D&B ENGINEERS AND ARCHITECTS

DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

Old Bethpage Landfill

Post-Termination Groundwater Monitoring Program

First Semiannual Report of 2021

August 2021

D&B ENGINEERS AND ARCHITECTS

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August 23, 2021

VIA ELECTRONIC SUBMISSION

Matthew Russo, P.E.
Town of Oyster Bay
Department of Public Works
Division of Engineering
150 Miller Place
Syosset, NY 11791

Re: Old Bethpage Landfill
Post-Termination Groundwater Monitoring Program
First Semi-Annual Report of 2021
D&B No. 3617-06

Dear Mr. Russo:

Please find attached one electronic (pdf) copy of the following document revised to reflect the Town and oversight consultant's August 20, 2021 review comments:

Old Bethpage Landfill
Post-Termination Groundwater Monitoring Program
First Semi-Annual Report of 2021
August 2021

If you have any questions or require additional information, please call me at (516) 364-9890, Ext. 3401.

Very truly yours,

Philip R. Sachs, P.E.
Vice President

PRS/KR/kb
Attachment
cc: K. Robins (D&B)
♦3617\PRS061821MR-Ltr(R03)

FIRST SEMIANNUAL REPORT OF 2021

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

AUGUST 2021

FIRST SEMIANNUAL REPORT OF 2021
OLD BETHPAGE LANDFILL
POST-TERMINATION GROUNDWATER MONITORING PROGRAM

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1.0 INTRODUCTION

This First Semiannual Report of 2021 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 2021 and is the ninth 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 during the period 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. Until a formal response is received upon the NYSDEC review of the report, the Town will continue with current protocols. This ninth 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-5B, MW-6A, MW-6B, MW-6C, MW-6E, MW-6F, MW-8A, MW-8B, MW-9B, MW-9C and OBS-1 were sampled on May 17, 18, and 19, 2021 as part of the first semiannual groundwater sampling event of 2021. 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 three 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 2021 from the monitoring wells were analyzed for VOCs, total and dissolved metals, and leachate indicators. Laboratory analyses were performed by Pace Analytical Laboratories of 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 three trip blanks were collected as part of the first semiannual groundwater sampling event of 2021 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 Services, LLC, located in Melville, New York, and was reported in data package 70173332.

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 packages are provided in **Appendix D**. The following qualification of the data was required based on the findings of the data validation:

- Dissolved iron and zinc were detected in the Field Blank. The following metals were qualified as non-detect (UB): dissolved iron in samples MW-06A, MW-06F, MW-09C, and OBS-1 and dissolved zinc in samples MW-06A, MW-06E, and MW-06F.

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

- Sample MW-05B was field duplicated and labeled as BLIND DUPLICATE. The following metals were qualified as estimated (J) in samples MW-05B and BLIND DUPLICATE based on field duplicate results: total and dissolved calcium, manganese, potassium, and sodium.

- Cyanide was outside of holding time in sample MW-6E and was qualified as an estimated detection limit (UJ).

- TKN, sulfate, and TDS were detected in the Field Blank. The following were qualified as non-detect (UB): TKN in samples LF-1, MW-05B, MW-06A, MW-08B, and MW-09C; and sulfate in sample MW-06F.

- The %Rs were below the QC limits in the matrix spike and/or laboratory spike for alkalinity, carbonate associated with samples OBS-1, MW-09C, MW-09B, MW-05B, MW-08B, MW-08A, BLIND DUPLICATE, MW-06B, LF-1, and FIELD BLANK and was qualified as an estimated detection limit (UJ).

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

- The %R was above the QC limit in the matrix spike for TKN associated with all samples. TKN was qualified as estimated (J) in samples LF-2, MW-06B, MW-06C, MW-06E, and OBS-1.

- The relative percent difference (RPD) was above QC limit in the laboratory duplicate for TDS associated with samples OBS-1, MW-09C, MW-09B, MW-05B, MW-08B, MW-08A and BLIND DUPLICATE; cyanide associated with samples LF-1, LF-2 and FIELD BLANK and phenolics associated with all samples. They were qualified as estimated (J/UJ) in associated samples.

- Sample MW-05B was field duplicated and labeled as BLIND DUPLICATE. The following general chemistry were qualified as estimated (J) in samples MW-05B and BLIND DUPLICATE based on field duplicate results: total and bicarbonate alkalinity, chloride, hardness, nitrate, and TDS.

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 2021 is 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 New York State Department of Environmental Conservation Ambient Water Quality Standards and Guidance Values for Class GA groundwater (herein referred to as the Class GA groundwater standards and guidance values).

3.2.1 Volatile Organic Compounds

Detectable concentrations of VOCs were identified in 5 of the 13 groundwater monitoring wells, including LF-1, LF-2, MW-6B, MW-8A and MW-9B. The highest concentration of total VOCs of 32.7 ug/l was detected at MW-8A. The sample collected from MW-6B exhibited the next

highest total VOCs of 28.9 ug/l, followed in decreasing order by LF-2, LF-1 and MW-9B. VOCs were detected at concentrations above Class GA groundwater standards and guidance values at wells LF-2, MW-6B and MW-8A as follows:

- 1,4-Dichlorobenze was detected at LF-2 and MW-6B at concentrations of 3.1 ug/l and 4.9 ug/l, respectively, slightly above the Class GA standard of 3 ug/l.
- Benzene was detected at LF-2 and MW-6B at concentrations of 4.5 ug/l and 5.7 ug/l, respectively, slightly above the Class GA standard of 1 ug/l.
- Chlorobenzene was detected at MW-6B at a concentration of 13.4 ug/l, above the Class GA standard of 5 ug/l.
- Cis-1,2-dichloroethylene (1,2-DCE) was detected at MW-8A at a concentration of 21.9 ug/l, above the Class GA standard of 5 ug/l.
- Isopropylbenzene was detected at LF-2 at a concentration of 12.9 ug/l, above the Class GA standard of 5 ug/l.
- Tetrachloroethylene (PCE) was detected at MW-8A at a concentration of 7.5 ug/l, slightly above the Class GA standard of 5 ug/l.

3.2.2 Inorganic Parameters

Iron, manganese and sodium were detected above groundwater standards in both total and 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 5,250 ug/l at MW-6E to a maximum of 19,900 ug/l at LF-1. For samples collected from LF-1, LF-2, MW-6B, MW-6C and MW-6E, 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 328 ug/l at MW-6E to a maximum of 3,110 ug/l at MW-8B. Dissolved manganese concentrations were similar to their respective total concentrations.
- 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 41,500 ug/l at MW-9B to a maximum of 466,000 ug/l at LF-2. In general, dissolved sodium concentrations were similar to their respective total concentrations.

3.2.3 Leachate Indicators

Chloride, ammonia and total phenols 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 5 of the 13 groundwater monitoring wells, with concentrations ranging from 256 mg/l at MW-6B to a maximum of 533 mg/l at LF-2.
- Ammonia was detected above the Class GA groundwater standard of 2 mg/l in 7 of the 13 groundwater monitoring wells, with concentrations ranging from 2.1 mg/l at MW-9C to a maximum of 190 mg/l at MW-6B.
- Total phenols were detected above the Class GA groundwater standard of 0.001 mg/l in 1 of the 13 groundwater monitoring wells, with a concentration of 0.006 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 nine 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, nine monitoring wells (MW-5B, MW-6A (since May 2019), MW-6C, MW-6F, MW-8B, MW-9B, MW-9C, OBS-1 and LF-1), in general exhibited a fairly stable trend in TVOCs. Monitoring well MW-6E (since June 2018) has exhibited a decreasing trend. Monitoring wells MW-6B, MW-8A and LF-2 have shown a more apparent increasing trend in TVOCs.

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.

3.3.3 Leachate Indicators

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

4.0 CONCLUSIONS

The following conclusions are made based on the above information:

- Overall, the results of the first semiannual 2021 sampling event (nineth round) of post-termination monitoring are, in general, consistent with the results from the prior post-termination rounds.

- Landfill related impacts (e.g., select VOCs, metals and leachate parameters) continue to be evident in wells LF-1 and LF-2; located adjacent to and downgradient of the landfill, as well as wells MW-6B, MW-6C and MW-6E, 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, were as well LF-2 is located downgradient of the older unlined portion of the landfill.

- It would 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-6B, MW-6C and MW-6E, 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. Fluctuations in water levels could also be a contributing factor. For example, there has been a marked increase in water level elevations since the fourth quarter of 2018.

- 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-6B. Four of the five aromatic hydrocarbons, with exception to total xylenes, 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-8A, but are most likely attributed to residual contamination from the former Claremont Polychemical Site, which is located directly upgradient of this water-table zone well. Chlorinated solvents associated with the former Claremont Polychemical Site have

been historically detected in this well. In addition, low concentrations (below the groundwater standard) of TCE were also detected in wells LF-1, MW-8A and MW-9B. However, the low concentrations of TCE detected in these wells are also most likely associated with residual contamination from the former Claremont Polychemical Site.

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

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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

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 5/19/21	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

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

Sample ID 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

APPENDIX A

GROUNDWATER SAMPLING LOGS

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

SITE Town of Oyster Bay Landfill DATE 5/19/2021

WELL ID: **LF-1** Time On-site: Time Off-site:
SAMPLERS: KR / CL

Depth of well (feet from top of casing) ..... 102.00'
Initial static water level (feet from top of casing) ..... 45.60'
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: 56.40 ft. of water x 1.47 = 83 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	7.45	18.07	0.404	0.0	4.91	28
50	6.50	17.06	0.501	0.0	0.80	-76
100	6.60	16.93	0.514	0.0	0.49	-103
150	6.71	16.88	0.514	0.0	0.34	-113
200	6.77	16.85	0.512	0.0	0.28	-118
250	6.85	16.82	0.513	0.0	0.32	-123
300	6.88	16.80	0.513	0.0	0.27	-125
350	6.91	16.79	0.511	0.0	0.26	-126
400	6.91	16.79	0.511	0.0	0.26	-127

Purging Rate: 5 GPM
Purging Time: 80 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, warm, 65-70F
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 5/19/2021

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

Depth of well (feet from top of casing) ..... 102.10'
Initial static water level (feet from top of casing) 52.56
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: 49.54 ft. of water x 1.47 = 73 gallons

volume of water removed: 375 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	7.44	17.40	3.72	0.0	2.71	-134
100	7.35	17.40	3.99	0.0	0.38	-164
150	7.36	17.41	3.99	0.0	0.36	-170
200	7.41	17.42	3.99	0.0	0.34	-172
250	7.41	17.43	3.99	0.0	0.32	-176
300	7.41	17.43	3.99	0.0	0.30	-178
350	7.41	17.44	3.99	0.0	0.30	-179
375	7.42	17.44	3.99	0.0	0.30	-181

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

Sampling
Time of Sample Collection: 10:20 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 5/17/2021

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

Depth of well (feet from top of casing) ..... 117.25'
Initial static water level (feet from top of casing) ..... 73.44'
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: 43.81 ft. of water x 0.65 = 28.5 gallons

volume of water removed: 100 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	6.37	15.84	0.341	0.0	2.67	161
20	6.12	15.91	0.344	0.0	0.59	181
40	6.06	15.89	0.346	0.0	0.43	184
60	6.06	15.88	0.346	0.0	0.43	184
80	6.17	15.91	0.346	0.0	0.52	178
100	6.17	15.87	0.346	0.0	0.36	178

Purging Rate: 5 GPM
Purging Time: 25 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 1:10 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 ____

Note: Collected Bind Duplicate sample at well MW-05B

D&B ENGINEERS AND ARCHITECTS

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

SITE Town of Oyster Bay Landfill DATE 5/18/2021

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

Depth of well (feet from top of casing) ..... 100.40'
Initial static water level (feet from top of casing) ..... 95.82'
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: 4.58 ft. of water x 0.65 = 3 gallons

volume of water removed: 20 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	5.74	16.35	0.050	0.0	4.33	35
5	5.47	16.29	0.047	0.0	4.65	51
10	5.27	16.24	0.045	0.0	4.88	70
15	5.18	16.25	0.046	0.0	6.54	97
20	5.20	16.24	0.047	0.0	6.40	99

Purging Rate: 1.5 GPM
Purging Time: 15 min
Sampling Rate: *0.1l/min VOCs / 0.5l/min Other Analytes*

Sampling
Time of Sample Collection: 3:20 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
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 5/18/2021

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

Depth of well (feet from top of casing) ..... 134.90'
Initial static water level (feet from top of casing) 96.00
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: 38.90 ft. of water x 0.65 = 25.3 gallons

volume of water removed: 125 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	7.18	16.82	2.02	32	2.38	-77
25	7.01	16.95	2.91	43	0.45	-125
50	7.03	16.93	2.99	0.0	0.31	-137
75	7.06	16.94	2.98	0.0	0.30	-142
100	7.09	16.96	2.97	0.0	0.29	-145
125	7.10	16.92	2.97	0.0	0.32	-146

Purging Rate: 4 GPM
Purging Time: 35 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: 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 5/18/2021

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

Depth of well (feet from top of casing) ..... 160.90'
Initial static water level (feet from top of casing) ..... 95.40'
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: 65.5 ft. of water x 0.65 = 42.6 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	7.20	17.22	1.08	0.0	3.01	-59
40	7.36	17.59	1.53	0.0	0.30	-154
80	7.33	17.51	1.57	0.0	0.31	-146
120	7.35	17.65	1.57	0.0	0.35	-154
160	7.35	17.57	1.57	0.0	0.29	-157
200	7.36	17.56	1.59	0.0	0.27	-156

Purging Rate: 3 GPM
Purging Time: 70 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 09:40 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 5/18/2021

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

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: 350 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	7.24	18.26	1.09	19.2	3.80	-137
50	6.79	17.48	1.08	0.0	0.33	-133
100	6.53	17.33	1.12	7.0	0.28	-91
150	6.24	17.18	1.17	11.1	0.38	-29
200	6.23	17.19	1.18	0.0	0.31	-24
250	6.24	17.39	1.19	0.0	0.40	-20
300	6.21	17.17	1.19	0.0	0.46	-14
350	6.19	17.14	1.20	0.0	0.27	-11

Purging Rate: 4 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: 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 5/18/2021

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

Depth of well (feet from top of casing) ..... 349' historical log
Initial static water level (feet from top of casing) ..... 95.87'
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: 253.13 ft. of water x 0.65 = 164 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	7.05	16.15	0.712	0.0	3.64	141
100	4.76	16.69	0.739	0.0	0.36	150
200	4.54	16.13	1.10	0.0	0.82	194
300	4.40	16.10	1.15	0.0	0.85	236
400	4.37	16.06	1.16	0.0	0.87	220
500	4.36	16.05	1.25	0.0	0.94	210

Purging Rate: 3 GPM
Purging Time: 165 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 11:05 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 5/17/2021

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

Depth of well (feet from top of casing) ..... 80.70'
Initial static water level (feet from top of casing) 69.38
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: 11.32 ft. of water x 0.65 = 7.4 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	5.37	15.09	0.095	0.0	8.70	215
5	4.84	14.82	0.087	0.0	8.36	239
10	4.81	14.32	0.075	0.0	8.69	241
15	4.76	13.97	0.078	0.0	8.45	247
20	4.73	13.88	0.109	0.0	7.81	255
25	4.94	13.85	0.137	0.0	7.32	250
30	5.22	13.85	0.152	0.0	6.92	238
35	5.36	13.86	0.159	0.0	6.89	230

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

Sampling
Time of Sample Collection: 4:50 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 5/17/2021

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

Depth of well (feet from top of casing) ..... 160.20'
Initial static water level (feet from top of casing) ..... 68.79'
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: 91.41 ft. of water x 0.65 = 59.4 gallons

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

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.21	14.18	0.538	0.0	309	168
60	5.31	13.67	0.582	0.0	0.43	217
90	5.35	13.73	0.588	0.0	0.82	218
120	5.43	13.68	0.585	0.0	0.47	216
150	5.38	13.62	0.586	0.0	0.47	219
180	5.32	13.54	0.586	0.0	0.44	224
210	5.31	13.60	0.585	0.0	0.40	227
240	5.30	13.61	0.584	0.0	0.38	232

Purging Rate: 3 GPM
Purging Time: 80 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 4:00 p.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, 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 5/17/2021

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

Depth of well (feet from top of casing) 169.10
Initial static water level (feet from top of casing) ..... 91.51'
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: 77.59 ft. of water x 0.65 = 50.4 gallons

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

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.15	15.49	0.284	0.0	4.04	135
40	6.05	15.19	0.289	0.0	0.75	143
80	6.15	15.18	0.289	0.0	0.78	139
120	6.17	15.18	0.290	0.0	0.65	141
180	6.17	15.13	0.289	0.0	0.67	142
200	6.18	15.08	0.288	0.0	0.65	141

Purging Rate: 2 GPM
Purging Time: 100 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 12:15 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 5/17/2021

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

Depth of well (feet from top of casing) ..... 225' historical log
Initial static water level (feet from top of casing) 92.10
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:	132.90	ft. of water x 0.65 =	86.4	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	5.94	14.36	0.099	0.0	9.39	146
80	6.21	15.25	0.343	0.0	0.56	147
120	6.25	15.30	0.356	0.0	0.56	132
160	6.30	15.31	0.362	0.0	0.39	132
200	6.34	15.33	0.363	0.0	0.37	136
280	6.34	15.33	0.363	0.0	0.47	134
320	6.36	15.37	0.364	0.0	0.33	133
360	6.35	15.35	0.365	0.0	0.37	136

Purging Rate: 4.0 GPM
Purging Time: 90 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 11:25 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, 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 5/17/2021

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

Depth of well (feet from top of casing) ..... 194.75'
Initial static water level (feet from top of casing) ..... 48.48'
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: 146.27 ft. of water x 0.65 = 95.1 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	6.66	15.04	0.313	0.0	3.27	295
50	6.42	15.44	0.314	0.0	0.46	249
100	6.76	15.82	0.410	0.0	0.39	153
150	6.76	15.88	0.406	0.0	0.74	121
200	6.75	15.95	0.406	0.0	0.73	86
250	6.76	15.94	0.404	0.0	0.48	79
300	6.76	15.93	0.405	0.0	0.46	74
350	6.76	15.95	0.405	0.0	0.44	71
400	6.77	15.95	0.405	0.0	0.43	69

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

Sampling
Time of Sample Collection: 09:15 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, 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

PaceAnalytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Docu

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

WO# : 70173332

70173332

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		
Company:	Town of Oyster Bay	Report To:	Russo, Matt	Attention:	Russo, MATT	
Address:	150 Miller Place	Copy To:	Keith Robins	Company Name:	Town of Oyster Bay	
Syosset, NY 11791		/ D&B Engineers and Architects		Address:	150 Miller Place, Syosset NY 11791	Regulatory Agency
Email:	mrusso@tobays.net	Purchase Order #:		Pace Quote:		
Phone: NONE	Fax:	Project Name:	Old Bethpage Landfill	Pace Project Manager:	nicolette.lovari@pacelabs.com,	State / Location
Requested Due Date:	Standard	Project #:	3617 - First Semiannual 2021	Pace Profile #:	6466	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	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 and dissolved metals (Field filtered for dissolved metals and CR+6)
1	Trip Blank_5/17/2021	WT	AQ	5/17/21	—	5/17/21	—		2	-	-	-	2	-	-	-	-		✓	—	—	—	—	—	—	—					N	001
2	OBS-1_5/17/2021	WT	G	5/17/21	0915a	5/17/21	—		8	2	1	2	2	1	—	—	—		✓	✓	✓	✓	✓	✓	✓	✓					N	002/003
3	MW-09C_5/17/21	WT	G	5/17/21	1125a	5/17/21	—		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓					N	004/005
4	MW-09B_5/17/21	WT	G	5/17/21	1215p	5/17/21	—		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓					N	006/007
5	MW-05B_5/17/21	WT	G	5/17/21	110p	5/17/21	—		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓					N	008/009
6	MW-08B_5/17/21	WT	G	5/17/21	400p	5/17/21	—		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓					N	010/011
7	MW-08A_5/17/21	WT	G	5/17/21	450p	5/17/21	—		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓					N	012/013
8	Blind Duplicate-1_5/17/21	WT	G	5/17/21	0000	5/17/21	—		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓					N	014/015
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill, Field filtering for dissolved metals and CR+6, designated with an "F". Provide Category "B" and EQuIS deliverables. Send data to cob.data@db-eng.com	Keith Robins / D&B	5-17-2021	1724	[signature]	5/17/21	1724	5.1	Y	N	Y
							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: 5-17-2021

Pace Analytical®

Sample Condition Upon Rec

WO#: 70173332

PM: NML **Due Date: 06/02/21**

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Thermometer Used: TH097 Correction Factor: +0.0

Cooler Temperature(°C): 5.1 Cooler Temperature Corrected(°C): 5.1

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: 5/17/21 JP

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	☑ 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 # HC025486				
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). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☑ Yes	☐ No	☐ N/A	14.
KI starch test strips Lot # 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 # SG0125				
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.

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Do

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields mus

WO#: 70173332

PM: NML **Due Date: 05/28/21**

CLIENT: TOY

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Town of Oyster Bay	Report To:	Russo, Matt	Attention:	Russo, Matt
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 1179
Email:	mrusso@tobays.net	Purchase Order #:		Pace Quote:	
Phone:	NONE Fax:	Project Name:	Old Bethpage Landfill	Pace Project Manager:	nicolette.lovari@pacelabs.com,
Requested Due Date:	Standard	Project #:	3617 - First Semiannual 2021	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		
1	Trip Blank_5/13/21	WT	AQ	5/13/21	—	5/13/21	—		2	—	—	—	2	—	—	—	—		✓	—	—	—	—	—	—		N	017
2	MW-06C_5/18/21	WT	G	5/18/21	0940am	5/18/21	—		8	2	1	2	2	1	—	—	—		✓	✓	✓	✓	✓	✓	✓	✓	N	018/019
3	MW-06F_5/18/21	WT	G	5/18/21	1105am	5/18/21	—		8	2	1	2	2	1	—	—	—		✓	✓	✓	✓	✓	✓	✓	✓	N	020/021
4	MW-06E_5/18/21	WT	G	5/18/21	1115am	5/18/21	—		8	2	1	2	2	1	—	—	—		✓	✓	✓	✓	✓	✓	✓	✓	N	022/023
5	MW-06B_5/18/21	WT	G	5/18/21	2350pm	5/18/21	—		8	2	1	2	2	1	—	—	—		✓	✓	✓	✓	✓	✓	✓	✓	N	024/025
6	MW-06A_5/18/21	WT	G	5/18/21	320pm	5/18/21	—		8	2	1	2	2	1	—	—	—		✓	✓	✓	✓	✓	✓	✓	✓	N	026/027
7																												
8																												
9																												
10																												
11																												
12																												

VOCs, leachate indicators, total and 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 Bottle denoted with "F" were field filtered for dissolved metals and CR+6 Send data to Lab data @dbeng.com Provide Category "B" and EQuIS Deliverables	Keith Robins / D+B	5-18-21	16:36	[signature] Pace	5/18/21	16:36	4.1	Y	N	Y

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: 5-18-21				

Pace Analytical®

Sample Condition Upon Rec

WO#: 70173332
PM: NML Due Date: 05/28/21
CLIENT: TOY

Client Name: TOY Projec

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other
Tracking #:
Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other
Thermometer Used: T1091 Correction Factor: +0.0
Cooler Temperature(°C): 4.1 Cooler Temperature Corrected(°C): 4.1
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: 5/18/21 JP

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	☑ 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 # HC025486				
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). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☑ Yes	☐ No	☐ N/A	14.
KI starch test strips Lot # 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 # S60125				
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.

Pace Analytical® www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Docum[ent]

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be co[mpleted accurately.]

WO#: 70173332
PM: NML Due Date: 05/28/21
CLIENT: TOY

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		Dvirka + Bartilucci Engineers	Address:	150 Miller Place, Syosset NY
Email:	mrusso@tobays.net	Purchase Order #:		Pace Quote:	
Phone: NONE	Fax:	Project Name:	Old Bethpage Landfill	Pace Project Manager:	nicolette.lovari@pacelabs.com,
Requested Due Date:	Standard	Project #:	3617 - First Semiannual 2021 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): 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)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	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 - 5/19/2021	WT	-	5/19/21	-	5/19/21	-		2	-	-	-	2	-	-	-	-	✓	-	-	-	-	-	-	-	N	028
2	LF-1 - 5/19/2021	WT	G	5/19/21	120 pm	5/19/21	-		9	2	1	2	2	1	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	N	collected at 120 pm 029/030
3	LF-2 - 5/19/2021	WT	G	5/19/21	1020	5/19/21	-		8	2	1	2	2	1	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	N	collected at 1020 am 031/032
4	Field Blank - 5/19/2021	WT	G	5/19/21	14[illegible] pm	5/19/21	-		8	2	1	2	2	1	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	N	033/034
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill. Sample bottles denoted with "F" were field filtered for Dissolved Metals and CR+6. Provide Category 'B' and EQuIS deliverables, send data to Lab data@db-eng.com	Keith Robins / D&B	5/19/2021	304 pm	[signature]	5/19/21	1505	1.7	W	N	Y

		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: 5-19-2021

(JOB Completed)

Sample Condition Upon Receipt

Pace Analytical®

WO#: 70173332

PM: NML **Due Date: 05/28/21**

CLIENT: TOY

Client Name: Town of Oyster Bay Project

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 1.7 Cooler Temperature Corrected(°C): 1.7

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: CH 5/19/21

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	☑ 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 # H-049002				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				
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.

APPENDIX C

DATA VALIDATION CHECKLIST

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION CHECKLIST

Project Name:	Old Bethpage Landfill
Project Number:	3617 05
Sample Date(s):	May 17-19, 2021
Sample Team:	Keith Robins
Matrix/Number of Samples:	Water/ 13 Field Duplicates/ 1 Trip Blanks / 3 Field Blanks/ 1
Analyzing Laboratory:	Pace Analytical, Melville, NY or Pace National, Mt. Juliet, TN
Analyses:	Volatile Organic Compounds (VOCs): by SW846 8260C in NY Metals: Total and dissolved by USEPA 200.7 and mercury by USEPA 245.1 in NY 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) and Phenolics (USEPA 420.1) in NY and Cyanide (SM22 4500) in TN
Laboratory Report No:	70173332 Date: 6/4/2021

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, January 2017, or USEPA National Functional Guidelines of Inorganic Data Review, January 2017, method performance criteria, and D&B Engineers and Architects, P.C. professional judgment. The qualification of data discussed within this data validation checklist did not impact the usability of the sample results.

D&B ENGINEERS AND ARCHITECTS, P.C.

Custody Numbers:70173332
SAMPLE AND ANALYSIS LIST

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis				
				VOC	SVOC	PCB	MET	MISC
TRIP BLANK	70173332001	5/17/2021		X				
OBS-1	70173332002-3	5/17/2021		X			X	X
MW-09C	70173332004-5	5/17/2021		X			X	X
MW-09B	70173332006-7	5/17/2021		X			X	X
MW-05B	70173332008-9	5/17/2021		X			X	X
MW-08B	70173332010-11	5/17/2021		X			X	X
MW-08A	70173332012-13	5/17/2021		X			X	X
BLIND DUPLICATE	70173332014-15	5/17/2021	MW-05B	X			X	X
TRIP BLANK	70173332017	5/18/2021		X				
MW-06C	70173332018-19	5/18/2021		X			X	X
MW-06F	70173332020-21	5/18/2021		X			X	X
MW-06E	70173332022-23	5/18/2021		X			X	X
MW-06B	70173332024-25	5/18/2021		X			X	X
MW-06A	70173332026-27	5/18/2021		X			X	X
TRIP BLANK	70173332028	5/19/2021		X				
LF-1	70173332029-30	5/19/2021		X			X	X
LF-2	70173332031-32	5/19/2021		X			X	X
FIELD BLANK	70173332033-34	5/19/2021		X			X	X

ORGANIC ANALYSES
VOCS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks		X		X	
C. Field blanks		X		X	
3. Matrix spike (MS) %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.

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. Dissolved iron and zinc were detected in the Field Blank. The following metals were qualified as non-detect (UB): dissolved iron in samples MW-06A, MW-06F, MW-09C, and OBS-1 and dissolved zinc in samples MW-06A, MW-06E, and MW-06F.

4. The %R was above the QC limit for total copper in the matrix spike. Total copper was not detected in any of the samples therefore qualification of the data was not necessary.

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

7. Sample MW-05B was field duplicated and labeled as BLIND DUPLICATE. The following metals were qualified as estimated (J) in samples MW-05B and BLIND DUPLICATE based on field duplicate results: total and dissolved calcium, manganese, potassium, and sodium.

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			

%R percent recovery RPD - relative percent difference %D – percent difference
RSD - relative standard deviation

Comments:
Performance was acceptable, except the following:

1. Cyanide was outside of holding time in sample MW-6E and was qualified as an estimated detection limit (UJ).

2B. TKN, sulfate, and TDS were detected in the Field Blank. The following were qualified as non-detect (UB): TKN in samples LF-1, MW-05B, MW-06A, MW-08B, and MW-09C; and sulfate in sample MW-06F.

3&5. The %Rs were below the QC limits in the matrix spike and/or laboratory spike for alkalinity, carbonate associated with samples OBS-1, MW-09C, MW-09B, MW-05B, MW-08B, MW-08A, BLIND DUPLICATE, MW-06B, LF-1, and FIELD BLANK and was qualified as an estimated detection limit (UJ).

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

The %R was above the QC limit in the matrix spike for TKN associated with all samples. TKN was qualified as estimated (J) in samples LF-2, MW-06B, MW-06C, MW-06E, and OBS-1.

4. The RPD was above QC limit in the laboratory duplicate for TDS associated with samples OBS-1, MW-09C, MW-09B, MW-05B, MW-08B, MW-08A and BLIND DUPLICATE; cyanide associated with samples LF-1, LF-2 and FIELD BLANK and phenolics associated with all samples. They were qualified as estimated (J/UJ) in associated samples.

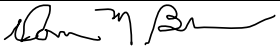
7. Sample MW-05B was field duplicated and labeled as BLIND DUPLICATE. The following general chemistry were qualified as estimated (J) in samples MW-05B and BLIND DUPLICATE based on field duplicate results: total and bicarbonate alkalinity, chloride, hardness, nitrate, and TDS.

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers:70173332

Sample ID	Analyte(s)	Qualifier	Reason(s)
VOCs			
No qualification of the data was necessary.			
Metals			
MW-06A, MW-06F, MW-09C, and OBS-1	Dissolved iron	UB	Detected in the Field Blank
MW-06A, MW-06E, and MW-06F	Dissolved zinc		
MW-06C, MW-06F, MW-06E, MW-06B, MW-06A, LF-1, LF-2, and FIELD BLANK	Dissolved sodium	J	The %R was below the QC limit in the matrix spike
MW-05B and BLIND DUPLICATE	Total and dissolved calcium, manganese, potassium, and sodium	J	Field duplicate results.
General Chemistry			
MW-6E	Cyanide	UJ	Outside of holding time
LF-1, MW-05B, MW-06A, MW-08B, and MW-09C	TKN	UB	Detected in the Field Blank and/or method blank
MW-06F	Sulfate		
OBS-1, MW-09C, MW-09B, MW-05B, MW-08B, MW-08A, BLIND DUPLICATE, MW-06B, LF-1, and FIELD BLANK	Alkalinity, carbonate	UJ	The %Rs were below the QC limits in the matrix spike and/or laboratory spike
MW-06C, MW-06F, MW-06B and MW-06A	Cyanide	J/UJ	The %R was below the QC limit in the matrix spike
LF-1, LF-2, and FIELD BLANK.	Nitrate		
LF-2, MW-06B, MW-06C, MW-06E, and OBS-1	TKN	J	The %R was above the QC limit in the matrix spike
OBS-1, MW-09C, MW-09B, MW-05B, MW-08B, MW-08A and BLIND DUPLICATE	TDS	J/UJ	The RPD was above QC limit in the laboratory duplicate
LF-1, LF-2 and FIELD BLANK	Cyanide		
All samples	Phenolics		
MW-05B and BLIND DUPLICATE	Total and bicarbonate alkalinity, chloride, hardness, nitrate, and TDS	J	Field duplicate results.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 6/16/2021
VALIDATION PERFORMED BY SIGNATURE:	

APPENDIX D

LABORATORY DATA REPORTS

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

June 04, 2021

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

RE: Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Dear Keith Robins:

Enclosed are the analytical results for sample(s) received by the laboratory between May 17, 2021 and May 19, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Melville
- Pace National - Mt. Juliet

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

Sincerely,

Nicolette Lovari

Nicolette M. Lovari
nicolette.lovari@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Donna Brown, Dvirka & Bartilucci
Tom Fox, Dvirka & Bartilucci

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

CERTIFICATIONS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Pace Analytical Services Long Island

Delaware Certification # NY10478
Virginia Certification # 460302
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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

SAMPLE ANALYTE COUNT

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70173332001	**TRIP BLANK_5/17/2021**	EPA 8260C/5030C	KGG	34	PACE-MV
70173332002	**OBS-1_5/17/2021**	EPA 200.7	KM1	13	PACE-MV
		SM22 2340B	KM1	1	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		EPA 8260C/5030C	KGG	34	PACE-MV
		SM22 2320B	MEM1	3	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM 4500-CN E-11	JER	1	PAN
		SM22 3500-Cr B	HMH	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	AKS	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 420.1	KS1	1	PACE-MV
		SM22 4500-Cl-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
70173332003	**OBS-1_5/17/2021 DISS**	EPA 200.7	KM1	13	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		SM22 3500-Cr B	HMH	1	PACE-MV
70173332004	**MW-09C_5/17/21**	EPA 200.7	KM1	13	PACE-MV
		SM22 2340B	KM1	1	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		EPA 8260C/5030C	KGG	34	PACE-MV
		SM22 2320B	MEM1	3	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM 4500-CN E-11	JER	1	PAN
		SM22 3500-Cr B	DGC	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	AKS	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 420.1	KS1	1	PACE-MV
		SM22 4500-Cl-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
70173332005	**MW-09C_5/17/21 DISS**	EPA 200.7	KM1	13	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		SM22 3500-Cr B	DGC	1	PACE-MV

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SAMPLE ANALYTE COUNT

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70173332006	**MW-09B_5/17/21**	EPA 200.7	KM1	13	PACE-MV
		SM22 2340B	KM1	1	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		EPA 8260C/5030C	KGG	34	PACE-MV
		SM22 2320B	MEM1	3	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM 4500-CN E-11	JER	1	PAN
		SM22 3500-Cr B	DGC	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	AKS	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 420.1	KS1	1	PACE-MV
		SM22 4500-Cl-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
70173332007	**MW-09B_5/17/21 DISS**	EPA 200.7	KM1	13	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		SM22 3500-Cr B	DGC	1	PACE-MV
70173332008	**MW-05B_5/17/21**	EPA 200.7	KM1	13	PACE-MV
		SM22 2340B	KM1	1	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		EPA 8260C/5030C	KGG	34	PACE-MV
		SM22 2320B	MEM1	3	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM 4500-CN E-11	JER	1	PAN
		SM22 3500-Cr B	DGC	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	AKS	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 420.1	KS1	1	PACE-MV
		SM22 4500-Cl-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
70173332009	**MW-05B_5/17/21 DISS**	EPA 200.7	KM1	13	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		SM22 3500-Cr B	DGC	1	PACE-MV
70173332010	**MW-08B_5/17/21**	EPA 200.7	KM1	13	PACE-MV

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SAMPLE ANALYTE COUNT

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM22 2340B	KM1	1	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		EPA 8260C/5030C	KGG	34	PACE-MV
		SM22 2320B	MEM1	3	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM 4500-CN E-11	JER	1	PAN
		SM22 3500-Cr B	DGC	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	AKS	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 420.1	KS1	1	PACE-MV
		SM22 4500-Cl-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
70173332011	**MW-08B_5/17/21 DISS**	EPA 200.7	KM1	13	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		SM22 3500-Cr B	DGC	1	PACE-MV
70173332012	**MW-08A_5/17/21**	EPA 200.7	KM1	13	PACE-MV
		SM22 2340B	KM1	1	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		EPA 8260C/5030C	KGG	34	PACE-MV
		SM22 2320B	MEM1	3	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM 4500-CN E-11	JER	1	PAN
		SM22 3500-Cr B	DGC	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	AKS	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 420.1	KS1	1	PACE-MV
		SM22 4500-Cl-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
70173332013	**MW-08A_5/17/21 DISS**	EPA 200.7	KM1	13	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		SM22 3500-Cr B	DGC	1	PACE-MV
70173332014	**BLIND DUPLICATE-1_5/17/21**	EPA 200.7	KM1	13	PACE-MV
		SM22 2340B	KM1	1	PACE-MV

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SAMPLE ANALYTE COUNT

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 245.1	KM1	1	PACE-MV
		EPA 8260C/5030C	KGG	34	PACE-MV
		SM22 2320B	MEM1	3	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM 4500-CN E-11	JER	1	PAN
		SM22 3500-Cr B	HMH	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	AKS	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 420.1	KS1	1	PACE-MV
		SM22 4500-Cl-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
70173332015	**BLIND DUPLICATE-1_5/17/21 DISS**	EPA 200.7	KM1	13	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		SM22 3500-Cr B	HMH	1	PACE-MV
70173332016	**STORAGE BLANK**	EPA 8260C/5030C	KGG	34	PACE-MV
70173332017	**TRIP BLANK_5/18/21**	EPA 8260C/5030C	KGG	34	PACE-MV
70173332018	**MW-6C_5/18/21**	EPA 200.7	KM1	13	PACE-MV
		SM22 2340B	KM1	1	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		EPA 8260C/5030C	KGG	34	PACE-MV
		SM22 2320B	DJM	3	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM 4500-CN E-11	JER	1	PAN
		SM22 3500-Cr B	DGC	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	AKS	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 420.1	KS1	1	PACE-MV
		SM22 4500-Cl-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
70173332019	**MW-6C_5/18/21 DISS**	EPA 200.7	KM1	13	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		SM22 3500-Cr B	DGC	1	PACE-MV
70173332020	**MW-6F_5/18/21**	EPA 200.7	KM1	13	PACE-MV

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SAMPLE ANALYTE COUNT

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM22 2340B	KM1	1	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		EPA 8260C/5030C	KGG	34	PACE-MV
		SM22 2320B	DJM	3	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM 4500-CN E-11	JER	1	PAN
		SM22 3500-Cr B	DGC	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	AKS	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 420.1	KS1	1	PACE-MV
		SM22 4500-Cl-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
70173332021	**MW-6F_5/18/21 DISS**	EPA 200.7	KM1	13	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		SM22 3500-Cr B	DGC	1	PACE-MV
70173332022	**MW-6E_5/18/21**	EPA 200.7	KM1	13	PACE-MV
		SM22 2340B	KM1	1	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		EPA 8260C/5030C	KGG	34	PACE-MV
		SM22 2320B	DJM	3	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM 4500-CN E-11	KEG	1	PAN
		SM22 3500-Cr B	DGC	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	AKS	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 420.1	KS1	1	PACE-MV
		SM22 4500-Cl-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
70173332023	**MW-6E_5/18/21 DISS**	EPA 200.7	KM1	13	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		SM22 3500-Cr B	DGC	1	PACE-MV
70173332024	**MW-6B_5/18/21**	EPA 200.7	KM1	13	PACE-MV
		SM22 2340B	KM1	1	PACE-MV

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SAMPLE ANALYTE COUNT

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 245.1	KM1	1	PACE-MV
		EPA 8260C/5030C	KGG	34	PACE-MV
		SM22 2320B	DJM	3	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM 4500-CN E-11	JER	1	PAN
		SM22 3500-Cr B	DGC	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	AKS	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 420.1	KS1	1	PACE-MV
		SM22 4500-Cl-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
70173332025	**MW-6B_5/18/21 DISS**	EPA 200.7	KM1	13	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		SM22 3500-Cr B	DGC	1	PACE-MV
70173332026	**MW-6A_5/18/21**	EPA 200.7	KM1	13	PACE-MV
		SM22 2340B	KM1	1	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		EPA 8260C/5030C	KGG	34	PACE-MV
		SM22 2320B	DJM	3	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM 4500-CN E-11	JER	1	PAN
		SM22 3500-Cr B	DGC	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	AKS	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 420.1	KS1	1	PACE-MV
		SM22 4500-Cl-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
70173332027	**MW-6A_5/18/21 DISS**	EPA 200.7	KM1	13	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		SM22 3500-Cr B	DGC	1	PACE-MV
70173332028	**TRIP BLANK_5/19/2021**	EPA 8260C/5030C	KGG	34	PACE-MV
70173332029	**LF-1_5/19/2021**	EPA 200.7	KM1	13	PACE-MV
		SM22 2340B	KM1	1	PACE-MV

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SAMPLE ANALYTE COUNT

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 245.1	KM1	1	PACE-MV
		EPA 8260C/5030C	KGG	34	PACE-MV
		SM22 2320B	MEM1	3	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM 4500-CN E-11	JER	1	PAN
		SM22 3500-Cr B	DJM	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	AKS	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 420.1	KS1	1	PACE-MV
		SM22 4500-Cl-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
70173332030	**LF-1_5/19/2021 DISS**	EPA 200.7	KM1	13	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		SM22 3500-Cr B	DJM	1	PACE-MV
70173332031	**LF-2_5/19/2021**	EPA 200.7	KM1	13	PACE-MV
		SM22 2340B	KM1	1	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		EPA 8260C/5030C	KGG	34	PACE-MV
		SM22 2320B	DJM	1	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM 4500-CN E-11	JER	1	PAN
		SM22 3500-Cr B	DJM	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	AKS	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 420.1	KS1	1	PACE-MV
		SM22 4500-Cl-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
70173332032	**LF-2_5/19/2021 DISS**	EPA 200.7	KM1	13	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		SM22 3500-Cr B	DJM	1	PACE-MV
70173332033	**FIELD BLANK_5/19/2021**	EPA 200.7	KM1	13	PACE-MV
		SM22 2340B	KM1	1	PACE-MV
		EPA 245.1	KM1	1	PACE-MV

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SAMPLE ANALYTE COUNT

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260C/5030C	KGG	34	PACE-MV
		SM22 2320B	MEM1	3	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM 4500-CN E-11	JER	1	PAN
		SM22 3500-Cr B	DJM	1	PACE-MV
		EPA 300.0	BNK	1	PACE-MV
		EPA 351.2	AKS	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		EPA 420.1	KS1	1	PACE-MV
		SM22 4500-Cl-E	BNK	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
70173332034	**FIELD BLANK_5/19/2021 DISS**	EPA 200.7	KM1	13	PACE-MV
		EPA 245.1	KM1	1	PACE-MV
		SM22 3500-Cr B	DJM	1	PACE-MV

PACE-MV = Pace Analytical Services - Melville
PAN = Pace National - Mt. Juliet

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: TRIP BLANK_5/17/2021 **Lab ID: 70173332001** Collected: 05/17/21 00:00 Received: 05/17/21 17:27 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		05/23/21 14:07	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 14:07	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 14:07	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:07	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:07	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 14:07	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:07	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 14:07	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 14:07	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 14:07	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:07	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:07	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:07	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 14:07	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 14:07	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 14:07	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 14:07	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 14:07	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 14:07	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 14:07	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:07	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/23/21 14:07	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 14:07	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 14:07	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 14:07	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 14:07	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 14:07	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 14:07	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 14:07	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 14:07	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 14:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-123	1		05/23/21 14:07	17060-07-0	
4-Bromofluorobenzene (S)	101	%	66-119	1		05/23/21 14:07	460-00-4	
Toluene-d8 (S)	95	%	82-121	1		05/23/21 14:07	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 5/17
Pace Project No.: 70173332

Sample: OBS-1_5/17/2021 **Lab ID: 70173332002** Collected: 05/17/21 09:15 Received: 05/17/21 17:27 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	05/28/21 09:02	05/28/21 16:11	7429-90-5	
Barium	**37.3J**	ug/L	200	1	05/28/21 09:02	05/28/21 16:11	7440-39-3	
Calcium	**12800**	ug/L	200	1	05/28/21 09:02	05/28/21 16:11	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:11	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/28/21 09:02	05/28/21 16:11	7440-50-8	
Iron	**31.9J**	ug/L	100	1	05/28/21 09:02	05/28/21 16:11	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/28/21 09:02	05/28/21 16:11	7439-92-1	
Magnesium	**8840**	ug/L	200	1	05/28/21 09:02	05/28/21 16:11	7439-95-4	
Manganese	**2230**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:11	7439-96-5	
Nickel	**4.6J**	ug/L	40.0	1	05/28/21 09:02	05/28/21 16:11	7440-02-0	
Potassium	**21300**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:11	7440-09-7	
Sodium	**47700**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:11	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/28/21 09:02	05/28/21 16:11	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**68400**	ug/L	830	1		05/28/21 16:11		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	05/25/21 10:05	05/26/21 10:26	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/23/21 15:30	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 15:30	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 15:30	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:30	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:30	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 15:30	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:30	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 15:30	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 15:30	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 15:30	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:30	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:30	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:30	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 15:30	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 15:30	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 15:30	107-06-2	v1
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 15:30	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 15:30	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 15:30	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 15:30	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:30	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: OBS-1_5/17/2021 **Lab ID: 70173332002** Collected: 05/17/21 09:15 Received: 05/17/21 17:27 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		05/23/21 15:30	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 15:30	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 15:30	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 15:30	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 15:30	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 15:30	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 15:30	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 15:30	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 15:30	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 15:30	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-123	1		05/23/21 15:30	17060-07-0	
4-Bromofluorobenzene (S)	102	%	66-119	1		05/23/21 15:30	460-00-4	
Toluene-d8 (S)	95	%	82-121	1		05/23/21 15:30	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**158**	mg/L	1.0	1		05/27/21 12:25		
Alkalinity,Bicarbonate (CaCO3)	**158**	mg/L	1.0	1		05/27/21 12:25		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/27/21 12:25		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**268**	mg/L	20.0	1		05/24/21 11:45		
Wet Chemistry 4500CN E-2011	Analytical Method: SM 4500-CN E-11 Preparation Method: 9012B/4500 CN E2011/ Pace National - Mt. Juliet							
Cyanide	**<5.00**	ug/L	5.00	1	05/28/21 04:05	05/28/21 15:47	57-12-5	D8
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/18/21 08:49	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**24.9**	mg/L	5.0	1		05/28/21 19:04	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	**22.4**	mg/L	1.0	10	05/28/21 07:33	06/02/21 11:38	7727-37-9	M6
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**<0.25**	mg/L	0.25	5		05/17/21 22:48	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: OBS-1_5/17/2021 **Lab ID: 70173332002** Collected: 05/17/21 09:15 Received: 05/17/21 17:27 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/17/21 20:19	14797-65-0	
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	06/04/21 09:14	06/04/21 11:58		
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**69.0**	mg/L	2.0	1		05/28/21 15:45	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**17.5**	mg/L	1.0	10		05/28/21 13:28	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: OBS-1_5/17/2021 DISS **Lab ID: 70173332003** Collected: 05/17/21 09:15 Received: 05/17/21 17:27 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		05/26/21 13:07	7429-90-5	
Barium, Dissolved	**38.3J**	ug/L	200	1		05/26/21 13:07	7440-39-3	
Calcium, Dissolved	**13600**	ug/L	1000	1		05/26/21 13:07	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/26/21 13:07	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/26/21 13:07	7440-50-8	
Iron, Dissolved	**29.4**	ug/L	20.0	1		05/26/21 13:07	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/26/21 13:07	7439-92-1	
Magnesium, Dissolved	**9490**	ug/L	1000	1		05/26/21 13:07	7439-95-4	
Manganese, Dissolved	**2300**	ug/L	10.0	1		05/26/21 13:07	7439-96-5	
Nickel, Dissolved	**4.4J**	ug/L	40.0	1		05/26/21 13:07	7440-02-0	
Potassium, Dissolved	**21200**	ug/L	5000	1		05/26/21 13:07	7440-09-7	
Sodium, Dissolved	**46500**	ug/L	5000	1		05/26/21 13:07	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/26/21 13:07	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	05/25/21 10:05	05/26/21 11:23	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/18/21 08:51	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 5/17
Pace Project No.: 70173332

Sample: MW-09C_5/17/21 **Lab ID: 70173332004** Collected: 05/17/21 11:25 Received: 05/17/21 17:27 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	05/28/21 09:02	05/28/21 16:23	7429-90-5	
Barium	**61.8J**	ug/L	200	1	05/28/21 09:02	05/28/21 16:23	7440-39-3	
Calcium	**10400**	ug/L	200	1	05/28/21 09:02	05/28/21 16:23	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:23	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/28/21 09:02	05/28/21 16:23	7440-50-8	
Iron	**<100**	ug/L	100	1	05/28/21 09:02	05/28/21 16:23	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/28/21 09:02	05/28/21 16:23	7439-92-1	
Magnesium	**7870**	ug/L	200	1	05/28/21 09:02	05/28/21 16:23	7439-95-4	
Manganese	**252**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:23	7439-96-5	
Nickel	**4.6J**	ug/L	40.0	1	05/28/21 09:02	05/28/21 16:23	7440-02-0	
Potassium	**11600**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:23	7440-09-7	
Sodium	**60800**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:23	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/28/21 09:02	05/28/21 16:23	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**58400**	ug/L	830	1		05/28/21 16:23		
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	05/25/21 10:05	05/26/21 10:30	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/23/21 15:51	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 15:51	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 15:51	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:51	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:51	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 15:51	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:51	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 15:51	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 15:51	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 15:51	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:51	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:51	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:51	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 15:51	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 15:51	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 15:51	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 15:51	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 15:51	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 15:51	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 15:51	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:51	100-41-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-09C_5/17/21 **Lab ID: 70173332004** Collected: 05/17/21 11:25 Received: 05/17/21 17:27 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		05/23/21 15:51	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 15:51	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 15:51	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 15:51	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 15:51	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 15:51	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 15:51	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 15:51	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 15:51	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 15:51	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-123	1		05/23/21 15:51	17060-07-0	
4-Bromofluorobenzene (S)	101	%	66-119	1		05/23/21 15:51	460-00-4	
Toluene-d8 (S)	95	%	82-121	1		05/23/21 15:51	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**52.9**	mg/L	1.0	1		05/27/21 12:32		
Alkalinity,Bicarbonate (CaCO3)	**52.9**	mg/L	1.0	1		05/27/21 12:32		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/27/21 12:32		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**264**	mg/L	20.0	1		05/24/21 11:55		
Wet Chemistry 4500CN E-2011	Analytical Method: SM 4500-CN E-11 Preparation Method: 9012B/4500 CN E2011/ Pace National - Mt. Juliet							
Cyanide	**<5.00**	ug/L	5.00	1	05/28/21 04:05	05/28/21 15:49	57-12-5	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/18/21 10:52	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**23.0**	mg/L	5.0	1		05/28/21 19:18	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	**2.7**	mg/L	0.10	1	05/28/21 07:33	06/02/21 11:41	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**<0.25**	mg/L	0.25	5		05/17/21 22:49	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-09C_5/17/21 **Lab ID: 70173332004** Collected: 05/17/21 11:25 Received: 05/17/21 17:27 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/17/21 20:20	14797-65-0	
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	06/04/21 09:14	06/04/21 11:59		
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**99.1**	mg/L	2.0	1		05/28/21 15:47	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**2.1**	mg/L	0.10	1		05/28/21 12:38	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-09C_5/17/21 DISS **Lab ID: 70173332005** Collected: 05/17/21 11:25 Received: 05/17/21 17:27 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		05/26/21 13:10	7429-90-5	
Barium, Dissolved	**63.6J**	ug/L	200	1		05/26/21 13:10	7440-39-3	
Calcium, Dissolved	**11000**	ug/L	1000	1		05/26/21 13:10	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/26/21 13:10	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/26/21 13:10	7440-50-8	
Iron, Dissolved	**9.2J**	ug/L	20.0	1		05/26/21 13:10	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/26/21 13:10	7439-92-1	
Magnesium, Dissolved	**8500**	ug/L	1000	1		05/26/21 13:10	7439-95-4	
Manganese, Dissolved	**262**	ug/L	10.0	1		05/26/21 13:10	7439-96-5	
Nickel, Dissolved	**<40.0**	ug/L	40.0	1		05/26/21 13:10	7440-02-0	
Potassium, Dissolved	**11400**	ug/L	5000	1		05/26/21 13:10	7440-09-7	
Sodium, Dissolved	**60200**	ug/L	5000	1		05/26/21 13:10	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/26/21 13:10	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	05/25/21 10:05	05/26/21 11:27	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/18/21 10:53	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-09B_5/17/21 **Lab ID: 70173332006** Collected: 05/17/21 12:15 Received: 05/17/21 17:27 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	05/28/21 09:02	05/28/21 16:37	7429-90-5	
Barium	**81.6J**	ug/L	200	1	05/28/21 09:02	05/28/21 16:37	7440-39-3	
Calcium	**10300**	ug/L	200	1	05/28/21 09:02	05/28/21 16:37	7440-70-2	
Chromium	**11.4**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:37	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/28/21 09:02	05/28/21 16:37	7440-50-8	
Iron	**147**	ug/L	100	1	05/28/21 09:02	05/28/21 16:37	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/28/21 09:02	05/28/21 16:37	7439-92-1	
Magnesium	**4640**	ug/L	200	1	05/28/21 09:02	05/28/21 16:37	7439-95-4	
Manganese	**2060**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:37	7439-96-5	
Nickel	**29.3J**	ug/L	40.0	1	05/28/21 09:02	05/28/21 16:37	7440-02-0	
Potassium	**8190**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:37	7440-09-7	
Sodium	**45100**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:37	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/28/21 09:02	05/28/21 16:37	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		05/28/21 16:37		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	05/25/21 10:05	05/26/21 10:34	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/23/21 16:11	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 16:11	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 16:11	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:11	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:11	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 16:11	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:11	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 16:11	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 16:11	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 16:11	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:11	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:11	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:11	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 16:11	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 16:11	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 16:11	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 16:11	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 16:11	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 16:11	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 16:11	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:11	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-09B_5/17/21 **Lab ID: 70173332006** Collected: 05/17/21 12:15 Received: 05/17/21 17:27 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		05/23/21 16:11	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 16:11	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 16:11	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 16:11	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 16:11	71-55-6	
Trichloroethene	**1.5**	ug/L	1.0	1		05/23/21 16:11	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 16:11	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 16:11	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 16:11	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 16:11	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-123	1		05/23/21 16:11	17060-07-0	
4-Bromofluorobenzene (S)	102	%	66-119	1		05/23/21 16:11	460-00-4	
Toluene-d8 (S)	96	%	82-121	1		05/23/21 16:11	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**26.8**	mg/L	1.0	1		05/27/21 12:38		
Alkalinity,Bicarbonate (CaCO3)	**26.8**	mg/L	1.0	1		05/27/21 12:38		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/27/21 12:38		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**200**	mg/L	20.0	1		05/24/21 11:56		
Wet Chemistry 4500CN E-2011	Analytical Method: SM 4500-CN E-11 Preparation Method: 9012B/4500 CN E2011/ Pace National - Mt. Juliet							
Cyanide	**<5.00**	ug/L	5.00	1	05/28/21 04:05	05/28/21 15:50	57-12-5	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/18/21 10:53	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**21.8**	mg/L	5.0	1		05/28/21 19:31	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	05/28/21 07:33	06/02/21 11:41	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**4.7**	mg/L	0.25	5		05/17/21 22:50	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-09B_5/17/21 **Lab ID: 70173332006** Collected: 05/17/21 12:15 Received: 05/17/21 17:27 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/17/21 20:22	14797-65-0	
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	06/04/21 09:14	06/04/21 12:00		
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**82.4**	mg/L	2.0	1		05/28/21 15:48	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.64**	mg/L	0.10	1		05/28/21 12:39	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-09B_5/17/21 DISS **Lab ID: 70173332007** Collected: 05/17/21 12:15 Received: 05/17/21 17:27 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		05/26/21 13:12	7429-90-5	
Barium, Dissolved	**85.7J**	ug/L	200	1		05/26/21 13:12	7440-39-3	
Calcium, Dissolved	**11200**	ug/L	1000	1		05/26/21 13:12	7440-70-2	
Chromium, Dissolved	**2.5J**	ug/L	10.0	1		05/26/21 13:12	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/26/21 13:12	7440-50-8	
Iron, Dissolved	**77.6**	ug/L	20.0	1		05/26/21 13:12	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/26/21 13:12	7439-92-1	
Magnesium, Dissolved	**5130**	ug/L	1000	1		05/26/21 13:12	7439-95-4	
Manganese, Dissolved	**2190**	ug/L	10.0	1		05/26/21 13:12	7439-96-5	
Nickel, Dissolved	**20.9J**	ug/L	40.0	1		05/26/21 13:12	7440-02-0	
Potassium, Dissolved	**8190**	ug/L	5000	1		05/26/21 13:12	7440-09-7	
Sodium, Dissolved	**45000**	ug/L	5000	1		05/26/21 13:12	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/26/21 13:12	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	05/25/21 10:05	05/26/21 11:31	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/18/21 10:53	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-05B_5/17/21 **Lab ID: 70173332008** Collected: 05/17/21 13:10 Received: 05/17/21 17:27 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	05/28/21 09:02	05/28/21 16:39	7429-90-5	
Barium	**40.9J**	ug/L	200	1	05/28/21 09:02	05/28/21 16:39	7440-39-3	
Calcium	**13100**	ug/L	200	1	05/28/21 09:02	05/28/21 16:39	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:39	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/28/21 09:02	05/28/21 16:39	7440-50-8	
Iron	**<100**	ug/L	100	1	05/28/21 09:02	05/28/21 16:39	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/28/21 09:02	05/28/21 16:39	7439-92-1	
Magnesium	**5420**	ug/L	200	1	05/28/21 09:02	05/28/21 16:39	7439-95-4	
Manganese	**3100**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:39	7439-96-5	
Nickel	**7.9J**	ug/L	40.0	1	05/28/21 09:02	05/28/21 16:39	7440-02-0	
Potassium	**10000**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:39	7440-09-7	
Sodium	**57300**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:39	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/28/21 09:02	05/28/21 16:39	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**55000**	ug/L	830	1		05/28/21 16:39		
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	05/25/21 10:05	05/26/21 10:35	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/23/21 16:32	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 16:32	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 16:32	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:32	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:32	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 16:32	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:32	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 16:32	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 16:32	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 16:32	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:32	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:32	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:32	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 16:32	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 16:32	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 16:32	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 16:32	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 16:32	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 16:32	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 16:32	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:32	100-41-4	

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-05B_5/17/21 **Lab ID: 70173332008** Collected: 05/17/21 13:10 Received: 05/17/21 17:27 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		05/23/21 16:32	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 16:32	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 16:32	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 16:32	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 16:32	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 16:32	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 16:32	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 16:32	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 16:32	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 16:32	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-123	1		05/23/21 16:32	17060-07-0	
4-Bromofluorobenzene (S)	102	%	66-119	1		05/23/21 16:32	460-00-4	
Toluene-d8 (S)	95	%	82-121	1		05/23/21 16:32	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**34.3**	mg/L	1.0	1		05/27/21 12:44		
Alkalinity,Bicarbonate (CaCO3)	**34.3**	mg/L	1.0	1		05/27/21 12:44		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/27/21 12:44		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**250**	mg/L	20.0	1		05/24/21 11:56		
Wet Chemistry 4500CN E-2011	Analytical Method: SM 4500-CN E-11 Preparation Method: 9012B/4500 CN E2011/ Pace National - Mt. Juliet							
Cyanide	**<5.00**	ug/L	5.00	1	05/28/21 04:05	05/28/21 15:51	57-12-5	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/18/21 10:54	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**20.7**	mg/L	5.0	1		05/28/21 19:45	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**0.31**	mg/L	0.10	1	05/28/21 07:33	06/02/21 11:42	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**5.5**	mg/L	0.25	5		05/17/21 22:51	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-05B_5/17/21 **Lab ID: 70173332008** Collected: 05/17/21 13:10 Received: 05/17/21 17:27 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**0.038J**	mg/L	0.050	1		05/17/21 20:23	14797-65-0	
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	06/04/21 09:14	06/04/21 12:02		
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**95.5**	mg/L	2.0	1		05/28/21 15:48	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		05/28/21 12:40	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 5/17
Pace Project No.: 70173332

Sample: MW-05B_5/17/21 DISS **Lab ID: 70173332009** Collected: 05/17/21 13:10 Received: 05/17/21 17:27 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		05/26/21 13:15	7429-90-5	
Barium, Dissolved	**41.0J**	ug/L	200	1		05/26/21 13:15	7440-39-3	
Calcium, Dissolved	**13700**	ug/L	1000	1		05/26/21 13:15	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/26/21 13:15	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/26/21 13:15	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		05/26/21 13:15	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/26/21 13:15	7439-92-1	
Magnesium, Dissolved	**5750**	ug/L	1000	1		05/26/21 13:15	7439-95-4	
Manganese, Dissolved	**3140**	ug/L	10.0	1		05/26/21 13:15	7439-96-5	
Nickel, Dissolved	**7.2J**	ug/L	40.0	1		05/26/21 13:15	7440-02-0	
Potassium, Dissolved	**9700**	ug/L	5000	1		05/26/21 13:15	7440-09-7	
Sodium, Dissolved	**55800**	ug/L	5000	1		05/26/21 13:15	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/26/21 13:15	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	05/25/21 10:05	05/26/21 11:32	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/18/21 10:54	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-08B_5/17/21 **Lab ID: 70173332010** Collected: 05/17/21 16:00 Received: 05/17/21 17:27 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	05/28/21 09:02	05/28/21 16:42	7429-90-5	
Barium	**40.9J**	ug/L	200	1	05/28/21 09:02	05/28/21 16:42	7440-39-3	
Calcium	**13200**	ug/L	200	1	05/28/21 09:02	05/28/21 16:42	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:42	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/28/21 09:02	05/28/21 16:42	7440-50-8	
Iron	**<100**	ug/L	100	1	05/28/21 09:02	05/28/21 16:42	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/28/21 09:02	05/28/21 16:42	7439-92-1	
Magnesium	**5450**	ug/L	200	1	05/28/21 09:02	05/28/21 16:42	7439-95-4	
Manganese	**3110**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:42	7439-96-5	
Nickel	**7.8J**	ug/L	40.0	1	05/28/21 09:02	05/28/21 16:42	7440-02-0	
Potassium	**10100**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:42	7440-09-7	
Sodium	**57400**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:42	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/28/21 09:02	05/28/21 16:42	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**55400**	ug/L	830	1		05/28/21 16:42		
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	05/25/21 10:05	05/26/21 10:39	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/23/21 17:14	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 17:14	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 17:14	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:14	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:14	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 17:14	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:14	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 17:14	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 17:14	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 17:14	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:14	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:14	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:14	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 17:14	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 17:14	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 17:14	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 17:14	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 17:14	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 17:14	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 17:14	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:14	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 5/17
Pace Project No.: 70173332

Sample: MW-08B_5/17/21 **Lab ID: 70173332010** Collected: 05/17/21 16:00 Received: 05/17/21 17:27 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		05/23/21 17:14	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 17:14	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 17:14	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 17:14	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 17:14	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 17:14	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 17:14	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 17:14	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 17:14	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 17:14	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-123	1		05/23/21 17:14	17060-07-0	
4-Bromofluorobenzene (S)	101	%	66-119	1		05/23/21 17:14	460-00-4	
Toluene-d8 (S)	96	%	82-121	1		05/23/21 17:14	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**33.6**	mg/L	1.0	1		05/27/21 12:50		
Alkalinity,Bicarbonate (CaCO3)	**33.6**	mg/L	1.0	1		05/27/21 12:50		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/27/21 12:50		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**282**	mg/L	20.0	1		05/24/21 11:57		
Wet Chemistry 4500CN E-2011	Analytical Method: SM 4500-CN E-11 Preparation Method: 9012B/4500 CN E2011/ Pace National - Mt. Juliet							
Cyanide	**<5.00**	ug/L	5.00	1	05/28/21 04:05	05/28/21 15:52	57-12-5	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/18/21 10:54	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**20.7**	mg/L	5.0	1		05/28/21 19:58	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	05/28/21 07:33	06/02/21 11:43	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**4.5**	mg/L	0.25	5		05/17/21 22:52	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-08B_5/17/21 **Lab ID: 70173332010** Collected: 05/17/21 16:00 Received: 05/17/21 17:27 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**0.032J**	mg/L	0.050	1		05/17/21 20:24	14797-65-0	
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	06/04/21 09:14	06/04/21 12:03		
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**95.3**	mg/L	2.0	1		05/28/21 15:49	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		05/28/21 12:44	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-08B_5/17/21 DISS **Lab ID: 70173332011** Collected: 05/17/21 16:00 Received: 05/17/21 17:27 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		05/26/21 13:22	7429-90-5	
Barium, Dissolved	**42.1J**	ug/L	200	1		05/26/21 13:22	7440-39-3	
Calcium, Dissolved	**14100**	ug/L	1000	1		05/26/21 13:22	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/26/21 13:22	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/26/21 13:22	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		05/26/21 13:22	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/26/21 13:22	7439-92-1	
Magnesium, Dissolved	**5910**	ug/L	1000	1		05/26/21 13:22	7439-95-4	
Manganese, Dissolved	**3230**	ug/L	10.0	1		05/26/21 13:22	7439-96-5	
Nickel, Dissolved	**7.6J**	ug/L	40.0	1		05/26/21 13:22	7440-02-0	
Potassium, Dissolved	**9980**	ug/L	5000	1		05/26/21 13:22	7440-09-7	
Sodium, Dissolved	**57300**	ug/L	5000	1		05/26/21 13:22	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/26/21 13:22	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	05/25/21 10:05	05/26/21 11:36	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/18/21 10:55	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-08A_5/17/21 **Lab ID: 70173332012** Collected: 05/17/21 16:50 Received: 05/17/21 17:27 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	05/28/21 09:02	05/28/21 16:44	7429-90-5	
Barium	**79.1J**	ug/L	200	1	05/28/21 09:02	05/28/21 16:44	7440-39-3	
Calcium	**15200**	ug/L	200	1	05/28/21 09:02	05/28/21 16:44	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:44	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/28/21 09:02	05/28/21 16:44	7440-50-8	
Iron	**<100**	ug/L	100	1	05/28/21 09:02	05/28/21 16:44	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/28/21 09:02	05/28/21 16:44	7439-92-1	
Magnesium	**4660**	ug/L	200	1	05/28/21 09:02	05/28/21 16:44	7439-95-4	
Manganese	**708**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:44	7439-96-5	
Nickel	**17.5J**	ug/L	40.0	1	05/28/21 09:02	05/28/21 16:44	7440-02-0	
Potassium	**8940**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:44	7440-09-7	
Sodium	**118000**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:44	7440-23-5	
Zinc	**38.1**	ug/L	20.0	1	05/28/21 09:02	05/28/21 16:44	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**57100**	ug/L	830	1		05/28/21 16:44		
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	05/25/21 10:05	05/26/21 10:41	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/23/21 17:35	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 17:35	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 17:35	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:35	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:35	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 17:35	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:35	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 17:35	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 17:35	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 17:35	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:35	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:35	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:35	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 17:35	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 17:35	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 17:35	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 17:35	75-35-4	
cis-1,2-Dichloroethene	**21.9**	ug/L	1.0	1		05/23/21 17:35	156-59-2	
trans-1,2-Dichloroethene	**1.0**	ug/L	1.0	1		05/23/21 17:35	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 17:35	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:35	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 5/17
Pace Project No.: 70173332

Sample: MW-08A_5/17/21 **Lab ID: 70173332012** Collected: 05/17/21 16:50 Received: 05/17/21 17:27 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		05/23/21 17:35	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 17:35	75-09-2	
Tetrachloroethene	**7.5**	ug/L	1.0	1		05/23/21 17:35	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 17:35	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 17:35	71-55-6	
Trichloroethene	**3.3**	ug/L	1.0	1		05/23/21 17:35	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 17:35	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 17:35	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 17:35	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 17:35	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-123	1		05/23/21 17:35	17060-07-0	
4-Bromofluorobenzene (S)	102	%	66-119	1		05/23/21 17:35	460-00-4	
Toluene-d8 (S)	95	%	82-121	1		05/23/21 17:35	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**6.2**	mg/L	1.0	1		05/27/21 12:55		
Alkalinity,Bicarbonate (CaCO3)	**6.2**	mg/L	1.0	1		05/27/21 12:55		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/27/21 12:55		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**412**	mg/L	20.0	1		05/24/21 11:57		
Wet Chemistry 4500CN E-2011	Analytical Method: SM 4500-CN E-11 Preparation Method: 9012B/4500 CN E2011/ Pace National - Mt. Juliet							
Cyanide	**1.98J**	ug/L	5.00	1	05/28/21 04:05	05/28/21 15:54	57-12-5	J,ML
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/18/21 10:55	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**31.2**	mg/L	5.0	1		05/28/21 20:12	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	05/28/21 07:33	06/02/21 11:44	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**2.6**	mg/L	0.25	5		05/17/21 22:54	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-08A_5/17/21 **Lab ID: 70173332012** Collected: 05/17/21 16:50 Received: 05/17/21 17:27 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/17/21 20:25	14797-65-0	
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	06/04/21 09:14	06/04/21 12:04		
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**250**	mg/L	20.0	10		05/28/21 16:22	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.12**	mg/L	0.10	1		05/28/21 12:45	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-08A_5/17/21 DISS **Lab ID: 70173332013** Collected: 05/17/21 16:50 Received: 05/17/21 17:27 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		05/26/21 13:24	7429-90-5	
Barium, Dissolved	**80.1J**	ug/L	200	1		05/26/21 13:24	7440-39-3	
Calcium, Dissolved	**16000**	ug/L	1000	1		05/26/21 13:24	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/26/21 13:24	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/26/21 13:24	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		05/26/21 13:24	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/26/21 13:24	7439-92-1	
Magnesium, Dissolved	**4960**	ug/L	1000	1		05/26/21 13:24	7439-95-4	
Manganese, Dissolved	**727**	ug/L	10.0	1		05/26/21 13:24	7439-96-5	
Nickel, Dissolved	**17.1J**	ug/L	40.0	1		05/26/21 13:24	7440-02-0	
Potassium, Dissolved	**8610**	ug/L	5000	1		05/26/21 13:24	7440-09-7	
Sodium, Dissolved	**115000**	ug/L	5000	1		05/26/21 13:24	7440-23-5	
Zinc, Dissolved	**42.1**	ug/L	20.0	1		05/26/21 13:24	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	05/25/21 10:05	05/26/21 11:37	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/18/21 10:56	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: BLIND DUPLICATE-1_5/17/21 **Lab ID: 70173332014** Collected: 05/17/21 00:00 Received: 05/17/21 17:27 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	05/28/21 09:02	05/28/21 16:46	7429-90-5	
Barium	**49.3J**	ug/L	200	1	05/28/21 09:02	05/28/21 16:46	7440-39-3	
Calcium	**8790**	ug/L	200	1	05/28/21 09:02	05/28/21 16:46	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:46	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/28/21 09:02	05/28/21 16:46	7440-50-8	
Iron	**35.2J**	ug/L	100	1	05/28/21 09:02	05/28/21 16:46	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/28/21 09:02	05/28/21 16:46	7439-92-1	
Magnesium	**4030**	ug/L	200	1	05/28/21 09:02	05/28/21 16:46	7439-95-4	
Manganese	**77.5**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:46	7439-96-5	
Nickel	**8.6J**	ug/L	40.0	1	05/28/21 09:02	05/28/21 16:46	7440-02-0	
Potassium	**5110**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:46	7440-09-7	
Sodium	**19600**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:46	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/28/21 09:02	05/28/21 16:46	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**38500**	ug/L	830	1		05/28/21 16:46		
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	05/25/21 10:05	05/26/21 10:42	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/23/21 16:53	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 16:53	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 16:53	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:53	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:53	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 16:53	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:53	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 16:53	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 16:53	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 16:53	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:53	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:53	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:53	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 16:53	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 16:53	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 16:53	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 16:53	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 16:53	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 16:53	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 16:53	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 16:53	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 5/17
Pace Project No.: 70173332

Sample: BLIND DUPLICATE-1_5/17/21 **Lab ID: 70173332014** Collected: 05/17/21 00:00 Received: 05/17/21 17:27 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		05/23/21 16:53	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 16:53	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 16:53	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 16:53	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 16:53	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 16:53	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 16:53	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 16:53	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 16:53	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 16:53	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-123	1		05/23/21 16:53	17060-07-0	
4-Bromofluorobenzene (S)	101	%	66-119	1		05/23/21 16:53	460-00-4	
Toluene-d8 (S)	95	%	82-121	1		05/23/21 16:53	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**12.5**	mg/L	1.0	1		05/27/21 13:12		
Alkalinity,Bicarbonate (CaCO3)	**12.5**	mg/L	1.0	1		05/27/21 13:12		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/27/21 13:12		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**121**	mg/L	10.0	1		05/24/21 11:58		
Wet Chemistry 4500CN E-2011	Analytical Method: SM 4500-CN E-11 Preparation Method: 9012B/4500 CN E2011/ Pace National - Mt. Juliet							
Cyanide	**<5.00**	ug/L	5.00	1	05/28/21 04:05	05/28/21 15:59	57-12-5	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/18/21 08:48	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**28.8**	mg/L	5.0	1		05/28/21 20:25	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	**0.24**	mg/L	0.10	1	05/28/21 07:33	06/02/21 11:45	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**1.8**	mg/L	0.25	5		05/17/21 22:55	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: BLIND DUPLICATE-1_5/17/21 **Lab ID: 70173332014** Collected: 05/17/21 00:00 Received: 05/17/21 17:27 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/17/21 20:26	14797-65-0	
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	06/04/21 09:14	06/04/21 12:05		
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**39.1**	mg/L	2.0	1		05/28/21 15:50	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		05/28/21 12:46	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: BLIND DUPLICATE-1_5/17/21 DISS **Lab ID: 70173332015** Collected: 05/17/21 00:00 Received: 05/17/21 17:27 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		05/26/21 13:26	7429-90-5	
Barium, Dissolved	**51.2J**	ug/L	200	1		05/26/21 13:26	7440-39-3	
Calcium, Dissolved	**9670**	ug/L	1000	1		05/26/21 13:26	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/26/21 13:26	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/26/21 13:26	7440-50-8	
Iron, Dissolved	**25.2**	ug/L	20.0	1		05/26/21 13:26	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/26/21 13:26	7439-92-1	
Magnesium, Dissolved	**4420**	ug/L	1000	1		05/26/21 13:26	7439-95-4	
Manganese, Dissolved	**78.9**	ug/L	10.0	1		05/26/21 13:26	7439-96-5	
Nickel, Dissolved	**8.4J**	ug/L	40.0	1		05/26/21 13:26	7440-02-0	
Potassium, Dissolved	**4970J**	ug/L	5000	1		05/26/21 13:26	7440-09-7	
Sodium, Dissolved	**19400**	ug/L	5000	1		05/26/21 13:26	7440-23-5	
Zinc, Dissolved	**9.9J**	ug/L	20.0	1		05/26/21 13:26	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	05/25/21 10:05	05/26/21 11:39	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/18/21 08:49	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 5/17
Pace Project No.: 70173332

Sample: STORAGE BLANK **Lab ID: 70173332016** Collected: 05/17/21 00:00 Received: 05/17/21 17:27 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		05/23/21 17:56	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 17:56	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 17:56	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:56	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:56	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 17:56	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:56	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 17:56	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 17:56	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 17:56	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:56	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:56	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:56	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 17:56	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 17:56	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 17:56	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 17:56	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 17:56	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 17:56	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 17:56	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 17:56	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/23/21 17:56	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 17:56	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 17:56	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 17:56	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 17:56	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 17:56	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 17:56	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 17:56	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 17:56	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 17:56	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-123	1		05/23/21 17:56	17060-07-0	
4-Bromofluorobenzene (S)	101	%	66-119	1		05/23/21 17:56	460-00-4	
Toluene-d8 (S)	95	%	82-121	1		05/23/21 17:56	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 5/17
Pace Project No.: 70173332

Sample: TRIP BLANK_5/18/21 **Lab ID: 70173332017** Collected: 05/18/21 00:00 Received: 05/18/21 16:36 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/23/21 14:27	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 14:27	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 14:27	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:27	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:27	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 14:27	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:27	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 14:27	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 14:27	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 14:27	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:27	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:27	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:27	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 14:27	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 14:27	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 14:27	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 14:27	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 14:27	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 14:27	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 14:27	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:27	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/23/21 14:27	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 14:27	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 14:27	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 14:27	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 14:27	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 14:27	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 14:27	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 14:27	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 14:27	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 14:27	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-123	1		05/23/21 14:27	17060-07-0	
4-Bromofluorobenzene (S)	100	%	66-119	1		05/23/21 14:27	460-00-4	
Toluene-d8 (S)	95	%	82-121	1		05/23/21 14:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6C_5/18/21 **Lab ID: 70173332018** Collected: 05/18/21 09:40 Received: 05/18/21 16:36 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	05/28/21 09:02	05/28/21 16:49	7429-90-5	
Barium	**29.2J**	ug/L	200	1	05/28/21 09:02	05/28/21 16:49	7440-39-3	
Calcium	**50000**	ug/L	200	1	05/28/21 09:02	05/28/21 16:49	7440-70-2	
Chromium	**40.5**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:49	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/28/21 09:02	05/28/21 16:49	7440-50-8	
Iron	**5640**	ug/L	100	1	05/28/21 09:02	05/28/21 16:49	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/28/21 09:02	05/28/21 16:49	7439-92-1	
Magnesium	**11800**	ug/L	200	1	05/28/21 09:02	05/28/21 16:49	7439-95-4	
Manganese	**156**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:49	7439-96-5	
Nickel	**150**	ug/L	40.0	1	05/28/21 09:02	05/28/21 16:49	7440-02-0	
Potassium	**37800**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:49	7440-09-7	
Sodium	**237000**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:49	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/28/21 09:02	05/28/21 16:49	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**173000**	ug/L	830	1		05/28/21 16:49		
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	05/25/21 10:05	05/26/21 10:43	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/23/21 18:16	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 18:16	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 18:16	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:16	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:16	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 18:16	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:16	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 18:16	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 18:16	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 18:16	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:16	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:16	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:16	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 18:16	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 18:16	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 18:16	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 18:16	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 18:16	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 18:16	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 18:16	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:16	100-41-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6C_5/18/21 **Lab ID: 70173332018** Collected: 05/18/21 09:40 Received: 05/18/21 16:36 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/23/21 18:16	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 18:16	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 18:16	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 18:16	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 18:16	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 18:16	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 18:16	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 18:16	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 18:16	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 18:16	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-123	1		05/23/21 18:16	17060-07-0	
4-Bromofluorobenzene (S)	100	%	66-119	1		05/23/21 18:16	460-00-4	
Toluene-d8 (S)	95	%	82-121	1		05/23/21 18:16	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**511**	mg/L	1.0	1		05/27/21 17:01		
Alkalinity,Bicarbonate (CaCO3)	**511**	mg/L	1.0	1		05/27/21 17:01		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/27/21 17:01		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**888**	mg/L	40.0	1		05/25/21 13:47		
Wet Chemistry 4500CN E-2011	Analytical Method: SM 4500-CN E-11 Preparation Method: 9012B/4500 CN E2011/ Pace National - Mt. Juliet							
Cyanide	**<5.00**	ug/L	5.00	1	05/30/21 19:17	06/01/21 15:43	57-12-5	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/19/21 09:37	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**21.0**	mg/L	5.0	1		05/28/21 20:39	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	**34.2**	mg/L	2.0	20	05/28/21 07:33	06/02/21 11:46	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		05/18/21 23:36	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6C_5/18/21 **Lab ID: 70173332018** Collected: 05/18/21 09:40 Received: 05/18/21 16:36 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/18/21 21:33	14797-65-0	
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	06/04/21 09:14	06/04/21 12:06		
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**267**	mg/L	20.0	10		05/28/21 16:22	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**27.2**	mg/L	1.0	10		05/28/21 13:32	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6C_5/18/21 DISS **Lab ID: 70173332019** Collected: 05/18/21 09:40 Received: 05/18/21 16:36 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		05/26/21 16:11	7429-90-5	
Barium, Dissolved	**28.9J**	ug/L	200	1		05/26/21 16:11	7440-39-3	
Calcium, Dissolved	**51200**	ug/L	1000	1		05/26/21 16:11	7440-70-2	
Chromium, Dissolved	**4.7J**	ug/L	10.0	1		05/26/21 16:11	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/26/21 16:11	7440-50-8	
Iron, Dissolved	**4970**	ug/L	20.0	1		05/26/21 16:11	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/26/21 16:11	7439-92-1	
Magnesium, Dissolved	**12100**	ug/L	1000	1		05/26/21 16:11	7439-95-4	
Manganese, Dissolved	**153**	ug/L	10.0	1		05/26/21 16:11	7439-96-5	
Nickel, Dissolved	**17.8J**	ug/L	40.0	1		05/26/21 16:11	7440-02-0	
Potassium, Dissolved	**36100**	ug/L	5000	1		05/26/21 16:11	7440-09-7	
Sodium, Dissolved	**223000**	ug/L	5000	1		05/26/21 16:11	7440-23-5	M1
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/26/21 16:11	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	05/25/21 10:05	05/26/21 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		05/19/21 09:37	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6F_5/18/21 **Lab ID: 70173332020** Collected: 05/18/21 11:05 Received: 05/18/21 16:36 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**213**	ug/L	200	1	05/28/21 09:02	05/28/21 16:51	7429-90-5	
Barium	**258**	ug/L	200	1	05/28/21 09:02	05/28/21 16:51	7440-39-3	
Calcium	**46100**	ug/L	200	1	05/28/21 09:02	05/28/21 16:51	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:51	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/28/21 09:02	05/28/21 16:51	7440-50-8	
Iron	**34.0J**	ug/L	100	1	05/28/21 09:02	05/28/21 16:51	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/28/21 09:02	05/28/21 16:51	7439-92-1	
Magnesium	**17800**	ug/L	200	1	05/28/21 09:02	05/28/21 16:51	7439-95-4	
Manganese	**130**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:51	7439-96-5	
Nickel	**30.6J**	ug/L	40.0	1	05/28/21 09:02	05/28/21 16:51	7440-02-0	
Potassium	**10000**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:51	7440-09-7	
Sodium	**181000**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:51	7440-23-5	
Zinc	**24.2**	ug/L	20.0	1	05/28/21 09:02	05/28/21 16:51	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**188000**	ug/L	830	1		05/28/21 16:51		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**0.16J**	ug/L	0.20	1	05/25/21 10:05	05/26/21 10:45	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/23/21 18:37	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 18:37	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 18:37	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:37	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:37	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 18:37	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:37	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 18:37	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 18:37	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 18:37	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:37	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:37	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:37	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 18:37	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 18:37	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 18:37	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 18:37	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 18:37	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 18:37	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 18:37	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:37	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6F_5/18/21 **Lab ID: 70173332020** Collected: 05/18/21 11:05 Received: 05/18/21 16:36 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/23/21 18:37	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 18:37	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 18:37	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 18:37	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 18:37	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 18:37	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 18:37	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 18:37	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 18:37	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 18:37	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-123	1		05/23/21 18:37	17060-07-0	
4-Bromofluorobenzene (S)	101	%	66-119	1		05/23/21 18:37	460-00-4	
Toluene-d8 (S)	95	%	82-121	1		05/23/21 18:37	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**<1.0**	mg/L	1.0	1		05/27/21 17:04		
Alkalinity,Bicarbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/27/21 17:04		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/27/21 17:04		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**904**	mg/L	40.0	1		05/25/21 13:47		
Wet Chemistry 4500CN E-2011	Analytical Method: SM 4500-CN E-11 Preparation Method: 9012B/4500 CN E2011/ Pace National - Mt. Juliet							
Cyanide	**<5.00**	ug/L	5.00	1	05/30/21 19:17	06/01/21 15:44	57-12-5	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/19/21 09:38	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**2.7J**	mg/L	5.0	1		05/28/21 20:53	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	05/28/21 07:33	06/02/21 11:48	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		05/18/21 23:37	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6F_5/18/21 **Lab ID: 70173332020** Collected: 05/18/21 11:05 Received: 05/18/21 16:36 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**0.030J**	mg/L	0.050	1		05/18/21 21:35	14797-65-0	
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	06/04/21 09:14	06/04/21 12:07		
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**525**	mg/L	20.0	10		05/28/21 16:23	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.17**	mg/L	0.10	1		05/28/21 12:49	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6F_5/18/21 DISS **Lab ID: 70173332021** Collected: 05/18/21 11:05 Received: 05/18/21 16:36 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	**229**	ug/L	200	1		05/26/21 16:18	7429-90-5	
Barium, Dissolved	**260**	ug/L	200	1		05/26/21 16:18	7440-39-3	
Calcium, Dissolved	**47500**	ug/L	1000	1		05/26/21 16:18	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/26/21 16:18	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/26/21 16:18	7440-50-8	
Iron, Dissolved	**29.5**	ug/L	20.0	1		05/26/21 16:18	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/26/21 16:18	7439-92-1	
Magnesium, Dissolved	**18600**	ug/L	1000	1		05/26/21 16:18	7439-95-4	
Manganese, Dissolved	**130**	ug/L	10.0	1		05/26/21 16:18	7439-96-5	
Nickel, Dissolved	**30.8J**	ug/L	40.0	1		05/26/21 16:18	7440-02-0	
Potassium, Dissolved	**9670**	ug/L	5000	1		05/26/21 16:18	7440-09-7	
Sodium, Dissolved	**172000**	ug/L	5000	1		05/26/21 16:18	7440-23-5	
Zinc, Dissolved	**26.5**	ug/L	20.0	1		05/26/21 16:18	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	05/25/21 10:05	05/26/21 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		05/19/21 09:38	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6E_5/18/21 **Lab ID: 70173332022** Collected: 05/18/21 13:15 Received: 05/18/21 16:36 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	05/28/21 09:02	05/28/21 16:53	7429-90-5	
Barium	**179J**	ug/L	200	1	05/28/21 09:02	05/28/21 16:53	7440-39-3	
Calcium	**25200**	ug/L	200	1	05/28/21 09:02	05/28/21 16:53	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:53	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/28/21 09:02	05/28/21 16:53	7440-50-8	
Iron	**5250**	ug/L	100	1	05/28/21 09:02	05/28/21 16:53	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/28/21 09:02	05/28/21 16:53	7439-92-1	
Magnesium	**11700**	ug/L	200	1	05/28/21 09:02	05/28/21 16:53	7439-95-4	
Manganese	**328**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:53	7439-96-5	
Nickel	**15.7J**	ug/L	40.0	1	05/28/21 09:02	05/28/21 16:53	7440-02-0	
Potassium	**26200**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:53	7440-09-7	
Sodium	**163000**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:53	7440-23-5	
Zinc	**19.0J**	ug/L	20.0	1	05/28/21 09:02	05/28/21 16:53	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**111000**	ug/L	830	1		05/28/21 16:53		
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	05/25/21 10:05	05/26/21 10:46	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/23/21 18:58	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 18:58	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 18:58	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:58	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:58	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 18:58	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:58	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 18:58	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 18:58	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 18:58	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:58	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:58	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:58	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 18:58	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 18:58	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 18:58	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 18:58	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 18:58	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 18:58	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 18:58	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 18:58	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 5/17
Pace Project No.: 70173332

Sample: MW-6E_5/18/21 **Lab ID: 70173332022** Collected: 05/18/21 13:15 Received: 05/18/21 16:36 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/23/21 18:58	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 18:58	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 18:58	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 18:58	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 18:58	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 18:58	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 18:58	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 18:58	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 18:58	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 18:58	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-123	1		05/23/21 18:58	17060-07-0	
4-Bromofluorobenzene (S)	100	%	66-119	1		05/23/21 18:58	460-00-4	
Toluene-d8 (S)	95	%	82-121	1		05/23/21 18:58	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**88.0**	mg/L	1.0	1		05/27/21 17:11		
Alkalinity,Bicarbonate (CaCO3)	**88.0**	mg/L	1.0	1		05/27/21 17:11		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/27/21 17:11		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**688**	mg/L	40.0	1		05/25/21 13:48		
Wet Chemistry 4500CN E-2011	Analytical Method: SM 4500-CN E-11 Preparation Method: 9012B/4500 CN E2011/ Pace National - Mt. Juliet							
Cyanide	**<5.00**	ug/L	5.00	1	06/02/21 13:37	06/02/21 16:22	57-12-5	H1
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/19/21 09:38	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**46.5**	mg/L	5.0	1		05/28/21 21:06	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**22.9**	mg/L	1.0	10	05/28/21 07:33	06/02/21 12:29	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	0.25	5		05/18/21 23:39	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6E_5/18/21 **Lab ID: 70173332022** Collected: 05/18/21 13:15 Received: 05/18/21 16:36 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**0.031J**	mg/L	0.050	1		05/18/21 21:36	14797-65-0	
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	06/04/21 09:14	06/04/21 12:08		
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**373**	mg/L	20.0	10		05/28/21 16:24	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**17.1**	mg/L	1.0	10		05/28/21 13:33	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6E_5/18/21 DISS **Lab ID: 70173332023** Collected: 05/18/21 13:15 Received: 05/18/21 16:36 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		05/26/21 16:25	7429-90-5	
Barium, Dissolved	**181J**	ug/L	200	1		05/26/21 16:25	7440-39-3	
Calcium, Dissolved	**26100**	ug/L	1000	1		05/26/21 16:25	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/26/21 16:25	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/26/21 16:25	7440-50-8	
Iron, Dissolved	**5190**	ug/L	20.0	1		05/26/21 16:25	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/26/21 16:25	7439-92-1	
Magnesium, Dissolved	**12200**	ug/L	1000	1		05/26/21 16:25	7439-95-4	
Manganese, Dissolved	**330**	ug/L	10.0	1		05/26/21 16:25	7439-96-5	
Nickel, Dissolved	**15.2J**	ug/L	40.0	1		05/26/21 16:25	7440-02-0	
Potassium, Dissolved	**25500**	ug/L	5000	1		05/26/21 16:25	7440-09-7	
Sodium, Dissolved	**156000**	ug/L	5000	1		05/26/21 16:25	7440-23-5	
Zinc, Dissolved	**19.4J**	ug/L	20.0	1		05/26/21 16:25	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	05/25/21 10:05	05/26/21 11:43	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/19/21 09:38	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 5/17
Pace Project No.: 70173332

Sample: MW-6B_5/18/21 **Lab ID: 70173332024** Collected: 05/18/21 14:30 Received: 05/18/21 16:36 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	05/28/21 09:02	05/28/21 16:56	7429-90-5	
Barium	**66.8J**	ug/L	200	1	05/28/21 09:02	05/28/21 16:56	7440-39-3	
Calcium	**22600**	ug/L	200	1	05/28/21 09:02	05/28/21 16:56	7440-70-2	
Chromium	**2.3J**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:56	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/28/21 09:02	05/28/21 16:56	7440-50-8	
Iron	**13600**	ug/L	100	1	05/28/21 09:02	05/28/21 16:56	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/28/21 09:02	05/28/21 16:56	7439-92-1	
Magnesium	**21700**	ug/L	200	1	05/28/21 09:02	05/28/21 16:56	7439-95-4	
Manganese	**49.2**	ug/L	10.0	1	05/28/21 09:02	05/28/21 16:56	7439-96-5	
Nickel	**13.0J**	ug/L	40.0	1	05/28/21 09:02	05/28/21 16:56	7440-02-0	
Potassium	**131000**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:56	7440-09-7	
Sodium	**245000**	ug/L	5000	1	05/28/21 09:02	05/28/21 16:56	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/28/21 09:02	05/28/21 16:56	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**146000**	ug/L	830	1		05/28/21 16:56		
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	05/25/21 10:05	05/26/21 10:47	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**5.7**	ug/L	1.0	1		05/23/21 19:19	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 19:19	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 19:19	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 19:19	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 19:19	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 19:19	56-23-5	
Chlorobenzene	**13.4**	ug/L	1.0	1		05/23/21 19:19	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 19:19	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 19:19	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 19:19	124-48-1	
1,2-Dichlorobenzene	**1.6**	ug/L	1.0	1		05/23/21 19:19	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 19:19	541-73-1	
1,4-Dichlorobenzene	**4.9**	ug/L	1.0	1		05/23/21 19:19	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 19:19	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 19:19	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 19:19	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 19:19	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 19:19	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 19:19	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 19:19	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 19:19	100-41-4	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6B_5/18/21 **Lab ID: 70173332024** Collected: 05/18/21 14:30 Received: 05/18/21 16:36 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**3.3**	ug/L	1.0	1		05/23/21 19:19	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 19:19	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 19:19	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 19:19	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 19:19	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 19:19	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 19:19	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 19:19	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 19:19	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 19:19	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-123	1		05/23/21 19:19	17060-07-0	
4-Bromofluorobenzene (S)	102	%	66-119	1		05/23/21 19:19	460-00-4	
Toluene-d8 (S)	96	%	82-121	1		05/23/21 19:19	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**1270**	mg/L	5.0	1		05/28/21 17:55		
Alkalinity,Bicarbonate (CaCO3)	**1270**	mg/L	5.0	1		05/28/21 17:55		
Alkalinity,Carbonate (CaCO3)	**<5.0**	mg/L	5.0	1		05/28/21 17:55		M1
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**1130**	mg/L	40.0	1		05/25/21 13:48		
Wet Chemistry 4500CN E-2011	Analytical Method: SM 4500-CN E-11 Preparation Method: 9012B/4500 CN E2011/ Pace National - Mt. Juliet							
Cyanide	**2.06J**	ug/L	5.00	1	05/30/21 19:17	06/01/21 15:49	57-12-5	J
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/19/21 09:38	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**<5.0**	mg/L	5.0	1		05/28/21 21:47	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	**204**	mg/L	5.0	50	05/28/21 07:33	06/02/21 12:30	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		05/18/21 23:42	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6B_5/18/21 **Lab ID: 70173332024** Collected: 05/18/21 14:30 Received: 05/18/21 16:36 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/18/21 21:37	14797-65-0	
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	06/04/21 09:14	06/04/21 12:09		
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**256**	mg/L	20.0	10		05/28/21 16:24	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**190**	mg/L	10.0	100		05/28/21 14:06	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6B_5/18/21 DISS **Lab ID: 70173332025** Collected: 05/18/21 14:30 Received: 05/18/21 16:36 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		05/26/21 16:27	7429-90-5	
Barium, Dissolved	**68.5J**	ug/L	200	1		05/26/21 16:27	7440-39-3	
Calcium, Dissolved	**23500**	ug/L	1000	1		05/26/21 16:27	7440-70-2	
Chromium, Dissolved	**2.0J**	ug/L	10.0	1		05/26/21 16:27	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/26/21 16:27	7440-50-8	
Iron, Dissolved	**14000**	ug/L	20.0	1		05/26/21 16:27	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/26/21 16:27	7439-92-1	
Magnesium, Dissolved	**22400**	ug/L	1000	1		05/26/21 16:27	7439-95-4	
Manganese, Dissolved	**49.4**	ug/L	10.0	1		05/26/21 16:27	7439-96-5	
Nickel, Dissolved	**13.1J**	ug/L	40.0	1		05/26/21 16:27	7440-02-0	
Potassium, Dissolved	**128000**	ug/L	5000	1		05/26/21 16:27	7440-09-7	
Sodium, Dissolved	**238000**	ug/L	5000	1		05/26/21 16:27	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/26/21 16:27	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	05/25/21 10:05	05/26/21 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		05/19/21 09:38	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6A_5/18/21 **Lab ID: 70173332026** Collected: 05/18/21 15:20 Received: 05/18/21 16:36 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	05/28/21 09:02	05/28/21 17:03	7429-90-5	
Barium	**15.5J**	ug/L	200	1	05/28/21 09:02	05/28/21 17:03	7440-39-3	
Calcium	**1040**	ug/L	200	1	05/28/21 09:02	05/28/21 17:03	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/28/21 09:02	05/28/21 17:03	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/28/21 09:02	05/28/21 17:03	7440-50-8	
Iron	**26.1J**	ug/L	100	1	05/28/21 09:02	05/28/21 17:03	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/28/21 09:02	05/28/21 17:03	7439-92-1	
Magnesium	**954**	ug/L	200	1	05/28/21 09:02	05/28/21 17:03	7439-95-4	
Manganese	**5.4J**	ug/L	10.0	1	05/28/21 09:02	05/28/21 17:03	7439-96-5	
Nickel	**4.8J**	ug/L	40.0	1	05/28/21 09:02	05/28/21 17:03	7440-02-0	
Potassium	**1550J**	ug/L	5000	1	05/28/21 09:02	05/28/21 17:03	7440-09-7	
Sodium	**5840**	ug/L	5000	1	05/28/21 09:02	05/28/21 17:03	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/28/21 09:02	05/28/21 17:03	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**6530**	ug/L	830	1		05/28/21 17:03		
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	05/25/21 10:05	05/26/21 10:49	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/23/21 19:40	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 19:40	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 19:40	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 19:40	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 19:40	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 19:40	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 19:40	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 19:40	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 19:40	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 19:40	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 19:40	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 19:40	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 19:40	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 19:40	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 19:40	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 19:40	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 19:40	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 19:40	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 19:40	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 19:40	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 19:40	100-41-4	

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6A_5/18/21 **Lab ID: 70173332026** Collected: 05/18/21 15:20 Received: 05/18/21 16:36 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/23/21 19:40	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 19:40	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 19:40	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 19:40	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 19:40	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 19:40	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 19:40	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 19:40	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 19:40	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 19:40	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-123	1		05/23/21 19:40	17060-07-0	
4-Bromofluorobenzene (S)	102	%	66-119	1		05/23/21 19:40	460-00-4	
Toluene-d8 (S)	96	%	82-121	1		05/23/21 19:40	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**2.6**	mg/L	1.0	1		05/27/21 17:57		
Alkalinity,Bicarbonate (CaCO3)	**2.6**	mg/L	1.0	1		05/27/21 17:57		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/27/21 17:57		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**40.0**	mg/L	10.0	1		05/25/21 13:49		
Wet Chemistry 4500CN E-2011	Analytical Method: SM 4500-CN E-11 Preparation Method: 9012B/4500 CN E2011/ Pace National - Mt. Juliet							
Cyanide	**<5.00**	ug/L	5.00	1	05/30/21 19:17	06/01/21 15:50	57-12-5	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/19/21 09:38	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**6.6**	mg/L	5.0	1		05/28/21 22:00	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	**1.6**	mg/L	0.10	1	05/28/21 07:33	06/02/21 11:51	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**0.46**	mg/L	0.050	1		05/18/21 23:48	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: MW-6A_5/18/21 **Lab ID: 70173332026** Collected: 05/18/21 15:20 Received: 05/18/21 16:36 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/18/21 21:38	14797-65-0	
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	06/04/21 09:14	06/04/21 12:10		
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**7.5**	mg/L	2.0	1		05/28/21 15:55	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.16**	mg/L	0.10	1		05/28/21 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 5/17
Pace Project No.: 70173332

Sample: MW-6A_5/18/21 DISS **Lab ID: 70173332027** Collected: 05/18/21 15:20 Received: 05/18/21 16:36 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		05/26/21 16:29	7429-90-5	
Barium, Dissolved	**15.0J**	ug/L	200	1		05/26/21 16:29	7440-39-3	
Calcium, Dissolved	**979J**	ug/L	1000	1		05/26/21 16:29	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/26/21 16:29	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/26/21 16:29	7440-50-8	
Iron, Dissolved	**20.0**	ug/L	20.0	1		05/26/21 16:29	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/26/21 16:29	7439-92-1	
Magnesium, Dissolved	**976J**	ug/L	1000	1		05/26/21 16:29	7439-95-4	
Manganese, Dissolved	**5.2J**	ug/L	10.0	1		05/26/21 16:29	7439-96-5	
Nickel, Dissolved	**<40.0**	ug/L	40.0	1		05/26/21 16:29	7440-02-0	
Potassium, Dissolved	**1450J**	ug/L	5000	1		05/26/21 16:29	7440-09-7	
Sodium, Dissolved	**5300**	ug/L	5000	1		05/26/21 16:29	7440-23-5	
Zinc, Dissolved	**6.9J**	ug/L	20.0	1		05/26/21 16:29	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	05/25/21 10:05	05/26/21 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		05/19/21 09:38	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: TRIP BLANK_5/19/2021 **Lab ID: 70173332028** Collected: 05/19/21 00:00 Received: 05/19/21 15:05 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		05/23/21 14:48	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 14:48	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 14:48	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:48	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:48	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 14:48	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:48	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 14:48	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 14:48	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 14:48	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:48	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:48	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:48	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 14:48	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 14:48	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 14:48	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 14:48	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 14:48	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 14:48	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 14:48	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 14:48	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/23/21 14:48	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 14:48	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 14:48	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 14:48	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 14:48	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 14:48	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 14:48	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 14:48	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 14:48	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 14:48	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-123	1		05/23/21 14:48	17060-07-0	
4-Bromofluorobenzene (S)	100	%	66-119	1		05/23/21 14:48	460-00-4	
Toluene-d8 (S)	94	%	82-121	1		05/23/21 14:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: LF-1_5/19/2021 **Lab ID: 70173332029** Collected: 05/19/21 13:20 Received: 05/19/21 15:05 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	05/28/21 09:02	05/28/21 17:05	7429-90-5	
Barium	**72.5J**	ug/L	200	1	05/28/21 09:02	05/28/21 17:05	7440-39-3	
Calcium	**15900**	ug/L	200	1	05/28/21 09:02	05/28/21 17:05	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/28/21 09:02	05/28/21 17:05	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/28/21 09:02	05/28/21 17:05	7440-50-8	
Iron	**19900**	ug/L	100	1	05/28/21 09:02	05/28/21 17:05	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/28/21 09:02	05/28/21 17:05	7439-92-1	
Magnesium	**11800**	ug/L	200	1	05/28/21 09:02	05/28/21 17:05	7439-95-4	
Manganese	**3000**	ug/L	10.0	1	05/28/21 09:02	05/28/21 17:05	7439-96-5	
Nickel	**6.9J**	ug/L	40.0	1	05/28/21 09:02	05/28/21 17:05	7440-02-0	
Potassium	**10100**	ug/L	5000	1	05/28/21 09:02	05/28/21 17:05	7440-09-7	
Sodium	**62400**	ug/L	5000	1	05/28/21 09:02	05/28/21 17:05	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/28/21 09:02	05/28/21 17:05	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**88300**	ug/L	830	1		05/28/21 17:05		
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	05/25/21 10:05	05/26/21 10:50	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/23/21 20:01	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 20:01	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 20:01	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 20:01	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 20:01	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 20:01	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 20:01	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 20:01	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 20:01	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 20:01	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 20:01	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 20:01	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 20:01	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 20:01	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 20:01	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 20:01	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 20:01	75-35-4	
cis-1,2-Dichloroethene	**1.2**	ug/L	1.0	1		05/23/21 20:01	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 20:01	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 20:01	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 20:01	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 5/17
Pace Project No.: 70173332

Sample: LF-1_5/19/2021 **Lab ID: 70173332029** Collected: 05/19/21 13:20 Received: 05/19/21 15:05 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		05/23/21 20:01	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 20:01	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 20:01	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 20:01	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 20:01	71-55-6	
Trichloroethene	**3.8**	ug/L	1.0	1		05/23/21 20:01	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 20:01	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 20:01	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 20:01	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 20:01	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-123	1		05/23/21 20:01	17060-07-0	
4-Bromofluorobenzene (S)	101	%	66-119	1		05/23/21 20:01	460-00-4	
Toluene-d8 (S)	95	%	82-121	1		05/23/21 20:01	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**68.5**	mg/L	1.0	1		05/27/21 19:15		
Alkalinity,Bicarbonate (CaCO3)	**68.5**	mg/L	1.0	1		05/27/21 19:15		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/27/21 19:15		M1
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**318**	mg/L	20.0	1		05/25/21 14:13		
Wet Chemistry 4500CN E-2011	Analytical Method: SM 4500-CN E-11 Preparation Method: 9012B/4500 CN E2011/ Pace National - Mt. Juliet							
Cyanide	**<5.00**	ug/L	5.00	1	06/01/21 17:33	06/01/21 21:32	57-12-5	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/19/21 20:01	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**35.4**	mg/L	5.0	1		05/28/21 22:41	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	**2.5**	mg/L	0.10	1	05/28/21 07:33	06/02/21 11:52	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		05/19/21 23:29	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: LF-1_5/19/2021 **Lab ID: 70173332029** Collected: 05/19/21 13:20 Received: 05/19/21 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**0.037J**	mg/L	0.050	1		05/19/21 21:11	14797-65-0	
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	06/04/21 09:14	06/04/21 12:12		
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**131**	mg/L	20.0	10		05/28/21 16:18	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**2.8**	mg/L	0.10	1		05/28/21 12:58	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: LF-1_5/19/2021 DISS **Lab ID: 70173332030** Collected: 05/19/21 13:20 Received: 05/19/21 15:05 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		05/26/21 16:39	7429-90-5	
Barium, Dissolved	**72.1J**	ug/L	200	1		05/26/21 16:39	7440-39-3	
Calcium, Dissolved	**16400**	ug/L	1000	1		05/26/21 16:39	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/26/21 16:39	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/26/21 16:39	7440-50-8	
Iron, Dissolved	**20200**	ug/L	20.0	1		05/26/21 16:39	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/26/21 16:39	7439-92-1	
Magnesium, Dissolved	**12300**	ug/L	1000	1		05/26/21 16:39	7439-95-4	
Manganese, Dissolved	**2980**	ug/L	10.0	1		05/26/21 16:39	7439-96-5	
Nickel, Dissolved	**6.6J**	ug/L	40.0	1		05/26/21 16:39	7440-02-0	
Potassium, Dissolved	**9670**	ug/L	5000	1		05/26/21 16:39	7440-09-7	
Sodium, Dissolved	**59100**	ug/L	5000	1		05/26/21 16:39	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/26/21 16:39	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	05/25/21 10:05	05/26/21 11:46	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/19/21 20:01	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: LF-2_5/19/2021 **Lab ID: 70173332031** Collected: 05/19/21 10:20 Received: 05/19/21 15:05 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	05/28/21 09:02	05/28/21 17:07	7429-90-5	
Barium	**61.8J**	ug/L	200	1	05/28/21 09:02	05/28/21 17:07	7440-39-3	
Calcium	**41500**	ug/L	200	1	05/28/21 09:02	05/28/21 17:07	7440-70-2	
Chromium	**11.2**	ug/L	10.0	1	05/28/21 09:02	05/28/21 17:07	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/28/21 09:02	05/28/21 17:07	7440-50-8	
Iron	**10500**	ug/L	100	1	05/28/21 09:02	05/28/21 17:07	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/28/21 09:02	05/28/21 17:07	7439-92-1	
Magnesium	**30200**	ug/L	200	1	05/28/21 09:02	05/28/21 17:07	7439-95-4	
Manganese	**175**	ug/L	10.0	1	05/28/21 09:02	05/28/21 17:07	7439-96-5	
Nickel	**21.9J**	ug/L	40.0	1	05/28/21 09:02	05/28/21 17:07	7440-02-0	
Potassium	**166000**	ug/L	5000	1	05/28/21 09:02	05/28/21 17:07	7440-09-7	
Sodium	**466000**	ug/L	5000	1	05/28/21 09:02	05/28/21 17:07	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/28/21 09:02	05/28/21 17:07	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**228000**	ug/L	830	1		05/28/21 17:07		
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	05/25/21 10:05	05/26/21 10:51	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**4.5**	ug/L	1.0	1		05/23/21 20:22	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 20:22	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 20:22	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 20:22	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 20:22	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 20:22	56-23-5	
Chlorobenzene	**3.7**	ug/L	1.0	1		05/23/21 20:22	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 20:22	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 20:22	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 20:22	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 20:22	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 20:22	541-73-1	
1,4-Dichlorobenzene	**3.1**	ug/L	1.0	1		05/23/21 20:22	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 20:22	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 20:22	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 20:22	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 20:22	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 20:22	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 20:22	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 20:22	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 20:22	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 5/17
Pace Project No.: 70173332

Sample: LF-2_5/19/2021 **Lab ID: 70173332031** Collected: 05/19/21 10:20 Received: 05/19/21 15:05 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)	**12.9**	ug/L	1.0	1		05/23/21 20:22	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 20:22	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 20:22	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 20:22	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 20:22	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 20:22	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 20:22	75-01-4	
Xylene (Total)	**3.8**	ug/L	3.0	1		05/23/21 20:22	1330-20-7	
m&p-Xylene	**1.8J**	ug/L	2.0	1		05/23/21 20:22	179601-23-1	
o-Xylene	**2.0**	ug/L	1.0	1		05/23/21 20:22	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-123	1		05/23/21 20:22	17060-07-0	
4-Bromofluorobenzene (S)	102	%	66-119	1		05/23/21 20:22	460-00-4	
Toluene-d8 (S)	96	%	82-121	1		05/23/21 20:22	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**1600**	mg/L	5.0	1		05/28/21 18:20		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**1810**	mg/L	40.0	1		05/25/21 14:21		
Wet Chemistry 4500CN E-2011	Analytical Method: SM 4500-CN E-11 Preparation Method: 9012B/4500 CN E2011/ Pace National - Mt. Juliet							
Cyanide	**3.33J**	ug/L	5.00	1	06/01/21 17:33	06/01/21 21:33	57-12-5	J
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/19/21 20:01	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**<5.0**	mg/L	5.0	1		05/28/21 22:55	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	**203**	mg/L	5.0	50	05/28/21 07:33	06/02/21 12:31	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		05/19/21 23:30	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: LF-2_5/19/2021 **Lab ID: 70173332031** Collected: 05/19/21 10:20 Received: 05/19/21 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/19/21 21:14	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**6.1**	ug/L	5.0	1	06/04/21 09:14	06/04/21 12:13		
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**533**	mg/L	20.0	10		05/28/21 16:19	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**188**	mg/L	10.0	100		05/28/21 14:08	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: LF-2_5/19/2021 DISS **Lab ID: 70173332032** Collected: 05/19/21 10:20 Received: 05/19/21 15:05 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		05/26/21 16:41	7429-90-5	
Barium, Dissolved	**61.9J**	ug/L	200	1		05/26/21 16:41	7440-39-3	
Calcium, Dissolved	**42500**	ug/L	1000	1		05/26/21 16:41	7440-70-2	
Chromium, Dissolved	**10.4**	ug/L	10.0	1		05/26/21 16:41	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/26/21 16:41	7440-50-8	
Iron, Dissolved	**10400**	ug/L	20.0	1		05/26/21 16:41	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/26/21 16:41	7439-92-1	
Magnesium, Dissolved	**30100**	ug/L	1000	1		05/26/21 16:41	7439-95-4	
Manganese, Dissolved	**176**	ug/L	10.0	1		05/26/21 16:41	7439-96-5	
Nickel, Dissolved	**22.1J**	ug/L	40.0	1		05/26/21 16:41	7440-02-0	
Potassium, Dissolved	**156000**	ug/L	5000	1		05/26/21 16:41	7440-09-7	
Sodium, Dissolved	**441000**	ug/L	5000	1		05/26/21 16:41	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		05/26/21 16:41	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	05/25/21 10:05	05/26/21 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		05/19/21 20:01	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: FIELD BLANK_5/19/2021 **Lab ID: 70173332033** Collected: 05/19/21 13:45 Received: 05/19/21 15:05 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	05/28/21 09:02	05/28/21 17:10	7429-90-5	
Barium	**<200**	ug/L	200	1	05/28/21 09:02	05/28/21 17:10	7440-39-3	
Calcium	**<200**	ug/L	200	1	05/28/21 09:02	05/28/21 17:10	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	05/28/21 09:02	05/28/21 17:10	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	05/28/21 09:02	05/28/21 17:10	7440-50-8	
Iron	**<100**	ug/L	100	1	05/28/21 09:02	05/28/21 17:10	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/28/21 09:02	05/28/21 17:10	7439-92-1	
Magnesium	**<200**	ug/L	200	1	05/28/21 09:02	05/28/21 17:10	7439-95-4	
Manganese	**<10.0**	ug/L	10.0	1	05/28/21 09:02	05/28/21 17:10	7439-96-5	
Nickel	**<40.0**	ug/L	40.0	1	05/28/21 09:02	05/28/21 17:10	7440-02-0	
Potassium	**<5000**	ug/L	5000	1	05/28/21 09:02	05/28/21 17:10	7440-09-7	
Sodium	**<5000**	ug/L	5000	1	05/28/21 09:02	05/28/21 17:10	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	05/28/21 09:02	05/28/21 17:10	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		05/28/21 17:10		
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	05/25/21 10:05	05/26/21 10:56	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		05/23/21 15:09	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/23/21 15:09	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/23/21 15:09	75-25-2	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:09	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:09	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/23/21 15:09	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:09	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/23/21 15:09	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/23/21 15:09	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/23/21 15:09	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:09	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:09	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:09	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/23/21 15:09	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 15:09	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 15:09	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 15:09	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 15:09	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 15:09	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/23/21 15:09	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/23/21 15:09	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 5/17
Pace Project No.: 70173332

Sample: FIELD BLANK_5/19/2021 **Lab ID: 70173332033** Collected: 05/19/21 13:45 Received: 05/19/21 15:05 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		05/23/21 15:09	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/23/21 15:09	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/23/21 15:09	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/23/21 15:09	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/23/21 15:09	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/23/21 15:09	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/23/21 15:09	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/23/21 15:09	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/23/21 15:09	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/23/21 15:09	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-123	1		05/23/21 15:09	17060-07-0	
4-Bromofluorobenzene (S)	101	%	66-119	1		05/23/21 15:09	460-00-4	
Toluene-d8 (S)	95	%	82-121	1		05/23/21 15:09	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**<1.0**	mg/L	1.0	1		05/27/21 20:16		
Alkalinity,Bicarbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/27/21 20:16		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		05/27/21 20:16		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**9.0J**	mg/L	10.0	1		05/25/21 14:21		
Wet Chemistry 4500CN E-2011	Analytical Method: SM 4500-CN E-11 Preparation Method: 9012B/4500 CN E2011/ Pace National - Mt. Juliet							
Cyanide	**<5.00**	ug/L	5.00	1	06/01/21 17:33	06/01/21 21:34	57-12-5	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/19/21 20:01	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**0.62J**	mg/L	5.0	1		05/28/21 23:08	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	**0.59**	mg/L	0.10	1	05/28/21 07:33	06/02/21 11:53	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		05/19/21 23:32	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: FIELD BLANK_5/19/2021 **Lab ID: 70173332033** Collected: 05/19/21 13:45 Received: 05/19/21 15:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/19/21 21:16	14797-65-0	
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	06/04/21 09:14	06/04/21 12:14		
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**<2.0**	mg/L	2.0	1		05/28/21 15:57	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		05/28/21 13:01	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Sample: FIELD BLANK_5/19/2021 DISS **Lab ID: 70173332034** Collected: 05/19/21 13:45 Received: 05/19/21 15:05 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		05/26/21 16:43	7429-90-5	
Barium, Dissolved	**<200**	ug/L	200	1		05/26/21 16:43	7440-39-3	
Calcium, Dissolved	**<1000**	ug/L	1000	1		05/26/21 16:43	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		05/26/21 16:43	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		05/26/21 16:43	7440-50-8	
Iron, Dissolved	**6.0J**	ug/L	20.0	1		05/26/21 16:43	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		05/26/21 16:43	7439-92-1	
Magnesium, Dissolved	**<1000**	ug/L	1000	1		05/26/21 16:43	7439-95-4	
Manganese, Dissolved	**<10.0**	ug/L	10.0	1		05/26/21 16:43	7439-96-5	
Nickel, Dissolved	**<40.0**	ug/L	40.0	1		05/26/21 16:43	7440-02-0	
Potassium, Dissolved	**<5000**	ug/L	5000	1		05/26/21 16:43	7440-09-7	
Sodium, Dissolved	**<5000**	ug/L	5000	1		05/26/21 16:43	7440-23-5	
Zinc, Dissolved	**6.0J**	ug/L	20.0	1		05/26/21 16:43	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	05/25/21 10:05	05/26/21 11:52	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		05/19/21 20:01	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 5/17
Pace Project No.: 70173332

QC Batch: 209422
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: 70173332003, 70173332005, 70173332007, 70173332009, 70173332011, 70173332013, 70173332015

METHOD BLANK: 1045344 Matrix: Water
Associated Lab Samples: 70173332003, 70173332005, 70173332007, 70173332009, 70173332011, 70173332013, 70173332015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	05/26/21 12:53	
Barium, Dissolved	ug/L	<200	200	05/26/21 12:53	
Calcium, Dissolved	ug/L	<1000	1000	05/26/21 12:53	
Chromium, Dissolved	ug/L	<10.0	10.0	05/26/21 12:53	
Copper, Dissolved	ug/L	<25.0	25.0	05/26/21 12:53	
Iron, Dissolved	ug/L	<20.0	20.0	05/26/21 12:53	
Lead, Dissolved	ug/L	<5.0	5.0	05/26/21 12:53	
Magnesium, Dissolved	ug/L	<1000	1000	05/26/21 12:53	
Manganese, Dissolved	ug/L	<10.0	10.0	05/26/21 12:53	
Nickel, Dissolved	ug/L	<40.0	40.0	05/26/21 12:53	
Potassium, Dissolved	ug/L	<5000	5000	05/26/21 12:53	
Sodium, Dissolved	ug/L	<5000	5000	05/26/21 12:53	
Zinc, Dissolved	ug/L	<20.0	20.0	05/26/21 12:53	

LABORATORY CONTROL SAMPLE: 1045345

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	5130	103	85-115	
Barium, Dissolved	ug/L	500	485	97	85-115	
Calcium, Dissolved	ug/L	25000	24800	99	85-115	
Chromium, Dissolved	ug/L	250	243	97	85-115	
Copper, Dissolved	ug/L	250	241	96	85-115	
Iron, Dissolved	ug/L	2000	1940	97	85-115	
Lead, Dissolved	ug/L	500	504	101	85-115	
Magnesium, Dissolved	ug/L	25000	24700	99	85-115	
Manganese, Dissolved	ug/L	250	242	97	85-115	
Nickel, Dissolved	ug/L	250	248	99	85-115	
Potassium, Dissolved	ug/L	50000	48800	98	85-115	
Sodium, Dissolved	ug/L	50000	47100	94	85-115	
Zinc, Dissolved	ug/L	1000	998	100	85-115	

MATRIX SPIKE SAMPLE: 1045348

Parameter	Units	70173111002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	5000	6380	124	70-130	
Barium, Dissolved	ug/L	<200	500	600	117	70-130	
Calcium, Dissolved	ug/L	14600	25000	46100	126	70-130	

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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 5/17
Pace Project No.: 70173332

MATRIX SPIKE SAMPLE: 1045348

Parameter	Units	70173111002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	<10.0	250	295	118	70-130	
Copper, Dissolved	ug/L	0.049 mg/L	250	376	131	70-130	M1
Iron, Dissolved	ug/L	368	2000	2680	116	70-130	
Lead, Dissolved	ug/L	<5.0	500	552	110	70-130	
Magnesium, Dissolved	ug/L	25000	25000	56700	127	70-130	
Manganese, Dissolved	ug/L	15.5	250	313	119	70-130	
Nickel, Dissolved	ug/L	<40.0	250	307	120	70-130	
Potassium, Dissolved	ug/L	12500	50000	75100	125	70-130	
Sodium, Dissolved	ug/L	201000	50000	262000	122	70-130	
Zinc, Dissolved	ug/L	<20.0	1000	1240	123	70-130	

SAMPLE DUPLICATE: 1045347

Parameter	Units	70173111002 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	173J		
Barium, Dissolved	ug/L	<200	13.3J		
Calcium, Dissolved	ug/L	14600	14800	1	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	0.049 mg/L	50.9	4	
Iron, Dissolved	ug/L	368	372	1	
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	25000	25200	1	
Manganese, Dissolved	ug/L	15.5	15.8	2	
Nickel, Dissolved	ug/L	<40.0	7.0J		
Potassium, Dissolved	ug/L	12500	12600	1	
Sodium, Dissolved	ug/L	201000	202000	0	
Zinc, Dissolved	ug/L	<20.0	7.3J		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 210343
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: 70173332019, 70173332021, 70173332023, 70173332025, 70173332027, 70173332030, 70173332032, 70173332034

METHOD BLANK: 1051541 Matrix: Water
Associated Lab Samples: 70173332019, 70173332021, 70173332023, 70173332025, 70173332027, 70173332030, 70173332032, 70173332034

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	05/26/21 15:57	
Barium, Dissolved	ug/L	<200	200	05/26/21 15:57	
Calcium, Dissolved	ug/L	<1000	1000	05/26/21 15:57	
Chromium, Dissolved	ug/L	<10.0	10.0	05/26/21 15:57	
Copper, Dissolved	ug/L	<25.0	25.0	05/26/21 15:57	
Iron, Dissolved	ug/L	<20.0	20.0	05/26/21 15:57	
Lead, Dissolved	ug/L	<5.0	5.0	05/26/21 15:57	
Magnesium, Dissolved	ug/L	<1000	1000	05/26/21 15:57	
Manganese, Dissolved	ug/L	<10.0	10.0	05/26/21 15:57	
Nickel, Dissolved	ug/L	<40.0	40.0	05/26/21 15:57	
Potassium, Dissolved	ug/L	<5000	5000	05/26/21 15:57	
Sodium, Dissolved	ug/L	<5000	5000	05/26/21 15:57	
Zinc, Dissolved	ug/L	<20.0	20.0	05/26/21 15:57	

LABORATORY CONTROL SAMPLE: 1051542

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	5010	100	85-115	
Barium, Dissolved	ug/L	500	478	96	85-115	
Calcium, Dissolved	ug/L	25000	24400	98	85-115	
Chromium, Dissolved	ug/L	250	235	94	85-115	
Copper, Dissolved	ug/L	250	239	96	85-115	
Iron, Dissolved	ug/L	2000	1910	95	85-115	
Lead, Dissolved	ug/L	500	496	99	85-115	
Magnesium, Dissolved	ug/L	25000	24200	97	85-115	
Manganese, Dissolved	ug/L	250	236	94	85-115	
Nickel, Dissolved	ug/L	250	242	97	85-115	
Potassium, Dissolved	ug/L	50000	48000	96	85-115	
Sodium, Dissolved	ug/L	50000	46200	92	85-115	
Zinc, Dissolved	ug/L	1000	989	99	85-115	

MATRIX SPIKE SAMPLE: 1051544

Parameter	Units	70173332019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	5000	4880	98	70-130	
Barium, Dissolved	ug/L	28.9J	500	493	93	70-130	

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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 5/17
Pace Project No.: 70173332

MATRIX SPIKE SAMPLE: 1051544

Parameter	Units	70173332019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	51200	25000	70500	77	70-130	
Chromium, Dissolved	ug/L	4.7J	250	234	92	70-130	
Copper, Dissolved	ug/L	<25.0	250	234	94	70-130	
Iron, Dissolved	ug/L	4970	2000	6570	80	70-130	
Lead, Dissolved	ug/L	<5.0	500	448	89	70-130	
Magnesium, Dissolved	ug/L	12100	25000	34600	90	70-130	
Manganese, Dissolved	ug/L	153	250	374	88	70-130	
Nickel, Dissolved	ug/L	17.8J	250	254	94	70-130	
Potassium, Dissolved	ug/L	36100	50000	84900	98	70-130	
Sodium, Dissolved	ug/L	223000	50000	257000	68	70-130	M1
Zinc, Dissolved	ug/L	<20.0	1000	969	97	70-130	

MATRIX SPIKE SAMPLE: 1051546

Parameter	Units	70173332021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	229	5000	5170	99	70-130	
Barium, Dissolved	ug/L	260	500	722	92	70-130	
Calcium, Dissolved	ug/L	47500	25000	69600	88	70-130	
Chromium, Dissolved	ug/L	<10.0	250	232	93	70-130	
Copper, Dissolved	ug/L	<25.0	250	235	93	70-130	
Iron, Dissolved	ug/L	29.5	2000	1860	91	70-130	
Lead, Dissolved	ug/L	<5.0	500	457	91	70-130	
Magnesium, Dissolved	ug/L	18600	25000	42200	94	70-130	
Manganese, Dissolved	ug/L	130	250	358	91	70-130	
Nickel, Dissolved	ug/L	30.8J	250	267	94	70-130	
Potassium, Dissolved	ug/L	9670	50000	61900	104	70-130	
Sodium, Dissolved	ug/L	172000	50000	216000	88	70-130	
Zinc, Dissolved	ug/L	26.5	1000	999	97	70-130	

SAMPLE DUPLICATE: 1051543

Parameter	Units	70173332019 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	28.9J	28.6J		
Calcium, Dissolved	ug/L	51200	50400	2	
Chromium, Dissolved	ug/L	4.7J	4.6J		
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	4970	4950	1	
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	12100	12000	1	
Manganese, Dissolved	ug/L	153	152	1	
Nickel, Dissolved	ug/L	17.8J	17.6J		
Potassium, Dissolved	ug/L	36100	35600	1	
Sodium, Dissolved	ug/L	223000	221000	1	

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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 5/17
Pace Project No.: 70173332

SAMPLE DUPLICATE: 1051543

Parameter	Units	70173332019 Result	Dup Result	RPD	Qualifiers
Zinc, Dissolved	ug/L	<20.0	<20.0		

SAMPLE DUPLICATE: 1051545

Parameter	Units	70173332021 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	229	232	1	
Barium, Dissolved	ug/L	260	265	2	
Calcium, Dissolved	ug/L	47500	48300	2	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	29.5	25.6	14	
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	18600	18800	1	
Manganese, Dissolved	ug/L	130	132	2	
Nickel, Dissolved	ug/L	30.8J	31.1J		
Potassium, Dissolved	ug/L	9670	9750	1	
Sodium, Dissolved	ug/L	172000	175000	2	
Zinc, Dissolved	ug/L	26.5	26.9	1	

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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 5/17
Pace Project No.: 70173332

QC Batch: 210345 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014, 70173332018, 70173332020, 70173332022, 70173332024, 70173332026, 70173332029, 70173332031, 70173332033

METHOD BLANK: 1051547 Matrix: Water
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014, 70173332018, 70173332020, 70173332022, 70173332024, 70173332026, 70173332029, 70173332031, 70173332033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	05/26/21 10:21	

LABORATORY CONTROL SAMPLE: 1051548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.96	96	85-115	

MATRIX SPIKE SAMPLE: 1051549

Parameter	Units	70173332002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	0.96	96	70-130	

MATRIX SPIKE SAMPLE: 1051551

Parameter	Units	70173332004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	0.94	94	70-130	

SAMPLE DUPLICATE: 1051550

Parameter	Units	70173332002 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1051552

Parameter	Units	70173332004 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 210347
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: 70173332003, 70173332005, 70173332007, 70173332009, 70173332011, 70173332013, 70173332015, 70173332019, 70173332021, 70173332023, 70173332025, 70173332027, 70173332030, 70173332032, 70173332034

METHOD BLANK: 1051553 Matrix: Water
Associated Lab Samples: 70173332003, 70173332005, 70173332007, 70173332009, 70173332011, 70173332013, 70173332015, 70173332019, 70173332021, 70173332023, 70173332025, 70173332027, 70173332030, 70173332032, 70173332034

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.20	0.20	05/26/21 11:19	

LABORATORY CONTROL SAMPLE: 1051554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	1	0.86	86	85-115	

MATRIX SPIKE SAMPLE: 1051555

Parameter	Units	70173332003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	<0.20	1	0.82	82	70-130	

MATRIX SPIKE SAMPLE: 1051557

Parameter	Units	70173332005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	<0.20	1	0.88	88	70-130	

SAMPLE DUPLICATE: 1051556

Parameter	Units	70173332003 Result	Dup Result	RPD	Qualifiers
Mercury, Dissolved	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 1051558

Parameter	Units	70173332005 Result	Dup Result	RPD	Qualifiers
Mercury, Dissolved	ug/L	<0.20	<0.20		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 211016
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: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014, 70173332018, 70173332020, 70173332022, 70173332024, 70173332026, 70173332029, 70173332031, 70173332033

METHOD BLANK: 1056343
Matrix: Water
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014, 70173332018, 70173332020, 70173332022, 70173332024, 70173332026, 70173332029, 70173332031, 70173332033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	05/28/21 16:06	
Barium	ug/L	<200	200	05/28/21 16:06	
Calcium	ug/L	<200	200	05/28/21 16:06	
Chromium	ug/L	<10.0	10.0	05/28/21 16:06	
Copper	ug/L	<25.0	25.0	05/28/21 16:06	
Iron	ug/L	<100	100	05/28/21 16:06	
Lead	ug/L	<5.0	5.0	05/28/21 16:06	
Magnesium	ug/L	<200	200	05/28/21 16:06	
Manganese	ug/L	<10.0	10.0	05/28/21 16:06	
Nickel	ug/L	<40.0	40.0	05/28/21 16:06	
Potassium	ug/L	<5000	5000	05/28/21 16:06	
Sodium	ug/L	<5000	5000	05/28/21 16:06	
Zinc	ug/L	<20.0	20.0	05/28/21 16:06	

LABORATORY CONTROL SAMPLE: 1056344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	5280	106	85-115	
Barium	ug/L	500	504	101	85-115	
Calcium	ug/L	25000	25000	100	85-115	
Chromium	ug/L	250	250	100	85-115	
Copper	ug/L	250	246	98	85-115	
Iron	ug/L	2000	1970	99	85-115	
Lead	ug/L	500	499	100	85-115	
Magnesium	ug/L	25000	24600	98	85-115	
Manganese	ug/L	250	247	99	85-115	
Nickel	ug/L	250	248	99	85-115	
Potassium	ug/L	50000	52900	106	85-115	
Sodium	ug/L	50000	51300	103	85-115	
Zinc	ug/L	1000	992	99	85-115	

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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 5/17
Pace Project No.: 70173332

MATRIX SPIKE SAMPLE: 1056346

Parameter	Units	70173332002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	5000	5210	104	70-130	
Barium	ug/L	37.3J	500	526	98	70-130	
Calcium	ug/L	12800	25000	37200	98	70-130	
Chromium	ug/L	<10.0	250	246	98	70-130	
Copper	ug/L	<25.0	250	241	96	70-130	
Iron	ug/L	31.9J	2000	1960	96	70-130	
Lead	ug/L	<5.0	500	491	98	70-130	
Magnesium	ug/L	8840	25000	32800	96	70-130	
Manganese	ug/L	2230	250	2440	84	70-130	
Nickel	ug/L	4.6J	250	250	98	70-130	
Potassium	ug/L	21300	50000	76500	110	70-130	
Sodium	ug/L	47700	50000	97400	99	70-130	
Zinc	ug/L	<20.0	1000	983	98	70-130	

MATRIX SPIKE SAMPLE: 1056348

Parameter	Units	70173332004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	5000	5240	105	70-130	
Barium	ug/L	61.8J	500	554	98	70-130	
Calcium	ug/L	10400	25000	34900	98	70-130	
Chromium	ug/L	<10.0	250	248	99	70-130	
Copper	ug/L	<25.0	250	244	97	70-130	
Iron	ug/L	<100	2000	1940	96	70-130	
Lead	ug/L	<5.0	500	492	98	70-130	
Magnesium	ug/L	7870	25000	32100	97	70-130	
Manganese	ug/L	252	250	490	95	70-130	
Nickel	ug/L	4.6J	250	250	98	70-130	
Potassium	ug/L	11600	50000	65800	108	70-130	
Sodium	ug/L	60800	50000	112000	102	70-130	
Zinc	ug/L	<20.0	1000	993	99	70-130	

SAMPLE DUPLICATE: 1056345

Parameter	Units	70173332002 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	37.3J	37.4J		
Calcium	ug/L	12800	12900	1	
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	31.9J	33.1J		
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	8840	8860	0	
Manganese	ug/L	2230	2250	1	
Nickel	ug/L	4.6J	4.9J		

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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 5/17
Pace Project No.: 70173332

SAMPLE DUPLICATE: 1056345

Parameter	Units	70173332002 Result	Dup Result	RPD	Qualifiers
Potassium	ug/L	21300	21300	0	
Sodium	ug/L	47700	47900	0	
Zinc	ug/L	<20.0	<20.0		

SAMPLE DUPLICATE: 1056347

Parameter	Units	70173332004 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	61.8J	61.1J		
Calcium	ug/L	10400	10300	1	
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	<100	<100		
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	7870	7800	1	
Manganese	ug/L	252	250	1	
Nickel	ug/L	4.6J	4.5J		
Potassium	ug/L	11600	11500	1	
Sodium	ug/L	60800	60200	1	
Zinc	ug/L	<20.0	<20.0		

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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 5/17
Pace Project No.: 70173332

QC Batch: 210112
QC Batch Method: EPA 8260C/5030C
Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173332001, 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014, 70173332016, 70173332017, 70173332018, 70173332020, 70173332022, 70173332024, 70173332026, 70173332028, 70173332029, 70173332031, 70173332033

METHOD BLANK: 1050122
Matrix: Water
Associated Lab Samples: 70173332001, 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014, 70173332016, 70173332017, 70173332018, 70173332020, 70173332022, 70173332024, 70173332026, 70173332028, 70173332029, 70173332031, 70173332033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/23/21 12:19	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/23/21 12:19	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/23/21 12:19	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/23/21 12:19	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/23/21 12:19	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/23/21 12:19	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	05/23/21 12:19	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/23/21 12:19	
Benzene	ug/L	<1.0	1.0	05/23/21 12:19	
Bromodichloromethane	ug/L	<1.0	1.0	05/23/21 12:19	
Bromoform	ug/L	<1.0	1.0	05/23/21 12:19	
Carbon tetrachloride	ug/L	<1.0	1.0	05/23/21 12:19	
Chlorobenzene	ug/L	<1.0	1.0	05/23/21 12:19	
Chloroethane	ug/L	<1.0	1.0	05/23/21 12:19	
Chloroform	ug/L	<1.0	1.0	05/23/21 12:19	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/23/21 12:19	
Dibromochloromethane	ug/L	<1.0	1.0	05/23/21 12:19	
Dichlorodifluoromethane	ug/L	<1.0	1.0	05/23/21 12:19	
Ethylbenzene	ug/L	<1.0	1.0	05/23/21 12:19	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	05/23/21 12:19	
m&p-Xylene	ug/L	<2.0	2.0	05/23/21 12:19	
Methylene Chloride	ug/L	<1.0	1.0	05/23/21 12:19	
n-Butylbenzene	ug/L	<1.0	1.0	05/23/21 12:19	
o-Xylene	ug/L	<1.0	1.0	05/23/21 12:19	
tert-Butylbenzene	ug/L	<1.0	1.0	05/23/21 12:19	
Tetrachloroethene	ug/L	<1.0	1.0	05/23/21 12:19	
Toluene	ug/L	<1.0	1.0	05/23/21 12:19	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/23/21 12:19	
Trichloroethene	ug/L	<1.0	1.0	05/23/21 12:19	
Vinyl chloride	ug/L	<1.0	1.0	05/23/21 12:19	
Xylene (Total)	ug/L	<3.0	3.0	05/23/21 12:19	
1,2-Dichloroethane-d4 (S)	%	104	70-123	05/23/21 12:19	
4-Bromofluorobenzene (S)	%	101	66-119	05/23/21 12:19	
Toluene-d8 (S)	%	96	82-121	05/23/21 12:19	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

LABORATORY CONTROL SAMPLE: 1050123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.5	105	62-121	
1,1-Dichloroethane	ug/L	50	59.0	118	68-127	
1,1-Dichloroethene	ug/L	50	55.0	110	65-123	
1,2-Dichlorobenzene	ug/L	50	50.9	102	76-117	
1,2-Dichloroethane	ug/L	50	58.8	118	73-128	v1
1,2-Dichloropropane	ug/L	50	57.8	116	79-117	
1,3-Dichlorobenzene	ug/L	50	51.2	102	73-120	
1,4-Dichlorobenzene	ug/L	50	50.6	101	73-119	
Benzene	ug/L	50	55.0	110	73-121	
Bromodichloromethane	ug/L	50	55.7	111	74-127	
Bromoform	ug/L	50	46.8	94	55-128	
Carbon tetrachloride	ug/L	50	53.9	108	64-122	
Chlorobenzene	ug/L	50	50.0	100	76-117	
Chloroethane	ug/L	50	53.2	106	60-129	
Chloroform	ug/L	50	57.8	116	74-129	
cis-1,2-Dichloroethene	ug/L	50	56.9	114	72-127	
Dibromochloromethane	ug/L	50	48.5	97	71-130	
Dichlorodifluoromethane	ug/L	50	41.4	83	14-130	
Ethylbenzene	ug/L	50	49.9	100	70-120	
Isopropylbenzene (Cumene)	ug/L	50	51.2	102	70-116	
m&p-Xylene	ug/L	100	101	101	73-120	
Methylene Chloride	ug/L	50	56.9	114	69-126	
n-Butylbenzene	ug/L	50	51.3	103	66-126	
o-Xylene	ug/L	50	50.4	101	74-119	
tert-Butylbenzene	ug/L	50	51.3	103	72-115	
Tetrachloroethene	ug/L	50	48.2	96	65-120	
Toluene	ug/L	50	55.1	110	77-120	
trans-1,2-Dichloroethene	ug/L	50	55.2	110	71-125	
Trichloroethene	ug/L	50	54.4	109	73-116	
Vinyl chloride	ug/L	50	51.1	102	50-130	
Xylene (Total)	ug/L	150	151	101	73-120	
1,2-Dichloroethane-d4 (S)	%			99	70-123	
4-Bromofluorobenzene (S)	%			101	66-119	
Toluene-d8 (S)	%			94	82-121	

MATRIX SPIKE SAMPLE: 1050152

Parameter	Units	70173332002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	48.7	97	60-127	
1,1-Dichloroethane	ug/L	<1.0	50	54.0	108	69-131	
1,1-Dichloroethene	ug/L	<1.0	50	51.7	103	70-129	
1,2-Dichlorobenzene	ug/L	<1.0	50	45.3	91	73-117	
1,2-Dichloroethane	ug/L	<1.0	50	53.0	106	70-129	v1
1,2-Dichloropropane	ug/L	<1.0	50	51.3	103	77-118	
1,3-Dichlorobenzene	ug/L	<1.0	50	45.4	91	72-121	

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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 5/17
Pace Project No.: 70173332

MATRIX SPIKE SAMPLE: 1050152

Parameter	Units	70173332002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	<1.0	50	45.1	90	70-120	
Benzene	ug/L	<1.0	50	50.7	101	74-126	
Bromodichloromethane	ug/L	<1.0	50	48.3	97	71-125	
Bromoform	ug/L	<1.0	50	40.8	82	40-128	
Carbon tetrachloride	ug/L	<1.0	50	49.3	99	64-125	
Chlorobenzene	ug/L	<1.0	50	46.9	94	72-121	
Chloroethane	ug/L	<1.0	50	49.7	99	54-137	
Chloroform	ug/L	<1.0	50	53.6	107	73-128	
cis-1,2-Dichloroethene	ug/L	<1.0	50	52.4	105	72-129	
Dibromochloromethane	ug/L	<1.0	50	43.3	87	59-132	
Dichlorodifluoromethane	ug/L	<1.0	50	38.1	76	10-131	
Ethylbenzene	ug/L	<1.0	50	47.0	94	67-126	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	45.8	92	66-120	
m&p-Xylene	ug/L	<2.0	100	93.8	94	68-127	
Methylene Chloride	ug/L	<1.0	50	51.2	102	65-129	
n-Butylbenzene	ug/L	<1.0	50	46.7	93	65-129	
o-Xylene	ug/L	<1.0	50	46.9	94	66-129	
tert-Butylbenzene	ug/L	<1.0	50	46.4	93	68-121	
Tetrachloroethene	ug/L	<1.0	50	45.2	90	59-131	
Toluene	ug/L	<1.0	50	51.0	102	76-124	
trans-1,2-Dichloroethene	ug/L	<1.0	50	51.5	103	74-129	
Trichloroethene	ug/L	<1.0	50	50.3	101	78-119	
Vinyl chloride	ug/L	<1.0	50	48.4	97	45-141	
Xylene (Total)	ug/L	<3.0	150	141	94	69-125	
1,2-Dichloroethane-d4 (S)	%				99	70-123	
4-Bromofluorobenzene (S)	%				102	66-119	
Toluene-d8 (S)	%				95	82-121	

SAMPLE DUPLICATE: 1050153

Parameter	Units	70173332031 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	3.1	3.1	1	
Benzene	ug/L	4.5	4.5	1	
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	3.7	3.6	3	
Chloroethane	ug/L	<1.0	<1.0		

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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 5/17
Pace Project No.: 70173332

SAMPLE DUPLICATE: 1050153

Parameter	Units	70173332031 Result	Dup Result	RPD	Qualifiers
Chloroform	ug/L	<1.0	<1.0		
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	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	12.9	12.5	3	
m&p-Xylene	ug/L	1.8J	1.7J		
Methylene Chloride	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	<1.0	<1.0		
o-Xylene	ug/L	2.0	2.0	0	
tert-Butylbenzene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
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	3.8	3.7	2	
1,2-Dichloroethane-d4 (S)	%	101	101		
4-Bromofluorobenzene (S)	%	102	101		
Toluene-d8 (S)	%	96	95		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 210813 | Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014

METHOD BLANK: 1055069 Matrix: Water
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	05/27/21 11:40	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	05/27/21 11:40	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	05/27/21 11:40	

LABORATORY CONTROL SAMPLE: 1055070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	25.2	101	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		5.0			
Alkalinity,Carbonate (CaCO3)	mg/L	25	20.2	81	85-115	L2

MATRIX SPIKE SAMPLE: 1055074

Parameter	Units	70173282001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	7.8	50	58.7	102	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	7.8		23.4			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	35.3	71	75-125	M0

SAMPLE DUPLICATE: 1055073

Parameter	Units	70173282001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	7.8	7.6	2	
Alkalinity,Bicarbonate (CaCO3)	mg/L	7.8	7.6	2	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 210928
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173332018, 70173332020, 70173332022, 70173332026

METHOD BLANK: 1055504 Matrix: Water
Associated Lab Samples: 70173332018, 70173332020, 70173332022, 70173332026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	05/27/21 15:11	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	05/27/21 15:11	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	05/27/21 15:11	

LABORATORY CONTROL SAMPLE: 1055505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	25.4	101	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		3.0			
Alkalinity,Carbonate (CaCO3)	mg/L	25	22.3	89	85-115	

MATRIX SPIKE SAMPLE: 1055514

Parameter	Units	70173468002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	60.2	50	108	96	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	60.2		55.8			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	52.5	105	75-125	

SAMPLE DUPLICATE: 1055508

Parameter	Units	70173468001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	15.6	16.3	5	
Alkalinity,Bicarbonate (CaCO3)	mg/L	15.6	16.3	5	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 210968
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173332029, 70173332033

METHOD BLANK: 1055873 Matrix: Water
Associated Lab Samples: 70173332029, 70173332033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	05/27/21 18:59	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	05/27/21 18:59	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	05/27/21 18:59	

LABORATORY CONTROL SAMPLE: 1055874

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	25.2	101	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		2.4			
Alkalinity,Carbonate (CaCO3)	mg/L	25	22.9	91	85-115	

MATRIX SPIKE SAMPLE: 1055876

Parameter	Units	70173332029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	68.5	50	114	91	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	68.5		114			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	50	<1.0	0	75-125	M1

SAMPLE DUPLICATE: 1055875

Parameter	Units	70173332029 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	68.5	73.1	6	
Alkalinity,Bicarbonate (CaCO3)	mg/L	68.5	73.1	6	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 211144
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity, High Level
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173332024, 70173332031

METHOD BLANK: 1056946 Matrix: Water
Associated Lab Samples: 70173332024, 70173332031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.5	05/28/21 17:39	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	2.5	05/28/21 17:39	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	2.5	05/28/21 17:39	

LABORATORY CONTROL SAMPLE: 1056947

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	125	123	99	80-120	
Alkalinity,Bicarbonate (CaCO3)	mg/L		<5.0			
Alkalinity,Carbonate (CaCO3)	mg/L	125	121	97	80-120	

MATRIX SPIKE SAMPLE: 1056952

Parameter	Units	70173332024 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	1270	250	1530	103	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	1270		1530			
Alkalinity,Carbonate (CaCO3)	mg/L	<5.0	250	<5.0	0	75-125	M1

SAMPLE DUPLICATE: 1056951

Parameter	Units	70173332024 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	1270	1220	4	
Alkalinity,Bicarbonate (CaCO3)	mg/L	1270	1220	4	
Alkalinity,Carbonate (CaCO3)	mg/L	<5.0	<5.0		

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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 5/17
Pace Project No.: 70173332

QC Batch: 210166 | Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014

METHOD BLANK: 1050264 Matrix: Water
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	05/24/21 11:33	

LABORATORY CONTROL SAMPLE: 1050265

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

MATRIX SPIKE SAMPLE: 1050267

Parameter	Units	70173395002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	149	300	438	96	75-125	

MATRIX SPIKE SAMPLE: 1050269

Parameter	Units	70173395003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	856	1200	2100	104	75-125	

SAMPLE DUPLICATE: 1050266

Parameter	Units	70173395002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	149	152	2	

SAMPLE DUPLICATE: 1050268

Parameter	Units	70173395003 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	856	920	7	D6

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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 5/17
Pace Project No.: 70173332

QC Batch: 210386 | Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173332018, 70173332020, 70173332022, 70173332024, 70173332026, 70173332029, 70173332031, 70173332033

METHOD BLANK: 1051670 Matrix: Water
Associated Lab Samples: 70173332018, 70173332020, 70173332022, 70173332024, 70173332026, 70173332029, 70173332031, 70173332033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	05/25/21 13:35	

LABORATORY CONTROL SAMPLE: 1051671

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	548	110	85-115	

MATRIX SPIKE SAMPLE: 1051673

Parameter	Units	70173395006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	414	600	988	96	75-125	

MATRIX SPIKE SAMPLE: 1051675

Parameter	Units	70173395008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	528	600	1120	99	75-125	

SAMPLE DUPLICATE: 1051672

Parameter	Units	70173395006 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	414	416	0	

SAMPLE DUPLICATE: 1051674

Parameter	Units	70173395008 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	528	528	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 1678887
QC Batch Method: 9012B/4500 CN E2011/
Analysis Method: SM 4500-CN E-11
Analysis Description: Wet Chemistry 4500CN E-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014

METHOD BLANK: R3660637-1 Matrix: Water
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	<5.00	5.00	05/28/21 15:33	

LABORATORY CONTROL SAMPLE: R3660637-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	93.0	93.0	87.1-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3660637-3 R3660637-4

Parameter	Units	L1354696-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	ND	100	100	94.5	91.5	94.5	91.5	90.0-110	3.23	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3660637-6 R3660637-7

Parameter	Units	70173332012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	1.98	100	100	91.9	94.2	89.9	92.2	90.0-110	2.47	ML

SAMPLE DUPLICATE: R3660637-5

Parameter	Units	70173332002 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	ND	2.10J	200	D8,J

SAMPLE DUPLICATE: R3660637-8

Parameter	Units	L1356726-05 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	ND	<5.00	0.00	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 1680196
QC Batch Method: 9012B/4500 CN E2011/
Analysis Method: SM 4500-CN E-11
Analysis Description: Wet Chemistry 4500CN E-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 70173332018, 70173332020, 70173332024, 70173332026

METHOD BLANK: R3661762-1 Matrix: Water
Associated Lab Samples: 70173332018, 70173332020, 70173332024, 70173332026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	<5.00	5.00	06/01/21 15:24	

LABORATORY CONTROL SAMPLE: R3661762-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	92.9	92.9	87.1-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3661762-4 R3661762-5

Parameter	Units	L1355330-22 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	ND	100	100	92.2	82.3	92.2	82.3	90.0-110	11.3	ML

SAMPLE DUPLICATE: R3661762-3

Parameter	Units	L1355330-21 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	ND	<5.00	0.00	

SAMPLE DUPLICATE: R3661762-7

Parameter	Units	70173332026 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	ND	<5.00	0.00	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 1680197
QC Batch Method: 9012B/4500 CN E2011/
Analysis Method: SM 4500-CN E-11
Analysis Description: Wet Chemistry 4500CN E-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 70173332029, 70173332031, 70173332033

METHOD BLANK: R3661876-1 Matrix: Water
Associated Lab Samples: 70173332029, 70173332031, 70173332033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	<5.00	5.00	06/01/21 21:09	

LABORATORY CONTROL SAMPLE: R3661876-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	96.7	96.7	87.1-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3661876-4 R3661876-5

Parameter	Units	L1354802-03 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	2.20	100	100	96.5	93.7	94.3	91.5	90.0-110	2.94	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3661876-6 R3661876-7

Parameter	Units	L1355437-05 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	ND	100	100	89.1	93.3	89.1	93.3	90.0-110	4.61	ML

SAMPLE DUPLICATE: R3661876-3

Parameter	Units	L1354780-02 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	4.47	6.35	34.8	D8

SAMPLE DUPLICATE: R3661876-8

Parameter	Units	L1356913-01 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	ND	<5.00	0.00	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 1681463
QC Batch Method: 9012B/4500 CN E2011/
Analysis Method: SM 4500-CN E-11
Analysis Description: Wet Chemistry 4500CN E-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 70173332022

METHOD BLANK: R3662416-1 Matrix: Water
Associated Lab Samples: 70173332022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	<5.00	5.00	06/02/21 16:18	

LABORATORY CONTROL SAMPLE: R3662416-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	101	101	87.1-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3662416-4 R3662416-5

Parameter	Units	L1356083-06 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	ND	100	100	100	101	100	101	90.0-110	0.995	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3662416-7 R3662416-8

Parameter	Units	L1356140-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	ND	100	100	98.4	101	98.4	101	90.0-110	2.61	

SAMPLE DUPLICATE: R3662416-3

Parameter	Units	L1356083-05 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	ND	<5.00	0.00	

SAMPLE DUPLICATE: R3662416-6

Parameter	Units	L1356138-02 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	ND	<5.00	0.00	

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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 5/17
Pace Project No.: 70173332

QC Batch: 209173 | 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: 70173332002, 70173332003, 70173332014, 70173332015

METHOD BLANK: 1043264 Matrix: Water
Associated Lab Samples: 70173332002, 70173332003, 70173332014, 70173332015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	05/18/21 08:48	

LABORATORY CONTROL SAMPLE: 1043265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.20	101	85-115	

MATRIX SPIKE SAMPLE: 1043266

Parameter	Units	70173332014 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: 1043267

Parameter	Units	70173332014 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		H1

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 209195 | 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: 70173332004, 70173332005, 70173332006, 70173332007, 70173332008, 70173332009, 70173332010, 70173332011, 70173332012, 70173332013

METHOD BLANK: 1043351 Matrix: Water
Associated Lab Samples: 70173332004, 70173332005, 70173332006, 70173332007, 70173332008, 70173332009, 70173332010, 70173332011, 70173332012, 70173332013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	05/18/21 10:51	

LABORATORY CONTROL SAMPLE: 1043352

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: 1043353

Parameter	Units	70173332004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.20	100	75-125	

SAMPLE DUPLICATE: 1043354

Parameter	Units	70173332004 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 209431 | 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: 70173332018, 70173332019, 70173332020, 70173332021, 70173332022, 70173332023, 70173332024, 70173332025, 70173332026, 70173332027

METHOD BLANK: 1045380 Matrix: Water
Associated Lab Samples: 70173332018, 70173332019, 70173332020, 70173332021, 70173332022, 70173332023, 70173332024, 70173332025, 70173332026, 70173332027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	05/19/21 09:36	

LABORATORY CONTROL SAMPLE: 1045381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.20	101	85-115	

MATRIX SPIKE SAMPLE: 1045382

Parameter	Units	70173332018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.20	101	75-125	

SAMPLE DUPLICATE: 1045383

Parameter	Units	70173332018 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 209632 | 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: 70173332029, 70173332030, 70173332031, 70173332032, 70173332033, 70173332034

METHOD BLANK: 1046444 Matrix: Water
Associated Lab Samples: 70173332029, 70173332030, 70173332031, 70173332032, 70173332033, 70173332034

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	05/19/21 19:56	

LABORATORY CONTROL SAMPLE: 1046445

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: 1046446

Parameter	Units	70173613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.20	101	75-125	

SAMPLE DUPLICATE: 1046447

Parameter	Units	70173613001 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 211149
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: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014, 70173332018, 70173332020, 70173332022, 70173332024, 70173332026, 70173332029, 70173332031, 70173332033

METHOD BLANK: 1056963 Matrix: Water
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014, 70173332018, 70173332020, 70173332022, 70173332024, 70173332026, 70173332029, 70173332031, 70173332033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<5.0	5.0	05/28/21 18:37	

LABORATORY CONTROL SAMPLE: 1056964

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	10.7	107	90-110	

MATRIX SPIKE SAMPLE: 1056965

Parameter	Units	70173332026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	6.6	10	16.3	96	90-110	

MATRIX SPIKE SAMPLE: 1056967

Parameter	Units	70173609003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	24.4	10	33.6	92	90-110	

SAMPLE DUPLICATE: 1056966

Parameter	Units	70173332026 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	6.6	6.3	4	

SAMPLE DUPLICATE: 1056968

Parameter	Units	70173609003 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	24.4	24.3	0	

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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 5/17
Pace Project No.: 70173332

QC Batch: 211058
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014, 70173332018, 70173332020, 70173332022, 70173332024, 70173332026, 70173332029, 70173332031, 70173332033

METHOD BLANK: 1056457 Matrix: Water
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014, 70173332018, 70173332020, 70173332022, 70173332024, 70173332026, 70173332029, 70173332031, 70173332033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.094	06/02/21 11:36	

LABORATORY CONTROL SAMPLE: 1056458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	4.2	106	90-110	

MATRIX SPIKE SAMPLE: 1056459

Parameter	Units	70173332002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	22.4	4	27.6	129	90-110	M6

MATRIX SPIKE SAMPLE: 1056461

Parameter	Units	70173836002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.0	4	8.2	156	90-110	M1

SAMPLE DUPLICATE: 1056460

Parameter	Units	70173332002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	22.4	23.2	3	

SAMPLE DUPLICATE: 1056462

Parameter	Units	70173836002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.0	2.3	15	

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 5/17
Pace Project No.: 70173332

QC Batch: 209139 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrite, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014

METHOD BLANK: 1043145 Matrix: Water
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	05/17/21 19:52	

LABORATORY CONTROL SAMPLE: 1043146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.1	105	90-110	

MATRIX SPIKE SAMPLE: 1043147

Parameter	Units	70173304001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.49	95	90-110	

MATRIX SPIKE SAMPLE: 1043149

Parameter	Units	70173312007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	96	90-110	

SAMPLE DUPLICATE: 1043148

Parameter	Units	70173304001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1043150

Parameter	Units	70173312007 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 209369
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: 70173332018, 70173332020, 70173332022, 70173332024, 70173332026

METHOD BLANK: 1045186 Matrix: Water
Associated Lab Samples: 70173332018, 70173332020, 70173332022, 70173332024, 70173332026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	05/18/21 21:06	

LABORATORY CONTROL SAMPLE: 1045187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	100	90-110	

MATRIX SPIKE SAMPLE: 1045188

Parameter	Units	70173483001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.48	94	90-110	

MATRIX SPIKE SAMPLE: 1045190

Parameter	Units	70173451001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.78	0.5	1.3	101	90-110	

SAMPLE DUPLICATE: 1045189

Parameter	Units	70173483001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1045191

Parameter	Units	70173451001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	0.78	0.78	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 209633
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: 70173332029

METHOD BLANK: 1046528 Matrix: Water
Associated Lab Samples: 70173332029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	05/19/21 20:35	

LABORATORY CONTROL SAMPLE: 1046529

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: 1046530

Parameter	Units	70173532001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.48	96	90-110	

MATRIX SPIKE SAMPLE: 1046532

Parameter	Units	70173648001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.56	106	90-110	

SAMPLE DUPLICATE: 1046531

Parameter	Units	70173532001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1046533

Parameter	Units	70173648001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	0.031J		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 209635
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: 70173332031, 70173332033

METHOD BLANK: 1046540 Matrix: Water
Associated Lab Samples: 70173332031, 70173332033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	05/19/21 21:12	

LABORATORY CONTROL SAMPLE: 1046541

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	100	90-110	

MATRIX SPIKE SAMPLE: 1046542

Parameter	Units	70173581006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.48	96	90-110	

MATRIX SPIKE SAMPLE: 1046544

Parameter	Units	70173613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.48	94	90-110	

SAMPLE DUPLICATE: 1046543

Parameter	Units	70173581006 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1046545

Parameter	Units	70173613001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 209144 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014

METHOD BLANK: 1043191 Matrix: Water
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	05/17/21 22:30	

LABORATORY CONTROL SAMPLE: 1043192

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: 1043193

Parameter	Units	70173281001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1.3	2.5	3.9	107	90-110	

MATRIX SPIKE SAMPLE: 1043195

Parameter	Units	70173280001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.52	104	90-110	

SAMPLE DUPLICATE: 1043194

Parameter	Units	70173281001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1.3	1.4	8	

SAMPLE DUPLICATE: 1043196

Parameter	Units	70173280001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 209377
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: 70173332018, 70173332020, 70173332022

METHOD BLANK: 1045213 Matrix: Water
Associated Lab Samples: 70173332018, 70173332020, 70173332022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	05/18/21 23:04	

LABORATORY CONTROL SAMPLE: 1045214

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: 1045215

Parameter	Units	70173446001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1.1	2.5	3.7	104	90-110	

MATRIX SPIKE SAMPLE: 1045217

Parameter	Units	70173395001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.96	2.5	3.5	101	90-110	

SAMPLE DUPLICATE: 1045216

Parameter	Units	70173446001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1.1	1.1	0	

SAMPLE DUPLICATE: 1045218

Parameter	Units	70173395001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.96	0.95	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 209378
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: 70173332024, 70173332026

METHOD BLANK: 1045219 Matrix: Water
Associated Lab Samples: 70173332024, 70173332026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	05/18/21 23:40	

LABORATORY CONTROL SAMPLE: 1045220

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: 1045221

Parameter	Units	70173332024 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.49	96	90-110	

SAMPLE DUPLICATE: 1045222

Parameter	Units	70173332024 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 209639
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: 70173332029, 70173332031, 70173332033

METHOD BLANK: 1046696 Matrix: Water
Associated Lab Samples: 70173332029, 70173332031, 70173332033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	05/19/21 23:11	

LABORATORY CONTROL SAMPLE: 1046697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 1046698

Parameter	Units	70173395008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	10.3	2.5	11.7	56	90-110	M1

SAMPLE DUPLICATE: 1046699

Parameter	Units	70173395008 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	10.3	9.5	8	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 211885
QC Batch Method: EPA 420.1
Analysis Method: EPA 420.1
Analysis Description: 420.1 Phenolics Macro
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014, 70173332018, 70173332020, 70173332022, 70173332024, 70173332026, 70173332029, 70173332031, 70173332033

METHOD BLANK: 1061904 Matrix: Water
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014, 70173332018, 70173332020, 70173332022, 70173332024, 70173332026, 70173332029, 70173332031, 70173332033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	5.0	06/04/21 11:53	

LABORATORY CONTROL SAMPLE: 1061905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	100	103	103	90-110	

MATRIX SPIKE SAMPLE: 1061906

Parameter	Units	70172591018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	14.2	50	73.2	118	75-125	

SAMPLE DUPLICATE: 1061907

Parameter	Units	70172591018 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	14.2	18.3	25	D6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 211125
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: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014, 70173332018, 70173332020, 70173332022, 70173332024, 70173332026, 70173332029, 70173332031, 70173332033

METHOD BLANK: 1056761 Matrix: Water
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014, 70173332018, 70173332020, 70173332022, 70173332024, 70173332026, 70173332029, 70173332031, 70173332033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	05/28/21 15:43	

LABORATORY CONTROL SAMPLE: 1056762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	54.6	109	90-110	

MATRIX SPIKE SAMPLE: 1056763

Parameter	Units	70173791001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	<2.0	25	29.6	114	80-120	

SAMPLE DUPLICATE: 1056764

Parameter	Units	70173791001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	<2.0	<2.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 211072 | Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H | Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014, 70173332018, 70173332020, 70173332022, 70173332024, 70173332026

METHOD BLANK: 1056493 Matrix: Water
Associated Lab Samples: 70173332002, 70173332004, 70173332006, 70173332008, 70173332010, 70173332012, 70173332014, 70173332018, 70173332020, 70173332022, 70173332024, 70173332026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	05/28/21 12:19	

LABORATORY CONTROL SAMPLE: 1056494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.93	93	90-110	

MATRIX SPIKE SAMPLE: 1056495

Parameter	Units	70173332002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	17.5	10	26.4	90	75-125	

SAMPLE DUPLICATE: 1056496

Parameter	Units	70173332002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	17.5	17.5	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

QC Batch: 211074
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: 70173332029, 70173332031, 70173332033

METHOD BLANK: 1056497 Matrix: Water
Associated Lab Samples: 70173332029, 70173332031, 70173332033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	05/28/21 12:53	

LABORATORY CONTROL SAMPLE: 1056498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.93	93	90-110	

MATRIX SPIKE SAMPLE: 1056499

Parameter	Units	70173609002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	0.94	90	75-125	

SAMPLE DUPLICATE: 1056500

Parameter	Units	70173609002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		

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REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
D8	The sample and duplicate results for this parameter are less than 5 times the reporting limit, the RPD may not be statistically valid.
H1	Analysis conducted outside the EPA method holding time.
H1	Analysis conducted outside the recognized method holding time.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70173332002	OBS-1_5/17/2021	EPA 200.7	211016	EPA 200.7	211051
70173332004	MW-09C_5/17/21	EPA 200.7	211016	EPA 200.7	211051
70173332006	MW-09B_5/17/21	EPA 200.7	211016	EPA 200.7	211051
70173332008	MW-05B_5/17/21	EPA 200.7	211016	EPA 200.7	211051
70173332010	MW-08B_5/17/21	EPA 200.7	211016	EPA 200.7	211051
70173332012	MW-08A_5/17/21	EPA 200.7	211016	EPA 200.7	211051
70173332014	BLIND DUPLICATE-1_5/17/21	EPA 200.7	211016	EPA 200.7	211051
70173332018	MW-6C_5/18/21	EPA 200.7	211016	EPA 200.7	211051
70173332020	MW-6F_5/18/21	EPA 200.7	211016	EPA 200.7	211051
70173332022	MW-6E_5/18/21	EPA 200.7	211016	EPA 200.7	211051
70173332024	MW-6B_5/18/21	EPA 200.7	211016	EPA 200.7	211051
70173332026	MW-6A_5/18/21	EPA 200.7	211016	EPA 200.7	211051
70173332029	LF-1_5/19/2021	EPA 200.7	211016	EPA 200.7	211051
70173332031	LF-2_5/19/2021	EPA 200.7	211016	EPA 200.7	211051
70173332033	FIELD BLANK_5/19/2021	EPA 200.7	211016	EPA 200.7	211051
70173332003	OBS-1_5/17/2021 DISS	EPA 200.7	209422		
70173332005	MW-09C_5/17/21 DISS	EPA 200.7	209422		
70173332007	MW-09B_5/17/21 DISS	EPA 200.7	209422		
70173332009	MW-05B_5/17/21 DISS	EPA 200.7	209422		
70173332011	MW-08B_5/17/21 DISS	EPA 200.7	209422		
70173332013	MW-08A_5/17/21 DISS	EPA 200.7	209422		
70173332015	BLIND DUPLICATE-1_5/17/21 DISS	EPA 200.7	209422		
70173332019	MW-6C_5/18/21 DISS	EPA 200.7	210343		
70173332021	MW-6F_5/18/21 DISS	EPA 200.7	210343		
70173332023	MW-6E_5/18/21 DISS	EPA 200.7	210343		
70173332025	MW-6B_5/18/21 DISS	EPA 200.7	210343		
70173332027	MW-6A_5/18/21 DISS	EPA 200.7	210343		
70173332030	LF-1_5/19/2021 DISS	EPA 200.7	210343		
70173332032	LF-2_5/19/2021 DISS	EPA 200.7	210343		
70173332034	FIELD BLANK_5/19/2021 DISS	EPA 200.7	210343		
70173332002	OBS-1_5/17/2021	SM22 2340B	211505		
70173332004	MW-09C_5/17/21	SM22 2340B	211505		
70173332006	MW-09B_5/17/21	SM22 2340B	211505		
70173332008	MW-05B_5/17/21	SM22 2340B	211505		
70173332010	MW-08B_5/17/21	SM22 2340B	211505		
70173332012	MW-08A_5/17/21	SM22 2340B	211505		
70173332014	BLIND DUPLICATE-1_5/17/21	SM22 2340B	211505		
70173332018	MW-6C_5/18/21	SM22 2340B	211505		
70173332020	MW-6F_5/18/21	SM22 2340B	211505		
70173332022	MW-6E_5/18/21	SM22 2340B	211505		
70173332024	MW-6B_5/18/21	SM22 2340B	211505		
70173332026	MW-6A_5/18/21	SM22 2340B	211505		
70173332029	LF-1_5/19/2021	SM22 2340B	211505		
70173332031	LF-2_5/19/2021	SM22 2340B	211505		
70173332033	FIELD BLANK_5/19/2021	SM22 2340B	211505		
70173332002	OBS-1_5/17/2021	EPA 245.1	210345	EPA 245.1	210414

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70173332004	MW-09C_5/17/21	EPA 245.1	210345	EPA 245.1	210414
70173332006	MW-09B_5/17/21	EPA 245.1	210345	EPA 245.1	210414
70173332008	MW-05B_5/17/21	EPA 245.1	210345	EPA 245.1	210414
70173332010	MW-08B_5/17/21	EPA 245.1	210345	EPA 245.1	210414
70173332012	MW-08A_5/17/21	EPA 245.1	210345	EPA 245.1	210414
70173332014	BLIND DUPLICATE-1_5/17/21	EPA 245.1	210345	EPA 245.1	210414
70173332018	MW-6C_5/18/21	EPA 245.1	210345	EPA 245.1	210414
70173332020	MW-6F_5/18/21	EPA 245.1	210345	EPA 245.1	210414
70173332022	MW-6E_5/18/21	EPA 245.1	210345	EPA 245.1	210414
70173332024	MW-6B_5/18/21	EPA 245.1	210345	EPA 245.1	210414
70173332026	MW-6A_5/18/21	EPA 245.1	210345	EPA 245.1	210414
70173332029	LF-1_5/19/2021	EPA 245.1	210345	EPA 245.1	210414
70173332031	LF-2_5/19/2021	EPA 245.1	210345	EPA 245.1	210414
70173332033	FIELD BLANK_5/19/2021	EPA 245.1	210345	EPA 245.1	210414
70173332003	OBS-1_5/17/2021 DISS	EPA 245.1	210347	EPA 245.1	210415
70173332005	MW-09C_5/17/21 DISS	EPA 245.1	210347	EPA 245.1	210415
70173332007	MW-09B_5/17/21 DISS	EPA 245.1	210347	EPA 245.1	210415
70173332009	MW-05B_5/17/21 DISS	EPA 245.1	210347	EPA 245.1	210415
70173332011	MW-08B_5/17/21 DISS	EPA 245.1	210347	EPA 245.1	210415
70173332013	MW-08A_5/17/21 DISS	EPA 245.1	210347	EPA 245.1	210415
70173332015	BLIND DUPLICATE-1_5/17/21 DISS	EPA 245.1	210347	EPA 245.1	210415
70173332019	MW-6C_5/18/21 DISS	EPA 245.1	210347	EPA 245.1	210415
70173332021	MW-6F_5/18/21 DISS	EPA 245.1	210347	EPA 245.1	210415
70173332023	MW-6E_5/18/21 DISS	EPA 245.1	210347	EPA 245.1	210415
70173332025	MW-6B_5/18/21 DISS	EPA 245.1	210347	EPA 245.1	210415
70173332027	MW-6A_5/18/21 DISS	EPA 245.1	210347	EPA 245.1	210415
70173332030	LF-1_5/19/2021 DISS	EPA 245.1	210347	EPA 245.1	210415
70173332032	LF-2_5/19/2021 DISS	EPA 245.1	210347	EPA 245.1	210415
70173332034	FIELD BLANK_5/19/2021 DISS	EPA 245.1	210347	EPA 245.1	210415
70173332001	TRIP BLANK_5/17/2021	EPA 8260C/5030C	210112		
70173332002	OBS-1_5/17/2021	EPA 8260C/5030C	210112		
70173332004	MW-09C_5/17/21	EPA 8260C/5030C	210112		
70173332006	MW-09B_5/17/21	EPA 8260C/5030C	210112		
70173332008	MW-05B_5/17/21	EPA 8260C/5030C	210112		
70173332010	MW-08B_5/17/21	EPA 8260C/5030C	210112		
70173332012	MW-08A_5/17/21	EPA 8260C/5030C	210112		
70173332014	BLIND DUPLICATE-1_5/17/21	EPA 8260C/5030C	210112		
70173332016	STORAGE BLANK	EPA 8260C/5030C	210112		
70173332017	TRIP BLANK_5/18/21	EPA 8260C/5030C	210112		
70173332018	MW-6C_5/18/21	EPA 8260C/5030C	210112		
70173332020	MW-6F_5/18/21	EPA 8260C/5030C	210112		
70173332022	MW-6E_5/18/21	EPA 8260C/5030C	210112		
70173332024	MW-6B_5/18/21	EPA 8260C/5030C	210112		
70173332026	MW-6A_5/18/21	EPA 8260C/5030C	210112		
70173332028	TRIP BLANK_5/19/2021	EPA 8260C/5030C	210112		
70173332029	LF-1_5/19/2021	EPA 8260C/5030C	210112		
70173332031	LF-2_5/19/2021	EPA 8260C/5030C	210112		

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70173332033	FIELD BLANK_5/19/2021	EPA 8260C/5030C	210112		
70173332002	OBS-1_5/17/2021	SM22 2320B	210813		
70173332004	MW-09C_5/17/21	SM22 2320B	210813		
70173332006	MW-09B_5/17/21	SM22 2320B	210813		
70173332008	MW-05B_5/17/21	SM22 2320B	210813		
70173332010	MW-08B_5/17/21	SM22 2320B	210813		
70173332012	MW-08A_5/17/21	SM22 2320B	210813		
70173332014	BLIND DUPLICATE-1_5/17/21	SM22 2320B	210813		
70173332018	MW-6C_5/18/21	SM22 2320B	210928		
70173332020	MW-6F_5/18/21	SM22 2320B	210928		
70173332022	MW-6E_5/18/21	SM22 2320B	210928		
70173332026	MW-6A_5/18/21	SM22 2320B	210928		
70173332029	LF-1_5/19/2021	SM22 2320B	210968		
70173332033	FIELD BLANK_5/19/2021	SM22 2320B	210968		
70173332024	MW-6B_5/18/21	SM22 2320B	211144		
70173332031	LF-2_5/19/2021	SM22 2320B	211144		
70173332002	OBS-1_5/17/2021	SM22 2540C	210166		
70173332004	MW-09C_5/17/21	SM22 2540C	210166		
70173332006	MW-09B_5/17/21	SM22 2540C	210166		
70173332008	MW-05B_5/17/21	SM22 2540C	210166		
70173332010	MW-08B_5/17/21	SM22 2540C	210166		
70173332012	MW-08A_5/17/21	SM22 2540C	210166		
70173332014	BLIND DUPLICATE-1_5/17/21	SM22 2540C	210166		
70173332018	MW-6C_5/18/21	SM22 2540C	210386		
70173332020	MW-6F_5/18/21	SM22 2540C	210386		
70173332022	MW-6E_5/18/21	SM22 2540C	210386		
70173332024	MW-6B_5/18/21	SM22 2540C	210386		
70173332026	MW-6A_5/18/21	SM22 2540C	210386		
70173332029	LF-1_5/19/2021	SM22 2540C	210386		
70173332031	LF-2_5/19/2021	SM22 2540C	210386		
70173332033	FIELD BLANK_5/19/2021	SM22 2540C	210386		
70173332002	OBS-1_5/17/2021	9012B/4500 CN E2011/	1678887	SM 4500-CN E-11	1678887
70173332004	MW-09C_5/17/21	9012B/4500 CN E2011/	1678887	SM 4500-CN E-11	1678887
70173332006	MW-09B_5/17/21	9012B/4500 CN E2011/	1678887	SM 4500-CN E-11	1678887
70173332008	MW-05B_5/17/21	9012B/4500 CN E2011/	1678887	SM 4500-CN E-11	1678887
70173332010	MW-08B_5/17/21	9012B/4500 CN E2011/	1678887	SM 4500-CN E-11	1678887
70173332012	MW-08A_5/17/21	9012B/4500 CN E2011/	1678887	SM 4500-CN E-11	1678887
70173332014	BLIND DUPLICATE-1_5/17/21	9012B/4500 CN E2011/	1678887	SM 4500-CN E-11	1678887
70173332018	MW-6C_5/18/21	9012B/4500 CN E2011/	1680196	SM 4500-CN E-11	1680196
70173332020	MW-6F_5/18/21	9012B/4500 CN E2011/	1680196	SM 4500-CN E-11	1680196
70173332022	MW-6E_5/18/21	9012B/4500 CN E2011/	1681463	SM 4500-CN E-11	1681463
70173332024	MW-6B_5/18/21	9012B/4500 CN E2011/	1680196	SM 4500-CN E-11	1680196
70173332026	MW-6A_5/18/21	9012B/4500 CN E2011/	1680196	SM 4500-CN E-11	1680196

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70173332029	**LF-1_5/19/2021**	9012B/4500 CN E2011/	1680197	SM 4500-CN E-11	1680197
70173332031	**LF-2_5/19/2021**	9012B/4500 CN E2011/	1680197	SM 4500-CN E-11	1680197
70173332033	**FIELD BLANK_5/19/2021**	9012B/4500 CN E2011/	1680197	SM 4500-CN E-11	1680197
70173332002	**OBS-1_5/17/2021**	SM22 3500-Cr B	209173		
70173332003	**OBS-1_5/17/2021 DISS**	SM22 3500-Cr B	209173		
70173332004	**MW-09C_5/17/21**	SM22 3500-Cr B	209195		
70173332005	**MW-09C_5/17/21 DISS**	SM22 3500-Cr B	209195		
70173332006	**MW-09B_5/17/21**	SM22 3500-Cr B	209195		
70173332007	**MW-09B_5/17/21 DISS**	SM22 3500-Cr B	209195		
70173332008	**MW-05B_5/17/21**	SM22 3500-Cr B	209195		
70173332009	**MW-05B_5/17/21 DISS**	SM22 3500-Cr B	209195		
70173332010	**MW-08B_5/17/21**	SM22 3500-Cr B	209195		
70173332011	**MW-08B_5/17/21 DISS**	SM22 3500-Cr B	209195		
70173332012	**MW-08A_5/17/21**	SM22 3500-Cr B	209195		
70173332013	**MW-08A_5/17/21 DISS**	SM22 3500-Cr B	209195		
70173332014	**BLIND DUPLICATE-1_5/17/21**	SM22 3500-Cr B	209173		
70173332015	**BLIND DUPLICATE-1_5/17/21 DISS**	SM22 3500-Cr B	209173		
70173332018	**MW-6C_5/18/21**	SM22 3500-Cr B	209431		
70173332019	**MW-6C_5/18/21 DISS**	SM22 3500-Cr B	209431		
70173332020	**MW-6F_5/18/21**	SM22 3500-Cr B	209431		
70173332021	**MW-6F_5/18/21 DISS**	SM22 3500-Cr B	209431		
70173332022	**MW-6E_5/18/21**	SM22 3500-Cr B	209431		
70173332023	**MW-6E_5/18/21 DISS**	SM22 3500-Cr B	209431		
70173332024	**MW-6B_5/18/21**	SM22 3500-Cr B	209431		
70173332025	**MW-6B_5/18/21 DISS**	SM22 3500-Cr B	209431		
70173332026	**MW-6A_5/18/21**	SM22 3500-Cr B	209431		
70173332027	**MW-6A_5/18/21 DISS**	SM22 3500-Cr B	209431		
70173332029	**LF-1_5/19/2021**	SM22 3500-Cr B	209632		
70173332030	**LF-1_5/19/2021 DISS**	SM22 3500-Cr B	209632		
70173332031	**LF-2_5/19/2021**	SM22 3500-Cr B	209632		
70173332032	**LF-2_5/19/2021 DISS**	SM22 3500-Cr B	209632		
70173332033	**FIELD BLANK_5/19/2021**	SM22 3500-Cr B	209632		
70173332034	**FIELD BLANK_5/19/2021 DISS**	SM22 3500-Cr B	209632		
70173332002	**OBS-1_5/17/2021**	EPA 300.0	211149		
70173332004	**MW-09C_5/17/21**	EPA 300.0	211149		
70173332006	**MW-09B_5/17/21**	EPA 300.0	211149		
70173332008	**MW-05B_5/17/21**	EPA 300.0	211149		
70173332010	**MW-08B_5/17/21**	EPA 300.0	211149		
70173332012	**MW-08A_5/17/21**	EPA 300.0	211149		
70173332014	**BLIND DUPLICATE-1_5/17/21**	EPA 300.0	211149		
70173332018	**MW-6C_5/18/21**	EPA 300.0	211149		
70173332020	**MW-6F_5/18/21**	EPA 300.0	211149		
70173332022	**MW-6E_5/18/21**	EPA 300.0	211149		
70173332024	**MW-6B_5/18/21**	EPA 300.0	211149		
70173332026	**MW-6A_5/18/21**	EPA 300.0	211149		

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70173332029	LF-1_5/19/2021	EPA 300.0	211149		
70173332031	LF-2_5/19/2021	EPA 300.0	211149		
70173332033	FIELD BLANK_5/19/2021	EPA 300.0	211149		
70173332002	OBS-1_5/17/2021	EPA 351.2	211058	EPA 351.2	211063
70173332004	MW-09C_5/17/21	EPA 351.2	211058	EPA 351.2	211063
70173332006	MW-09B_5/17/21	EPA 351.2	211058	EPA 351.2	211063
70173332008	MW-05B_5/17/21	EPA 351.2	211058	EPA 351.2	211063
70173332010	MW-08B_5/17/21	EPA 351.2	211058	EPA 351.2	211063
70173332012	MW-08A_5/17/21	EPA 351.2	211058	EPA 351.2	211063
70173332014	BLIND DUPLICATE-1_5/17/21	EPA 351.2	211058	EPA 351.2	211063
70173332018	MW-6C_5/18/21	EPA 351.2	211058	EPA 351.2	211063
70173332020	MW-6F_5/18/21	EPA 351.2	211058	EPA 351.2	211063
70173332022	MW-6E_5/18/21	EPA 351.2	211058	EPA 351.2	211063
70173332024	MW-6B_5/18/21	EPA 351.2	211058	EPA 351.2	211063
70173332026	MW-6A_5/18/21	EPA 351.2	211058	EPA 351.2	211063
70173332029	LF-1_5/19/2021	EPA 351.2	211058	EPA 351.2	211063
70173332031	LF-2_5/19/2021	EPA 351.2	211058	EPA 351.2	211063
70173332033	FIELD BLANK_5/19/2021	EPA 351.2	211058	EPA 351.2	211063
70173332002	OBS-1_5/17/2021	EPA 353.2	209144		
70173332004	MW-09C_5/17/21	EPA 353.2	209144		
70173332006	MW-09B_5/17/21	EPA 353.2	209144		
70173332008	MW-05B_5/17/21	EPA 353.2	209144		
70173332010	MW-08B_5/17/21	EPA 353.2	209144		
70173332012	MW-08A_5/17/21	EPA 353.2	209144		
70173332014	BLIND DUPLICATE-1_5/17/21	EPA 353.2	209144		
70173332018	MW-6C_5/18/21	EPA 353.2	209377		
70173332020	MW-6F_5/18/21	EPA 353.2	209377		
70173332022	MW-6E_5/18/21	EPA 353.2	209377		
70173332024	MW-6B_5/18/21	EPA 353.2	209378		
70173332026	MW-6A_5/18/21	EPA 353.2	209378		
70173332029	LF-1_5/19/2021	EPA 353.2	209639		
70173332031	LF-2_5/19/2021	EPA 353.2	209639		
70173332033	FIELD BLANK_5/19/2021	EPA 353.2	209639		
70173332002	OBS-1_5/17/2021	EPA 353.2	209139		
70173332004	MW-09C_5/17/21	EPA 353.2	209139		
70173332006	MW-09B_5/17/21	EPA 353.2	209139		
70173332008	MW-05B_5/17/21	EPA 353.2	209139		
70173332010	MW-08B_5/17/21	EPA 353.2	209139		
70173332012	MW-08A_5/17/21	EPA 353.2	209139		
70173332014	BLIND DUPLICATE-1_5/17/21	EPA 353.2	209139		
70173332018	MW-6C_5/18/21	EPA 353.2	209369		
70173332020	MW-6F_5/18/21	EPA 353.2	209369		
70173332022	MW-6E_5/18/21	EPA 353.2	209369		
70173332024	MW-6B_5/18/21	EPA 353.2	209369		
70173332026	MW-6A_5/18/21	EPA 353.2	209369		

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70173332029	LF-1_5/19/2021	EPA 353.2	209633		
70173332031	LF-2_5/19/2021	EPA 353.2	209635		
70173332033	FIELD BLANK_5/19/2021	EPA 353.2	209635		
70173332002	OBS-1_5/17/2021	EPA 420.1	211885	EPA 420.1	211965
70173332004	MW-09C_5/17/21	EPA 420.1	211885	EPA 420.1	211965
70173332006	MW-09B_5/17/21	EPA 420.1	211885	EPA 420.1	211965
70173332008	MW-05B_5/17/21	EPA 420.1	211885	EPA 420.1	211965
70173332010	MW-08B_5/17/21	EPA 420.1	211885	EPA 420.1	211965
70173332012	MW-08A_5/17/21	EPA 420.1	211885	EPA 420.1	211965
70173332014	BLIND DUPLICATE-1_5/17/21	EPA 420.1	211885	EPA 420.1	211965
70173332018	MW-6C_5/18/21	EPA 420.1	211885	EPA 420.1	211965
70173332020	MW-6F_5/18/21	EPA 420.1	211885	EPA 420.1	211965
70173332022	MW-6E_5/18/21	EPA 420.1	211885	EPA 420.1	211965
70173332024	MW-6B_5/18/21	EPA 420.1	211885	EPA 420.1	211965
70173332026	MW-6A_5/18/21	EPA 420.1	211885	EPA 420.1	211965
70173332029	LF-1_5/19/2021	EPA 420.1	211885	EPA 420.1	211965
70173332031	LF-2_5/19/2021	EPA 420.1	211885	EPA 420.1	211965
70173332033	FIELD BLANK_5/19/2021	EPA 420.1	211885	EPA 420.1	211965
70173332002	OBS-1_5/17/2021	SM22 4500-Cl-E	211125		
70173332004	MW-09C_5/17/21	SM22 4500-Cl-E	211125		
70173332006	MW-09B_5/17/21	SM22 4500-Cl-E	211125		
70173332008	MW-05B_5/17/21	SM22 4500-Cl-E	211125		
70173332010	MW-08B_5/17/21	SM22 4500-Cl-E	211125		
70173332012	MW-08A_5/17/21	SM22 4500-Cl-E	211125		
70173332014	BLIND DUPLICATE-1_5/17/21	SM22 4500-Cl-E	211125		
70173332018	MW-6C_5/18/21	SM22 4500-Cl-E	211125		
70173332020	MW-6F_5/18/21	SM22 4500-Cl-E	211125		
70173332022	MW-6E_5/18/21	SM22 4500-Cl-E	211125		
70173332024	MW-6B_5/18/21	SM22 4500-Cl-E	211125		
70173332026	MW-6A_5/18/21	SM22 4500-Cl-E	211125		
70173332029	LF-1_5/19/2021	SM22 4500-Cl-E	211125		
70173332031	LF-2_5/19/2021	SM22 4500-Cl-E	211125		
70173332033	FIELD BLANK_5/19/2021	SM22 4500-Cl-E	211125		
70173332002	OBS-1_5/17/2021	SM22 4500 NH3 H	211072		
70173332004	MW-09C_5/17/21	SM22 4500 NH3 H	211072		
70173332006	MW-09B_5/17/21	SM22 4500 NH3 H	211072		
70173332008	MW-05B_5/17/21	SM22 4500 NH3 H	211072		
70173332010	MW-08B_5/17/21	SM22 4500 NH3 H	211072		
70173332012	MW-08A_5/17/21	SM22 4500 NH3 H	211072		
70173332014	BLIND DUPLICATE-1_5/17/21	SM22 4500 NH3 H	211072		
70173332018	MW-6C_5/18/21	SM22 4500 NH3 H	211072		
70173332020	MW-6F_5/18/21	SM22 4500 NH3 H	211072		
70173332022	MW-6E_5/18/21	SM22 4500 NH3 H	211072		
70173332024	MW-6B_5/18/21	SM22 4500 NH3 H	211072		
70173332026	MW-6A_5/18/21	SM22 4500 NH3 H	211072		
70173332029	LF-1_5/19/2021	SM22 4500 NH3 H	211074		

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 5/17
Pace Project No.: 70173332

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70173332031	**LF-2_5/19/2021**	SM22 4500 NH3 H	211074		
70173332033	**FIELD BLANK_5/19/2021**	SM22 4500 NH3 H	211074		

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CHAIN-OF-CUSTODY / Analytical Request Docu[ment]

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be c[ompleted accurately.]

WO# : 70173332

70173332

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 - First Semiannual 2021

Section C
Invoice Information:

Attention:	Russo, Matt
Company Name:	Town of Oyster Bay
Address:	150 Miller Place, Syosset NY 11791
Pace Quote:	
Pace Project Manager:	nicolette.lovari@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): N N N N N N N 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 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 and dissolved metals (Field Filtered for dissolved metals and CR+6)
1	Trip Blank_5/17/2021	WT	AQ	5/17/21	—	5/17/21	—		2	-	-	-	2	-	-	-	-		✓	—	—	—	—	—	—	—	N	001
2	DBS-1_5/17/2021	WT	G	5/17/21	0915a	5/17/21	—		8	2	1	2	2	1	—	—	—		✓	✓	✓	✓	✓	✓	✓	✓	N	002/003
3	MW-09C_5/17/21	WT	G	5/17/21	1125a	5/17/21	—		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	004/005
4	MW-09B_5/17/21	WT	G	5/17/21	1215p	5/17/21	—		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	006/007
5	MW-05B_5/17/21	WT	G	5/17/21	110p	5/17/21	—		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	008/009
6	MW-08B_5/17/21	WT	G	5/17/21	400p	5/17/21	—		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	010/011
7	MW-08A_5/17/21	WT	G	5/17/21	450p	5/17/21	—		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	012/013
8	Blind Duplicate-1_5/17/21	WT	G	5/17/21	0000	5/17/21	—		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓	N	014/015
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill, Field filtering for dissolved metals and "CR+6" designated with an "F"	Keith Robins / D&B	5-17-2021	1724	[signature]	5/17/21	1727	5.1	Y	N	Y

Provide Category "B" and EQuIS deliverables. Send data to ... db-eng.com

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith Robins

SIGNATURE of SAMPLER: Keith Robins

DATE Signed: 5-17-2021

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

Pace Analytical®

Sample Condition Upon Rec

WO#: 70173332

PM: NML **Due Date: 06/02/21**

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Thermometer Used: TH097 Correction Factor: +0.0

Cooler Temperature(°C): 5.1 Cooler Temperature Corrected(°C): 5.1

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: 5/17/21 JP

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	☑ 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 # HC025486				
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). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☑ Yes	☐ No	☐ N/A	14.
KI starch test strips Lot # 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 # SG0125				
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.

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Do

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields mus

WO#: 70173332

PM: NML **Due Date: 05/28/21**

CLIENT: TOY

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Town of Oyster Bay	Report To:	Russo, Matt	Attention:	Russo, Matt
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 1179
Email:	mrusso@tobays.net	Purchase Order #:		Pace Quote:	
Phone:	NONE Fax:	Project Name:	Old Bethpage Landfill	Pace Project Manager:	nicolette.lovari@pacelabs.com,
Requested Due Date:	Standard	Project #:	3617 - First Semiannual 2021	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		
1	Trip Blank_5/13/21	WT	AQ	5/13/21	—	5/13/21	—		2	—	—	—	2	—	—	—	—		✓	—	—	—	—	—	—		N	017
2	MW-06C_5/18/21	WT	G	5/18/21	0940am	5/18/21	—		8	2	1	2	2	1	—	—	—		✓	✓	✓	✓	✓	✓	✓	✓	N	018/019
3	MW-06F_5/18/21	WT	G	5/18/21	1105am	5/18/21	—		8	2	1	2	2	1	—	—	—		✓	✓	✓	✓	✓	✓	✓	✓	N	020/021
4	MW-06E_5/18/21	WT	G	5/18/21	1115am	5/18/21	—		8	2	1	2	2	1	—	—	—		✓	✓	✓	✓	✓	✓	✓	✓	N	022/023
5	MW-06B_5/18/21	WT	G	5/18/21	2350pm	5/18/21	—		8	2	1	2	2	1	—	—	—		✓	✓	✓	✓	✓	✓	✓	✓	N	024/025
6	MW-06A_5/18/21	WT	G	5/18/21	320pm	5/18/21	—		8	2	1	2	2	1	—	—	—		✓	✓	✓	✓	✓	✓	✓	✓	N	026/027
7																												
8																												
9																												
10																												
11																												
12																												

VOCs, leachate indicators, total and 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 Bottle denoted with "F" were field filtered for dissolved metals and CR+6 Send data to Lab data @dbeng.com Provide Category "B" and EQuIS Deliverables	Keith Robins / D+B	5-18-21	16:36	[signature] Pace	5/18/21	16:36	4.1	Y	N	Y

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: 5-18-21				

Pace Analytical®

Sample Condition Upon Rec

WO#: 70173332
PM: NML Due Date: 05/28/21
CLIENT: TOY

Client Name: TOY Projec

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other
Tracking #:
Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other
Thermometer Used: T1091 Correction Factor: +0.0
Cooler Temperature(°C): 4.1 Cooler Temperature Corrected(°C): 4.1
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: 5/18/21 JP

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	☑ 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 # HC025486				
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). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☑ Yes	☐ No	☐ N/A	14.
KI starch test strips Lot # 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 # S60125				
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.

![Pace Analytical] www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Docum[ent]

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be co[mpleted accurately.]

WO#: 70173332
PM: NML Due Date: 05/28/21
CLIENT: TOY

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		Dvirka + Bartilucci Engineers	Address:	150 Miller Place, Syosset NY
Email:	mrusso@tobays.net	Purchase Order #:		Pace Quote:	
Phone:	NONE Fax:	Project Name:	Old Bethpage Landfill	Pace Project Manager:	nicolette.lovari@pacelabs.com,
Requested Due Date:	Standard	Project #:	3617 - First Semiannual 2021 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): 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 (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	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)	
1	Trip Blank - 5/19/2021	WT	-	5/19/21	-	5/19/21	-		2	-	-	-	2	-	-	-	-		✓	-	-	-	-	-	-	-					N	028
2	LF-1 - 5/19/2021	WT	G	5/19/21	120 pm	5/19/21	-		9	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓					N	collected at 120 pm 029/030
3	LF-2 - 5/19/2021	WT	G	5/19/21	1020	5/19/21	-		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓					N	collected at 1020 am 031/032
4	Field Blank - 5/19/2021	WT	G	5/19/21	145 pm	5/19/21	-		8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓					N	033/034
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill Sample bottles denoted with "F" were field filtered for Dissolved Metals and CR+6. Provide Category B and EQuIS deliverables, send data to Lab data @db-eng.com	Keith Robins / D&B	5/19/2021	304 pm	[signature]	5/19/21	1505	1.7	W	N	Y
							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: 5-19-2021

(JOB Completed)

Sample Condition Upon Receipt

Pace Analytical®

WO#: 70173332

PM: NML **Due Date: 05/28/21**

CLIENT: TOY

Client Name: Town of Oyster Bay Project

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 1.7 Cooler Temperature Corrected(°C): 1.7

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: CH 5/19/21

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	☑ 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 # H-049002				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				
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

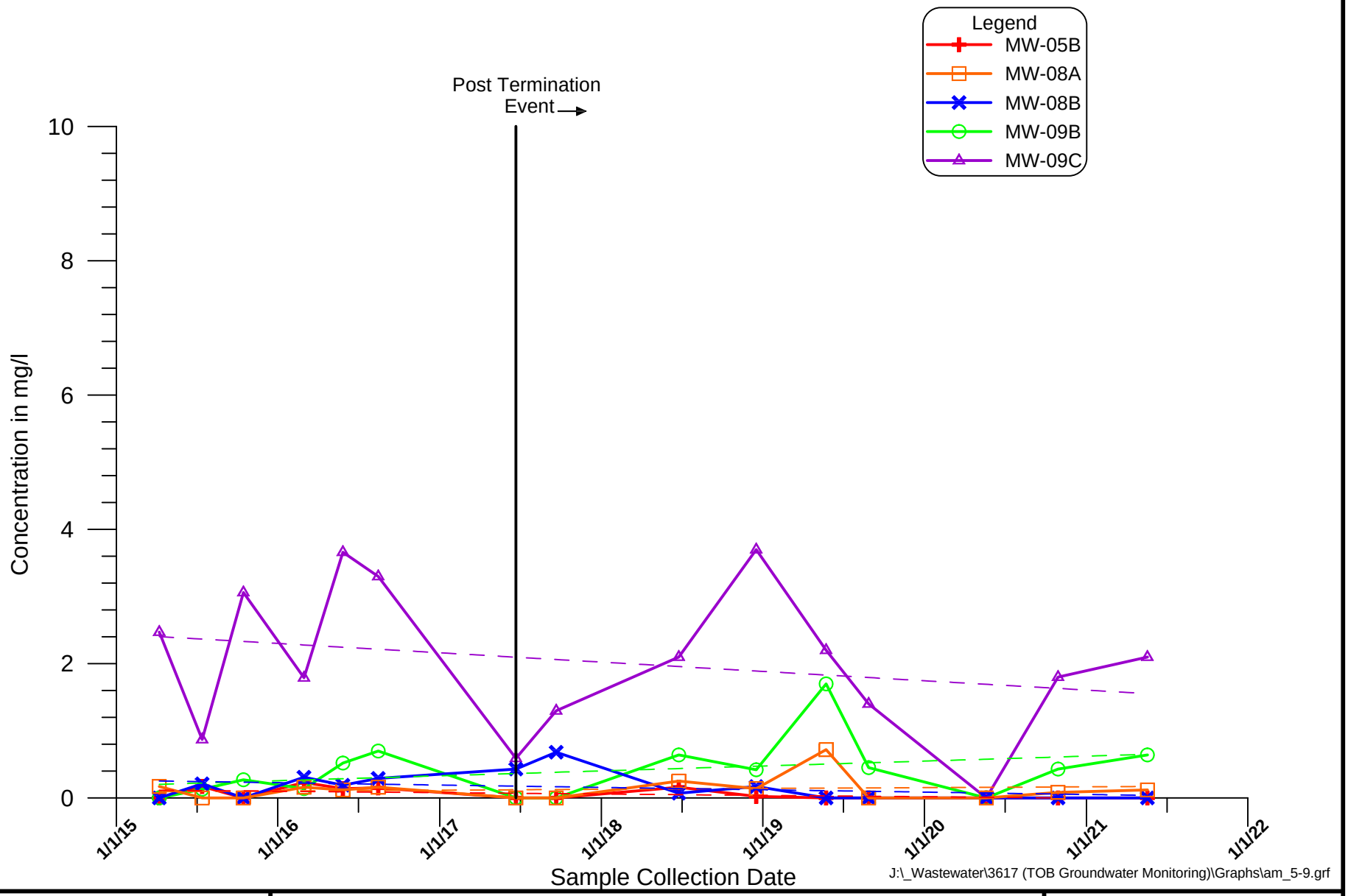
Person Contacted: Date/Time:

Comments/ Resolution:

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

APPENDIX E

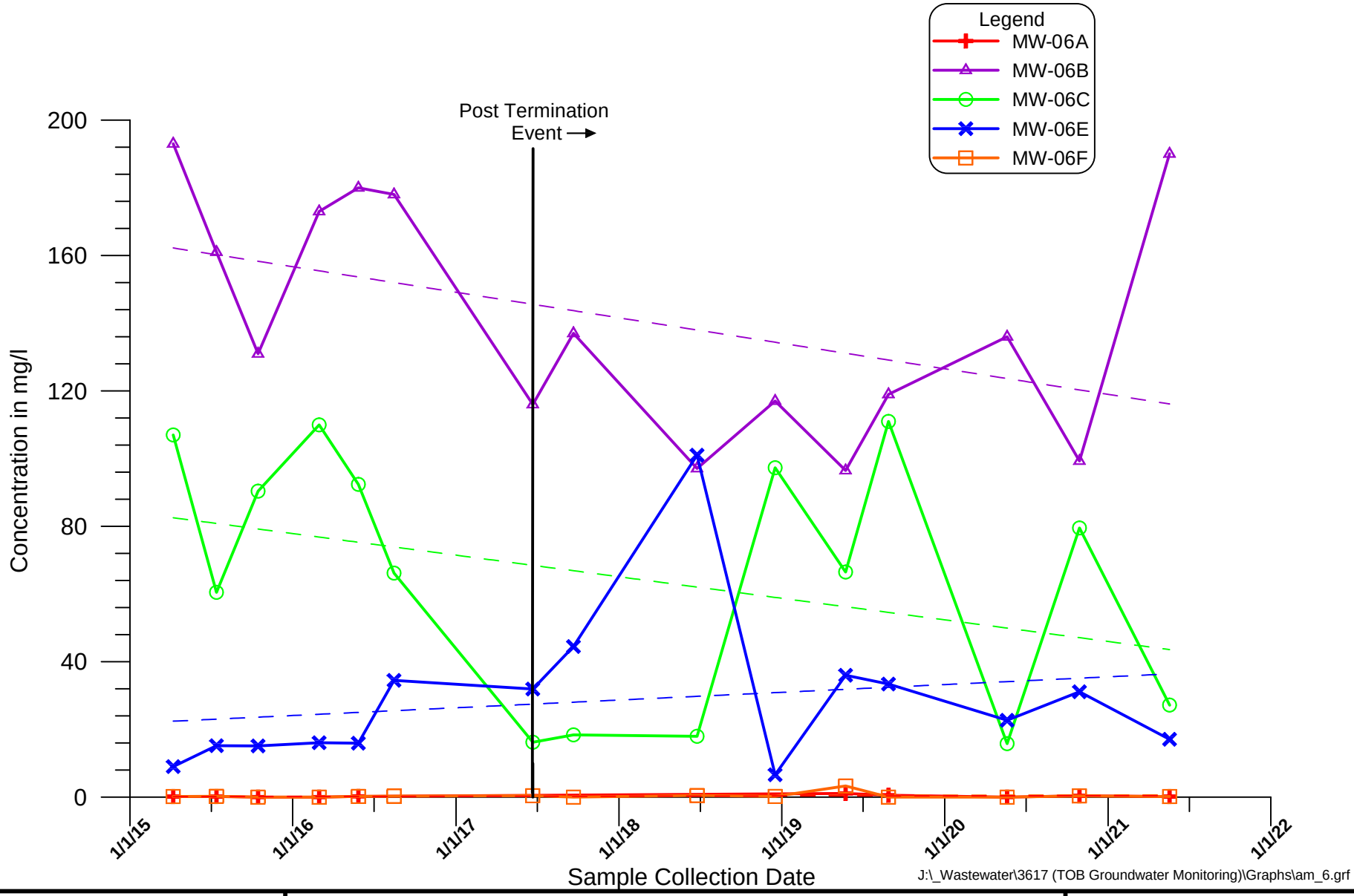
POST-TERMINATION HISTORICAL GROUNDWATER TREND GRAPHS



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Ammonia
Data for Monitoring Wells 5, 8, & 9

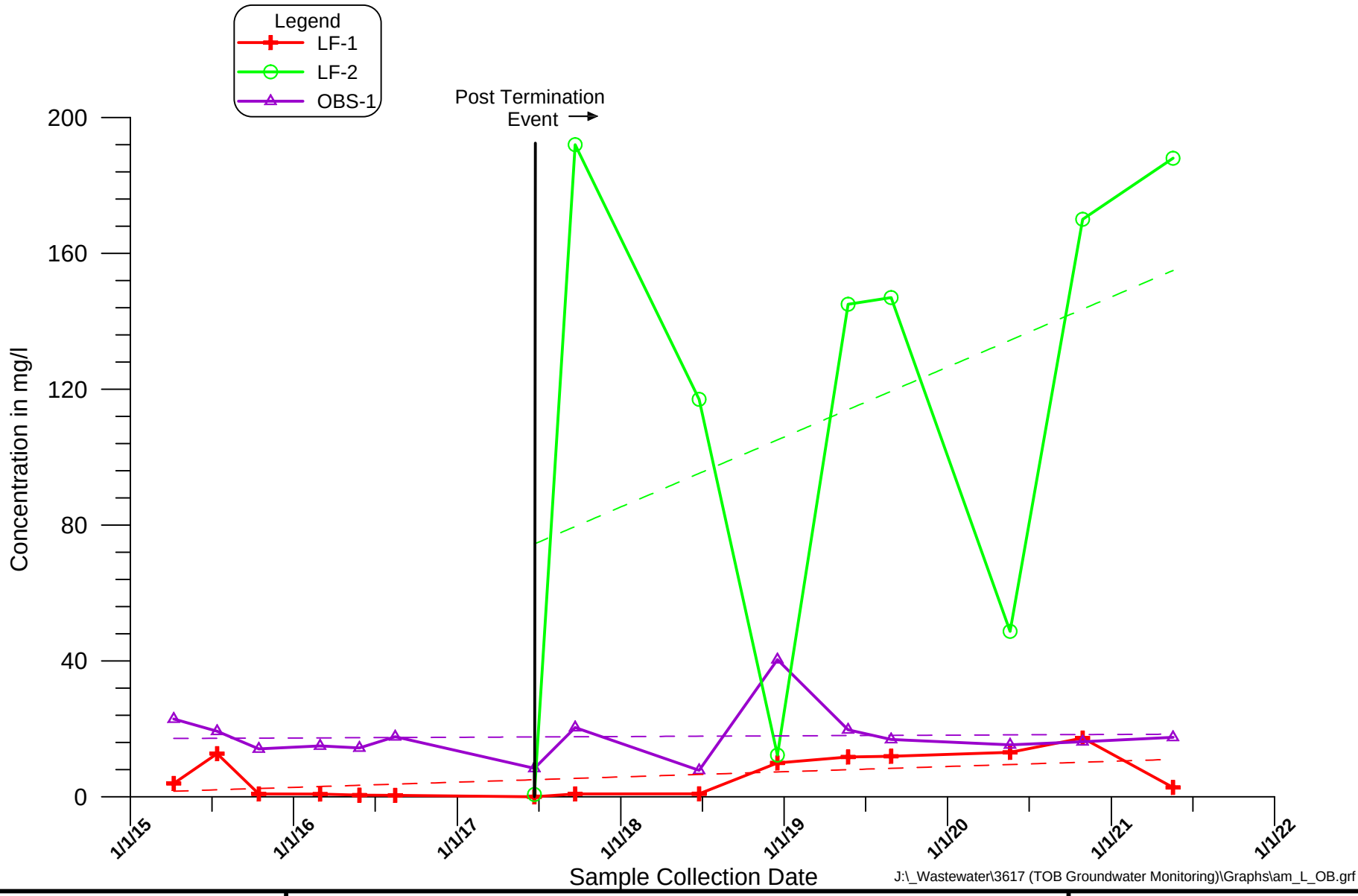
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Ammonia
Data for Monitoring Well Cluster 6

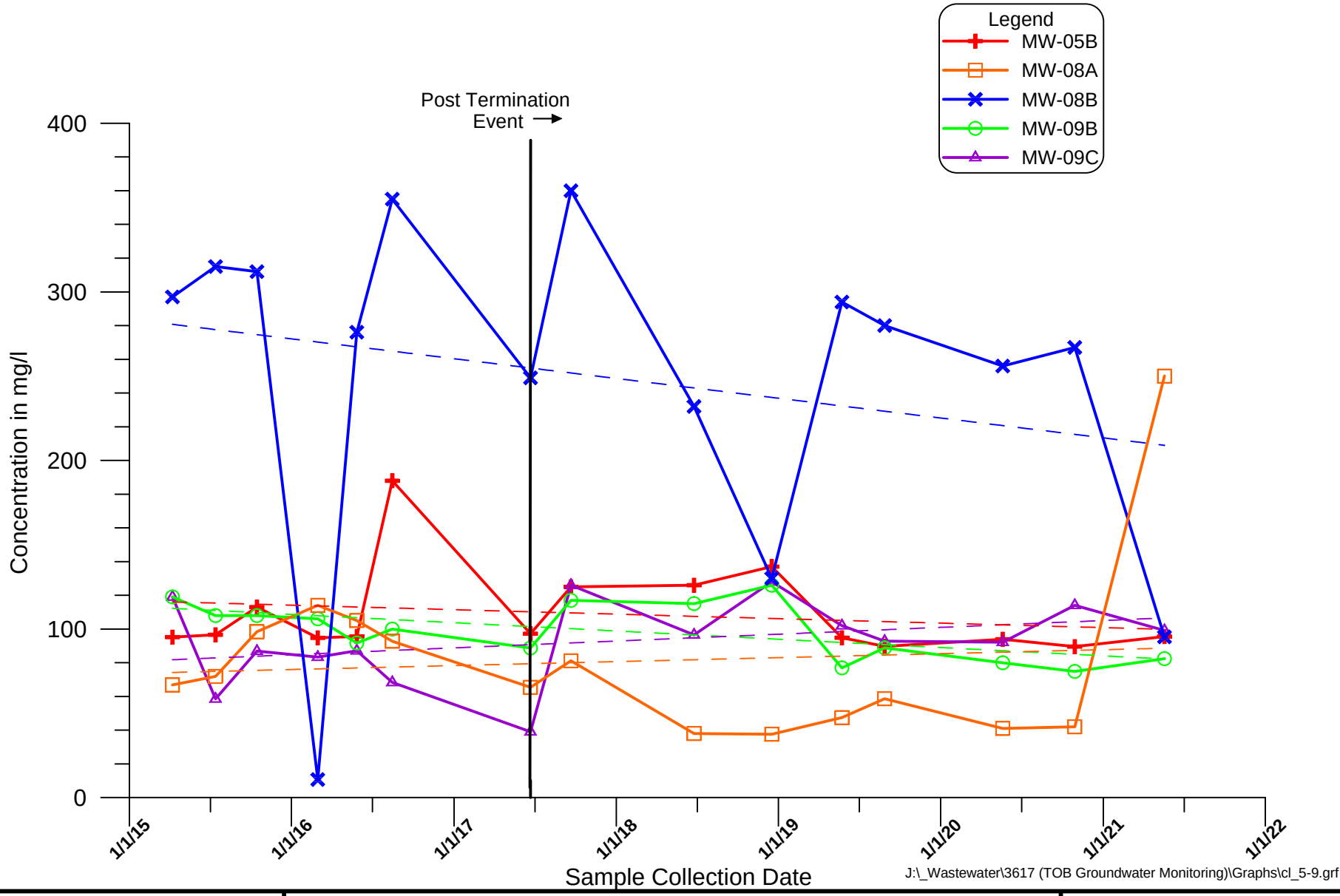
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Ammonia
Data for Wells LF-1, LF-2 & OBS-1

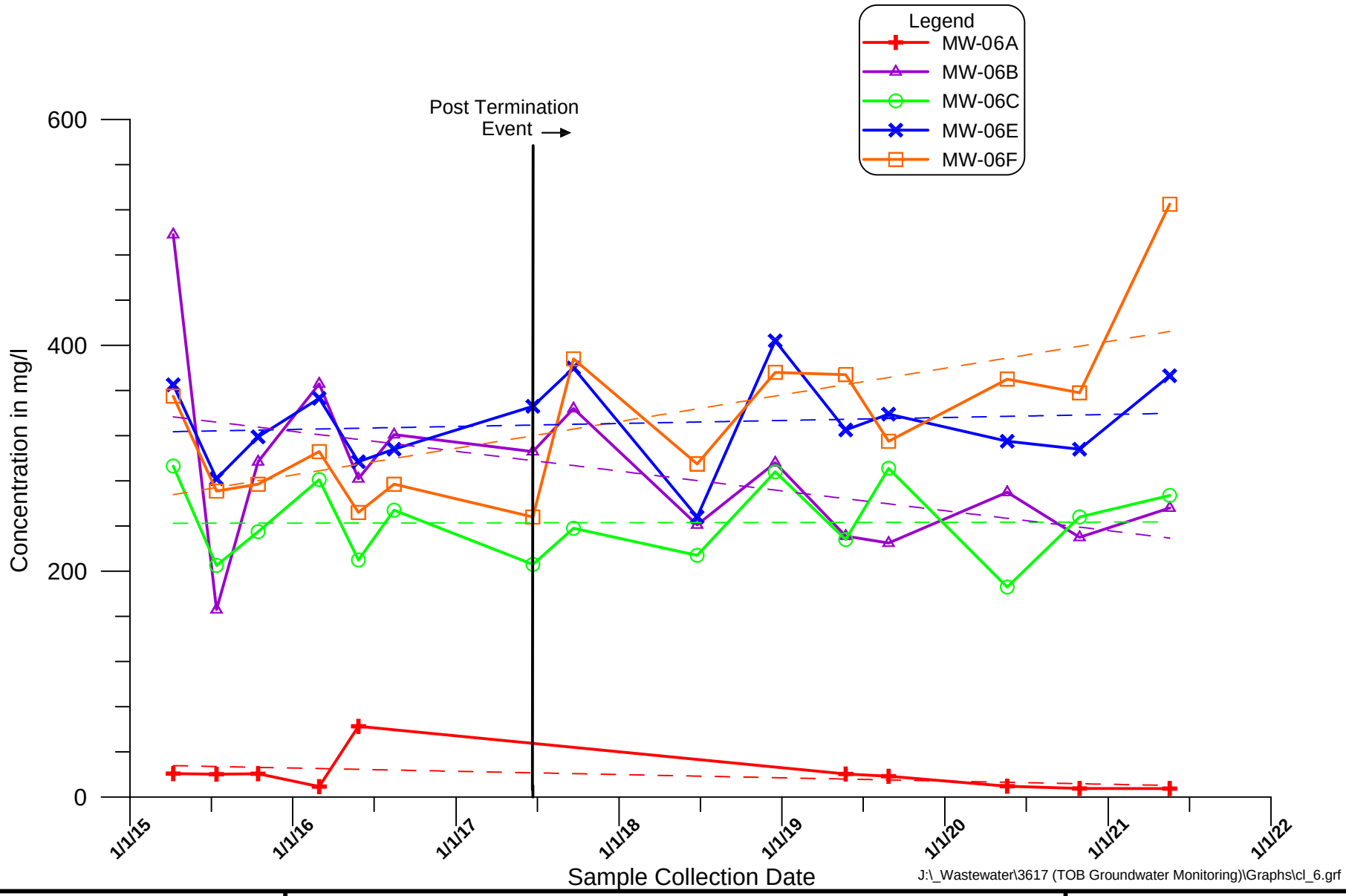
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Chloride
Data for Monitoring Wells 5, 8, & 9

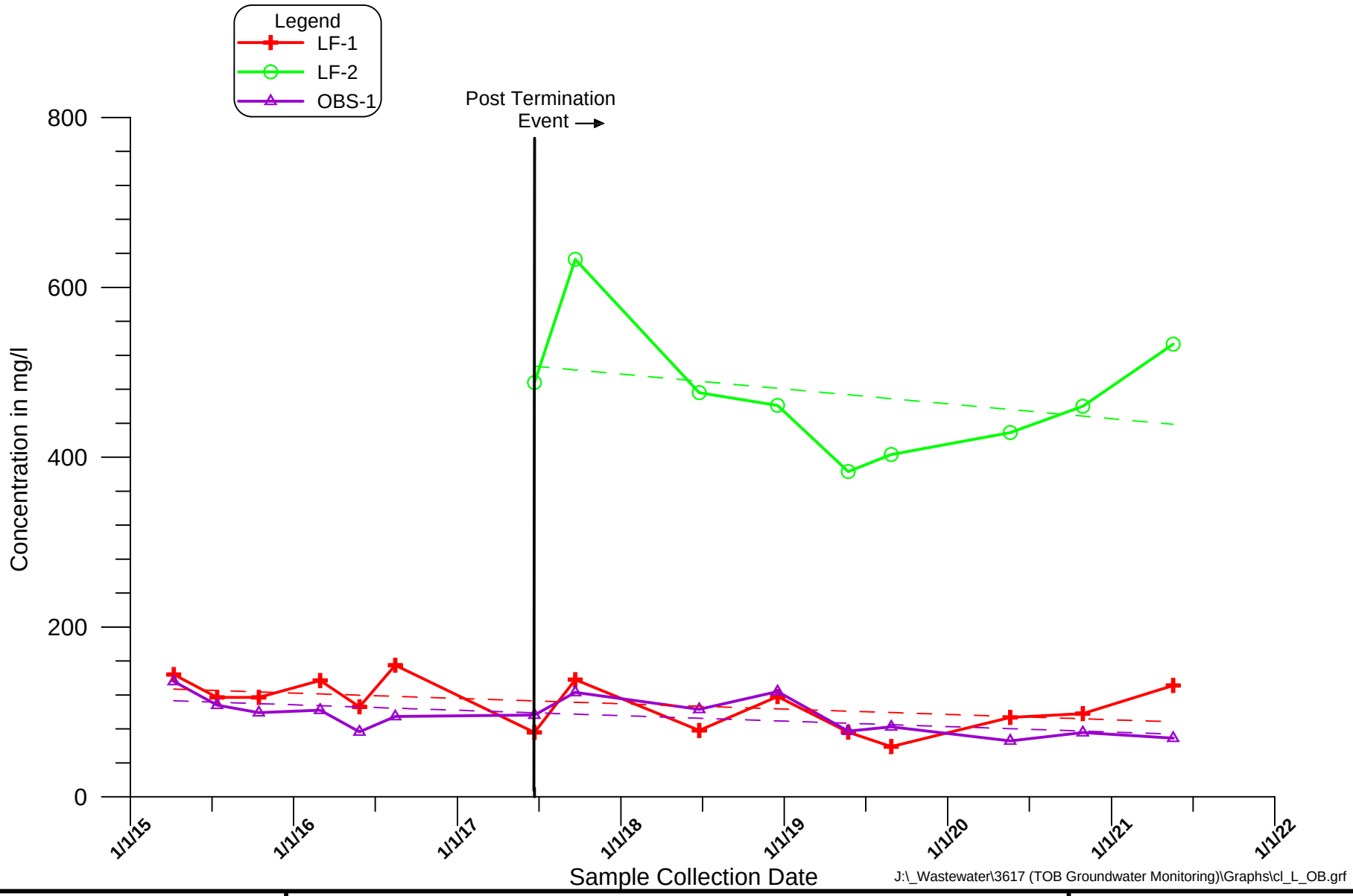
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Chloride
Data for Monitoring Well Cluster 6

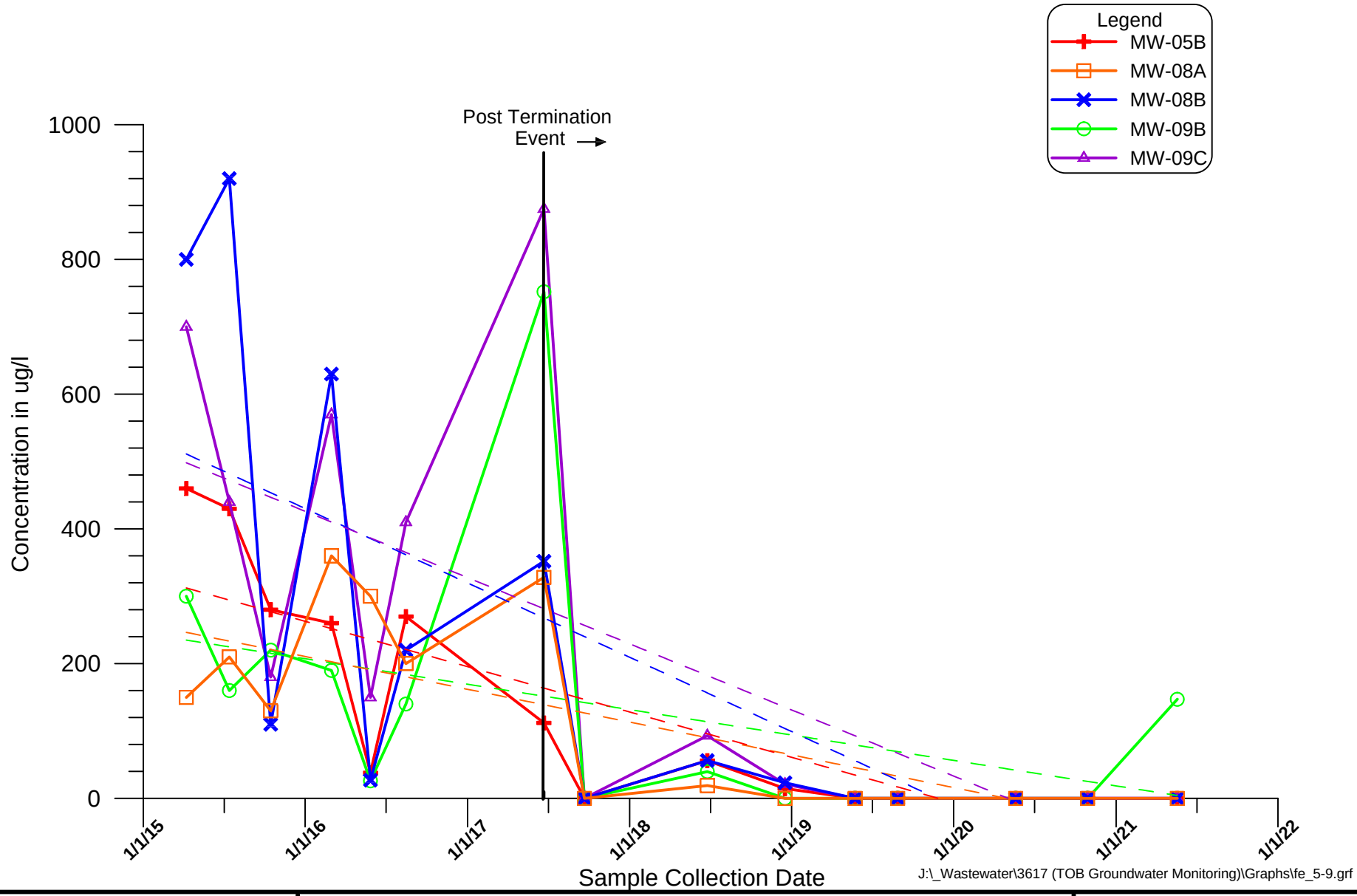
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Chloride
Data for Wells LF-1, LF-2 & OBS-1

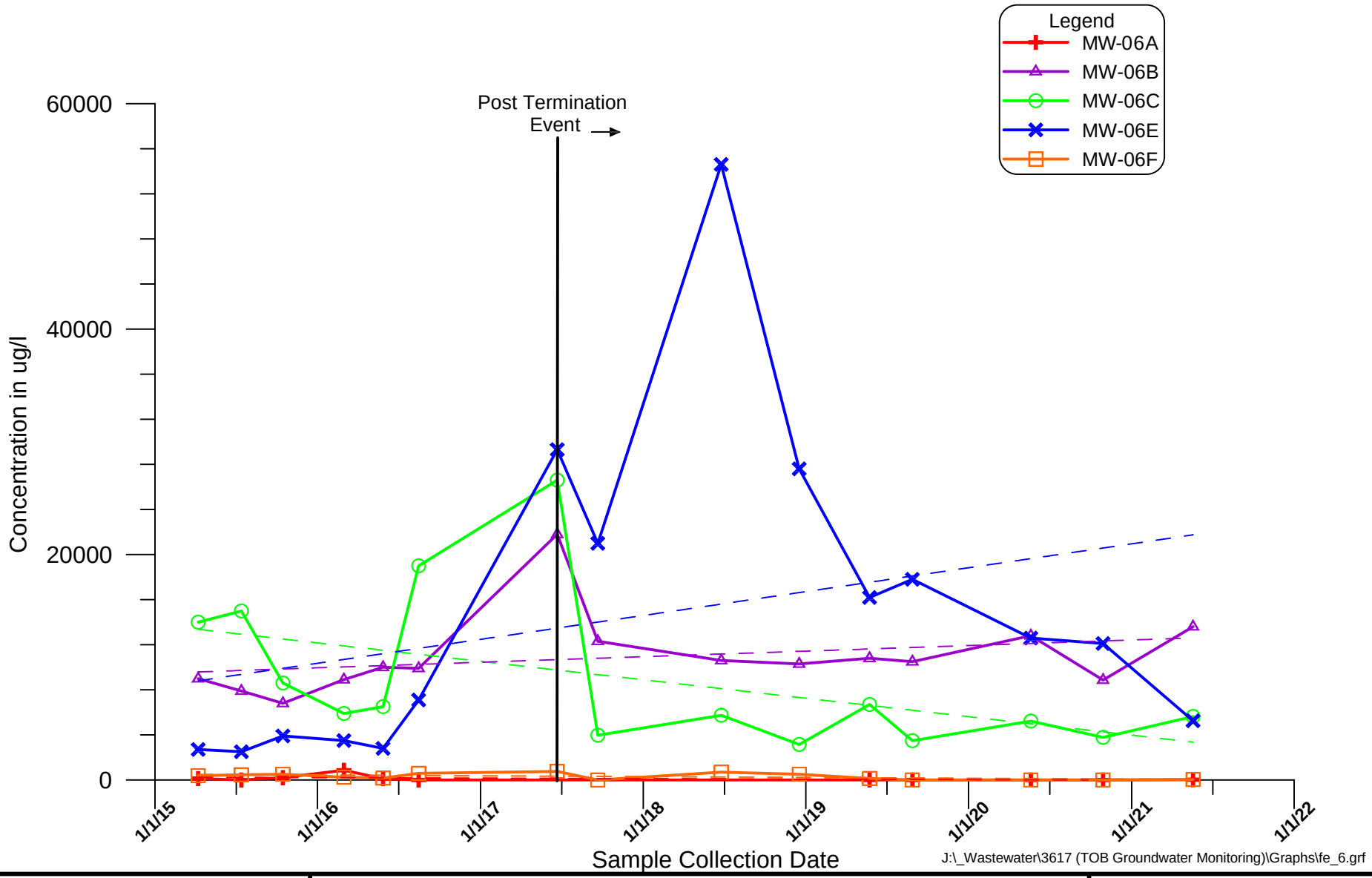
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Iron
Data for Monitoring Wells 5, 8, & 9

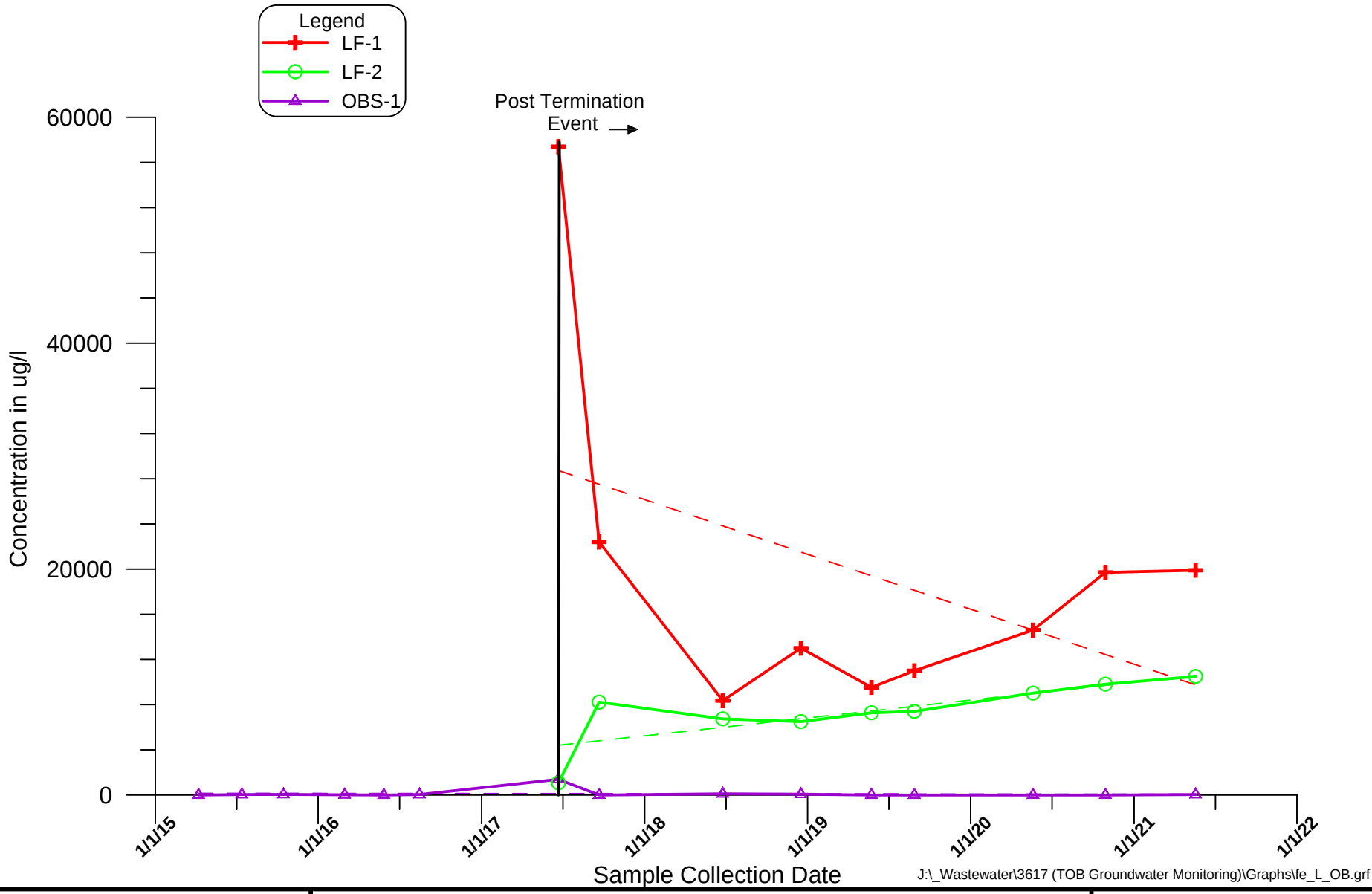
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Iron
Data for Monitoring Well Cluster 6

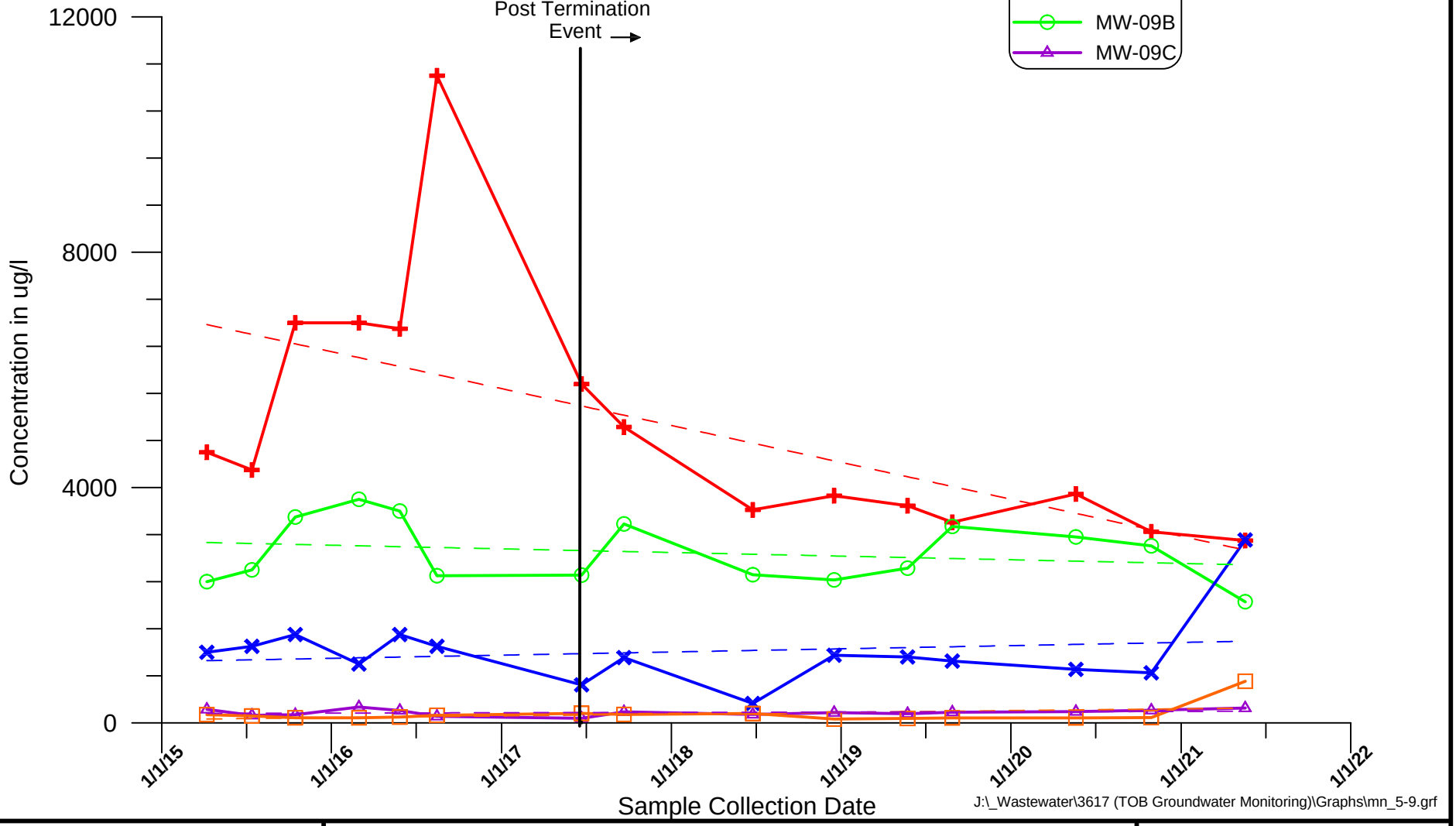
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Iron
Data for Wells LF-1, LF-2 & OBS-1

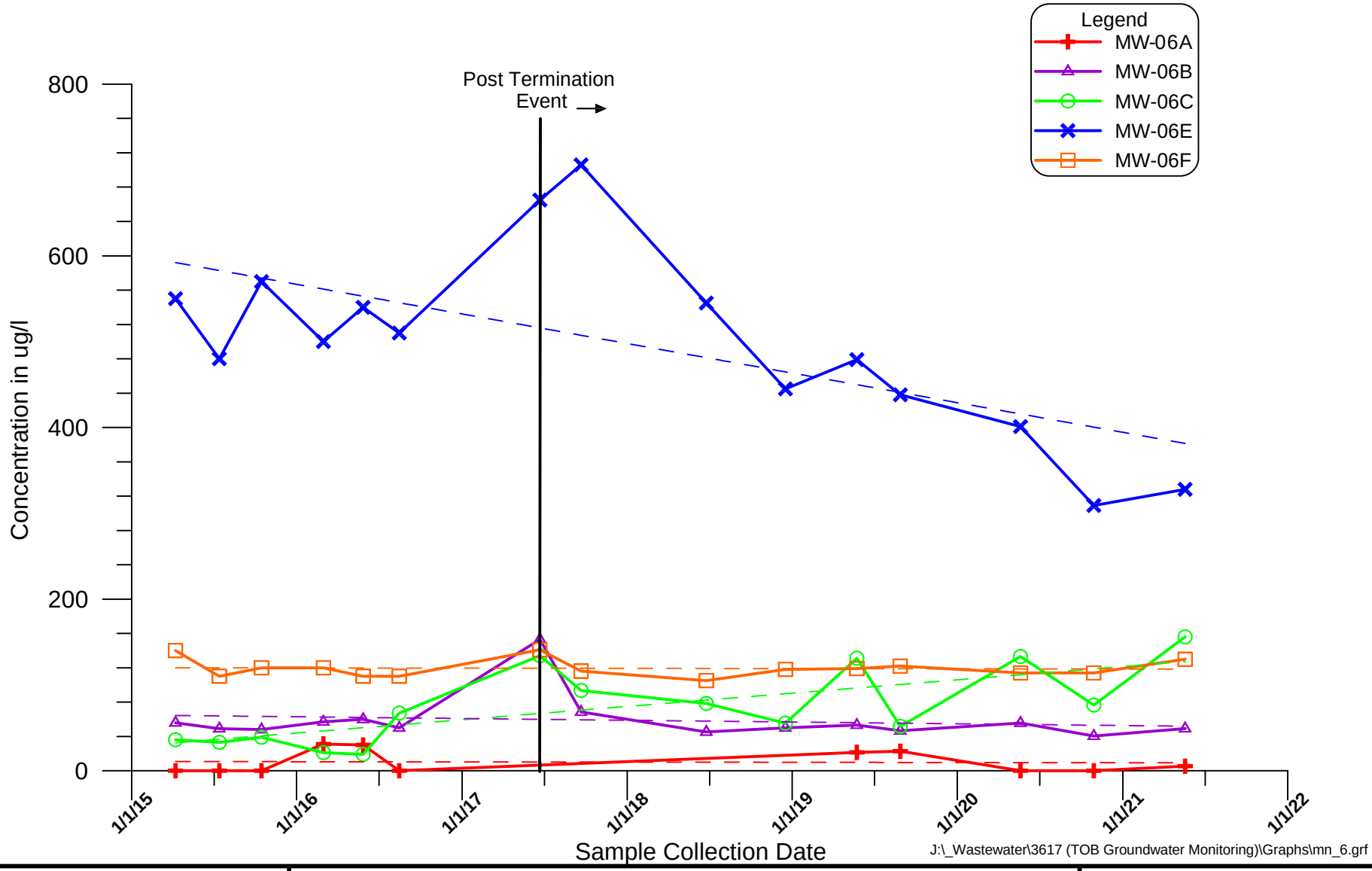
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Manganese
Data for Monitoring Wells 5, 8, & 9

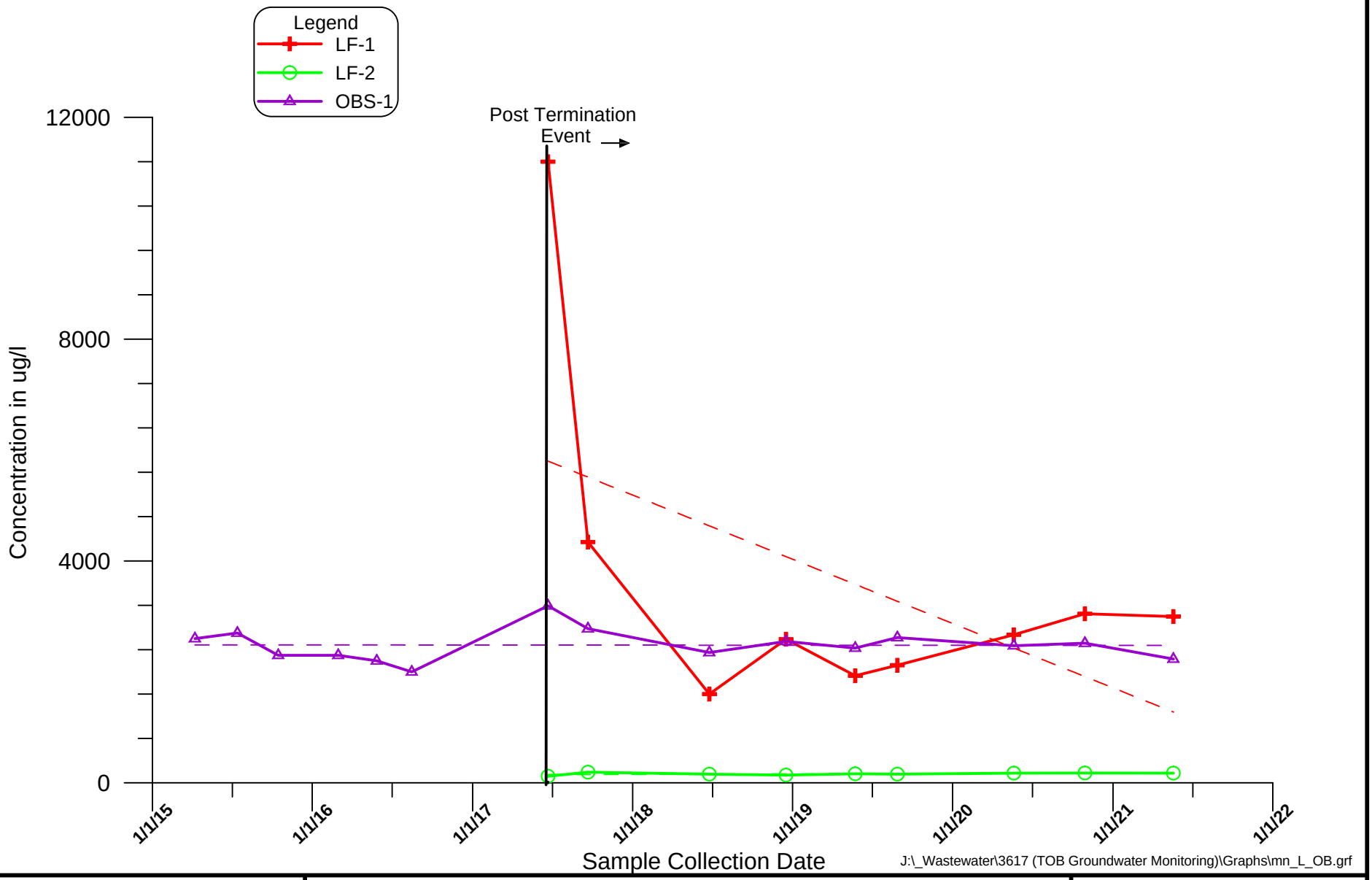
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Manganese
Data for Monitoring Well Cluster 6

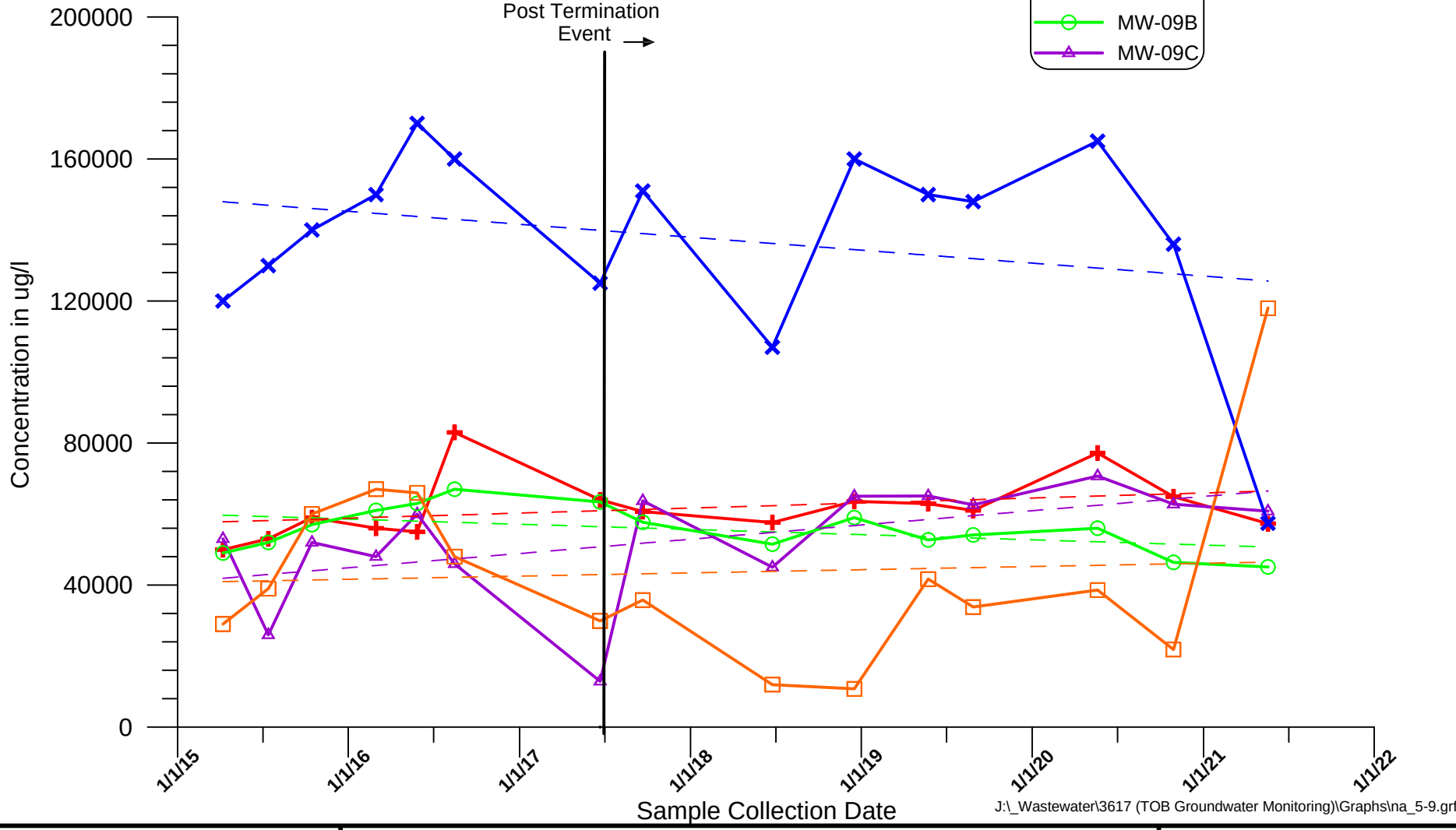
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Manganese
Data for Wells LF-1, LF-2 & OBS-1

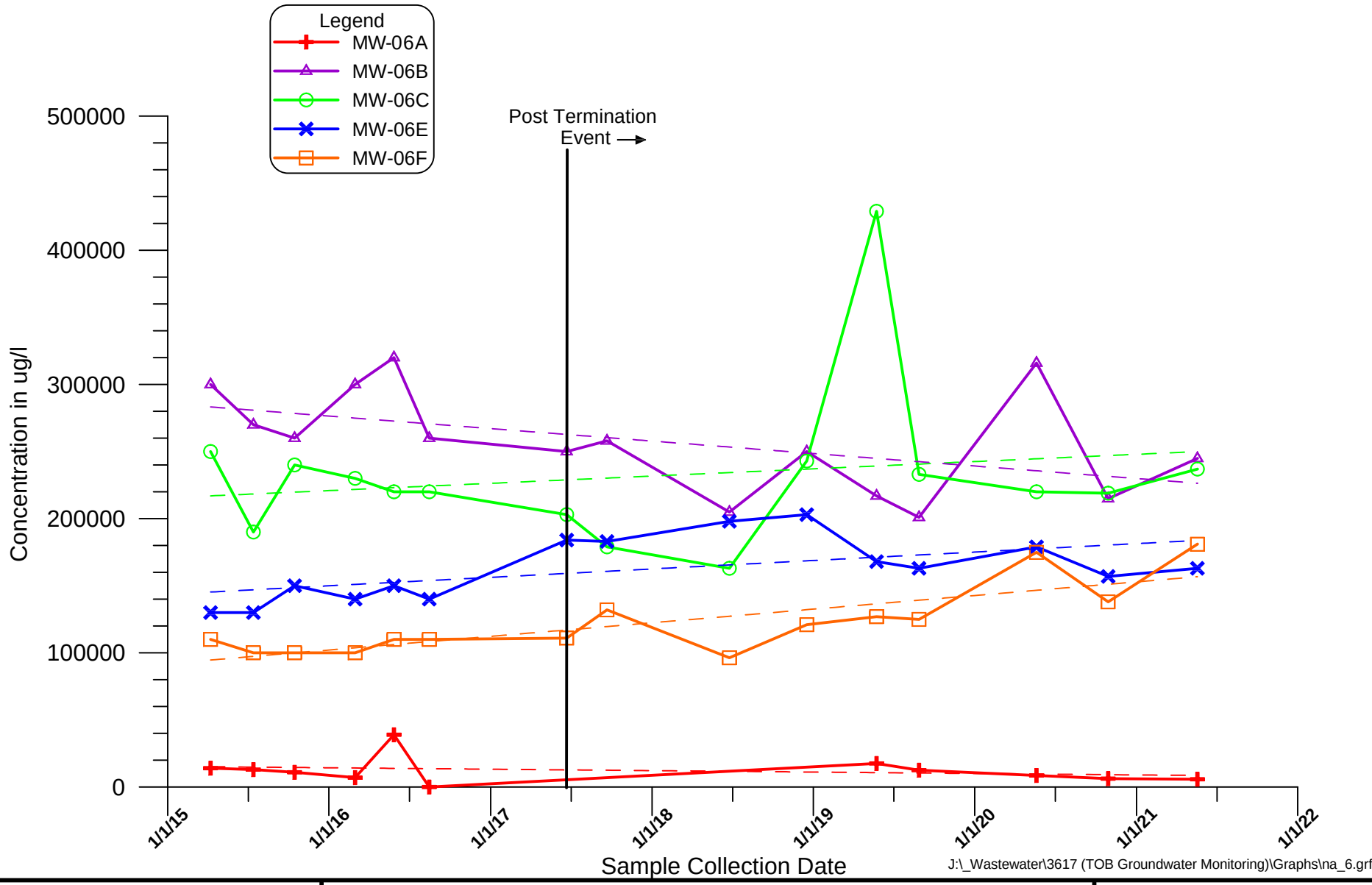
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Sodium
Data for Monitoring Wells 5, 8, & 9

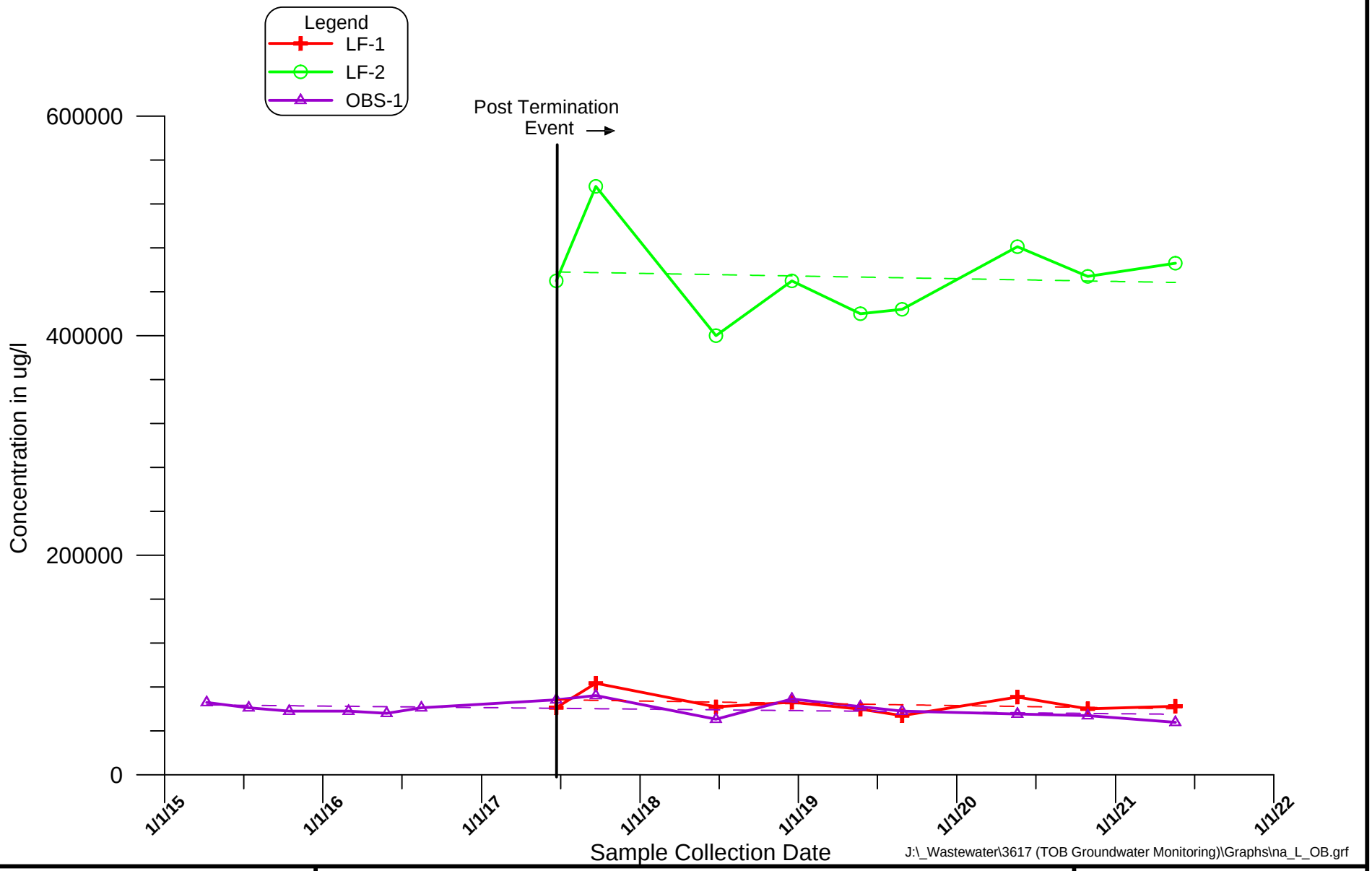
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Sodium
Data for Monitoring Well Cluster 6

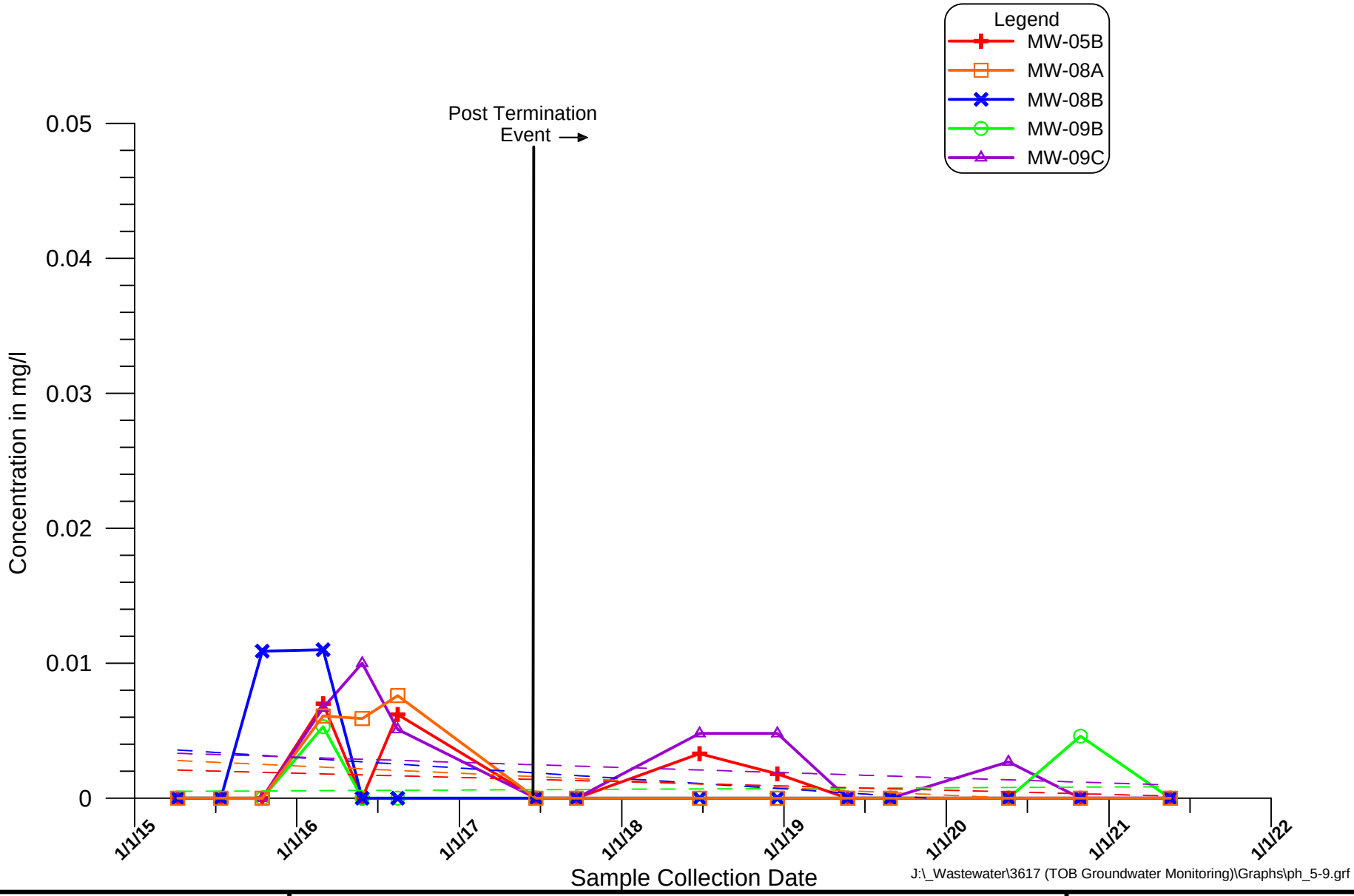
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Sodium
Data for Wells LF-1, LF-2 & OBS-1

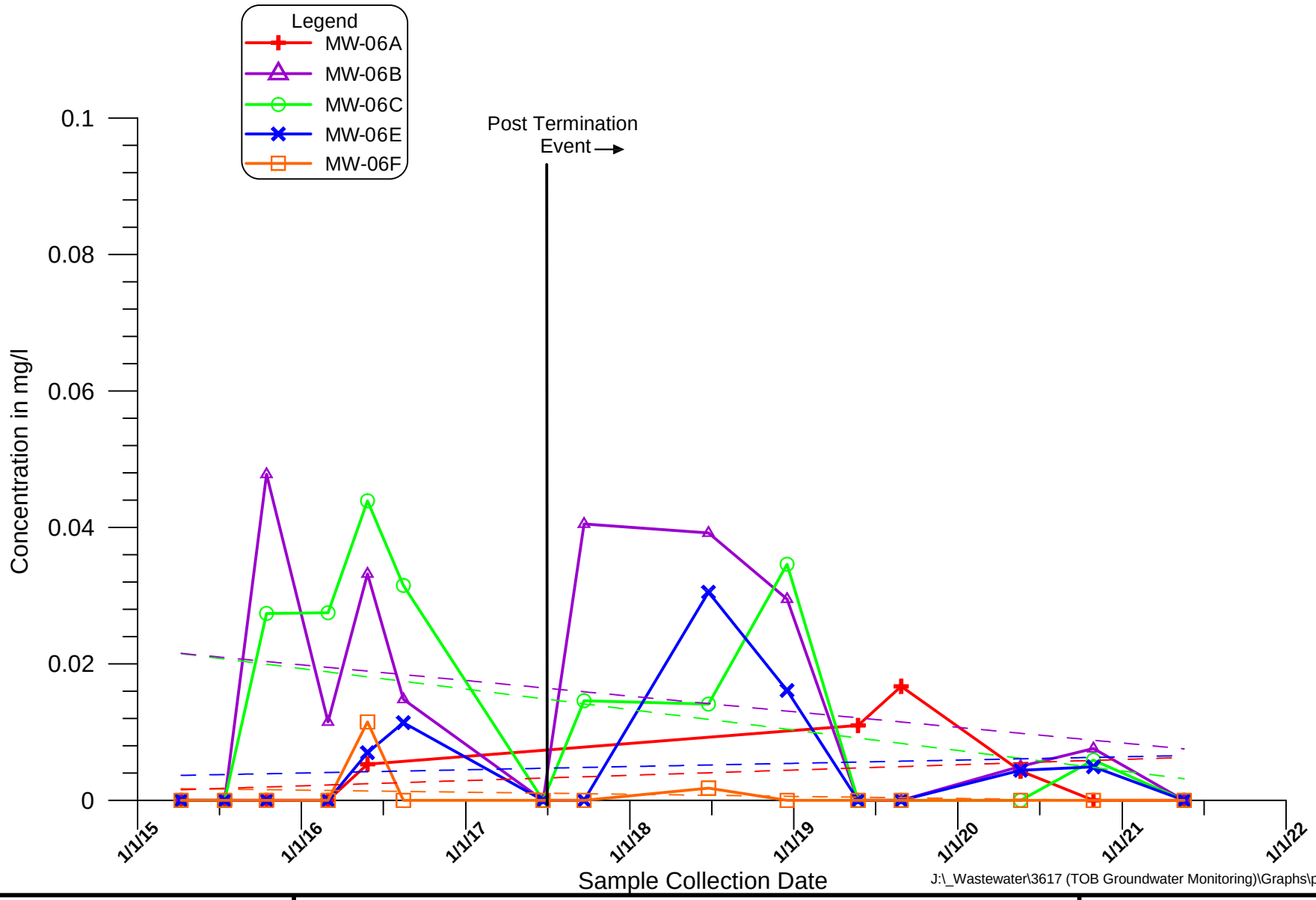
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Phenolics
Data for Monitoring Wells 5, 8, & 9

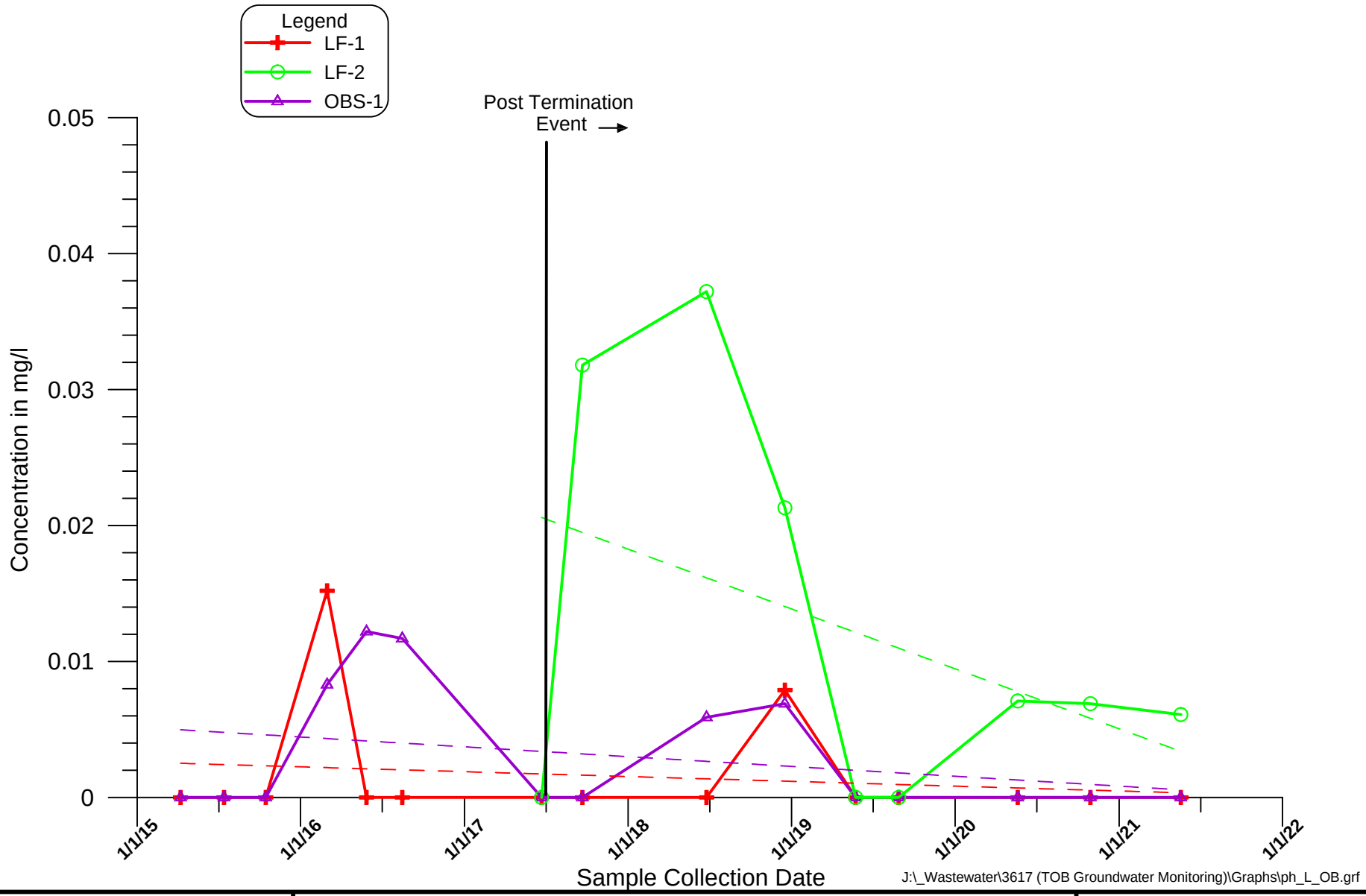
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Phenolics
Data for Monitoring Well Cluster 6

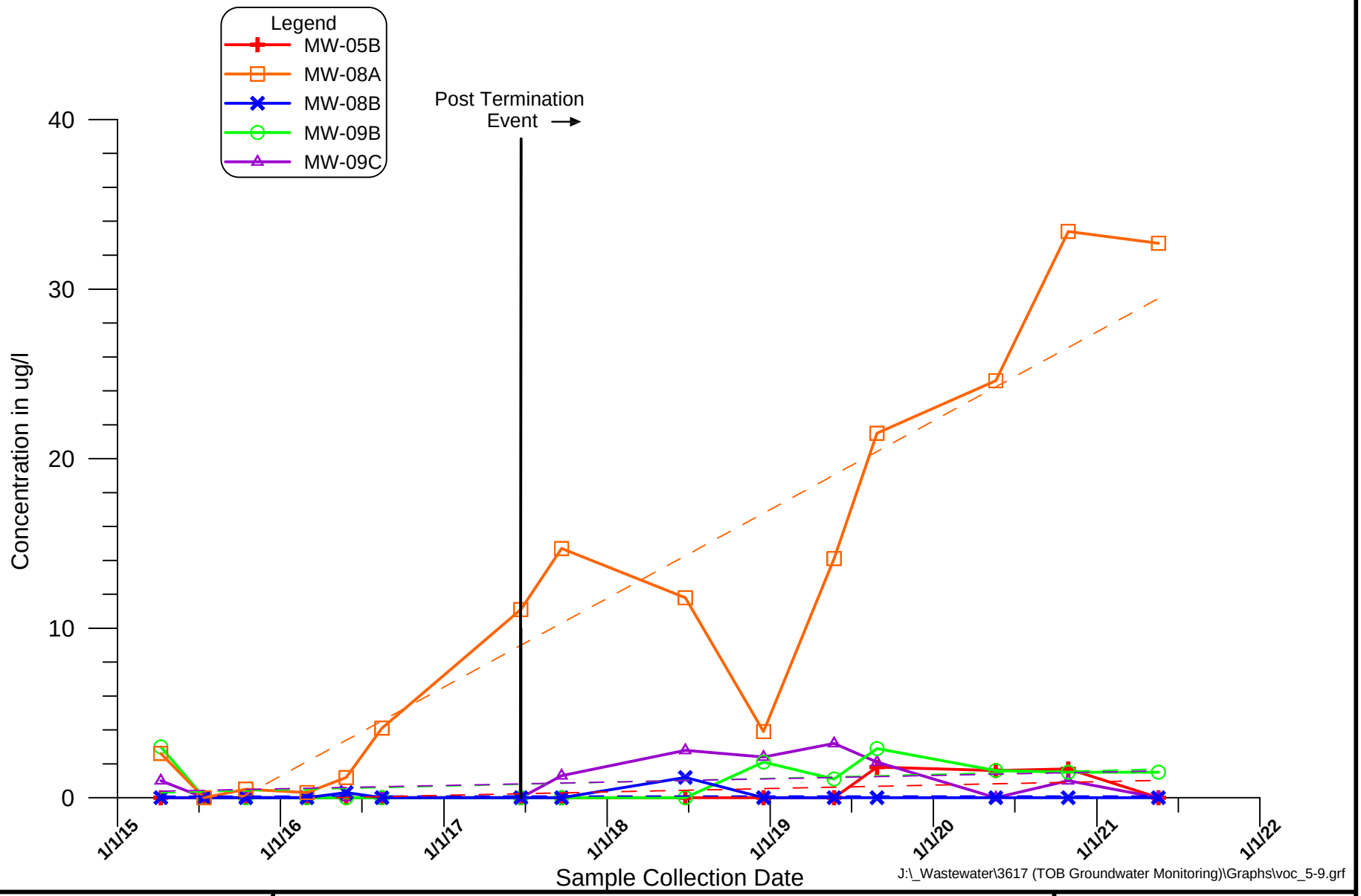
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Phenolics
Data for Wells LF-1, LF-2 & OBS-1

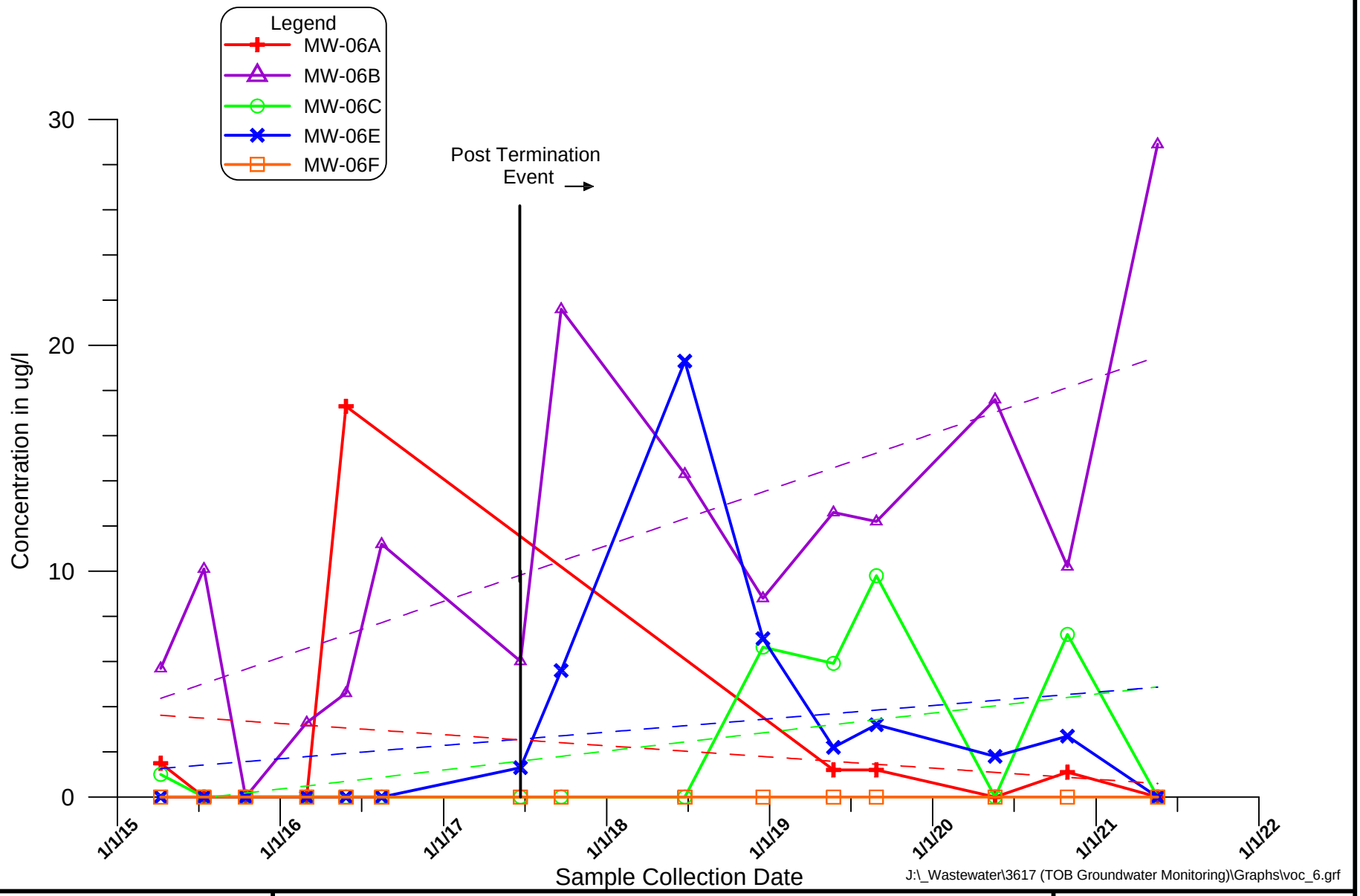
Figure
E



D&B ENGINEERS AND ARCHITECTS

Town of Oyster Bay
Old Bethpage Landfill
Historical Total Volatile Organic Compounds
Data for Monitoring Wells 5, 8, & 9

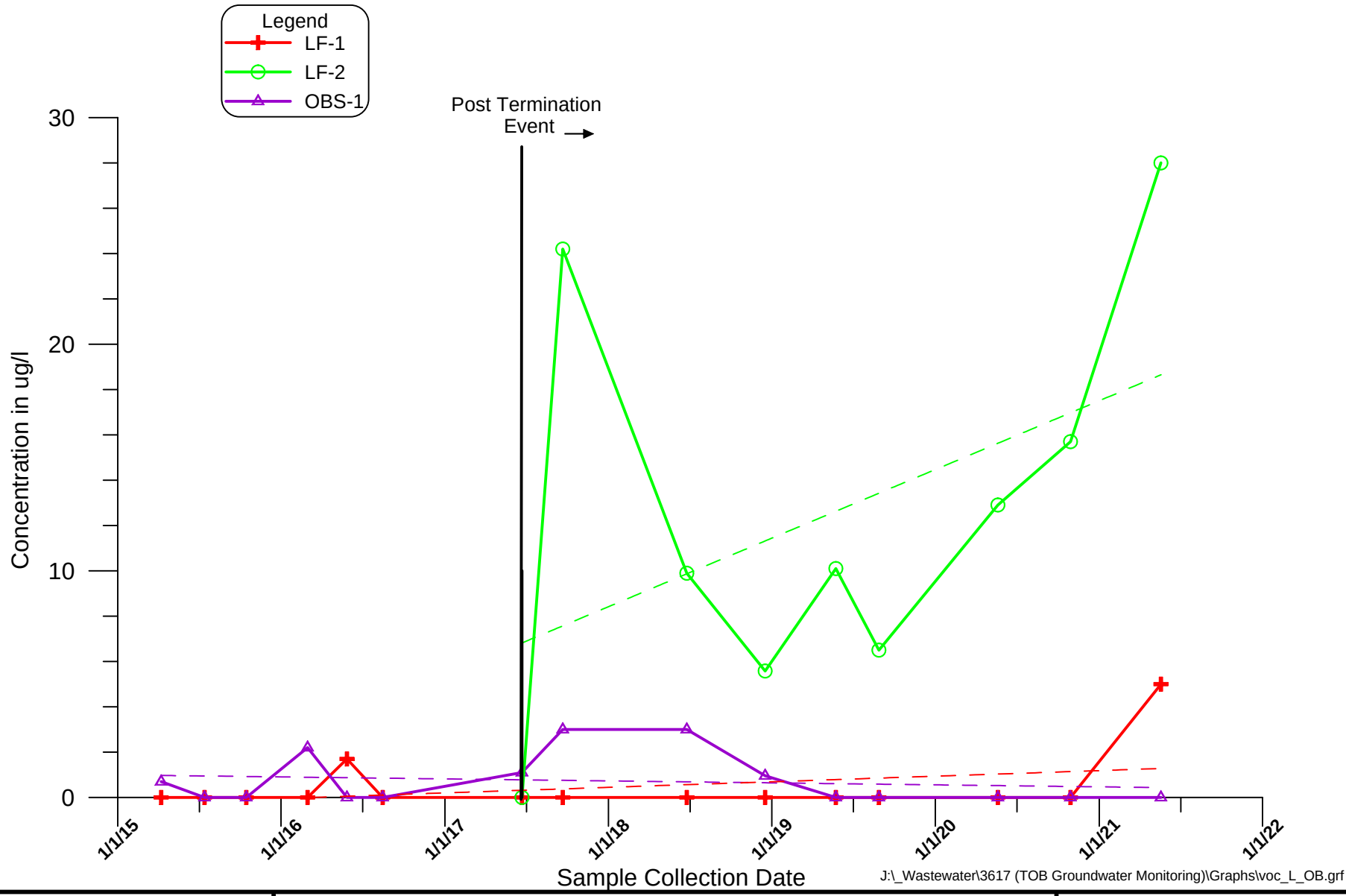
Figure
E



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.