-	-	-	-	-		N	
2	LF-2 - 5/12/22	WT	G	5/12/22	0925	5/12/22	-		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	
3	LF-1 - 5/12/22	WT	G	5/12/22	1240	5/12/22	-		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	
4	MW-06E - 5/12/22	WT	G	5/12/22	1615	5/12/22	-		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

WO#: 70213830
PM: STS Due Date: 05/20/22
CLIENT: TOY

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill	Keith Robins / D+B Engrs	5/12/22	5:48pm		5/12/22	17:50	0.0	W	Y	Y
Field Filtering for metals & CR+6 denoted with "F"										
Provide Category B + Equis deliverables										
Send data to labdata@db-eng.com										

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Keith Robins					
SIGNATURE of SAMPLER:	Keith Robins	DATE Signed: 5/12/2022				

Pace Analytical®

Sample Condition Upon Rec

WO#: 70213830
PM: STS Due Date: 05/20/22
CLIENT: TOY

Client Name: TOY Proje

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No ☐ N/A Temperature Blank Present: ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: (Wet) Blue None

Thermometer Used: ~~TH091~~ TH159 Correction Factor: +0.1 ☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): .0 Cooler Temperature Corrected(°C): .1 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample) Date and Initials of person examining contents: KW 5/12/22

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 (F-LI-C-010) and include with SCUR/COC paperwork.

				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 I	☑ 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/ Matrix: SL WT OIL	☑ Yes	☐ No		12.
All containers needing preservation have been checked? pH paper Lot # HC 165724	☑ 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 # HC 860 Residual chlorine strips Lot #	☑ Yes	☐ No	☐ N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot # 560125	☑ 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	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

ENV-FRM-MELV-0024 01

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

Laboratory Report

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

LIAL# 2051827

May 19, 2022

Pace Analytical
Sophia Sparkes
575 Broad Hollow Road
Melville, NY 11747

Re: Old Bethpage Landfilll 5/5

Dear Sophia Sparkes,

Enclosed please find the laboratory Analysis Report(s) for sample(s) received on May 18, 2022. Long Island Analytical laboratories analyzed the samples on May 19, 2022 for the following:

SAMPLE ID	ANALYSIS
70213830002	Alkalinity
70213830004	Alkalinity
70213830006	Alkalinity
70213830008	Alkalinity

Samples received at 2.1 ° C

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Michael Veraldi - Laboratory Director

Client: Pace Analytical	Client ID: Old Bethpage Landfilll 5/5
Date (Time) Collected: 05/05/2022 09:50	Sample ID: 70213830002
Date (Time) Received: 05/18/2022 16:13	Laboratory ID: 2051827-01
Matrix: Potable Water	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Alkalinity	05/18/2022 17:42	SM 21-23 2320B (-97)	5.00	125	mg/L	

Date Prepared: 05/18/2022

Preparation Method: No Preparation

Client: Pace Analytical	Client ID: Old Bethpage Landfilll 5/5
Date (Time) Collected: 05/05/2022 13:15	Sample ID: 70213830004
Date (Time) Received: 05/18/2022 16:13	Laboratory ID: 2051827-02
Matrix: Potable Water	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Alkalinity	05/18/2022 17:42	SM 21-23 2320B (-97)	5.00	32.0	mg/L	

Date Prepared: 05/18/2022

Preparation Method: No Preparation

Client: Pace Analytical	Client ID: Old Bethpage Landfilll 5/5
Date (Time) Collected: 05/05/2022 14:30	Sample ID: 70213830006
Date (Time) Received: 05/18/2022 16:13	Laboratory ID: 2051827-03
Matrix: Potable Water	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Alkalinity	05/18/2022 17:42	SM 21-23 2320B (-97)	5.00	59.0	mg/L	

Date Prepared: 05/18/2022

Preparation Method: No Preparation

Client: Pace Analytical	Client ID: Old Bethpage Landfilll 5/5
Date (Time) Collected: 05/05/2022 16:45	Sample ID: 70213830008
Date (Time) Received: 05/18/2022 16:13	Laboratory ID: 2051827-04
Matrix: Potable Water	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Alkalinity	05/19/2022 09:21	SM 21-23 2320B (-97)	5.00	12.5	mg/L	

Date Prepared: 05/18/2022

Preparation Method: No Preparation

Data Qualifiers Key Reference:

MDL Minimum Detection Limit

LOQ Limit of Quantitation

H Holding Time Exceeded

Chain of Custody

PASI New York Laboratory

Pace Analytical®
www.pacelabs.com

Workorder: 70213830 **Workorder Name:** OLD BETHPAGE LANDFILL 5/5 **Results Requested By:** 5/20/2022

2051827

Report / Invoice To	Subcontract To
Sophia Sparkes Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040 Email: sophia.sparkes@pacelabs.com	LIAL **P.O.70213830STS**

State of Sample Origin: NY

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: Alkalinity	LAB USE ONLY
1	OBS-1_5/5/2022	5/5/2022 09:50	70213830002	Water		X	
2	MW-09B_5/5/2022	5/5/2022 13:15	70213830004	Water		X	
3	MW-09C_5/5/2022	5/5/2022 14:30	70213830006	Water		X	
4	MW-05B_5/5/2022	5/5/2022 16:45	70213830008	Water		X	
5							

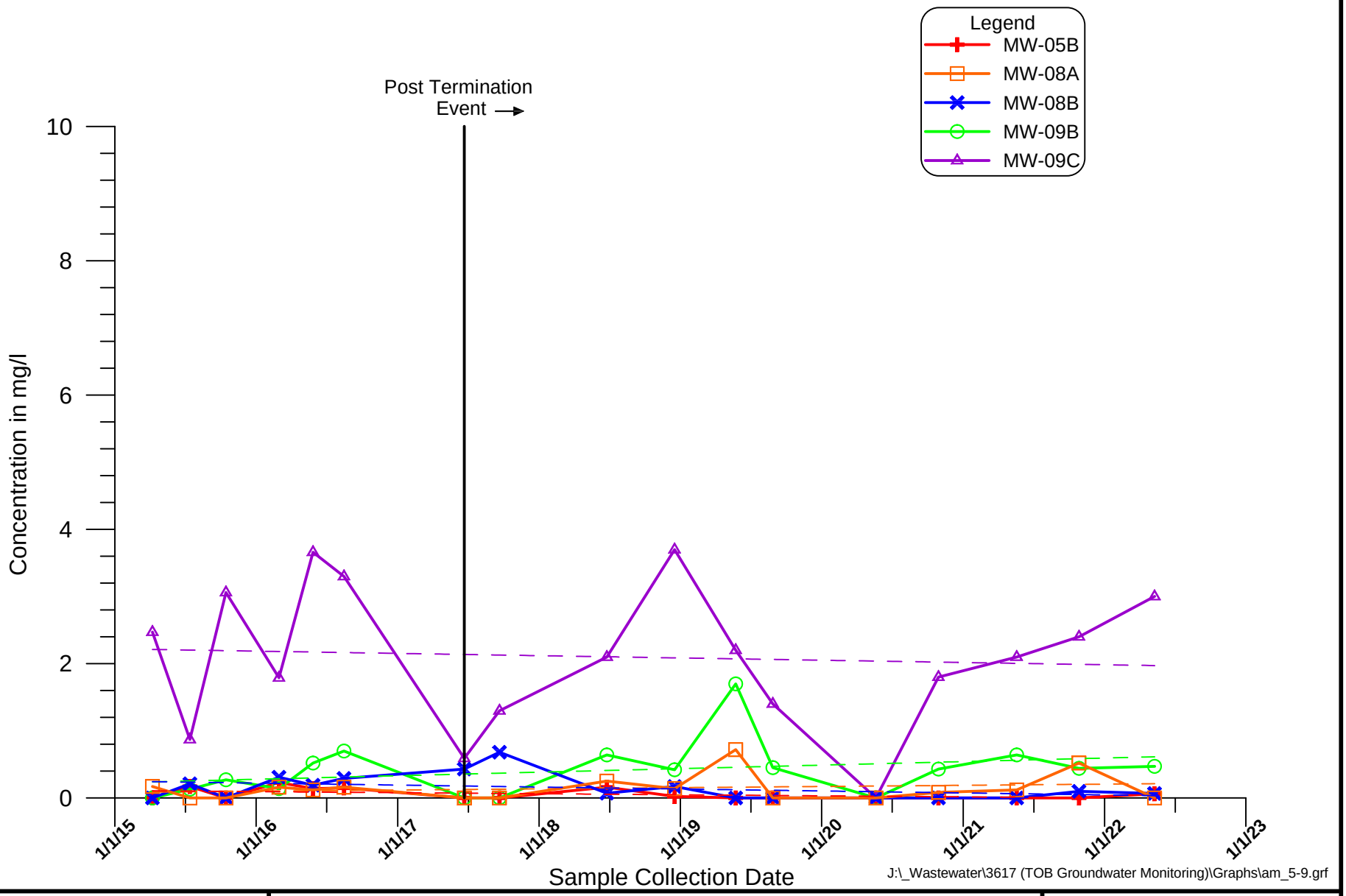
Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	5/18/22 3:00	[signature]	5/18/22 18:19
2				
3				

Comments

Cooler Temperature on Receipt 2.1 °C | **Custody Seal** Y or | **Received on Ice** Y or | **Samples Intact** Y or

APPENDIX E

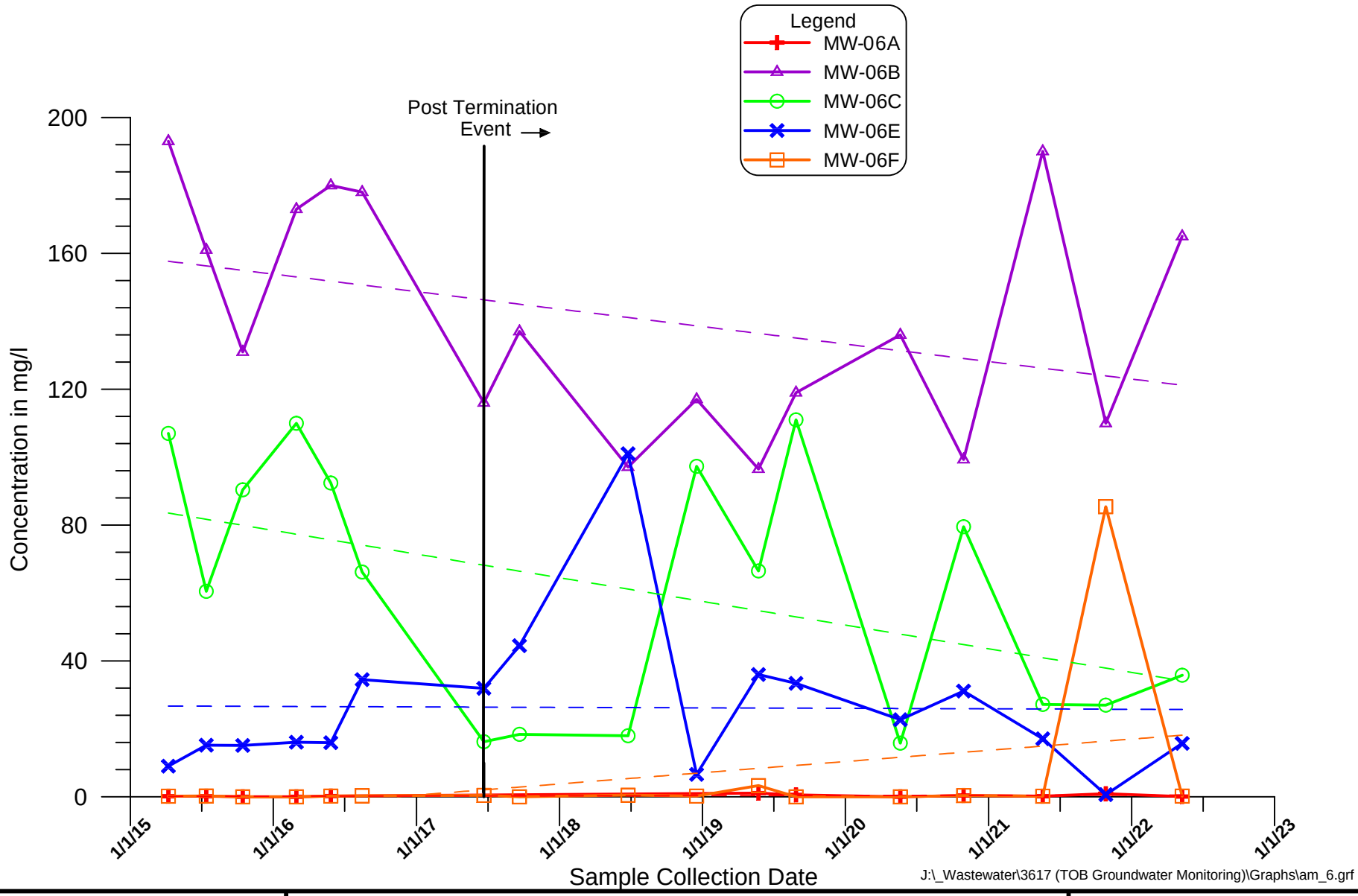
POST-TERMINATION HISTORICAL GROUNDWATER TREND GRAPHS



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Ammonia
Data for Monitoring Wells 5, 8, & 9

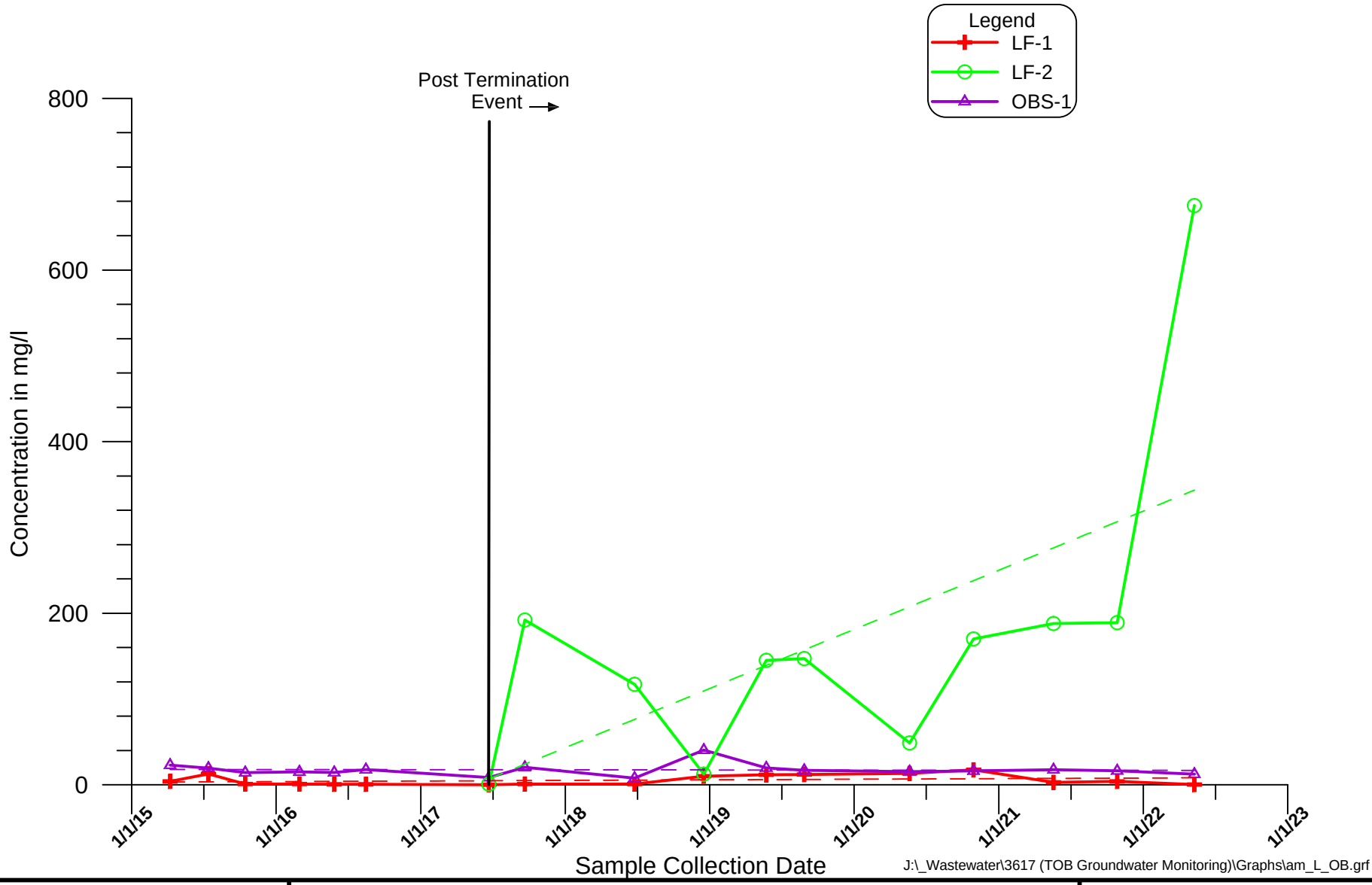
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Ammonia
Data for Monitoring Well Cluster 6

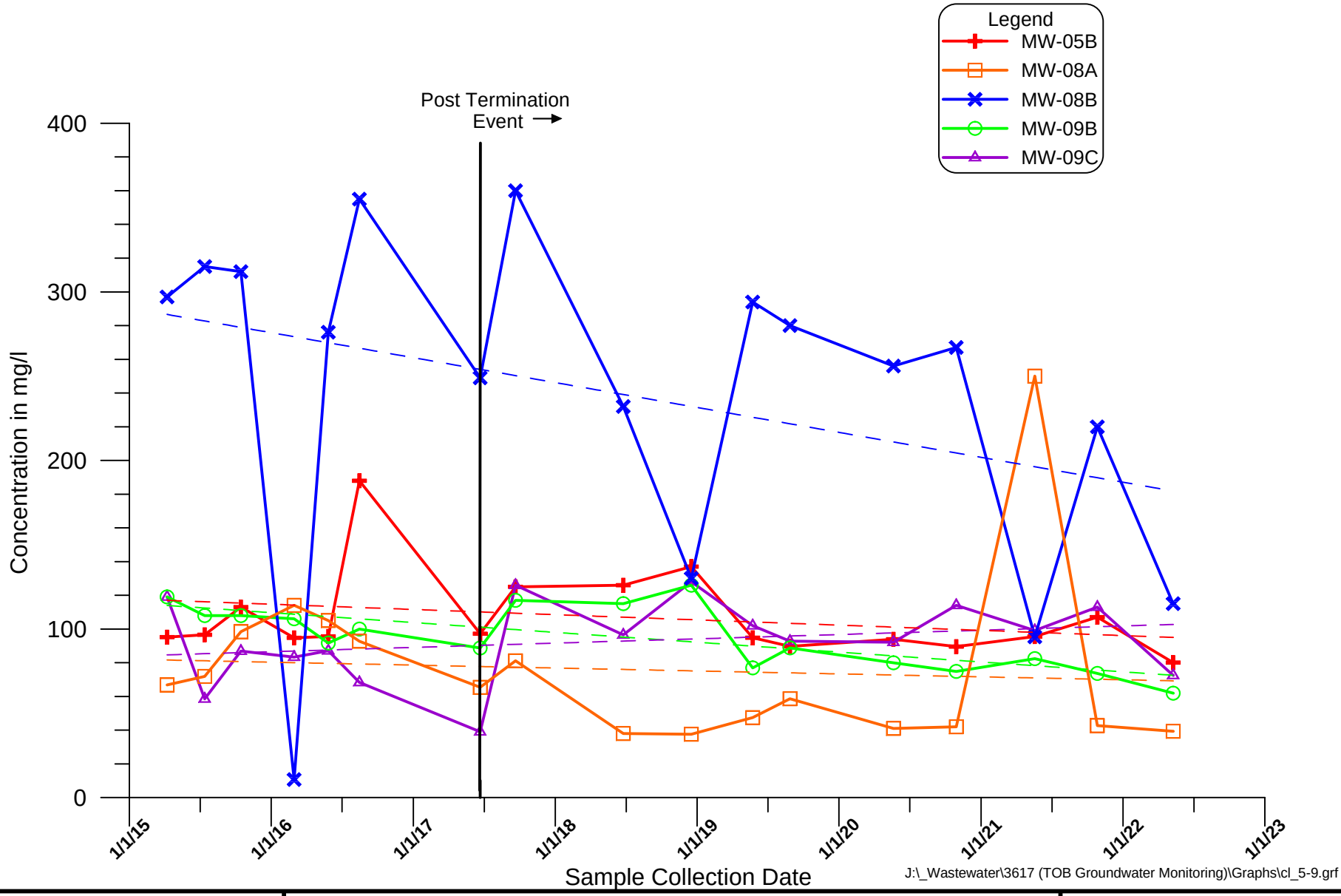
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Ammonia
Data for Wells LF-1, LF-2 & OBS-1

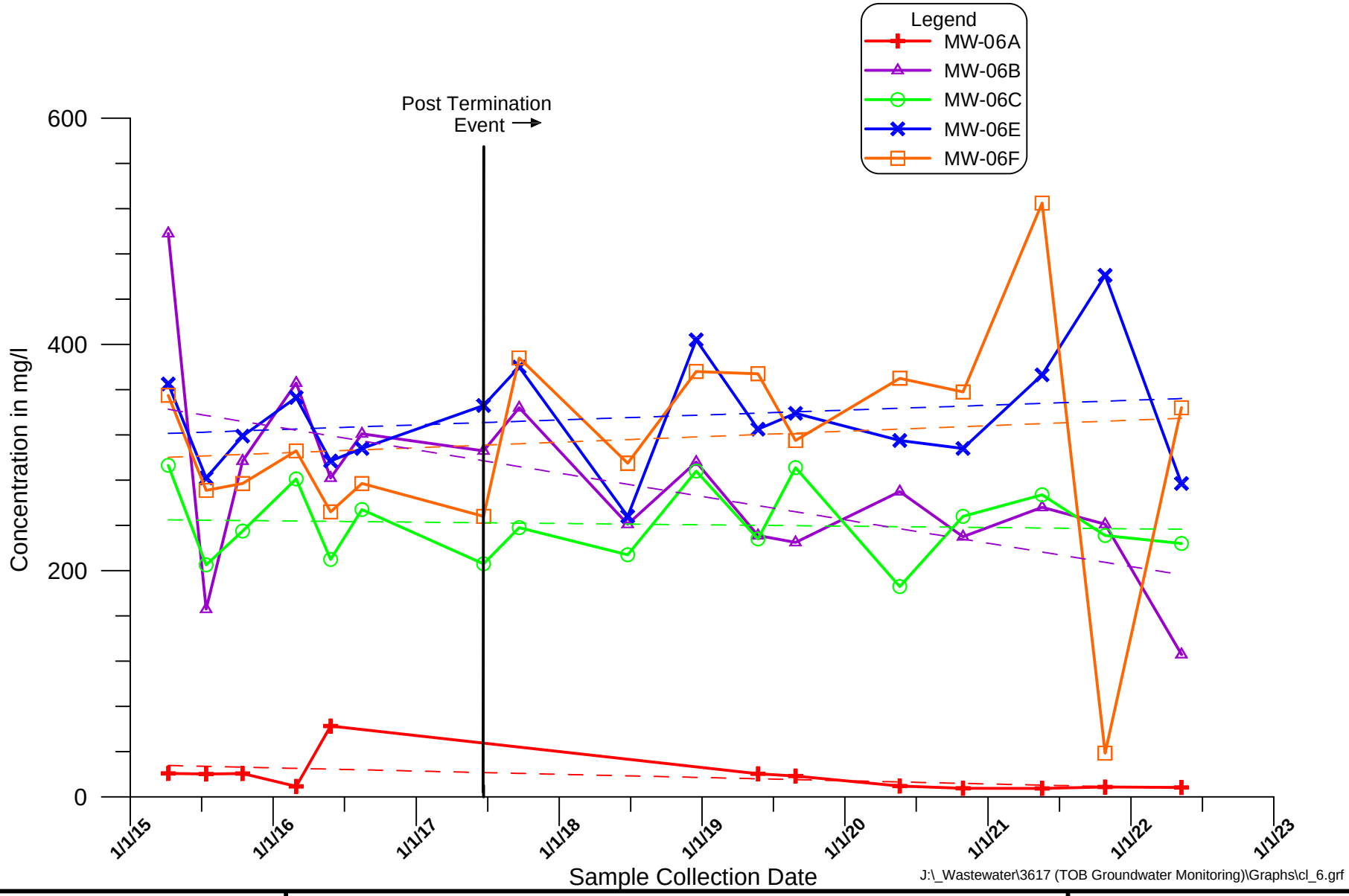
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Chloride
Data for Monitoring Wells 5, 8, & 9

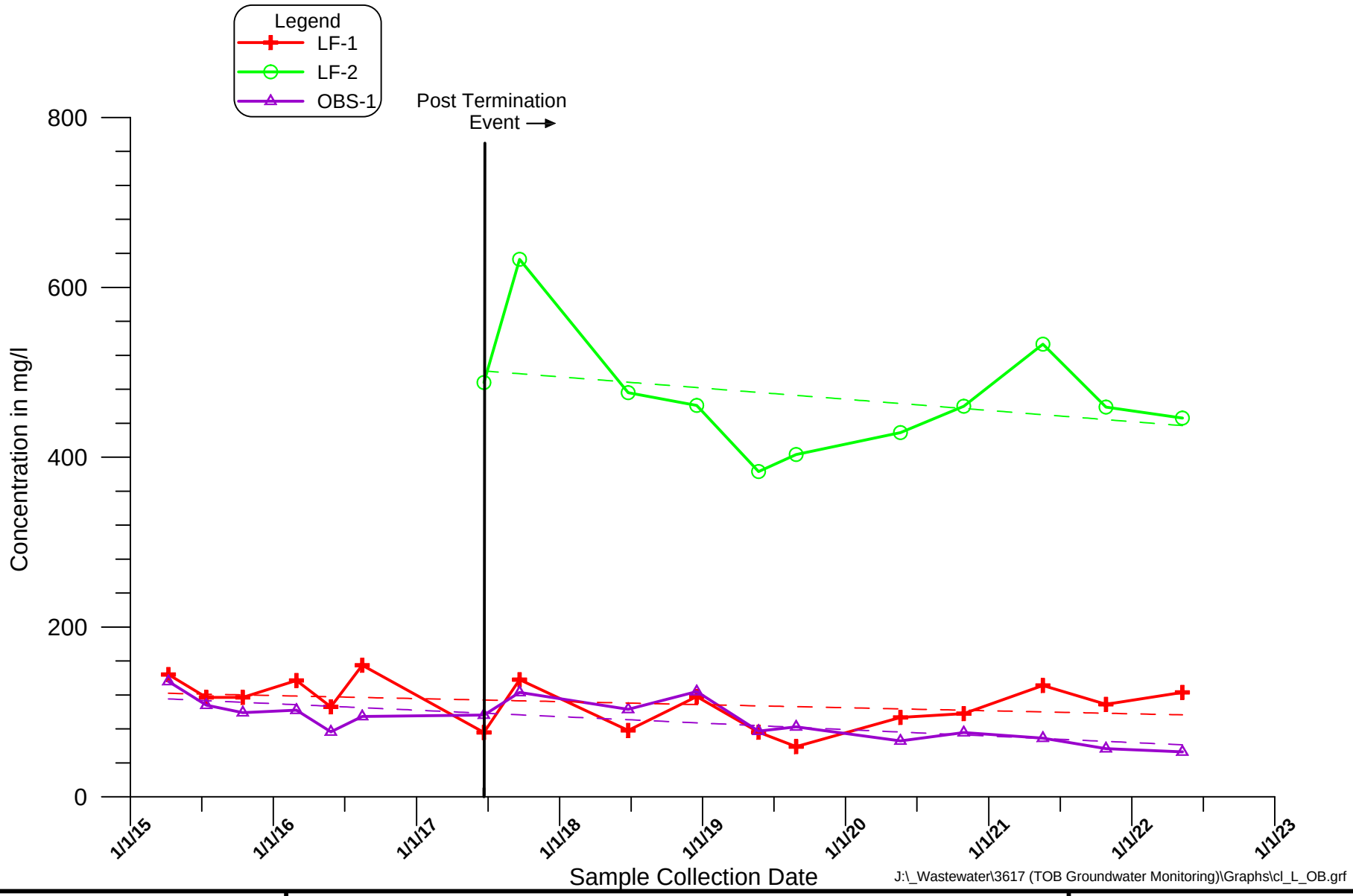
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Chloride
Data for Monitoring Well Cluster 6

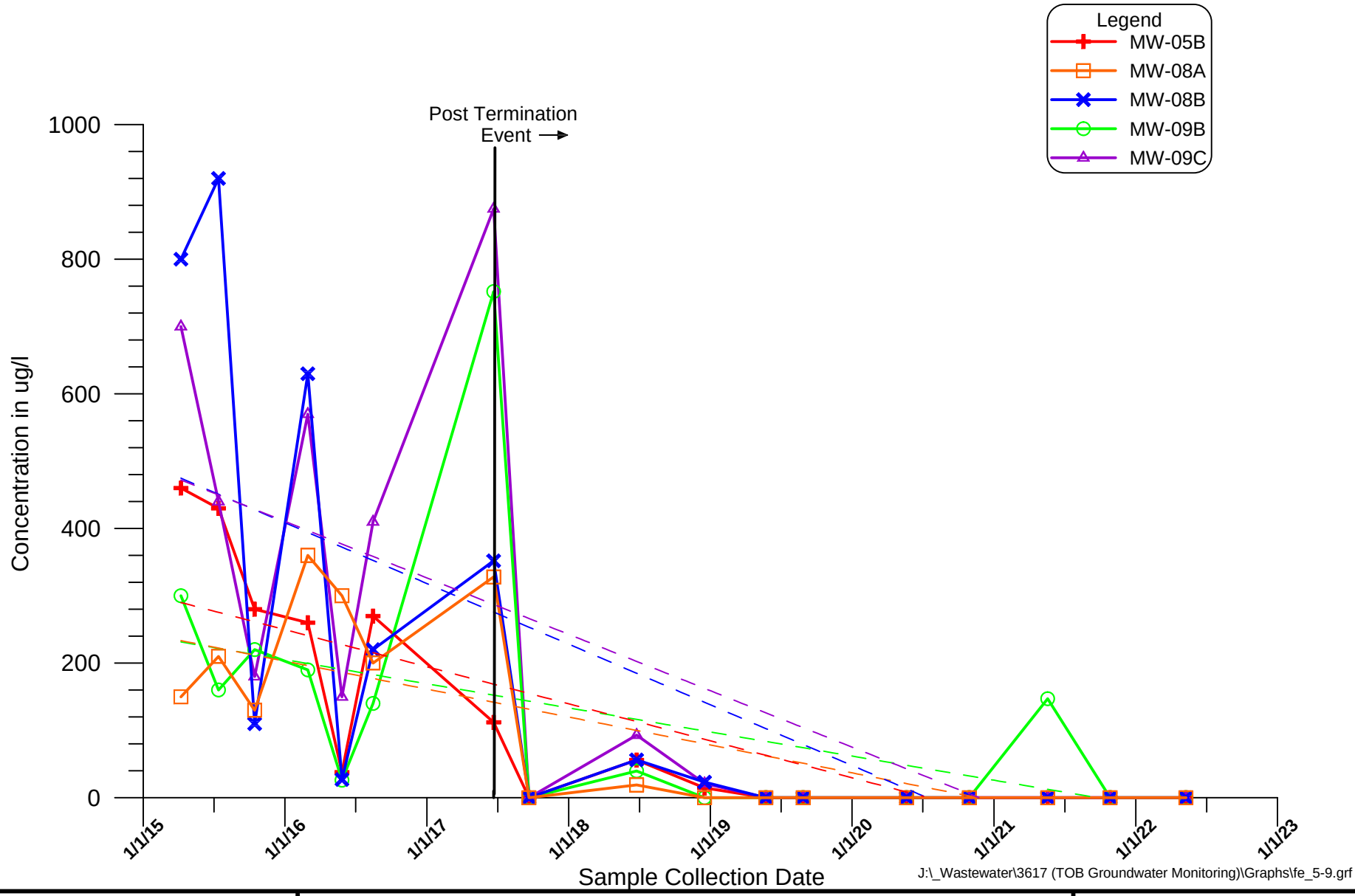
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Chloride
Data for Wells LF-1, LF-2 & OBS-1

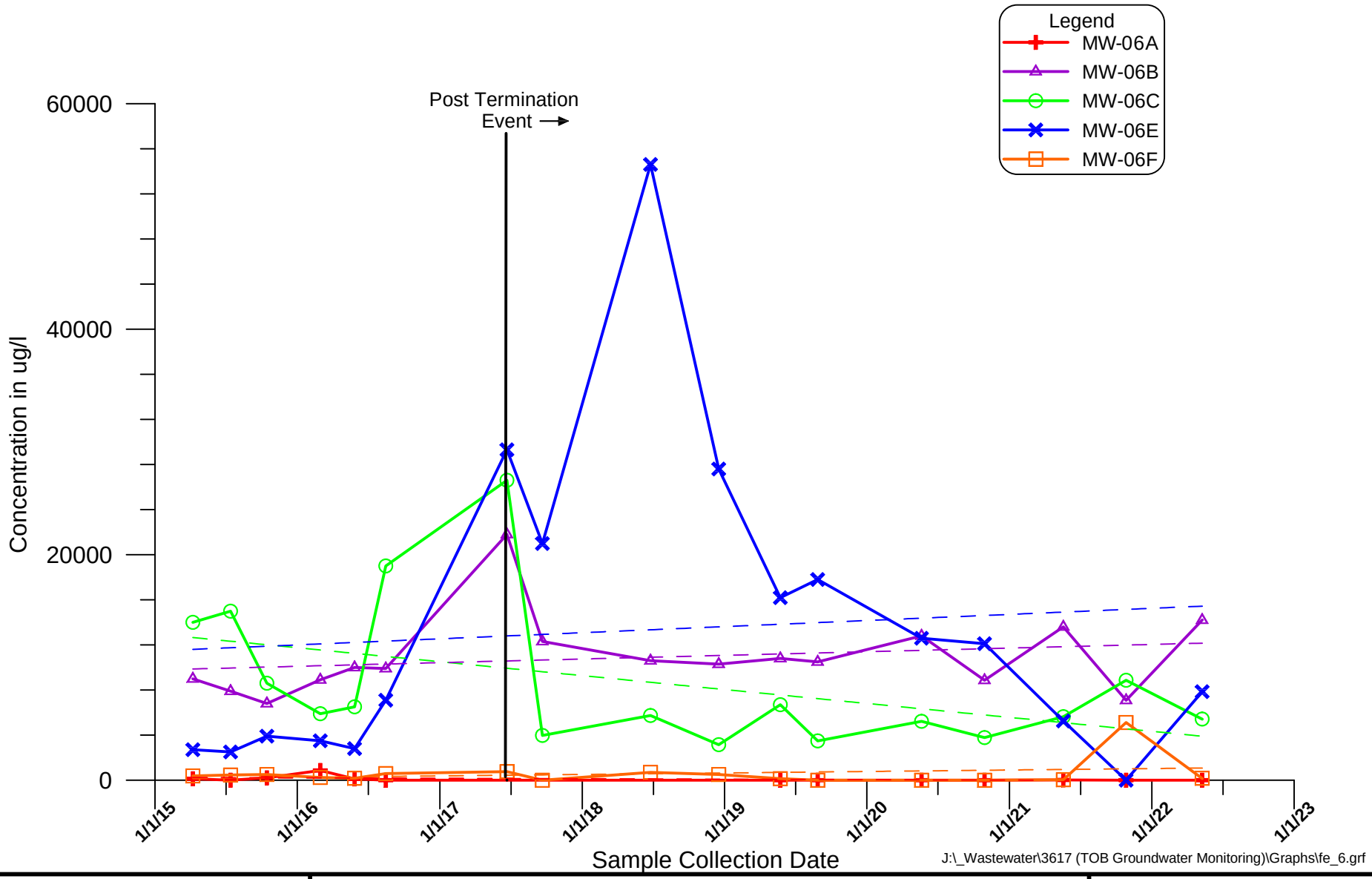
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Iron
Data for Monitoring Wells 5, 8, & 9

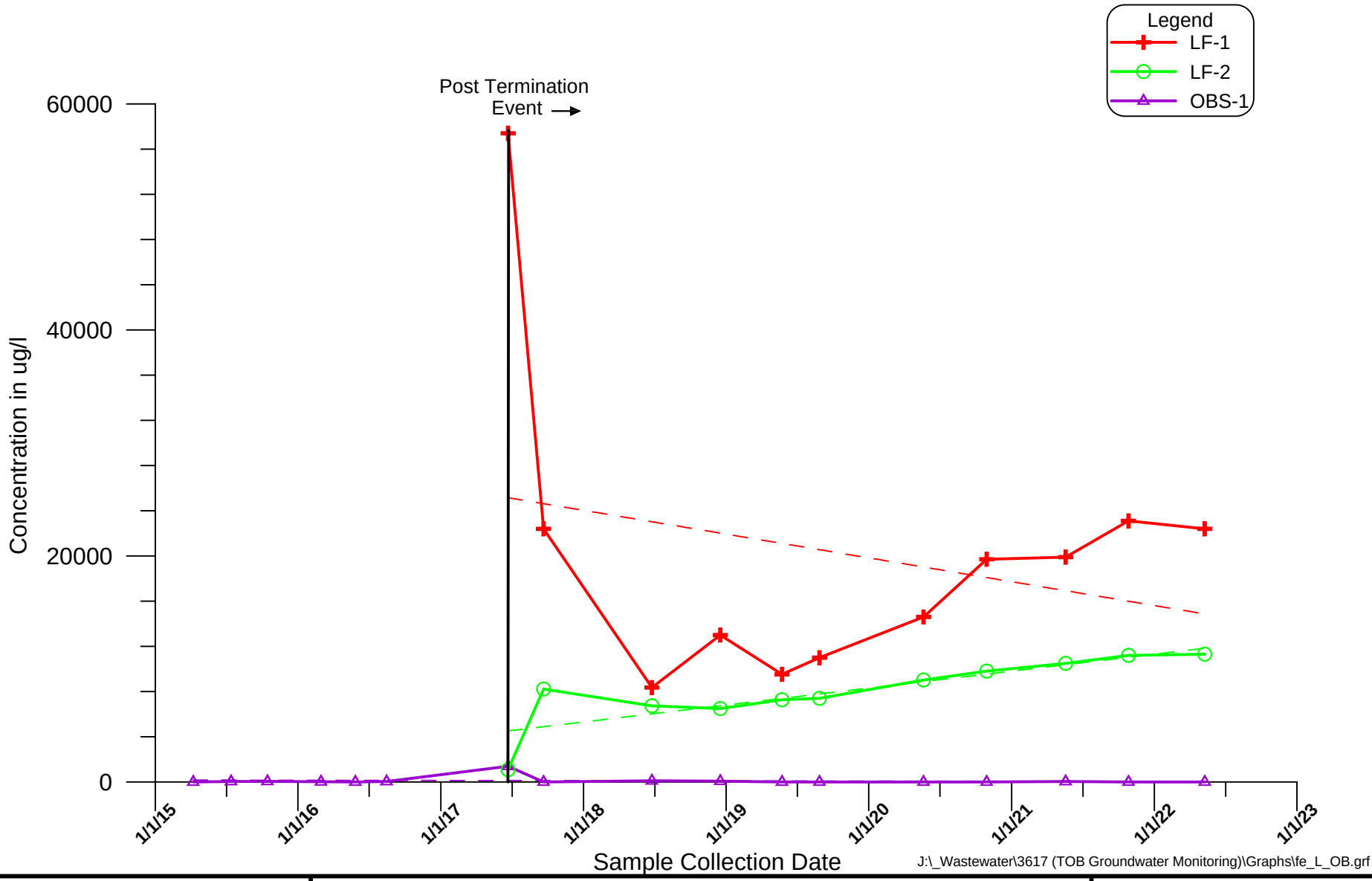
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Iron
Data for Monitoring Well Cluster 6

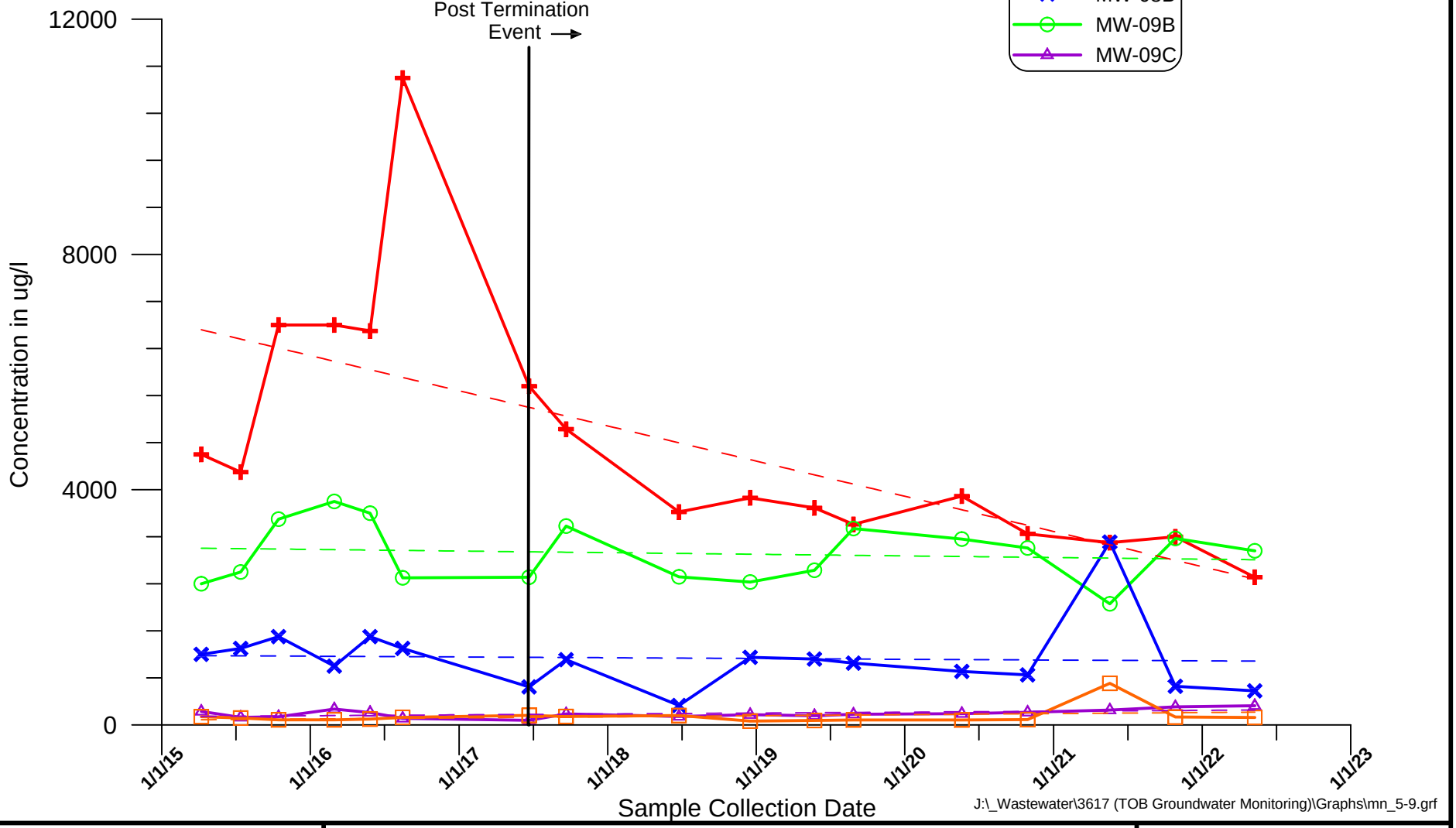
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Iron
Data for Wells LF-1, LF-2 & OBS-1

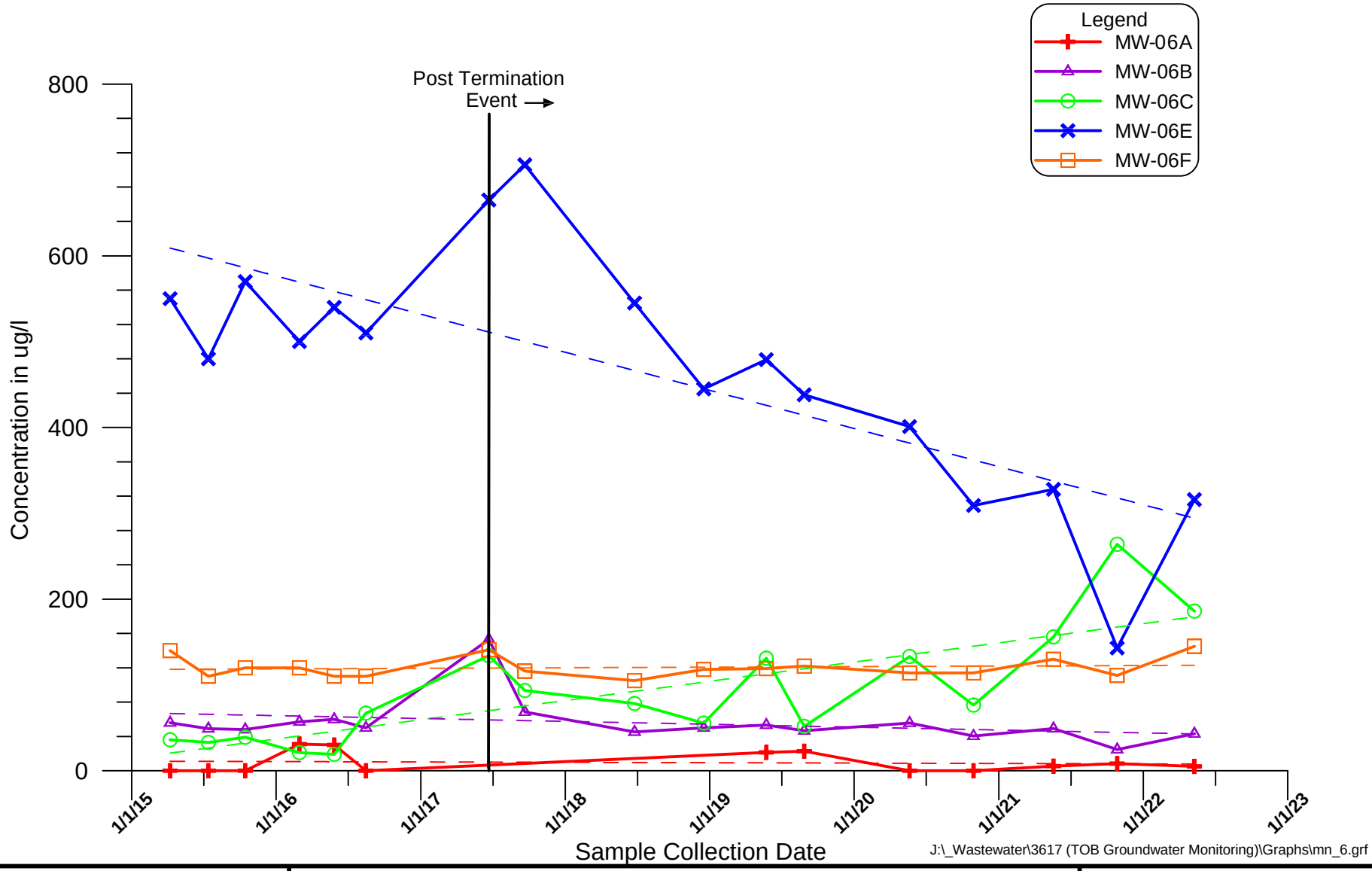
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Manganese
Data for Monitoring Wells 5, 8, & 9

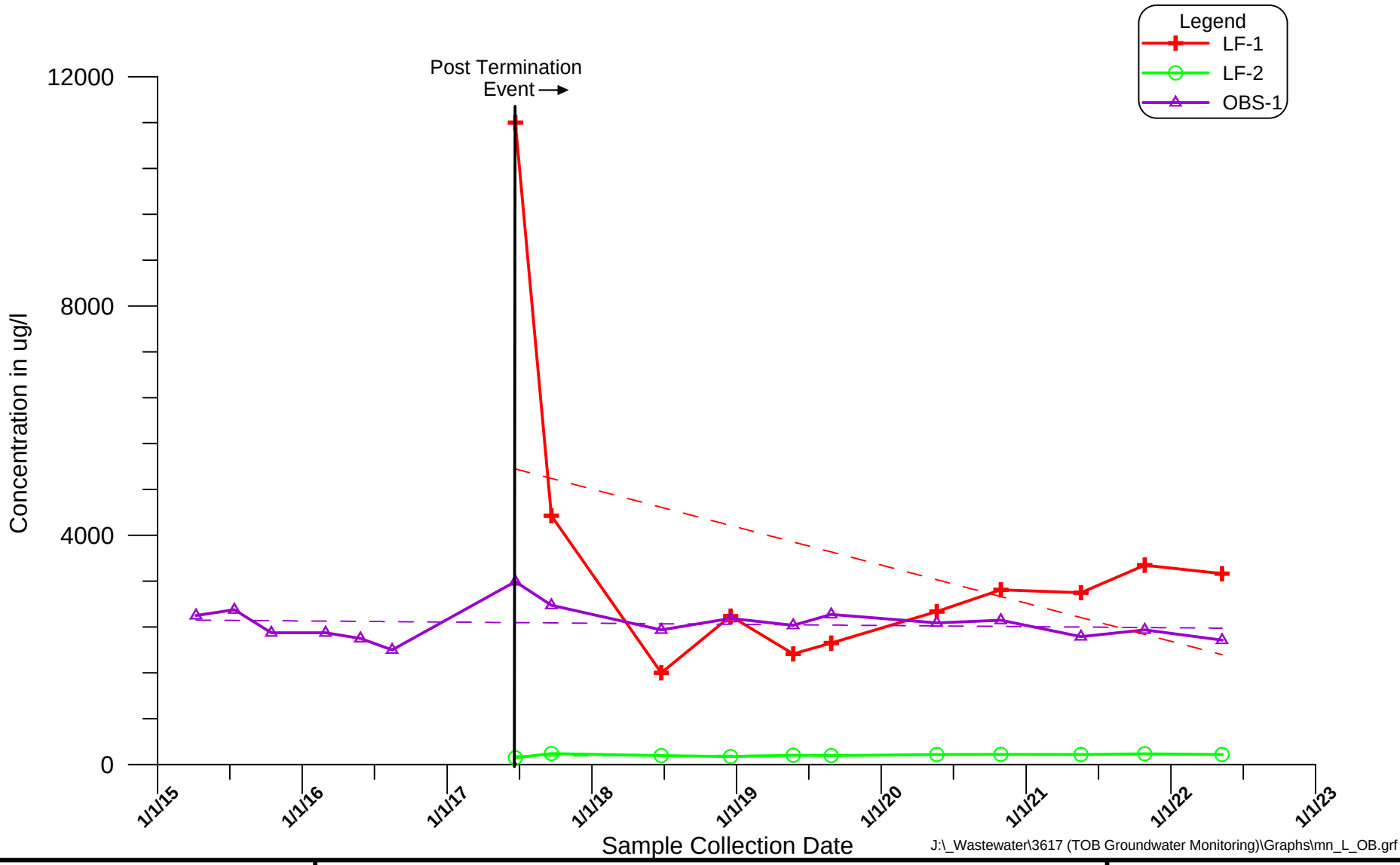
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Manganese
Data for Monitoring Well Cluster 6

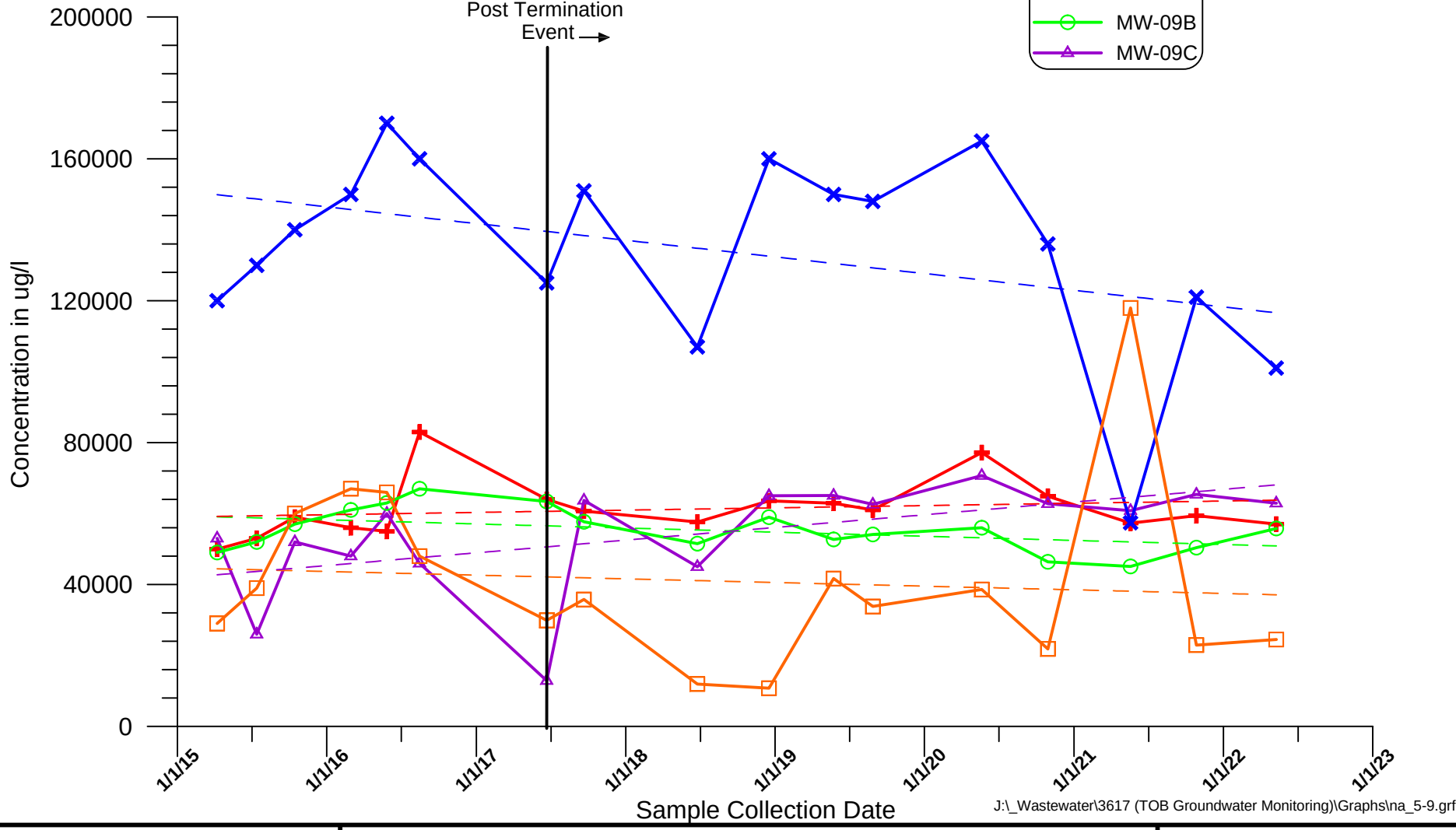
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Manganese
Data for Wells LF-1, LF-2 & OBS-1

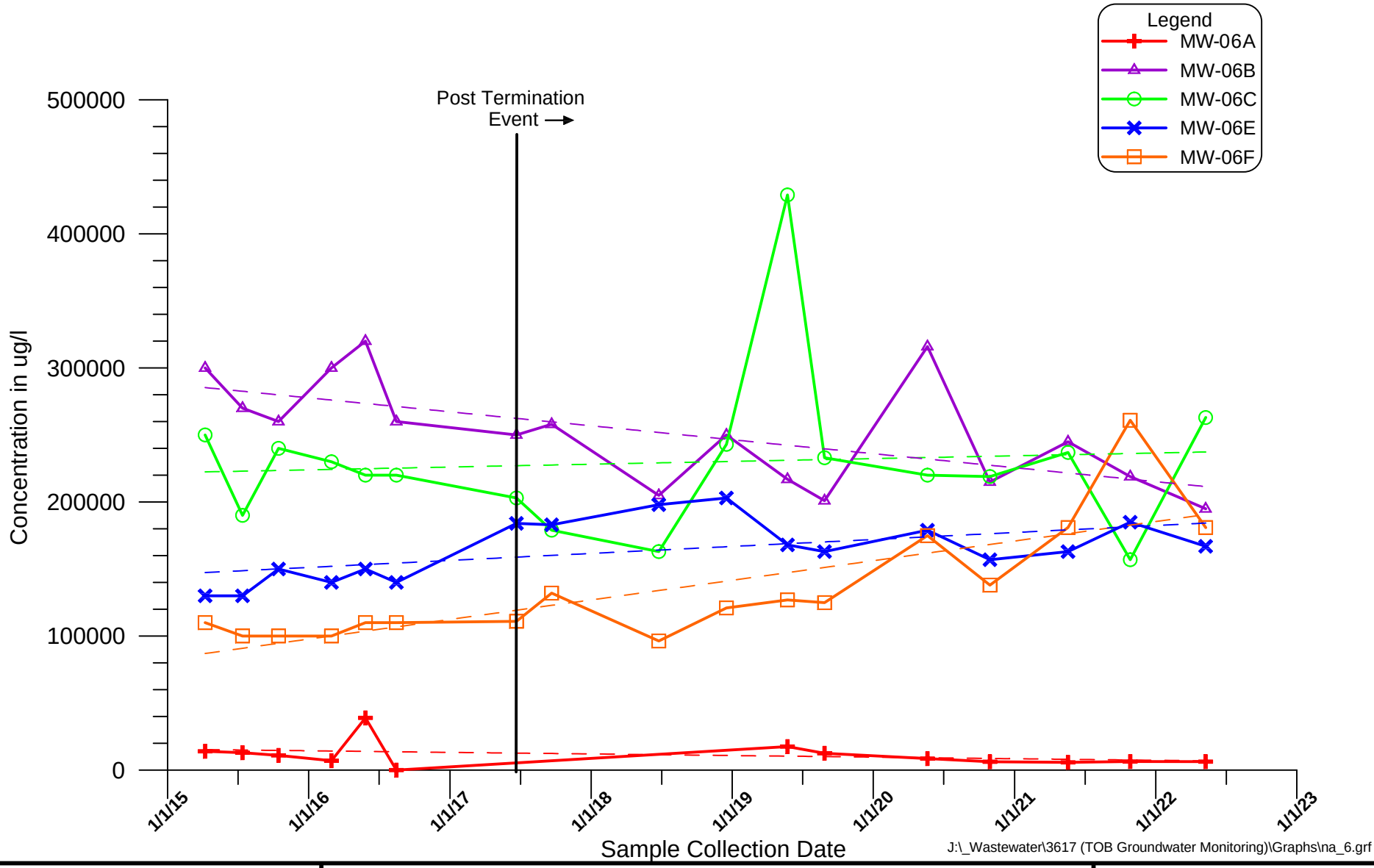
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Sodium
Data for Monitoring Wells 5, 8, & 9

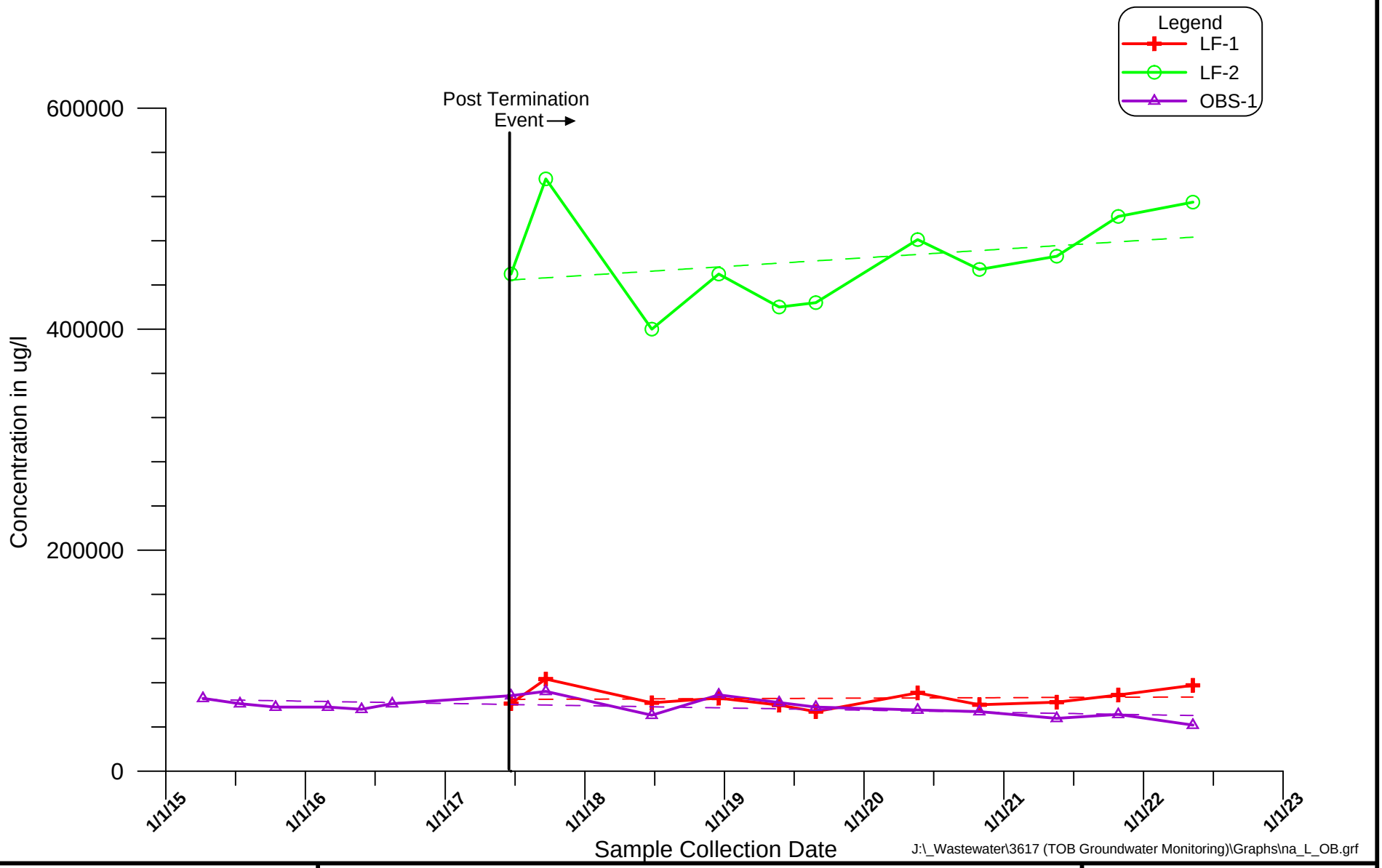
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Sodium
Data for Monitoring Well Cluster 6

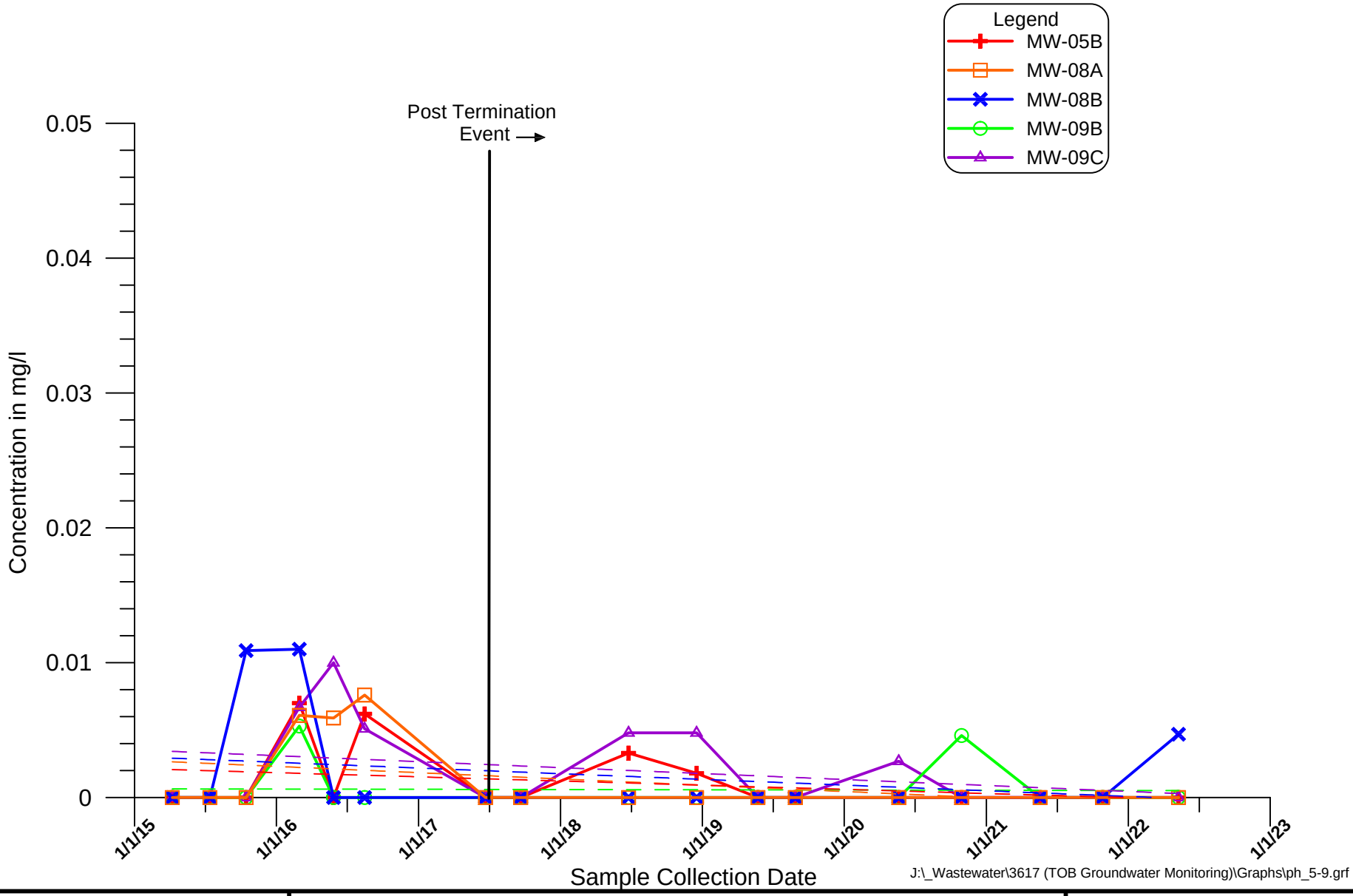
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Sodium
Data for Wells LF-1, LF-2 & OBS-1

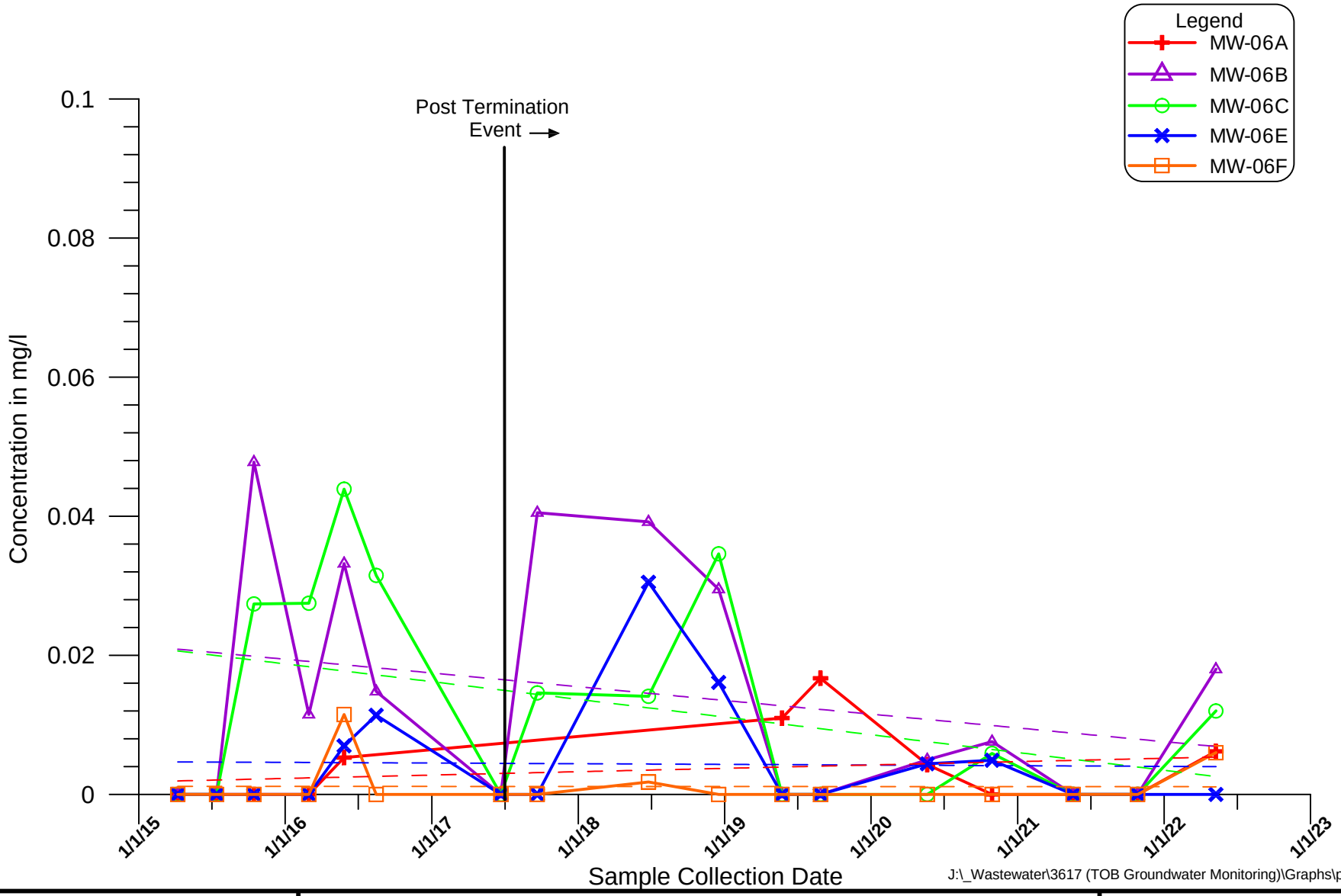
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Phenolics
Data for Monitoring Wells 5, 8, & 9

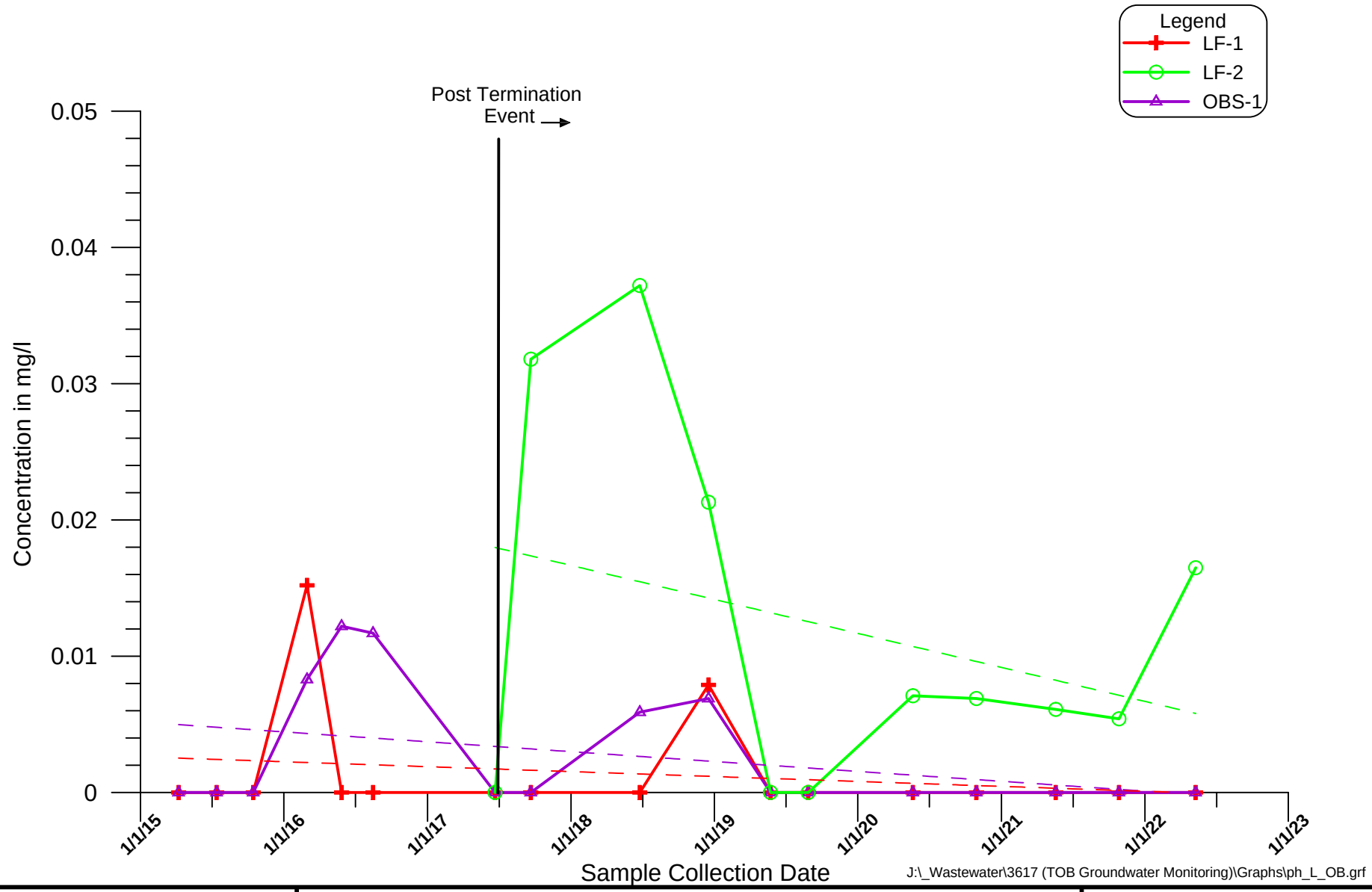
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Phenolics
Data for Monitoring Well Cluster 6

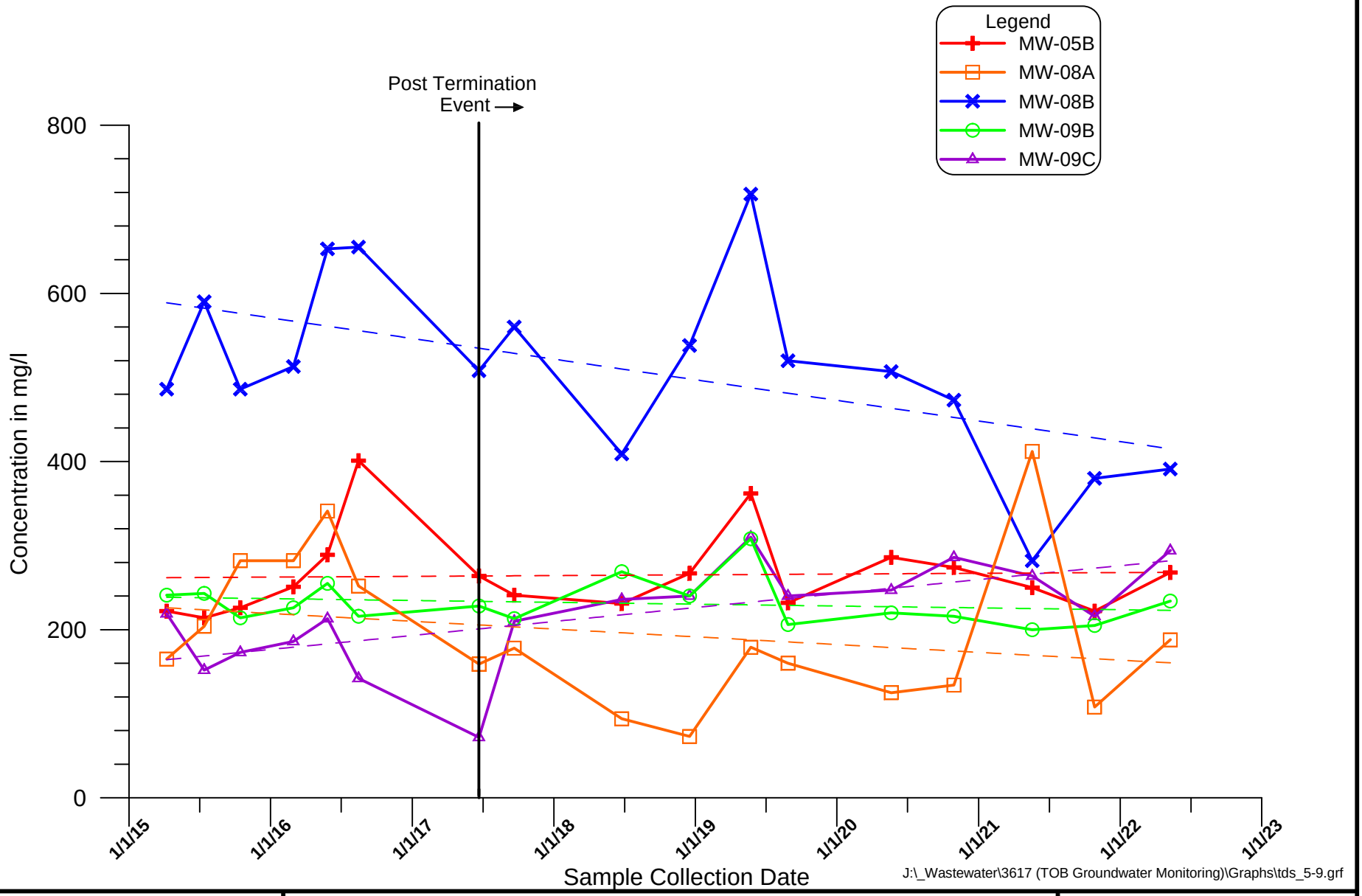
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Phenolics
Data for Wells LF-1, LF-2 & OBS-1

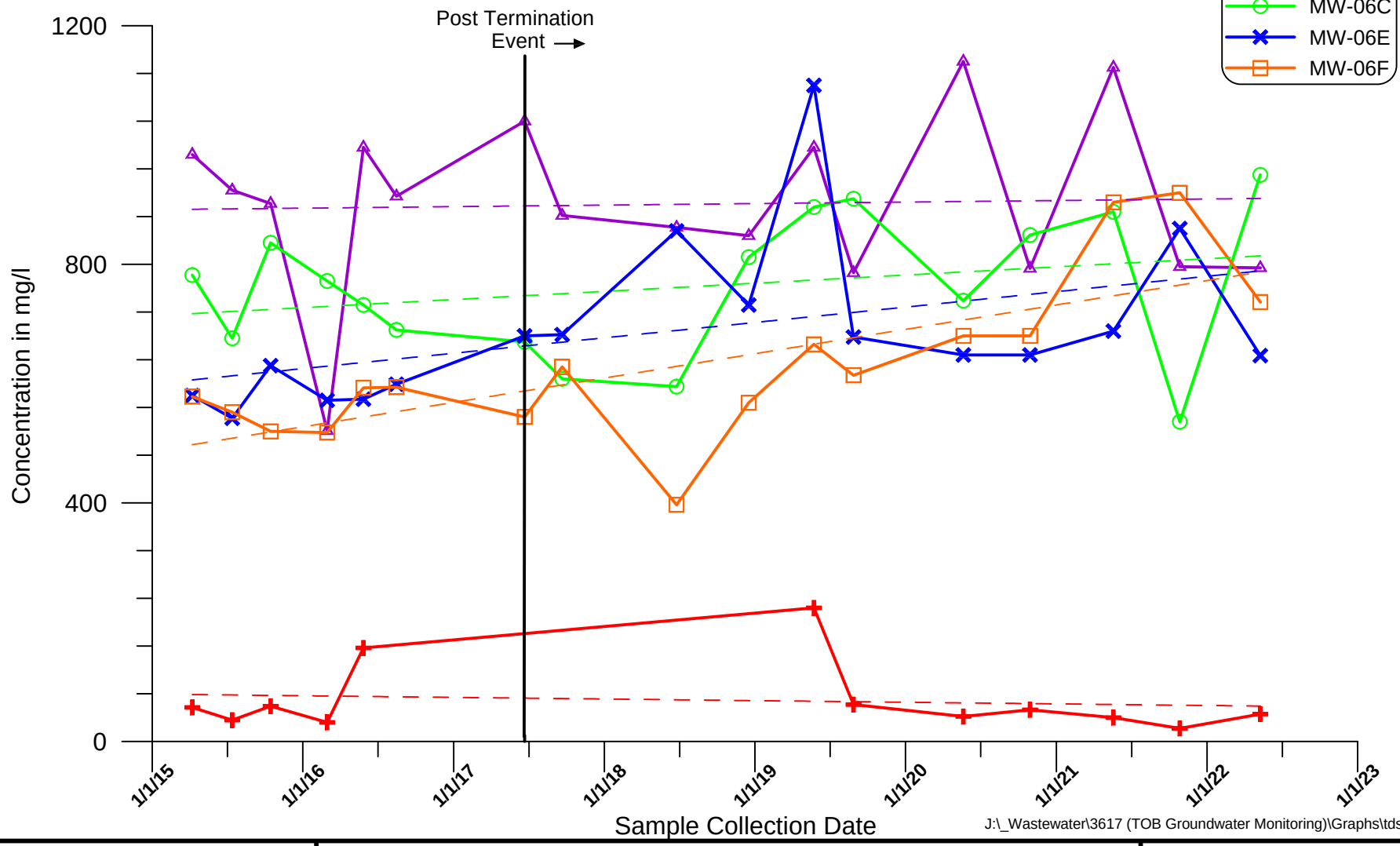
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Total Dissolved Solids
Data for Monitoring Wells 5, 8, & 9

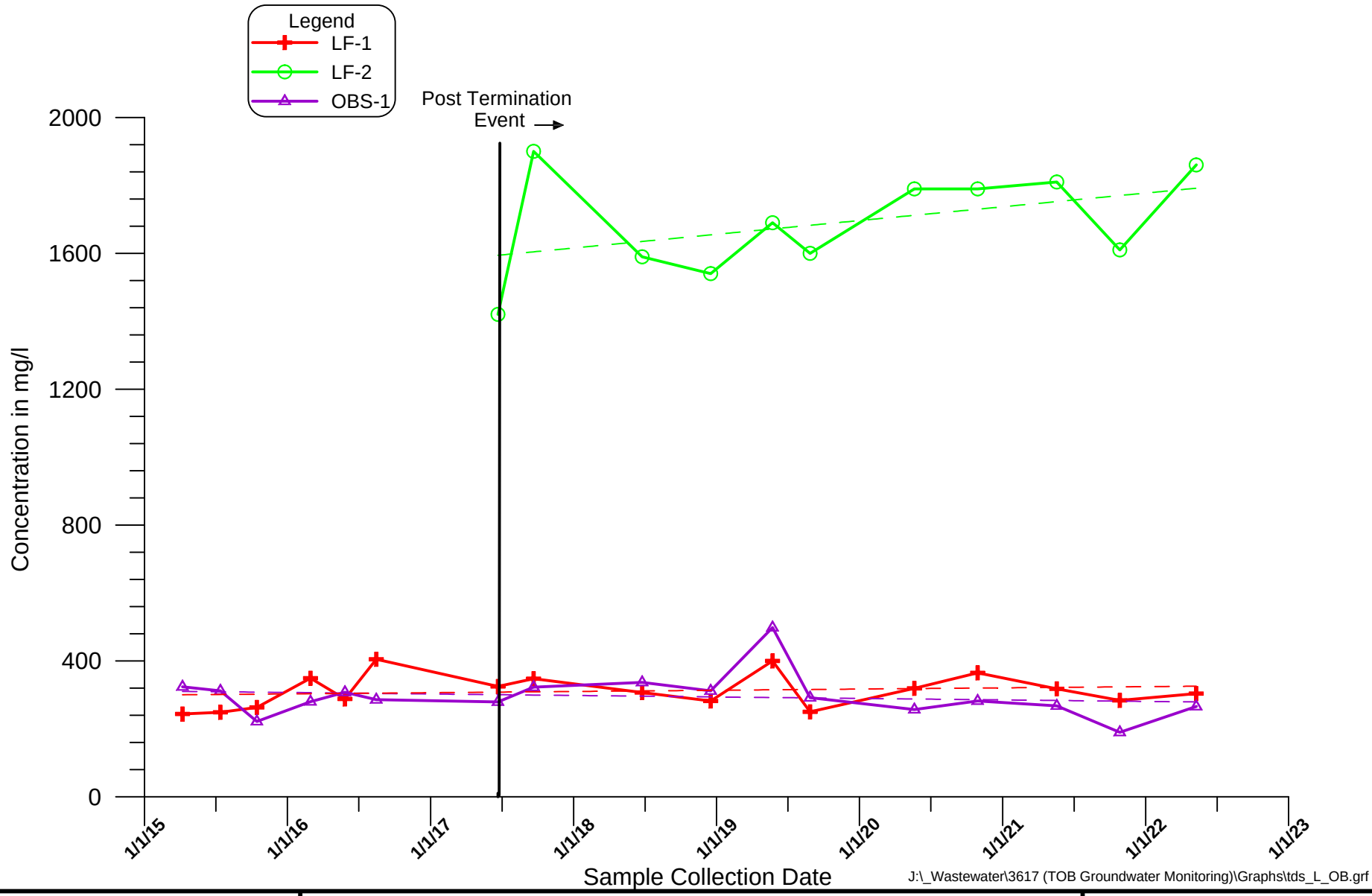
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Total Dissolved Solids
Data for Monitoring Well Cluster 6

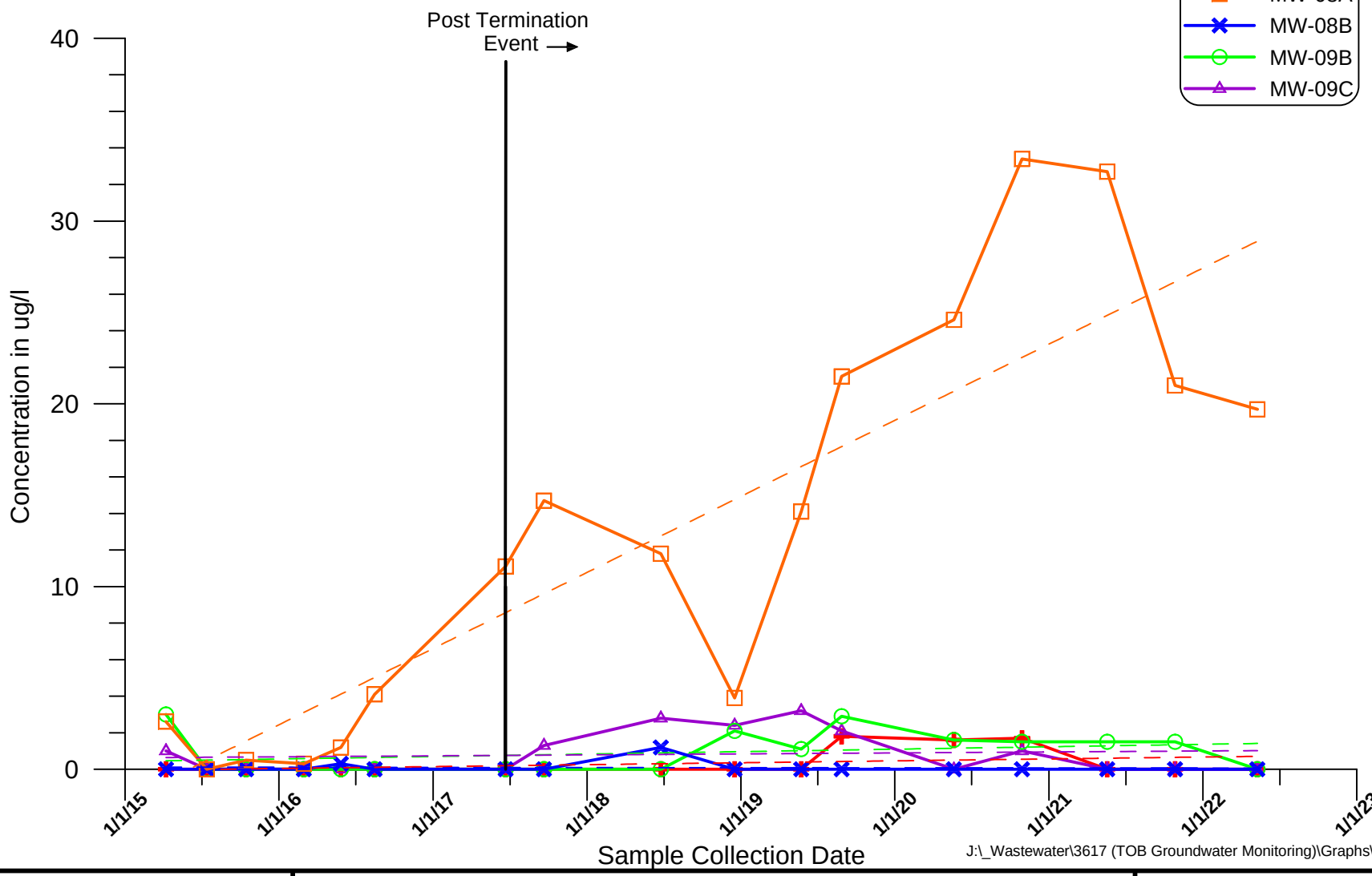
Figure
E



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

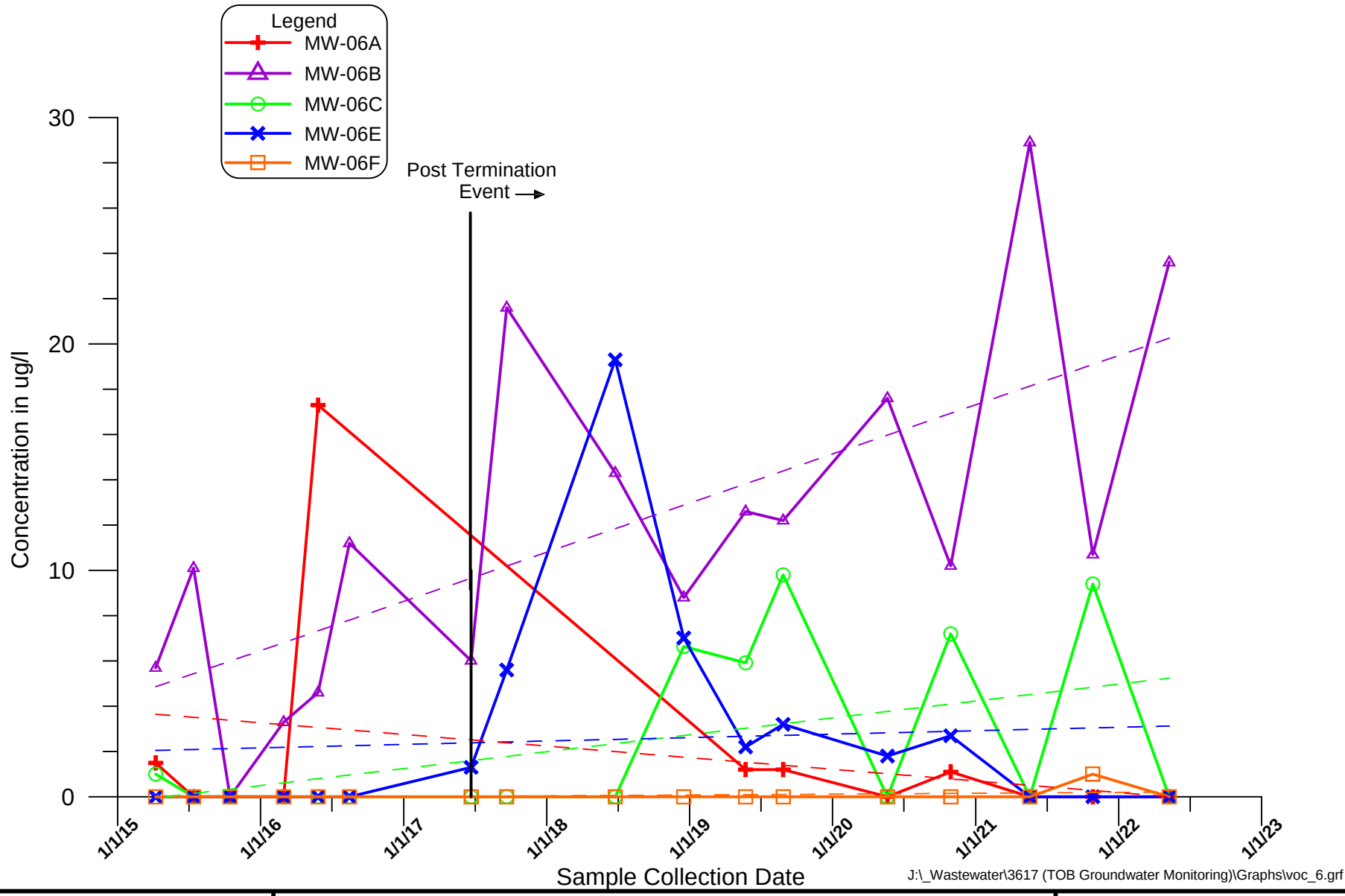
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Total Volatile Organic Compounds
Data for Monitoring Wells 5, 8, & 9

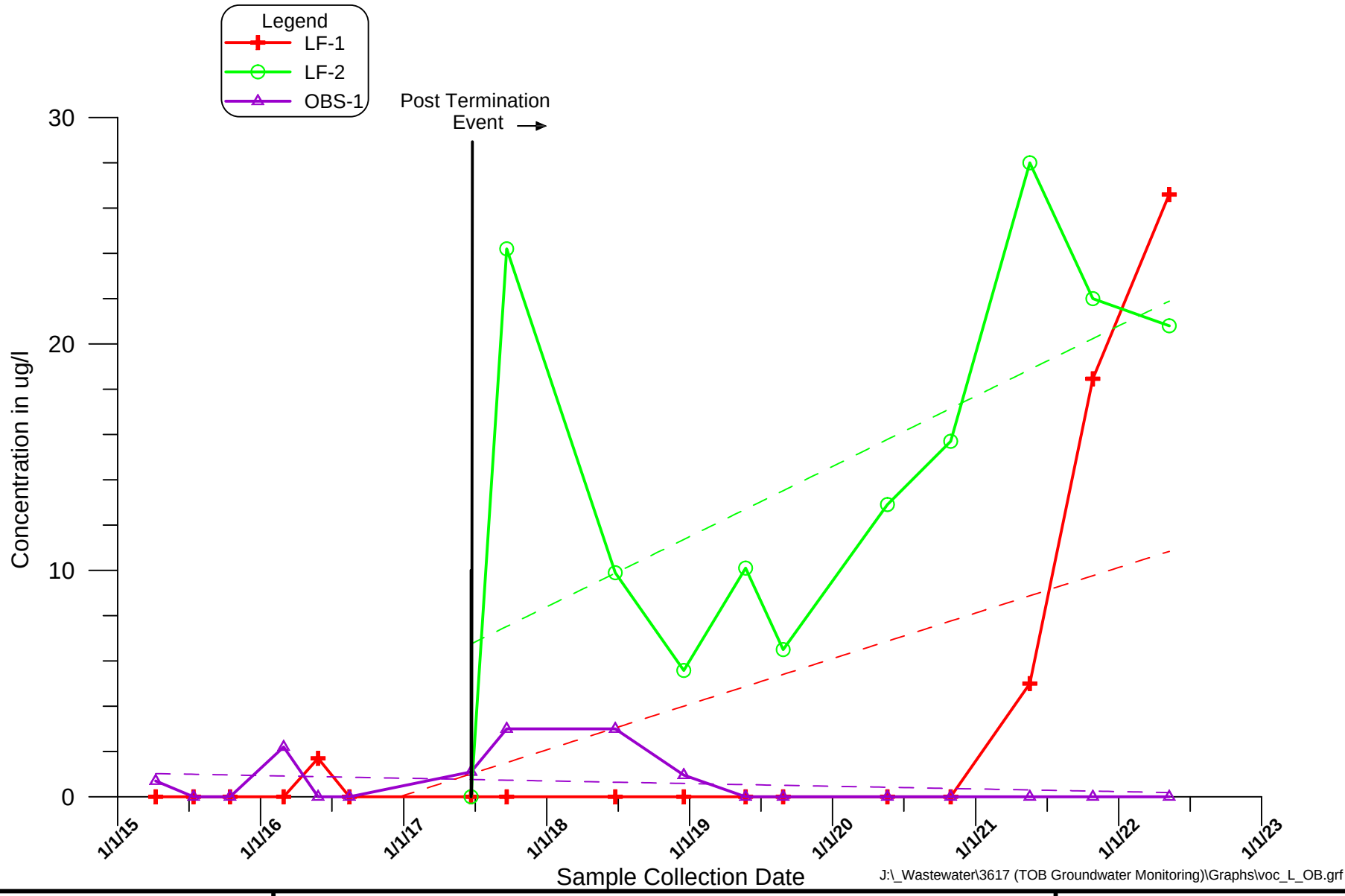
Figure
E



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

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