D&B ENGINEERS AND ARCHITECTS, P.C.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

Old Bethpage Landfill

Post-Termination Groundwater Monitoring Program

Second Semiannual Report of 2020

December 2020

D&B ENGINEERS AND ARCHITECTS, P.C.

SECOND SEMIANNUAL REPORT OF 2020

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, P.C.
WOODBURY, NEW YORK

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SECOND SEMIANNUAL REPORT OF 2020
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1.0 INTRODUCTION

This Second Semiannual Report of 2020 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 second semiannual groundwater sampling event of 2020 and is the eighth 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 eighth 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 October 27, 28 and 29, 2020 as part of the second semiannual groundwater sampling event of 2020. 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 second semiannual groundwater sampling event of 2020 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 second semiannual groundwater sampling event of 2020 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 packages 70151125.

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

- The percent recovery was below the QC limit for bromoform and dibromochloromethane in the matrix spike associated with all samples and were qualified as an estimated detection limit (UJ).

- The following metals detected in the Field and/or method blanks and were qualified as non-detect (UB): total iron in samples MW-05B, MW-06A, MW-06F, MW-09B, MW-09C, and OBS-1; dissolved iron in samples MW-06A, MW-06F and MW-09C; total manganese in sample MW-06A; total and dissolved mercury in all samples and dissolved zinc in sample MW-06A, MW-06E, MW-06F, MW-08A, and MW-08B.

- Hexavalent chromium was analyzed outside the holding time for samples OSB-1, MW-06C, MW-06F, MW-06B, MW-06E, MW-06A, and FIELD BLANK. Hexavalent chromium was qualified as an estimated detection limit (UJ) based on holding time results in associated samples.

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

3.2 Groundwater Results

The analytical results for the second semiannual groundwater sampling event of 2020 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 9 of the 13 groundwater monitoring wells, including LF-2, MW-5B, MW-6A, MW-6B, MW-6C, MW-6E, MW-8A, MW-9B and MW-9C. The highest concentration of total VOCs of 33.4 ug/l was detected at MW-8A. The sample collected from LF-2 exhibited the next highest total VOCs of 15.7 ug/l, followed in decreasing order by MW-6B, MW-6C, MW-6E, MW-5B, MW-9B, MW-6A and MW-9C. VOCs were detected at concentrations above Class GA groundwater standards and guidance values at wells LF-2, MW-6B, MW-6C and MW-8A as follows:

- Benzene was detected at LF-2, MW-6B and MW-6C at concentrations of 3.6 ug/l, 1.2 ug/l and 1.4 ug/l, respectively, slightly above the Class GA standard of 1 ug/l.
- Cis-1,2-dichloroethylene (1,2-DCE) was detected at MW-8A at concentration of 21.2 ug/l, above the Class GA standard of 5 ug/l.
- Isopropylbenzene was detected at LF-2 at a concentration of 5.5 ug/l, slightly above the Class GA standard of 5 ug/l.
- Tetrachloroethylene (PCE) was detected at MW 8A at a concentration of 8.4 ug/l, slightly above the Class GA standard of 5 ug/l.

3.2.2 Inorganic Parameters

Iron, manganese and sodium were detected above groundwater standards in 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 3,780 ug/l at MW-6C to a maximum of 19,700 ug/l at LF-1. For samples collected from LF-1 and LF-2, dissolved iron concentrations were significantly lower in comparison to their respective total concentrations. For samples collected from 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 6 of the 13 groundwater monitoring wells, with concentrations ranging from 309 ug/l at MW-6E to a maximum of 3,250 ug/l at MW-5B. 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 21,800 ug/l at MW-8A to a maximum of 454,000 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 4 of the 13 groundwater monitoring wells, with concentrations ranging from 267 mg/l at MW-8B to a maximum of 460 mg/l at LF-2.

- Ammonia was detected above the Class GA groundwater standard of 2 mg/l in 6 of the 13 groundwater monitoring wells, with concentrations ranging from 16.2 mg/l at OBS-1 to a maximum of 170 mg/l at LF-2.

- Total phenols were detected above the Class GA groundwater standard of 0.001 mg/l in 4 of the 13 groundwater monitoring wells, with concentrations ranging from 0.005 mg/l at MW-6E and MW-9B to a maximum of 0.008 mg/l at MW-6B.

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 eight 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, eight monitoring wells (MW-5B, MW-6A (since May 2019), 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-6C and LF-2 have exhibited a marginal increase in TVOCs. Monitoring wells MW-6B and MW-8A 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 second semiannual 2020 sampling event (eight 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.

- With respect to landfill-related VOCs, detections were limited to low concentrations of four aromatic hydrocarbons which included: benzene, 1,4-dichlorobenzene, chlorobenzene and isopropylbenzene. One or more of these VOCs were detected in wells LF-2, MW-6B, MW-6C and MW-6E. However, only benzene and isopropylbenzene slightly exceeded their individual Class GA groundwater standard in one or more of these wells.

- Regarding chlorinated solvents, slightly elevated concentrations above their respective groundwater standards for cis-1,2-DCE and PCE were detected in well MW-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 MW-5B, MW-6A, MW-8A,

MW-9B and MW-9C. However, the low concentrations of TCE detected in these wells are also most likely associated with residual contamination from the former Claremont Polychemical Site.

APPENDIX A

GROUNDWATER SAMPLING LOGS

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

SITE Town of Oyster Bay Landfill DATE 10/29/2020

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) ..... 46.32'
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:	55.68	ft. of water x 1.47 =	81.8	gallons

volume of water removed: 325 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	5.11	16.71	0.407	0.0	0.93	133
50	3.84	16.84	0.527	0.0	0.00	-43
100	3.77	16.88	0.538	0.0	0.00	-47
150	4.06	16.86	0.538	0.0	0.00	-64
200	4.22	16.88	0.536	0.0	0.00	-82
250	4.63	16.86	0.534	0.0	0.00	-94
300	4.60	16.88	0.533	0.0	0.00	-89
325	4.68	16.89	0.533	0.0	0.00	-95

Purging Rate: 5 GPM
Purging Time: 65 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 11:40 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: Rain, overcast 50-55 F
Sample description: clear
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

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

SITE Town of Oyster Bay Landfill DATE 10/29/2020

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) ..... 53.94'
Approximate Pump Inlet (feet from top of casing) ..... 59'

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:	48.16	ft. of water x 1.47 =	70.80	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	5.80	16.74	3.99	0.0	1.02	-118
120	4.59	17.18	4.01	0.0	0.00	-119
160	4.89	17.20	4.01	0.0	0.00	-136
200	5.20	17.21	4.02	0.0	0.00	-148
240	5.27	17.21	3.99	0.0	0.00	-158
280	5.25	17.20	4.00	0.0	0.00	-164
320	5.43	17.20	3.99	0.0	0.00	-169
360	5.50	17.22	3.99	0.0	0.00	-173

Purging Rate: 4 GPM
Purging Time: 90 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 0935

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: Rain, overcast 50-55 F
Sample description: Clear - Yellow tint.
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes X no ____ describe Slight leachate odor

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

SITE Town of Oyster Bay Landfill DATE 10/27/2020

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)..... 74.30'
Approximate Pump Inlet (feet from top of casing)..... 79'

Purging Method

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

Well Volume Calculation:

2 in. casing:		ft. of water x 0.16 =		gallons
3 in. casing:		ft. of water x 0.36 =		gallons
4 in. casing:	42.95	ft. of water x 0.65 =	27.9	gallons

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

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	7.01	15.49	0.355	0.0	0.76	221
20	6.48	15.84	0.353	0.0	0.00	216
40	6.23	15.88	0.354	0.0	0.00	219
60	6.22	15.89	0.355	0.0	0.00	218
80	6.22	15.89	0.355	0.0	0.00	218
100	6.22	15.89	0.355	0.0	0.00	217
120	6.21	15.90	0.356	0.0	0.00	217

Purging Rate: 4 GPM
Purging Time: 30 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

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

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

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

Observations

Weather/Temperature: Partly cloudy, mild 60-70F wind 0-5 mph NNW
Sample description: Clear
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

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

SITE Town of Oyster Bay Landfill DATE 10/28/2020

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) ..... 97.07'
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:	3.33	ft. of water x 0.65 =	2.2	gallons

volume of water removed: 30 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	NA	15.77	0.181	134	9.18	-21
10	NA	16.28	0.055	3.6	8.08	36
15	NA	16.30	0.054	1.4	7.93	44
20	NA	16.33	0.053	0.6	8.17	52
25	NA	16.32	0.051	0.0	8.05	60
30	NA	16.32	0.051	0.0	8.10	67

Purging Rate: 1 GPM

Purging Time: 30 min

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

0.1L/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 2:00 p.m.

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

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

Observations

Weather/Temperature: Overcast, rain 55-65 F
Sample description: clear
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes X no ____ describe Slight leachate odor

* Erroneously low pH readings, due to probe malfunction
NA Not available

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

SITE Town of Oyster Bay Landfill DATE 10/28/2020

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) 97.21
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:	37.69	ft. of water x 0.65 =	24.5	gallons

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

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	7.00	16.96	2.06	72.2	1.38	-199
20	6.56	17.17	2.06	8.6	0.02	-189
40	6.28	17.17	2.05	2.8	0.00	-180
60	6.35	17.15	2.02	0.3	0.18	-186
80	6.12	17.15	2.06	0.0	0.25	-174
120	6.25	17.17	2.03	0.0	0.00	-181
140	5.97	17.18	2.05	0.0	0.00	-171
160	5.96	17.18	2.01	0.0	0.00	-164

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

Sampling

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

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

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

Observations

Weather/Temperature: Overcast, rain 55-65 F
Sample description: Clear, yellow tint
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes X no ____ describe Slight leachate odor

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

SITE Town of Oyster Bay Landfill DATE 10/28/2020

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) ..... 96.58'
Approximate Pump Inlet (feet from top of casing) ..... 102'

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:	64.32	ft. of water x 0.65 =	41.8	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	NA	16.57	1.06	6.5	1.01	52
40	NA	17.43	2.11	2.3	0.01	-97
80	NA	17.43	2.10	0.0	0.03	-103
120	NA	17.49	2.04	2.1	2.69	-110
160	NA	17.41	2.00	0.0	1.12	-118
200	NA	17.43	1.95	0.0	1.07	-112

Purging Rate: 4 GPM
Purging Time: 50 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 10:05 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: Overcast, rain 55-65 F
Sample description: Clear
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes X no ____ describe Slight leachate odor

* - Erroneously low pH readings, due to probe malfunction.
NA-Not available

D&B ENGINEERS AND ARCHITECTS, P.C.

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

SITE Town of Oyster Bay Landfill DATE 10/28/2020

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) ..... 97.81'
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: 153.19 ft. of water x 0.65 = 100 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	4.24	16.83	0.902	10.6	0.67	-71
40	3.31	17.40	0.904	2.4	0.00	-43
80	4.02	17.31	0.904	113	0.14	-50
120	6.53	17.24	1.06	56	0.11	-150
160	6.32	17.25	1.08	9.4	0.00	-131
200	5.99	17.20	1.10	3.1	0.80	-108
240	6.39	17.20	1.12	1.5	0.24	-103
300	5.99	17.26	1.10	0.0	0.00	-112
340	5.63	17.26	1.11	0.0	0.00	-98
400	4.99	17.25	1.11	0.0	0.00	-71

Purging Rate: 4 GPM
Purging Time: 100 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 12:40 p.m.

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

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

Observations
Weather/Temperature: Overcast, rain 55-65 F
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, P.C.

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

SITE Town of Oyster Bay Landfill DATE 10/28/2020

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) ..... 97.17'
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: 251.83 ft. of water x 0.65 = 164 gallons

volume of water removed: 525 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	NA	17.48	0.696	2.4	0.31	293
100	NA	16.73	0.668	2.9	0.25	226
150	NA	16.14	0.764	0.0	0.00	213
200	NA	16.11	0.765	0.0	0.00	215
250	NA	16.07	0.773	0.0	0.00	212
300	NA	16.06	0.780	0.0	0.00	184
400	NA	16.03	0.801	0.0	0.00	183
450	NA	16.01	0.810	0.0	0.00	175
500	NA	16.01	0.815	0.0	0.00	169
525	Na	16.00	0.822	0.0	0.00	176

Purging Rate: 5.0 GPM
Purging Time: 105 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: Overcast, rain 55-65 F
Sample description: Clear
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

* - erroneously low pH readings NA – Not available

D&B ENGINEERS AND ARCHITECTS, P.C.

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

SITE Town of Oyster Bay Landfill DATE 10/27/2020

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) ..... 70.80'
Approximate Pump Inlet (feet from top of casing) ..... 75'

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: 9.9 ft. of water x 0.65 = 6.4 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	4.71	13.48	0.094	3.3	6.95	296
5	5.08	13.41	0.095	1.7	6.99	292
10	4.95	13.45	0.098	0.4	6.92	312
15	4.86	13.44	0.102	0.0	7.00	326
25	4.94	13.48	0.162	0.0	5.77	333
30	5.04	13.48	0.165	0.0	5.60	334
35	4.94	13.48	0.175	0.0	5.77	340

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

Sampling
Time of Sample Collection: 4:05 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: Partly cloudy, mild 60-70F wind 0-5 mph NNW
Sample description: Clear
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS, P.C.

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

SITE Town of Oyster Bay Landfill DATE 10/27/2020

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) ..... 70.25'
Approximate Pump Inlet (feet from top of casing) ..... 75'

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:	89.95	ft. of water x 0.65 =	58.5	gallons

volume of water removed: 180 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	6.60	13.70	0.626	0.0	2.45	211
30	6.38	13.91	0.627	0.0	6.13	220
60	5.88	13.50	0.652	0.0	0.26	246
90	6.49	13.43	0.654	0.0	0.00	220
120	6.27	13.48	0.654	0.0	0.00	231
150	6.03	13.48	0.654	0.0	0.00	245
180	5.87	13.48	0.653	0.0	0.00	256

Purging Rate: 3 GPM
Purging Time: 60 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 2:55 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: Partly cloudy, mild 60-70F wind 0-5 mph NNW
Sample description: Clear
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS, P.C.

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

SITE Town of Oyster Bay Landfill DATE 10/27/2020

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) ..... 92.76'
Approximate Pump Inlet (feet from top of casing) ..... 98'

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: 76.34 ft. of water x 0.65 = 49.6 gallons

volume of water removed: 320 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	5.84	14.17	0.317	0.0	0.00	184
40	5.16	14.56	0.293	0.0	0.00	235
80	5.44	14.57	0.293	0.0	0.00	293
160	5.68	14.58	0.294	0.0	0.00	294
200	5.72	14.74	0.296	0.0	0.00	211
240	5.76	14.65	0.294	0.0	0.00	212
280	5.78	14.62	0.295	0.0	0.00	215
320	5.79	14.60	0.294	0.0	0.00	208

Purging Rate: 4 GPM
Purging Time: 80 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 11:00 a.m.

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

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

Observations
Weather/Temperature: Partly cloudy, mild 60-70F wind 0-5 mph NNW
Sample description: Clear
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

D&B ENGINEERS AND ARCHITECTS, P.C.

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

SITE Town of Oyster Bay Landfill DATE 10/27/2020

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) ..... 93.40'
Approximate Pump Inlet (feet from top of casing) ..... 99'

Purging Method

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

Well Volume Calculation:

2 in. casing:		ft. of water x 0.16 =		gallons
3 in. casing:		ft. of water x 0.36 =		gallons
4 in. casing:	131.60	ft. of water x 0.65 =	85.5	gallons

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

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.89	14.44	0.284	0.0	3.00	212
80	5.86	15.33	0.364	0.0	0.00	180
120	5.84	15.43	0.364	0.0	0.00	180
160	5.47	15.42	0.371	0.0	0.00	215
200	5.55	15.44	0.372	0.0	0.00	207
240	5.65	15.47	0.372	0.0	0.00	201
280	5.67	15.47	0.372	0.0	0.00	202
320	5.71	15.49	0.373	0.0	0.00	202
360	5.71	15.42	0.372	0.0	0.00	210

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: 11:20 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: Partly cloudy, mild 60-70F wind 0-5 mph NNW
Sample description: Clear
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes ____ no X describe ____

Note: Collected Bind Duplicate sample at well MW-09C.

D&B ENGINEERS AND ARCHITECTS, P.C.

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

SITE Town of Oyster Bay Landfill DATE 10/27/2020

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) ..... 49.76'
Approximate Pump Inlet (feet from top of casing) ..... 55'

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: 144.99 ft. of water x 0.65 = 94.2 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	4.59	15.10	0.337	0.4	0.32	306
50	4.77	15.21	0.33	0.0	0.00	279
100	4.79	15.24	0.330	0.0	0.00	282
150	5.65	15.92	0.438	0.0	0.00	109
200	5.77	15.86	0.442	0.0	0.00	107
250	5.86	15.98	0.449	0.0	0.00	106
300	5.92	15.99	0.447	0.0	0.00	107
350	5.96	15.98	0.444	0.0	0.00	108
375	5.99	15.96	0.443	0.0	0.00	109

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

Sampling

Time of Sample Collection: 08:50 a.m.

Method:

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

Analyses: (Pace Analytical Laboratory)

- X VOCs
- X Total & Dissolved Metals
- Leachate
- X Parameters

Observations

Weather/Temperature: Partly cloudy, mild 60-70F wind 0-5 mph NNW
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, P.C.

APPENDIX B

CHAIN OF CUSTODY FORMS

Pace Analytical® www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request D

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

WO#:70151125

70151125

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
	Sycsset, NY 11791			Address:	150 Miller Place, Syosset, NY 11791
Email:	mrusso@tobays.net / K.Robins@db-eng.com	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 - 3rd Period Semi-annual 2020	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): 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)
1	Trip Blank - 10/27/2020	AG	-	10/27/20	-	10/27/20	-	X	2	X	X	X	2	X	X	X	X		✓	-	-	-	-	-	-	-	N
2	OBS-1 - 10/27/2020	WT	G	10/27/20	8:50	10/27/20	—	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N
3	MW-09B - 10/27/2020	WT	G	10/27/20	11:00 am	10/27/20	—	X	9	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N
4	MW-09C - 10/27/2020	WT	G	10/27/20	11:20 am	10/27/20	—	X	9	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N
5	Blind Duplicate 1 - 10/27/2020	WT	G	10/27/20	00:00	10/27/20	—	X	9	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N
6	MW-05B - 10/27/2020	WT	G	10/27/20	1:00 pm	10/27/20	—	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N
7	MW-08B - 10/27/2020	WT	G	10/27/20	2:55 pm	10/27/20	—	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N
8	MW-08A - 10/27/2020	WT	G	10/27/20	4:05 pm	10/27/20	—	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill — Field filtered dissolved with "F" for dissolved metals and Cr+6. Provide CATEGORY B and EQUIS Std deliverables. Lab data @db-eng.com	Keith Robins / D&B Engineers	10/27/2020		[signature] / PACE	10/27/20	16:51	0.5	Y	N	Y

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Keith Robins		
SIGNATURE of SAMPLER:	Keith Robins	DATE Signed:	10/27/2020

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

WO#:70151125

PM: NML Due Date: 11/11/20

CLIENT: TOY

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields m[ust be completed accurately.]

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				Address:	150 Miller Place, Syosset, NY 11791
Email:	mrusso@tobays.net / k.robins@db-eng.com	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 - Second Semi-annual 2020	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

MATRIX CODE (see valid codes to left); SAMPLE TYPE (G=GRAB C=COMP)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (Field Filter)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS					Residual Chlorine (Y/N)	
Requested Analysis Filtered (Y/N)																			N	N	N	N	N	N	N	N						
1	Trip Blank - 10/28/20	AG	-	10/28/20	-	10/28/20	-	X	2	X	X	X	2	X	X	X	X		✓	-	-	-	-	-	-	-					N	16
2	MW-06C_10/28/20	WT	G	10/28/20	1005	10/28/20	-	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓					N	17, 18
3	MW-06F_10/28/20	WT	G	10/28/20	1020	10/28/20	-	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓					N	19, 20
4	MW-06B_10/28/20	WT	G	10/28/20	1200	10/28/20	-	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓					N	21, 22
5	MW-06E_10/28/20	WT	G	10/28/20	1240	10/28/20	-	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓					N	23, 24
6	MW-06A -10/20	WT	G	10/28/20	200 p.m.	10/28/20	-	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓					N	25, 26
7	Field Blank -10/20	WT	G	10/28/20	220 p.m.	10/28/20	-	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓					N	27, 28
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill	Keith Robins / D&B Engineers	10/28/20	15:19	[signature] Pace	10/28/20	15:19	4.3	Y	N	Y
Filtered in Field denoted with "F" for dissolved metals and Cr(+6)										
Provide Category B and EQuIS. Send data to labdata @ db-eng.com										
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Keith Robins		
SIGNATURE of SAMPLER:	Keith Robins	DATE Signed:	10/28/20

CHAIN-OF-CUSTODY / Analytical Request Document

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

WO#: 70151125
PM: NML Due Date: 11/11/20
CLIENT: TOY

Pace Analytical®

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
Purchase Order #:	
Project Name:	Old Bethpage Landfill
Project #:	5617 Second Semi Annual 2020

Section C
Invoice Information:

Attention:	Matt Russo
Company Name:	Town of Oyster Bay
Address:	150 Miller Place, Syosset NY
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)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	VOC by 8260 (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)					Residual Chlorine (Y/N)	
1	Trip Blank -10/29/20	AG	-	10/29/20	-	10/29/	-	X	2	-	-	-	2	-	-	-	-		✓	-	-	-	-	-	-	-					N	029
2	LF-2 -10/28/20	WT	G	10/29/20	0935	10/29/	-	X	8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓					N	030/031
3	LF-1 -10/28/20	WT	G	10/29/20	1140	10/29/	-	X	8	2	1	2	2	1	-	-	-		✓	✓	✓	✓	✓	✓	✓	✓					N	032/033
4																																
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 Bottles denoted with (F), Field Filtered for Dissolved metals and CR(+6) - Provide CATegory 'B' and EDDs deliverables. Send data to Lab data@db-eng.com	Keith Robins / D+B Engineers	10/29/20	1313	[signature]	10/29/20	13:14	1.8	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: 10/29/20

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):	October 27-29, 2020
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
Analyses:	Volatile Organic Compounds (VOCs): by SW846 8260C Metals: Total and dissolved by USEPA 200.7 and mercury by USEPA 245.1 General Chemistry: Alkalinity (SM2320B), Hardness (SM2340C), 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), Cyanide (SM22 4500), Ammonia (SM22 4500) and Phenolics (USEPA 420.4)
Laboratory Report No:	70151125 Date: 11/18/2020

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:70151125
SAMPLE AND ANALYSIS LIST

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis				
				VOC	SVOC	PCB	MET	MISC
TRIP BLANK	70151125001	10/27/2020		X				
OBS-1	70151125002-3	10/27/2020		X			X	X
MW-09B	70151125004-5	10/27/2020		X			X	X
MW-09C	70151125006-7	10/27/2020		X			X	X
BLIND DUPLICATE	70151125008-9	10/27/2020	MW-09C	X			X	X
MW-05B	70151125010-11	10/27/2020		X			X	X
MW-08B	70151125012-13	10/27/2020		X			X	X
MW-08A	70151125014-15	10/27/2020		X			X	X
TRIP BLANK	70151125016	10/28/2020		X				
MW-06C	70151125017-18	10/28/2020		X			X	X
MW-06F	70151125019-20	10/28/2020		X			X	X
MW-06B	70151125021-22	10/28/2020		X			X	X
MW-06E	70151125023-24	10/28/2020		X			X	X
MW-06A	70151125025-26	10/28/2020		X			X	X
FIELD BLANK	70151125027-28	10/28/2020		X			X	X
TRIP BLANK	70151125029	10/29/2020		X				
LF-1	70151125030-31	10/29/2020		X			X	X
LF-2	70151125032-33	10/29/2020		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			

VOCs - volatile organic compounds %R - percent recovery RPD - relative percent difference

Comments:
Performance was acceptable, except the following:

3. The %R was below the QC limit for bromoform and dibromochloromethane in the MS associated with all samples and were qualified as an estimated detection limit (UJ).

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:

2A&B. Total calcium, iron, manganese, and mercury were detected in the Field Blank and/or method blank. Dissolved barium, calcium, iron, mercury, and zinc were detected in the Field Blank and/or method blank. The following metals were qualified as non-detect (UB): total iron in samples MW-05B, MW-06A, MW-06F, MW-09B, MW-09C, and OBS-1; dissolved iron in samples MW-06A, MW-06F and MW-09C; total manganese in sample MW-06A; total and dissolved mercury in all samples; and dissolved zinc in sample MW-06, MW-06E, MW-06F, MW-08A, and MW-08B.

INORGANIC ANALYSES
GENERAL CHEMISTRY

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

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

Comments:
Performance was acceptable, except the following:

1. Hexavalent chromium was analyzed outside the holding time for samples OSB-1, MW-06C, MW-06F, MW-06B, MW-06E, MW-06A, and FIELD BLANK. It was qualified as an estimated detection limit (UJ) based on holding time results in associated samples.

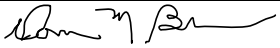
2B. TKN and sulfate were detected in the Field Blank. No qualification of the data was necessary.

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers:70151125

Sample ID	Analyte(s)	Qualifier	Reason(s)
VOCs			
All samples	Bromoform and dibromochloromethane	UJ	The %R was below the QC limit in the MS
Metals			
MW-05B, MW-06A, MW-06F, MW-09B, MW-09C, and OBS-1	Total iron	UB	Detected in the Field Blank and/or method blank
MW-06A, MW-06F and MW-09C	Dissolved iron		
MW-06A	Total manganese		
All samples	Total and dissolved mercury		
MW-06, MW-06E, MW-06F, MW-08A, and MW-08B	Dissolved zinc		
General Chemistry			
OSB-1, MW-06C, MW-06F, MW-06B, MW-06E, MW-06A, and FIELD BLANK	Hexavalent chromium	UJ	Analyzed outside the holding time

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 12/1/2020
VALIDATION PERFORMED BY SIGNATURE:	

APPENDIX D

LABORATORY DATA REPORTS

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

November 18, 2020

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

RE: Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Dear Keith Robins:

Enclosed are the analytical results for sample(s) received by the laboratory between October 27, 2020 and October 29, 2020. 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

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 10/27
Pace Project No.: 70151125

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: TRIP BLANK_10/27/2020 **Lab ID: 70151125001** Collected: 10/27/20 00:00 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/05/20 12:25	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/05/20 12:25	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/05/20 12:25	75-25-2	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 12:25	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 12:25	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/05/20 12:25	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 12:25	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/05/20 12:25	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/05/20 12:25	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/05/20 12:25	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 12:25	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 12:25	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 12:25	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/05/20 12:25	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 12:25	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 12:25	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 12:25	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 12:25	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 12:25	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/05/20 12:25	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 12:25	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		11/05/20 12:25	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/05/20 12:25	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/05/20 12:25	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/05/20 12:25	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 12:25	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 12:25	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/05/20 12:25	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/05/20 12:25	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/05/20 12:25	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/05/20 12:25	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	68-153	1		11/05/20 12:25	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-124	1		11/05/20 12:25	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		11/05/20 12:25	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 10/27
Pace Project No.: 70151125

Sample: OBS-1_10/27/2020 **Lab ID: 70151125002** Collected: 10/27/20 08:50 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/10/20 14:38	11/11/20 19:02	7429-90-5	
Barium	**43.5J**	ug/L	200	1	11/10/20 14:38	11/11/20 19:02	7440-39-3	
Calcium	**14900**	ug/L	200	1	11/10/20 14:38	11/11/20 19:02	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/10/20 14:38	11/11/20 19:02	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/10/20 14:38	11/11/20 19:02	7440-50-8	
Iron	**34.0J**	ug/L	100	1	11/10/20 14:38	11/11/20 19:02	7439-89-6	B
Lead	**<5.0**	ug/L	5.0	1	11/10/20 14:38	11/11/20 19:02	7439-92-1	
Magnesium	**10100**	ug/L	200	1	11/10/20 14:38	11/11/20 19:02	7439-95-4	
Manganese	**2520**	ug/L	10.0	1	11/10/20 14:38	11/11/20 19:02	7439-96-5	M1
Nickel	**5.8J**	ug/L	40.0	1	11/10/20 14:38	11/11/20 19:02	7440-02-0	
Potassium	**22200**	ug/L	5000	1	11/10/20 14:38	11/11/20 19:02	7440-09-7	
Sodium	**53900**	ug/L	5000	1	11/10/20 14:38	11/11/20 19:02	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/10/20 14:38	11/11/20 19:02	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**78800**	ug/L	830	1		11/11/20 19:02		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	11/11/20 10:51	11/12/20 13:16	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/05/20 15:01	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/05/20 15:01	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/05/20 15:01	75-25-2	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:01	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:01	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/05/20 15:01	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:01	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/05/20 15:01	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/05/20 15:01	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/05/20 15:01	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:01	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:01	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:01	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/05/20 15:01	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 15:01	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 15:01	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 15:01	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 15:01	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 15:01	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/05/20 15:01	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:01	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 10/27
Pace Project No.: 70151125

Sample: OBS-1_10/27/2020 **Lab ID: 70151125002** Collected: 10/27/20 08:50 Received: 10/27/20 17:20 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		11/05/20 15:01	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/05/20 15:01	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/05/20 15:01	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/05/20 15:01	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 15:01	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 15:01	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/05/20 15:01	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/05/20 15:01	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/05/20 15:01	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/05/20 15:01	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	68-153	1		11/05/20 15:01	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		11/05/20 15:01	460-00-4	
Toluene-d8 (S)	93	%	69-124	1		11/05/20 15:01	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**162**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Bicarbonate (CaCO3)	**162**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/20 00:00		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**282**	mg/L	10.0	1		10/30/20 10:12		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/20 08:54	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**22.0**	mg/L	5.0	1		11/12/20 22:25	14808-79-8	M1
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**18.5**	mg/L	1.0	10	11/09/20 07:16	11/10/20 14:35	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**0.65**	mg/L	0.050	1		10/27/20 22:35	7727-37-9	M1
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/27/20 20:48	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: OBS-1_10/27/2020 **Lab ID: 70151125002** Collected: 10/27/20 08:50 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	11/11/20 09:41	11/11/20 11:40		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/10/20 09:13	11/10/20 16:39	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**75.7**	mg/L	2.0	1		11/09/20 17:23	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**16.2**	mg/L	2.0	20		11/09/20 15:17	7664-41-7	

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(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: OBS-1_10/27/2020 DISS **Lab ID: 70151125003** Collected: 10/27/20 08:50 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/02/20 18:19	7429-90-5	
Barium, Dissolved	**47.0J**	ug/L	200	1		11/02/20 18:19	7440-39-3	
Calcium, Dissolved	**16100**	ug/L	1000	1		11/02/20 18:19	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/02/20 18:19	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/02/20 18:19	7440-50-8	
Iron, Dissolved	**30.0**	ug/L	20.0	1		11/02/20 18:19	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/02/20 18:19	7439-92-1	
Magnesium, Dissolved	**10900**	ug/L	1000	1		11/02/20 18:19	7439-95-4	
Manganese, Dissolved	**2710**	ug/L	10.0	1		11/02/20 18:19	7439-96-5	
Nickel, Dissolved	**6.3J**	ug/L	40.0	1		11/02/20 18:19	7440-02-0	
Potassium, Dissolved	**23100**	ug/L	5000	1		11/02/20 18:19	7440-09-7	
Sodium, Dissolved	**60500**	ug/L	5000	1		11/02/20 18:19	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		11/02/20 18:19	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/11/20 10:51	11/11/20 17:49	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/20 08:54	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-09B_10/27/2020 **Lab ID: 70151125004** Collected: 10/27/20 11:00 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/10/20 14:38	11/11/20 19:19	7429-90-5	
Barium	**81.1J**	ug/L	200	1	11/10/20 14:38	11/11/20 19:19	7440-39-3	
Calcium	**11400**	ug/L	200	1	11/10/20 14:38	11/11/20 19:19	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/10/20 14:38	11/11/20 19:19	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/10/20 14:38	11/11/20 19:19	7440-50-8	
Iron	**8.3J**	ug/L	100	1	11/10/20 14:38	11/11/20 19:19	7439-89-6	B
Lead	**<5.0**	ug/L	5.0	1	11/10/20 14:38	11/11/20 19:19	7439-92-1	
Magnesium	**4850**	ug/L	200	1	11/10/20 14:38	11/11/20 19:19	7439-95-4	
Manganese	**3010**	ug/L	10.0	1	11/10/20 14:38	11/11/20 19:19	7439-96-5	M1
Nickel	**<40.0**	ug/L	40.0	1	11/10/20 14:38	11/11/20 19:19	7440-02-0	
Potassium	**8770**	ug/L	5000	1	11/10/20 14:38	11/11/20 19:19	7440-09-7	
Sodium	**46400**	ug/L	5000	1	11/10/20 14:38	11/11/20 19:19	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/10/20 14:38	11/11/20 19:19	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**48400**	ug/L	830	1		11/11/20 19:19		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**0.13J**	ug/L	0.20	1	11/11/20 10:51	11/12/20 13:22	7439-97-6	B
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/05/20 15:21	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/05/20 15:21	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/05/20 15:21	75-25-2	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:21	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:21	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/05/20 15:21	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:21	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/05/20 15:21	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/05/20 15:21	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/05/20 15:21	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:21	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:21	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:21	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/05/20 15:21	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 15:21	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 15:21	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 15:21	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 15:21	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 15:21	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/05/20 15:21	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:21	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 10/27
Pace Project No.: 70151125

Sample: MW-09B_10/27/2020 **Lab ID: 70151125004** Collected: 10/27/20 11:00 Received: 10/27/20 17:20 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		11/05/20 15:21	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/05/20 15:21	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/05/20 15:21	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/05/20 15:21	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 15:21	71-55-6	
Trichloroethene	**1.5**	ug/L	1.0	1		11/05/20 15:21	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/05/20 15:21	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/05/20 15:21	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/05/20 15:21	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/05/20 15:21	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	68-153	1		11/05/20 15:21	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-124	1		11/05/20 15:21	460-00-4	
Toluene-d8 (S)	93	%	69-124	1		11/05/20 15:21	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**31.6**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Bicarbonate (CaCO3)	**31.6**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/20 00:00		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**216**	mg/L	10.0	1		10/30/20 10:13		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/20 08:55	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**20.1**	mg/L	5.0	1		11/12/20 23:05	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	11/09/20 07:16	11/09/20 16:41	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**6.9**	mg/L	0.50	10		10/27/20 22:41	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/27/20 20:51	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-09B_10/27/2020 **Lab ID: 70151125004** Collected: 10/27/20 11:00 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**4.6J**	ug/L	5.0	1	11/11/20 09:41	11/11/20 11:41		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/10/20 09:13	11/10/20 16:39	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**74.8**	mg/L	2.0	1		11/09/20 17:24	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.43**	mg/L	0.10	1		11/09/20 13:43	7664-41-7	

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(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-09B_10/27/2020 DISS **Lab ID: 70151125005** Collected: 10/27/20 11:00 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/02/20 18:21	7429-90-5	
Barium, Dissolved	**87.2J**	ug/L	200	1		11/02/20 18:21	7440-39-3	
Calcium, Dissolved	**12300**	ug/L	1000	1		11/02/20 18:21	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/02/20 18:21	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/02/20 18:21	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		11/02/20 18:21	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/02/20 18:21	7439-92-1	
Magnesium, Dissolved	**5250**	ug/L	1000	1		11/02/20 18:21	7439-95-4	
Manganese, Dissolved	**3200**	ug/L	10.0	1		11/02/20 18:21	7439-96-5	
Nickel, Dissolved	**<40.0**	ug/L	40.0	1		11/02/20 18:21	7440-02-0	
Potassium, Dissolved	**8990**	ug/L	5000	1		11/02/20 18:21	7440-09-7	
Sodium, Dissolved	**52200**	ug/L	5000	1		11/02/20 18:21	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		11/02/20 18:21	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/11/20 10:51	11/11/20 17:55	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/20 08:55	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-09C_10/27/2020 **Lab ID: 70151125006** Collected: 10/27/20 11:20 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/10/20 14:38	11/11/20 19:28	7429-90-5	
Barium	**63.6J**	ug/L	200	1	11/10/20 14:38	11/11/20 19:28	7440-39-3	
Calcium	**10600**	ug/L	200	1	11/10/20 14:38	11/11/20 19:28	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/10/20 14:38	11/11/20 19:28	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/10/20 14:38	11/11/20 19:28	7440-50-8	
Iron	**23.4J**	ug/L	100	1	11/10/20 14:38	11/11/20 19:28	7439-89-6	B
Lead	**<5.0**	ug/L	5.0	1	11/10/20 14:38	11/11/20 19:28	7439-92-1	
Magnesium	**8250**	ug/L	200	1	11/10/20 14:38	11/11/20 19:28	7439-95-4	
Manganese	**215**	ug/L	10.0	1	11/10/20 14:38	11/11/20 19:28	7439-96-5	
Nickel	**6.3J**	ug/L	40.0	1	11/10/20 14:38	11/11/20 19:28	7440-02-0	
Potassium	**12600**	ug/L	5000	1	11/10/20 14:38	11/11/20 19:28	7440-09-7	
Sodium	**62800**	ug/L	5000	1	11/10/20 14:38	11/11/20 19:28	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/10/20 14:38	11/11/20 19:28	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**60400**	ug/L	830	1		11/11/20 19:28		
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	11/11/20 10:51	11/12/20 13:28	7439-97-6	B
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/05/20 15:40	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/05/20 15:40	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/05/20 15:40	75-25-2	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:40	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:40	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/05/20 15:40	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:40	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/05/20 15:40	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/05/20 15:40	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/05/20 15:40	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:40	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:40	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:40	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/05/20 15:40	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 15:40	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 15:40	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 15:40	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 15:40	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 15:40	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/05/20 15:40	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 15:40	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 10/27
Pace Project No.: 70151125

Sample: MW-09C_10/27/2020 **Lab ID: 70151125006** Collected: 10/27/20 11:20 Received: 10/27/20 17:20 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		11/05/20 15:40	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/05/20 15:40	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/05/20 15:40	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/05/20 15:40	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 15:40	71-55-6	
Trichloroethene	**1.0**	ug/L	1.0	1		11/05/20 15:40	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/05/20 15:40	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/05/20 15:40	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/05/20 15:40	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/05/20 15:40	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	68-153	1		11/05/20 15:40	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-124	1		11/05/20 15:40	460-00-4	
Toluene-d8 (S)	93	%	69-124	1		11/05/20 15:40	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**48.3**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Bicarbonate (CaCO3)	**48.3**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/20 00:00		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**286**	mg/L	10.0	1		10/30/20 10:13		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/20 08:55	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**20.2**	mg/L	5.0	1		11/12/20 23:19	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	**2.1**	mg/L	0.10	1	11/09/20 07:16	11/09/20 16:41	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**0.49**	mg/L	0.050	1		10/27/20 22:42	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/27/20 20:53	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-09C_10/27/2020 **Lab ID: 70151125006** Collected: 10/27/20 11:20 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	11/11/20 09:41	11/11/20 11:45		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**2.6J**	ug/L	10.0	1	11/10/20 09:13	11/10/20 16:39	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**114**	mg/L	10.0	5		11/09/20 17:25	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**1.8**	mg/L	0.10	1		11/09/20 13:45	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 10/27
Pace Project No.: 70151125

Sample: MW-09C_10/27/2020 DISS **Lab ID: 70151125007** Collected: 10/27/20 11:20 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/02/20 18:28	7429-90-5	
Barium, Dissolved	**68.5J**	ug/L	200	1		11/02/20 18:28	7440-39-3	
Calcium, Dissolved	**11300**	ug/L	1000	1		11/02/20 18:28	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/02/20 18:28	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/02/20 18:28	7440-50-8	
Iron, Dissolved	**9.1J**	ug/L	20.0	1		11/02/20 18:28	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/02/20 18:28	7439-92-1	
Magnesium, Dissolved	**8900**	ug/L	1000	1		11/02/20 18:28	7439-95-4	
Manganese, Dissolved	**229**	ug/L	10.0	1		11/02/20 18:28	7439-96-5	
Nickel, Dissolved	**6.3J**	ug/L	40.0	1		11/02/20 18:28	7440-02-0	
Potassium, Dissolved	**12700**	ug/L	5000	1		11/02/20 18:28	7440-09-7	
Sodium, Dissolved	**70100**	ug/L	5000	1		11/02/20 18:28	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		11/02/20 18:28	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**0.10J**	ug/L	0.20	1	11/11/20 10:51	11/11/20 18:01	7439-97-6	B
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/20 08:55	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 10/27
Pace Project No.: 70151125

Sample: BLIND DUPLICATE 1_10/27/20 **Lab ID: 70151125008** Collected: 10/27/20 00:00 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/10/20 14:38	11/11/20 19:30	7429-90-5	
Barium	**63.1J**	ug/L	200	1	11/10/20 14:38	11/11/20 19:30	7440-39-3	
Calcium	**10500**	ug/L	200	1	11/10/20 14:38	11/11/20 19:30	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/10/20 14:38	11/11/20 19:30	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/10/20 14:38	11/11/20 19:30	7440-50-8	
Iron	**15.3J**	ug/L	100	1	11/10/20 14:38	11/11/20 19:30	7439-89-6	B
Lead	**<5.0**	ug/L	5.0	1	11/10/20 14:38	11/11/20 19:30	7439-92-1	
Magnesium	**8200**	ug/L	200	1	11/10/20 14:38	11/11/20 19:30	7439-95-4	
Manganese	**213**	ug/L	10.0	1	11/10/20 14:38	11/11/20 19:30	7439-96-5	
Nickel	**5.9J**	ug/L	40.0	1	11/10/20 14:38	11/11/20 19:30	7440-02-0	
Potassium	**12400**	ug/L	5000	1	11/10/20 14:38	11/11/20 19:30	7440-09-7	
Sodium	**62300**	ug/L	5000	1	11/10/20 14:38	11/11/20 19:30	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/10/20 14:38	11/11/20 19:30	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**60000**	ug/L	830	1		11/11/20 19:30		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**0.17J**	ug/L	0.20	1	11/11/20 10:51	11/12/20 13:29	7439-97-6	B
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/05/20 16:00	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/05/20 16:00	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/05/20 16:00	75-25-2	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:00	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:00	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/05/20 16:00	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:00	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/05/20 16:00	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/05/20 16:00	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/05/20 16:00	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:00	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:00	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:00	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/05/20 16:00	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 16:00	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 16:00	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 16:00	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 16:00	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 16:00	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/05/20 16:00	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:00	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 10/27
Pace Project No.: 70151125

Sample: BLIND DUPLICATE 1_10/27/20 **Lab ID: 70151125008** Collected: 10/27/20 00:00 Received: 10/27/20 17:20 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		11/05/20 16:00	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/05/20 16:00	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/05/20 16:00	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/05/20 16:00	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 16:00	71-55-6	
Trichloroethene	**1.0**	ug/L	1.0	1		11/05/20 16:00	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/05/20 16:00	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/05/20 16:00	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/05/20 16:00	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/05/20 16:00	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		11/05/20 16:00	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-124	1		11/05/20 16:00	460-00-4	
Toluene-d8 (S)	93	%	69-124	1		11/05/20 16:00	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**48.1**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Bicarbonate (CaCO3)	**48.1**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/20 00:00		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**244**	mg/L	10.0	1		10/30/20 10:13		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/20 08:54	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**20.5**	mg/L	5.0	1		11/12/20 23:32	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**2.1**	mg/L	0.10	1	11/09/20 07:16	11/09/20 16:44	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**0.49**	mg/L	0.050	1		10/27/20 22:43	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/27/20 20:54	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: BLIND DUPLICATE 1_10/27/20 **Lab ID: 70151125008** Collected: 10/27/20 00:00 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	11/11/20 09:41	11/11/20 11:46		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/10/20 09:13	11/10/20 16:39	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**114**	mg/L	10.0	5		11/10/20 17:40	16887-00-6	M1
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**1.8**	mg/L	0.10	1		11/09/20 13:46	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: BLIND DUPLICATE 1_10/27/20 DIS **Lab ID: 70151125009** Collected: 10/27/20 00:00 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/02/20 18:31	7429-90-5	
Barium, Dissolved	**68.0J**	ug/L	200	1		11/02/20 18:31	7440-39-3	
Calcium, Dissolved	**11300**	ug/L	1000	1		11/02/20 18:31	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/02/20 18:31	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/02/20 18:31	7440-50-8	
Iron, Dissolved	**8.8J**	ug/L	20.0	1		11/02/20 18:31	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/02/20 18:31	7439-92-1	
Magnesium, Dissolved	**8820**	ug/L	1000	1		11/02/20 18:31	7439-95-4	
Manganese, Dissolved	**227**	ug/L	10.0	1		11/02/20 18:31	7439-96-5	
Nickel, Dissolved	**5.9J**	ug/L	40.0	1		11/02/20 18:31	7440-02-0	
Potassium, Dissolved	**12600**	ug/L	5000	1		11/02/20 18:31	7440-09-7	
Sodium, Dissolved	**69700**	ug/L	5000	1		11/02/20 18:31	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		11/02/20 18:31	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**0.11J**	ug/L	0.20	1	11/11/20 10:51	11/11/20 18:02	7439-97-6	B
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/20 08:54	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-05B_10/27/2020 **Lab ID: 70151125010** Collected: 10/27/20 13:00 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/10/20 14:38	11/11/20 19:37	7429-90-5	
Barium	**41.2J**	ug/L	200	1	11/10/20 14:38	11/11/20 19:37	7440-39-3	
Calcium	**12900**	ug/L	200	1	11/10/20 14:38	11/11/20 19:37	7440-70-2	
Chromium	**2.1J**	ug/L	10.0	1	11/10/20 14:38	11/11/20 19:37	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/10/20 14:38	11/11/20 19:37	7440-50-8	
Iron	**23.3J**	ug/L	100	1	11/10/20 14:38	11/11/20 19:37	7439-89-6	B
Lead	**<5.0**	ug/L	5.0	1	11/10/20 14:38	11/11/20 19:37	7439-92-1	
Magnesium	**5310**	ug/L	200	1	11/10/20 14:38	11/11/20 19:37	7439-95-4	
Manganese	**3250**	ug/L	10.0	1	11/10/20 14:38	11/11/20 19:37	7439-96-5	
Nickel	**11.4J**	ug/L	40.0	1	11/10/20 14:38	11/11/20 19:37	7440-02-0	
Potassium	**10600**	ug/L	5000	1	11/10/20 14:38	11/11/20 19:37	7440-09-7	
Sodium	**64900**	ug/L	5000	1	11/10/20 14:38	11/11/20 19:37	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/10/20 14:38	11/11/20 19:37	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**54100**	ug/L	830	1		11/11/20 19:37		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**0.20**	ug/L	0.20	1	11/11/20 10:51	11/12/20 13:36	7439-97-6	B
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/05/20 16:19	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/05/20 16:19	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/05/20 16:19	75-25-2	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:19	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:19	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/05/20 16:19	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:19	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/05/20 16:19	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/05/20 16:19	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/05/20 16:19	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:19	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:19	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:19	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/05/20 16:19	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 16:19	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 16:19	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 16:19	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 16:19	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 16:19	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/05/20 16:19	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:19	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 10/27
Pace Project No.: 70151125

Sample: MW-05B_10/27/2020 **Lab ID: 70151125010** Collected: 10/27/20 13:00 Received: 10/27/20 17:20 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		11/05/20 16:19	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/05/20 16:19	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/05/20 16:19	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/05/20 16:19	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 16:19	71-55-6	
Trichloroethene	**1.7**	ug/L	1.0	1		11/05/20 16:19	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/05/20 16:19	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/05/20 16:19	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/05/20 16:19	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/05/20 16:19	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	68-153	1		11/05/20 16:19	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		11/05/20 16:19	460-00-4	
Toluene-d8 (S)	93	%	69-124	1		11/05/20 16:19	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**39.0**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Bicarbonate (CaCO3)	**39.0**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/20 00:00		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**274**	mg/L	10.0	1		10/30/20 10:24		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/20 08:55	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**25.6**	mg/L	5.0	1		11/13/20 00:37	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	11/09/20 07:16	11/09/20 16:45	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**5.1**	mg/L	0.50	10		10/27/20 22:45	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**0.037J**	mg/L	0.050	1		10/27/20 20:55	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-05B_10/27/2020 **Lab ID: 70151125010** Collected: 10/27/20 13:00 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	11/11/20 09:41	11/11/20 11:46		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/10/20 09:13	11/10/20 16:39	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**89.5**	mg/L	2.0	1		11/09/20 17:27	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**<0.10**	mg/L	0.10	1		11/09/20 13:47	7664-41-7	

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-05B_10/27/2020 DISS **Lab ID: 70151125011** Collected: 10/27/20 13:00 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/02/20 18:33	7429-90-5	
Barium, Dissolved	**42.6J**	ug/L	200	1		11/02/20 18:33	7440-39-3	
Calcium, Dissolved	**13500**	ug/L	1000	1		11/02/20 18:33	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/02/20 18:33	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/02/20 18:33	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		11/02/20 18:33	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/02/20 18:33	7439-92-1	
Magnesium, Dissolved	**5530**	ug/L	1000	1		11/02/20 18:33	7439-95-4	
Manganese, Dissolved	**3310**	ug/L	10.0	1		11/02/20 18:33	7439-96-5	
Nickel, Dissolved	**9.8J**	ug/L	40.0	1		11/02/20 18:33	7440-02-0	
Potassium, Dissolved	**10400**	ug/L	5000	1		11/02/20 18:33	7440-09-7	
Sodium, Dissolved	**70200**	ug/L	5000	1		11/02/20 18:33	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		11/02/20 18:33	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**0.12J**	ug/L	0.20	1	11/11/20 10:51	11/11/20 18:09	7439-97-6	B
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/20 08:55	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 10/27
Pace Project No.: 70151125

Sample: MW-08B_10/27/2020 **Lab ID: 70151125012** Collected: 10/27/20 14:55 Received: 10/27/20 17:20 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	**38.0J**	ug/L	200	1	11/10/20 14:38	11/11/20 19:40	7429-90-5	
Barium	**94.0J**	ug/L	200	1	11/10/20 14:38	11/11/20 19:40	7440-39-3	
Calcium	**20600**	ug/L	200	1	11/10/20 14:38	11/11/20 19:40	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/10/20 14:38	11/11/20 19:40	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/10/20 14:38	11/11/20 19:40	7440-50-8	
Iron	**<100**	ug/L	100	1	11/10/20 14:38	11/11/20 19:40	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/10/20 14:38	11/11/20 19:40	7439-92-1	
Magnesium	**6180**	ug/L	200	1	11/10/20 14:38	11/11/20 19:40	7439-95-4	
Manganese	**851**	ug/L	10.0	1	11/10/20 14:38	11/11/20 19:40	7439-96-5	
Nickel	**19.8J**	ug/L	40.0	1	11/10/20 14:38	11/11/20 19:40	7440-02-0	
Potassium	**11100**	ug/L	5000	1	11/10/20 14:38	11/11/20 19:40	7440-09-7	
Sodium	**136000**	ug/L	5000	1	11/10/20 14:38	11/11/20 19:40	7440-23-5	
Zinc	**41.1**	ug/L	20.0	1	11/10/20 14:38	11/11/20 19:40	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**76900**	ug/L	830	1		11/11/20 19:40		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**0.18J**	ug/L	0.20	1	11/11/20 10:51	11/12/20 13:38	7439-97-6	B
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/05/20 16:39	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/05/20 16:39	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/05/20 16:39	75-25-2	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:39	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:39	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/05/20 16:39	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:39	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/05/20 16:39	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/05/20 16:39	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/05/20 16:39	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:39	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:39	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:39	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/05/20 16:39	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 16:39	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 16:39	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 16:39	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 16:39	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 16:39	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/05/20 16:39	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:39	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 10/27
Pace Project No.: 70151125

Sample: MW-08B_10/27/2020 **Lab ID: 70151125012** Collected: 10/27/20 14:55 Received: 10/27/20 17:20 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		11/05/20 16:39	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/05/20 16:39	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/05/20 16:39	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/05/20 16:39	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 16:39	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 16:39	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/05/20 16:39	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/05/20 16:39	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/05/20 16:39	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/05/20 16:39	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	68-153	1		11/05/20 16:39	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		11/05/20 16:39	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		11/05/20 16:39	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**9.9**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Bicarbonate (CaCO3)	**9.9**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/20 00:00		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**473**	mg/L	10.0	1		10/30/20 10:25		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/20 08:56	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**30.8**	mg/L	5.0	1		11/13/20 00:51	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	**0.17**	mg/L	0.10	1	11/09/20 07:16	11/09/20 16:46	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**3.3**	mg/L	0.50	10		10/27/20 22:46	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/27/20 20:56	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-08B_10/27/2020 **Lab ID: 70151125012** Collected: 10/27/20 14:55 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	11/11/20 09:41	11/11/20 11:47		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/10/20 09:13	11/10/20 16:39	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**267**	mg/L	20.0	10		11/09/20 17:28	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**<0.10**	mg/L	0.10	1		11/09/20 13:51	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-08B_10/27/2020 DISS **Lab ID: 70151125013** Collected: 10/27/20 14:55 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/02/20 18:35	7429-90-5	
Barium, Dissolved	**97.5J**	ug/L	200	1		11/02/20 18:35	7440-39-3	
Calcium, Dissolved	**21200**	ug/L	1000	1		11/02/20 18:35	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/02/20 18:35	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/02/20 18:35	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		11/02/20 18:35	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/02/20 18:35	7439-92-1	
Magnesium, Dissolved	**6390**	ug/L	1000	1		11/02/20 18:35	7439-95-4	
Manganese, Dissolved	**872**	ug/L	10.0	1		11/02/20 18:35	7439-96-5	
Nickel, Dissolved	**21.2J**	ug/L	40.0	1		11/02/20 18:35	7440-02-0	
Potassium, Dissolved	**10900**	ug/L	5000	1		11/02/20 18:35	7440-09-7	
Sodium, Dissolved	**147000**	ug/L	5000	1		11/02/20 18:35	7440-23-5	
Zinc, Dissolved	**42.9**	ug/L	20.0	1		11/02/20 18:35	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**0.10J**	ug/L	0.20	1	11/11/20 10:51	11/11/20 18:10	7439-97-6	B
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/20 08:56	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-08A_10/27/2020 **Lab ID: 70151125014** Collected: 10/27/20 16:05 Received: 10/27/20 17:20 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	**41.4J**	ug/L	200	1	11/10/20 14:38	11/11/20 19:42	7429-90-5	
Barium	**59.9J**	ug/L	200	1	11/10/20 14:38	11/11/20 19:42	7440-39-3	
Calcium	**10700**	ug/L	200	1	11/10/20 14:38	11/11/20 19:42	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/10/20 14:38	11/11/20 19:42	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/10/20 14:38	11/11/20 19:42	7440-50-8	
Iron	**<100**	ug/L	100	1	11/10/20 14:38	11/11/20 19:42	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/10/20 14:38	11/11/20 19:42	7439-92-1	
Magnesium	**5320**	ug/L	200	1	11/10/20 14:38	11/11/20 19:42	7439-95-4	
Manganese	**91.8**	ug/L	10.0	1	11/10/20 14:38	11/11/20 19:42	7439-96-5	
Nickel	**7.3J**	ug/L	40.0	1	11/10/20 14:38	11/11/20 19:42	7440-02-0	
Potassium	**5220**	ug/L	5000	1	11/10/20 14:38	11/11/20 19:42	7440-09-7	
Sodium	**21800**	ug/L	5000	1	11/10/20 14:38	11/11/20 19:42	7440-23-5	
Zinc	**9.6J**	ug/L	20.0	1	11/10/20 14:38	11/11/20 19:42	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**48600**	ug/L	830	1		11/11/20 19:42		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**0.13J**	ug/L	0.20	1	11/11/20 10:51	11/12/20 13:39	7439-97-6	B
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/05/20 16:58	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/05/20 16:58	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/05/20 16:58	75-25-2	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:58	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:58	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/05/20 16:58	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:58	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/05/20 16:58	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/05/20 16:58	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/05/20 16:58	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:58	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:58	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:58	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/05/20 16:58	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 16:58	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 16:58	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 16:58	75-35-4	
cis-1,2-Dichloroethene	**21.2**	ug/L	1.0	1		11/05/20 16:58	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 16:58	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/05/20 16:58	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 16:58	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 10/27
Pace Project No.: 70151125

Sample: MW-08A_10/27/2020 **Lab ID: 70151125014** Collected: 10/27/20 16:05 Received: 10/27/20 17:20 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		11/05/20 16:58	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/05/20 16:58	75-09-2	
Tetrachloroethene	**8.4**	ug/L	1.0	1		11/05/20 16:58	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/05/20 16:58	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 16:58	71-55-6	
Trichloroethene	**3.8**	ug/L	1.0	1		11/05/20 16:58	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/05/20 16:58	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/05/20 16:58	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/05/20 16:58	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/05/20 16:58	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		11/05/20 16:58	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		11/05/20 16:58	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		11/05/20 16:58	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**12.7**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Bicarbonate (CaCO3)	**12.7**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/20 00:00		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**134**	mg/L	10.0	1		10/30/20 10:25		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/20 08:56	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**26.1**	mg/L	5.0	1		11/13/20 01:04	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	11/09/20 07:16	11/09/20 16:47	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**2.9**	mg/L	0.50	10		10/27/20 22:47	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/27/20 20:57	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-08A_10/27/2020 **Lab ID: 70151125014** Collected: 10/27/20 16:05 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	11/11/20 09:41	11/11/20 11:48		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/10/20 09:13	11/10/20 16:39	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**41.9**	mg/L	2.0	1		11/09/20 17:29	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.083J**	mg/L	0.10	1		11/09/20 13:52	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-08A_10/27/2020 DISS **Lab ID: 70151125015** Collected: 10/27/20 16:05 Received: 10/27/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/02/20 18:38	7429-90-5	
Barium, Dissolved	**67.5J**	ug/L	200	1		11/02/20 18:38	7440-39-3	
Calcium, Dissolved	**12600**	ug/L	1000	1		11/02/20 18:38	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/02/20 18:38	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/02/20 18:38	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		11/02/20 18:38	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/02/20 18:38	7439-92-1	
Magnesium, Dissolved	**5790**	ug/L	1000	1		11/02/20 18:38	7439-95-4	
Manganese, Dissolved	**91.8**	ug/L	10.0	1		11/02/20 18:38	7439-96-5	
Nickel, Dissolved	**8.5J**	ug/L	40.0	1		11/02/20 18:38	7440-02-0	
Potassium, Dissolved	**5610**	ug/L	5000	1		11/02/20 18:38	7440-09-7	
Sodium, Dissolved	**26400**	ug/L	5000	1		11/02/20 18:38	7440-23-5	
Zinc, Dissolved	**11.1J**	ug/L	20.0	1		11/02/20 18:38	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/11/20 10:51	11/11/20 18:12	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/28/20 08:56	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: TRIP BLANK_10/28/20 **Lab ID: 70151125016** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/06/20 11:38	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/06/20 11:38	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/06/20 11:38	75-25-2	v3
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 11:38	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 11:38	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/06/20 11:38	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 11:38	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/06/20 11:38	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/06/20 11:38	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/06/20 11:38	124-48-1	v3
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 11:38	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 11:38	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 11:38	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/06/20 11:38	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 11:38	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 11:38	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 11:38	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 11:38	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 11:38	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/06/20 11:38	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 11:38	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		11/06/20 11:38	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/06/20 11:38	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/06/20 11:38	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/06/20 11:38	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 11:38	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 11:38	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/06/20 11:38	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/06/20 11:38	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/06/20 11:38	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/06/20 11:38	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	68-153	1		11/06/20 11:38	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		11/06/20 11:38	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		11/06/20 11:38	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 10/27
Pace Project No.: 70151125

Sample: MW-06C_10/28/20 **Lab ID: 70151125017** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/13/20 10:46	11/13/20 15:08	7429-90-5	
Barium	**24.3J**	ug/L	200	1	11/13/20 10:46	11/13/20 15:08	7440-39-3	
Calcium	**30600**	ug/L	200	1	11/13/20 10:46	11/13/20 15:08	7440-70-2	
Chromium	**3.1J**	ug/L	10.0	1	11/13/20 10:46	11/13/20 15:08	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/13/20 10:46	11/13/20 15:08	7440-50-8	
Iron	**3780**	ug/L	100	1	11/13/20 10:46	11/13/20 15:08	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/13/20 10:46	11/13/20 15:08	7439-92-1	
Magnesium	**11600**	ug/L	200	1	11/13/20 10:46	11/13/20 15:08	7439-95-4	
Manganese	**76.4**	ug/L	10.0	1	11/13/20 10:46	11/13/20 15:08	7439-96-5	
Nickel	**12.3J**	ug/L	40.0	1	11/13/20 10:46	11/13/20 15:08	7440-02-0	
Potassium	**66800**	ug/L	5000	1	11/13/20 10:46	11/13/20 15:08	7440-09-7	
Sodium	**219000**	ug/L	5000	1	11/13/20 10:46	11/13/20 15:08	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/13/20 10:46	11/13/20 15:08	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**124000**	ug/L	830	1		11/13/20 15:08		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**0.18J**	ug/L	0.20	1	11/11/20 10:51	11/12/20 13:46	7439-97-6	B
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**1.4**	ug/L	1.0	1		11/06/20 14:20	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/06/20 14:20	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/06/20 14:20	75-25-2	v3
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 14:20	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 14:20	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/06/20 14:20	56-23-5	
Chlorobenzene	**2.9**	ug/L	1.0	1		11/06/20 14:20	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/06/20 14:20	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/06/20 14:20	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/06/20 14:20	124-48-1	v3
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 14:20	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 14:20	541-73-1	
1,4-Dichlorobenzene	**1.5**	ug/L	1.0	1		11/06/20 14:20	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/06/20 14:20	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 14:20	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 14:20	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 14:20	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 14:20	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 14:20	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/06/20 14:20	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 14:20	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 10/27
Pace Project No.: 70151125

Sample: MW-06C_10/28/20 **Lab ID: 70151125017** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 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)	**1.4**	ug/L	1.0	1		11/06/20 14:20	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/06/20 14:20	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/06/20 14:20	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/06/20 14:20	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 14:20	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 14:20	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/06/20 14:20	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/06/20 14:20	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/06/20 14:20	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/06/20 14:20	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	68-153	1		11/06/20 14:20	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		11/06/20 14:20	460-00-4	
Toluene-d8 (S)	89	%	69-124	1		11/06/20 14:20	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**603**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Bicarbonate (CaCO3)	**603**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/20 00:00		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**849**	mg/L	10.0	1		10/30/20 10:34		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/29/20 09:52	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**14.5**	mg/L	5.0	1		11/13/20 01:18	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	**86.4**	mg/L	5.0	50	11/09/20 07:16	11/10/20 14:36	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		10/28/20 22:54	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/28/20 21:37	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-06C_10/28/20 **Lab ID: 70151125017** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**5.9**	ug/L	5.0	1	11/11/20 09:41	11/11/20 11:49		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/11/20 09:23	11/11/20 17:03	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**248**	mg/L	20.0	10		11/09/20 17:29	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**79.5**	mg/L	2.0	20		11/09/20 15:21	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 10/27
Pace Project No.: 70151125

Sample: MW-06C_10/28/20 DISS **Lab ID: 70151125018** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/02/20 18:40	7429-90-5	
Barium, Dissolved	**27.2J**	ug/L	200	1		11/02/20 18:40	7440-39-3	
Calcium, Dissolved	**33800**	ug/L	1000	1		11/02/20 18:40	7440-70-2	
Chromium, Dissolved	**4.1J**	ug/L	10.0	1		11/02/20 18:40	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/02/20 18:40	7440-50-8	
Iron, Dissolved	**4160**	ug/L	20.0	1		11/02/20 18:40	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/02/20 18:40	7439-92-1	
Magnesium, Dissolved	**12800**	ug/L	1000	1		11/02/20 18:40	7439-95-4	
Manganese, Dissolved	**84.7**	ug/L	10.0	1		11/02/20 18:40	7439-96-5	
Nickel, Dissolved	**15.1J**	ug/L	40.0	1		11/02/20 18:40	7440-02-0	
Potassium, Dissolved	**70100**	ug/L	5000	1		11/02/20 18:40	7440-09-7	
Sodium, Dissolved	**248000**	ug/L	5000	1		11/02/20 18:40	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		11/02/20 18:40	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/11/20 10:51	11/11/20 18:14	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/29/20 09:53	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-06F_10/28/20 **Lab ID: 70151125019** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 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	**177J**	ug/L	200	1	11/13/20 10:46	11/13/20 15:19	7429-90-5	
Barium	**228**	ug/L	200	1	11/13/20 10:46	11/13/20 15:19	7440-39-3	
Calcium	**40200**	ug/L	200	1	11/13/20 10:46	11/13/20 15:19	7440-70-2	
Chromium	**1.5J**	ug/L	10.0	1	11/13/20 10:46	11/13/20 15:19	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/13/20 10:46	11/13/20 15:19	7440-50-8	
Iron	**91.7J**	ug/L	100	1	11/13/20 10:46	11/13/20 15:19	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/13/20 10:46	11/13/20 15:19	7439-92-1	
Magnesium	**15500**	ug/L	200	1	11/13/20 10:46	11/13/20 15:19	7439-95-4	
Manganese	**114**	ug/L	10.0	1	11/13/20 10:46	11/13/20 15:19	7439-96-5	
Nickel	**29.2J**	ug/L	40.0	1	11/13/20 10:46	11/13/20 15:19	7440-02-0	
Potassium	**9510**	ug/L	5000	1	11/13/20 10:46	11/13/20 15:19	7440-09-7	
Sodium	**138000**	ug/L	5000	1	11/13/20 10:46	11/13/20 15:19	7440-23-5	
Zinc	**26.4**	ug/L	20.0	1	11/13/20 10:46	11/13/20 15:19	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**164000**	ug/L	830	1		11/13/20 15:19		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**0.37**	ug/L	0.20	1	11/11/20 10:51	11/12/20 13:48	7439-97-6	B
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/06/20 14:40	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/06/20 14:40	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/06/20 14:40	75-25-2	v3
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 14:40	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 14:40	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/06/20 14:40	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 14:40	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/06/20 14:40	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/06/20 14:40	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/06/20 14:40	124-48-1	v3
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 14:40	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 14:40	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 14:40	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/06/20 14:40	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 14:40	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 14:40	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 14:40	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 14:40	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 14:40	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/06/20 14:40	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 14:40	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 10/27
Pace Project No.: 70151125

Sample: MW-06F_10/28/20 **Lab ID: 70151125019** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 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		11/06/20 14:40	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/06/20 14:40	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/06/20 14:40	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/06/20 14:40	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 14:40	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 14:40	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/06/20 14:40	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/06/20 14:40	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/06/20 14:40	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/06/20 14:40	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	68-153	1		11/06/20 14:40	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		11/06/20 14:40	460-00-4	
Toluene-d8 (S)	90	%	69-124	1		11/06/20 14:40	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**<1.0**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Bicarbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/20 00:00		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**680**	mg/L	10.0	1		10/30/20 10:42		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/29/20 09:53	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**<5.0**	mg/L	5.0	1		11/13/20 01:31	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	11/09/20 07:16	11/09/20 16:48	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	0.50	10		10/28/20 22:58	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/28/20 21:38	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-06F_10/28/20 **Lab ID: 70151125019** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	11/11/20 09:41	11/11/20 11:50		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/11/20 09:23	11/11/20 17:03	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**358**	mg/L	20.0	10		11/09/20 17:31	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.34**	mg/L	0.10	1		11/09/20 13:54	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-06F_10/28/20 DISS **Lab ID: 70151125020** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 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	**169J**	ug/L	200	1		11/02/20 18:42	7429-90-5	
Barium, Dissolved	**250**	ug/L	200	1		11/02/20 18:42	7440-39-3	
Calcium, Dissolved	**43800**	ug/L	1000	1		11/02/20 18:42	7440-70-2	
Chromium, Dissolved	**1.8J**	ug/L	10.0	1		11/02/20 18:42	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/02/20 18:42	7440-50-8	
Iron, Dissolved	**80.2**	ug/L	20.0	1		11/02/20 18:42	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/02/20 18:42	7439-92-1	
Magnesium, Dissolved	**16800**	ug/L	1000	1		11/02/20 18:42	7439-95-4	
Manganese, Dissolved	**124**	ug/L	10.0	1		11/02/20 18:42	7439-96-5	
Nickel, Dissolved	**33.3J**	ug/L	40.0	1		11/02/20 18:42	7440-02-0	
Potassium, Dissolved	**9750**	ug/L	5000	1		11/02/20 18:42	7440-09-7	
Sodium, Dissolved	**155000**	ug/L	5000	1		11/02/20 18:42	7440-23-5	
Zinc, Dissolved	**27.0**	ug/L	20.0	1		11/02/20 18:42	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**0.11J**	ug/L	0.20	1	11/11/20 10:51	11/11/20 18:15	7439-97-6	B
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/29/20 09:53	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-06B_10/28/20 **Lab ID: 70151125021** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 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	**47.8J**	ug/L	200	1	11/13/20 10:46	11/13/20 15:33	7429-90-5	
Barium	**39.2J**	ug/L	200	1	11/13/20 10:46	11/13/20 15:33	7440-39-3	
Calcium	**13500**	ug/L	200	1	11/13/20 10:46	11/13/20 15:33	7440-70-2	
Chromium	**3.9J**	ug/L	10.0	1	11/13/20 10:46	11/13/20 15:33	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/13/20 10:46	11/13/20 15:33	7440-50-8	
Iron	**8870**	ug/L	100	1	11/13/20 10:46	11/13/20 15:33	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/13/20 10:46	11/13/20 15:33	7439-92-1	
Magnesium	**11100**	ug/L	200	1	11/13/20 10:46	11/13/20 15:33	7439-95-4	
Manganese	**40.5**	ug/L	10.0	1	11/13/20 10:46	11/13/20 15:33	7439-96-5	
Nickel	**12.7J**	ug/L	40.0	1	11/13/20 10:46	11/13/20 15:33	7440-02-0	
Potassium	**84700**	ug/L	5000	1	11/13/20 10:46	11/13/20 15:33	7440-09-7	
Sodium	**215000**	ug/L	5000	1	11/13/20 10:46	11/13/20 15:33	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/13/20 10:46	11/13/20 15:33	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**79400**	ug/L	830	1		11/13/20 15:33		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	11/11/20 10:51	11/12/20 13:49	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**1.2**	ug/L	1.0	1		11/06/20 15:00	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/06/20 15:00	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/06/20 15:00	75-25-2	M1,v3
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:00	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:00	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/06/20 15:00	56-23-5	
Chlorobenzene	**4.5**	ug/L	1.0	1		11/06/20 15:00	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/06/20 15:00	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/06/20 15:00	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/06/20 15:00	124-48-1	M1,v3
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:00	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:00	541-73-1	
1,4-Dichlorobenzene	**2.8**	ug/L	1.0	1		11/06/20 15:00	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/06/20 15:00	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 15:00	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 15:00	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:00	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:00	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:00	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/06/20 15:00	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:00	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 10/27
Pace Project No.: 70151125

Sample: MW-06B_10/28/20 **Lab ID: 70151125021** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 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)	**1.7**	ug/L	1.0	1		11/06/20 15:00	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/06/20 15:00	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:00	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/06/20 15:00	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 15:00	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:00	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/06/20 15:00	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/06/20 15:00	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/06/20 15:00	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/06/20 15:00	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		11/06/20 15:00	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-124	1		11/06/20 15:00	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		11/06/20 15:00	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**676**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Bicarbonate (CaCO3)	**676**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/20 00:00		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**793**	mg/L	10.0	1		10/30/20 10:42		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/29/20 09:53	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**<5.0**	mg/L	5.0	1		11/13/20 01:45	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	**121**	mg/L	5.0	50	11/09/20 07:16	11/10/20 14:36	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		10/28/20 22:59	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/28/20 21:40	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-06B_10/28/20 **Lab ID: 70151125021** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**7.6**	ug/L	5.0	1	11/11/20 09:41	11/11/20 11:50		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/11/20 09:23	11/11/20 17:03	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**230**	mg/L	20.0	10		11/09/20 17:32	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**99.3**	mg/L	2.0	20		11/10/20 14:16	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 10/27
Pace Project No.: 70151125

Sample: MW-06B_10/28/20 DISS **Lab ID: 70151125022** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/02/20 18:45	7429-90-5	
Barium, Dissolved	**42.5J**	ug/L	200	1		11/02/20 18:45	7440-39-3	
Calcium, Dissolved	**14400**	ug/L	1000	1		11/02/20 18:45	7440-70-2	
Chromium, Dissolved	**3.9J**	ug/L	10.0	1		11/02/20 18:45	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/02/20 18:45	7440-50-8	
Iron, Dissolved	**9350**	ug/L	20.0	1		11/02/20 18:45	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/02/20 18:45	7439-92-1	
Magnesium, Dissolved	**11900**	ug/L	1000	1		11/02/20 18:45	7439-95-4	
Manganese, Dissolved	**41.8**	ug/L	10.0	1		11/02/20 18:45	7439-96-5	
Nickel, Dissolved	**14.3J**	ug/L	40.0	1		11/02/20 18:45	7440-02-0	
Potassium, Dissolved	**87400**	ug/L	5000	1		11/02/20 18:45	7440-09-7	
Sodium, Dissolved	**237000**	ug/L	5000	1		11/02/20 18:45	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		11/02/20 18:45	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/11/20 10:51	11/11/20 18:17	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/29/20 09:54	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-06E_10/28/20 **Lab ID: 70151125023** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/13/20 10:46	11/13/20 15:36	7429-90-5	
Barium	**153J**	ug/L	200	1	11/13/20 10:46	11/13/20 15:36	7440-39-3	
Calcium	**23200**	ug/L	200	1	11/13/20 10:46	11/13/20 15:36	7440-70-2	
Chromium	**2.4J**	ug/L	10.0	1	11/13/20 10:46	11/13/20 15:36	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/13/20 10:46	11/13/20 15:36	7440-50-8	
Iron	**12100**	ug/L	100	1	11/13/20 10:46	11/13/20 15:36	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/13/20 10:46	11/13/20 15:36	7439-92-1	
Magnesium	**12300**	ug/L	200	1	11/13/20 10:46	11/13/20 15:36	7439-95-4	
Manganese	**309**	ug/L	10.0	1	11/13/20 10:46	11/13/20 15:36	7439-96-5	
Nickel	**15.1J**	ug/L	40.0	1	11/13/20 10:46	11/13/20 15:36	7440-02-0	
Potassium	**33200**	ug/L	5000	1	11/13/20 10:46	11/13/20 15:36	7440-09-7	
Sodium	**157000**	ug/L	5000	1	11/13/20 10:46	11/13/20 15:36	7440-23-5	
Zinc	**12.4J**	ug/L	20.0	1	11/13/20 10:46	11/13/20 15:36	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**109000**	ug/L	830	1		11/13/20 15:36		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**<0.20**	ug/L	0.20	1	11/11/20 10:51	11/12/20 13:51	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/06/20 15:20	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/06/20 15:20	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/06/20 15:20	75-25-2	v3
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:20	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:20	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/06/20 15:20	56-23-5	
Chlorobenzene	**1.5**	ug/L	1.0	1		11/06/20 15:20	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/06/20 15:20	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/06/20 15:20	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/06/20 15:20	124-48-1	v3
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:20	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:20	541-73-1	
1,4-Dichlorobenzene	**1.2**	ug/L	1.0	1		11/06/20 15:20	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/06/20 15:20	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 15:20	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 15:20	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:20	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:20	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:20	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/06/20 15:20	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:20	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 10/27
Pace Project No.: 70151125

Sample: MW-06E_10/28/20 **Lab ID: 70151125023** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 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		11/06/20 15:20	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/06/20 15:20	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:20	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/06/20 15:20	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 15:20	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:20	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/06/20 15:20	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/06/20 15:20	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/06/20 15:20	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/06/20 15:20	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	68-153	1		11/06/20 15:20	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-124	1		11/06/20 15:20	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		11/06/20 15:20	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**145**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Bicarbonate (CaCO3)	**145**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/20 00:00		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**648**	mg/L	10.0	1		11/02/20 10:43		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/29/20 09:54	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**46.5**	mg/L	5.0	1		11/13/20 01:58	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	**35.1**	mg/L	2.0	20	11/09/20 07:16	11/10/20 14:37	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	0.50	10		10/28/20 23:00	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**0.042J**	mg/L	0.050	1		10/28/20 21:41	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-06E_10/28/20 **Lab ID: 70151125023** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**4.9J**	ug/L	5.0	1	11/11/20 09:41	11/11/20 11:51		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/11/20 09:23	11/11/20 17:03	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**308**	mg/L	20.0	10		11/09/20 17:33	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**31.1**	mg/L	1.0	10		11/09/20 15:23	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 10/27
Pace Project No.: 70151125

Sample: MW-06E_10/28/20 DISS **Lab ID: 70151125024** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/02/20 18:47	7429-90-5	
Barium, Dissolved	**158J**	ug/L	200	1		11/02/20 18:47	7440-39-3	
Calcium, Dissolved	**24000**	ug/L	1000	1		11/02/20 18:47	7440-70-2	
Chromium, Dissolved	**2.1J**	ug/L	10.0	1		11/02/20 18:47	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/02/20 18:47	7440-50-8	
Iron, Dissolved	**12400**	ug/L	20.0	1		11/02/20 18:47	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/02/20 18:47	7439-92-1	
Magnesium, Dissolved	**12700**	ug/L	1000	1		11/02/20 18:47	7439-95-4	
Manganese, Dissolved	**316**	ug/L	10.0	1		11/02/20 18:47	7439-96-5	
Nickel, Dissolved	**15.5J**	ug/L	40.0	1		11/02/20 18:47	7440-02-0	
Potassium, Dissolved	**33500**	ug/L	5000	1		11/02/20 18:47	7440-09-7	
Sodium, Dissolved	**166000**	ug/L	5000	1		11/02/20 18:47	7440-23-5	
Zinc, Dissolved	**10.1J**	ug/L	20.0	1		11/02/20 18:47	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**0.11J**	ug/L	0.20	1	11/11/20 10:51	11/11/20 18:19	7439-97-6	B
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/29/20 09:54	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-06A_10/28/20 **Lab ID: 70151125025** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/13/20 10:46	11/13/20 15:38	7429-90-5	
Barium	**19.3J**	ug/L	200	1	11/13/20 10:46	11/13/20 15:38	7440-39-3	
Calcium	**1280**	ug/L	200	1	11/13/20 10:46	11/13/20 15:38	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/13/20 10:46	11/13/20 15:38	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/13/20 10:46	11/13/20 15:38	7440-50-8	
Iron	**198**	ug/L	100	1	11/13/20 10:46	11/13/20 15:38	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/13/20 10:46	11/13/20 15:38	7439-92-1	
Magnesium	**1270**	ug/L	200	1	11/13/20 10:46	11/13/20 15:38	7439-95-4	
Manganese	**10.2**	ug/L	10.0	1	11/13/20 10:46	11/13/20 15:38	7439-96-5	
Nickel	**5.8J**	ug/L	40.0	1	11/13/20 10:46	11/13/20 15:38	7440-02-0	
Potassium	**1450J**	ug/L	5000	1	11/13/20 10:46	11/13/20 15:38	7440-09-7	
Sodium	**6220**	ug/L	5000	1	11/13/20 10:46	11/13/20 15:38	7440-23-5	
Zinc	**11.0J**	ug/L	20.0	1	11/13/20 10:46	11/13/20 15:38	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**8430**	ug/L	830	1		11/13/20 15:38		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**0.20J**	ug/L	0.20	1	11/11/20 10:51	11/12/20 13:58	7439-97-6	B
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/06/20 15:40	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/06/20 15:40	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/06/20 15:40	75-25-2	v3
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:40	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:40	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/06/20 15:40	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:40	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/06/20 15:40	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/06/20 15:40	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/06/20 15:40	124-48-1	v3
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:40	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:40	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:40	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/06/20 15:40	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 15:40	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 15:40	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:40	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:40	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:40	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/06/20 15:40	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:40	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 10/27
Pace Project No.: 70151125

Sample: MW-06A_10/28/20 **Lab ID: 70151125025** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 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		11/06/20 15:40	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/06/20 15:40	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:40	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/06/20 15:40	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 15:40	71-55-6	
Trichloroethene	**1.1**	ug/L	1.0	1		11/06/20 15:40	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/06/20 15:40	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/06/20 15:40	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/06/20 15:40	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/06/20 15:40	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	68-153	1		11/06/20 15:40	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		11/06/20 15:40	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		11/06/20 15:40	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**3.2**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Bicarbonate (CaCO3)	**3.2**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/20 00:00		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**53.0**	mg/L	10.0	1		11/02/20 10:43		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/29/20 09:54	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**7.7**	mg/L	5.0	1		11/13/20 02:12	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	**1.8**	mg/L	0.10	1	11/09/20 07:16	11/09/20 16:51	7727-37-9	M1
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**0.26**	mg/L	0.050	1		10/28/20 23:04	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/28/20 21:42	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: MW-06A_10/28/20 **Lab ID: 70151125025** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	11/11/20 09:41	11/11/20 11:52		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/11/20 09:23	11/11/20 17:03	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**7.6**	mg/L	2.0	1		11/09/20 17:34	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**0.39**	mg/L	0.10	1		11/09/20 13:58	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 10/27
Pace Project No.: 70151125

Sample: MW-06A_10/28/20 DISS **Lab ID: 70151125026** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/02/20 18:49	7429-90-5	
Barium, Dissolved	**18.9J**	ug/L	200	1		11/02/20 18:49	7440-39-3	
Calcium, Dissolved	**1250**	ug/L	1000	1		11/02/20 18:49	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/02/20 18:49	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/02/20 18:49	7440-50-8	
Iron, Dissolved	**197**	ug/L	20.0	1		11/02/20 18:49	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/02/20 18:49	7439-92-1	
Magnesium, Dissolved	**1230**	ug/L	1000	1		11/02/20 18:49	7439-95-4	
Manganese, Dissolved	**10.1**	ug/L	10.0	1		11/02/20 18:49	7439-96-5	
Nickel, Dissolved	**5.4J**	ug/L	40.0	1		11/02/20 18:49	7440-02-0	
Potassium, Dissolved	**1440J**	ug/L	5000	1		11/02/20 18:49	7440-09-7	
Sodium, Dissolved	**6000**	ug/L	5000	1		11/02/20 18:49	7440-23-5	
Zinc, Dissolved	**5.4J**	ug/L	20.0	1		11/02/20 18:49	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**0.11J**	ug/L	0.20	1	11/11/20 10:51	11/11/20 18:20	7439-97-6	B
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/29/20 09:54	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: FIELD BLANK **Lab ID: 70151125027** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/10/20 14:38	11/11/20 20:08	7429-90-5	
Barium	**<200**	ug/L	200	1	11/10/20 14:38	11/11/20 20:08	7440-39-3	
Calcium	**53.3J**	ug/L	200	1	11/10/20 14:38	11/11/20 20:08	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	11/10/20 14:38	11/11/20 20:08	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/10/20 14:38	11/11/20 20:08	7440-50-8	
Iron	**10.8J**	ug/L	100	1	11/10/20 14:38	11/11/20 20:08	7439-89-6	B
Lead	**<5.0**	ug/L	5.0	1	11/10/20 14:38	11/11/20 20:08	7439-92-1	
Magnesium	**<200**	ug/L	200	1	11/10/20 14:38	11/11/20 20:08	7439-95-4	
Manganese	**<10.0**	ug/L	10.0	1	11/10/20 14:38	11/11/20 20:08	7439-96-5	
Nickel	**<40.0**	ug/L	40.0	1	11/10/20 14:38	11/11/20 20:08	7440-02-0	
Potassium	**<5000**	ug/L	5000	1	11/10/20 14:38	11/11/20 20:08	7440-09-7	
Sodium	**<5000**	ug/L	5000	1	11/10/20 14:38	11/11/20 20:08	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/10/20 14:38	11/11/20 20:08	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**<830**	ug/L	830	1		11/11/20 20:08		
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	11/11/20 10:51	11/12/20 13:59	7439-97-6	B
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/06/20 15:59	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/06/20 15:59	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/06/20 15:59	75-25-2	v3
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:59	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:59	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/06/20 15:59	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:59	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/06/20 15:59	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/06/20 15:59	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/06/20 15:59	124-48-1	v3
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:59	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:59	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:59	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/06/20 15:59	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 15:59	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 15:59	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:59	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:59	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:59	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/06/20 15:59	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/06/20 15:59	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 10/27
Pace Project No.: 70151125

Sample: FIELD BLANK **Lab ID: 70151125027** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 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		11/06/20 15:59	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/06/20 15:59	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:59	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/06/20 15:59	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/06/20 15:59	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/06/20 15:59	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/06/20 15:59	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/06/20 15:59	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/06/20 15:59	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/06/20 15:59	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	68-153	1		11/06/20 15:59	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		11/06/20 15:59	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		11/06/20 15:59	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**<1.0**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Bicarbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/20 00:00		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/09/20 00:00		L2
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**25.0**	mg/L	10.0	1		11/02/20 10:44		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/29/20 09:55	18540-29-9	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**0.35J**	mg/L	5.0	1		11/13/20 02:49	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	**0.23**	mg/L	0.10	1	11/09/20 07:16	11/10/20 13:49	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		10/28/20 23:05	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/28/20 21:43	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: FIELD BLANK **Lab ID: 70151125027** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	11/11/20 09:41	11/11/20 11:54		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**<10.0**	ug/L	10.0	1	11/11/20 09:23	11/11/20 17:03	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**<2.0**	mg/L	2.0	1		11/09/20 17:34	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**<0.10**	mg/L	0.10	1		11/09/20 13:59	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: FIELD BLANK DISS **Lab ID: 70151125028** Collected: 10/28/20 00:00 Received: 10/28/20 15:19 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/02/20 18:56	7429-90-5	
Barium, Dissolved	**0.88J**	ug/L	200	1		11/02/20 18:56	7440-39-3	
Calcium, Dissolved	**78.9J**	ug/L	1000	1		11/02/20 18:56	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/02/20 18:56	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/02/20 18:56	7440-50-8	
Iron, Dissolved	**19.9J**	ug/L	20.0	1		11/02/20 18:56	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/02/20 18:56	7439-92-1	
Magnesium, Dissolved	**<1000**	ug/L	1000	1		11/02/20 18:56	7439-95-4	
Manganese, Dissolved	**<10.0**	ug/L	10.0	1		11/02/20 18:56	7439-96-5	
Nickel, Dissolved	**<40.0**	ug/L	40.0	1		11/02/20 18:56	7440-02-0	
Potassium, Dissolved	**<5000**	ug/L	5000	1		11/02/20 18:56	7440-09-7	
Sodium, Dissolved	**<5000**	ug/L	5000	1		11/02/20 18:56	7440-23-5	
Zinc, Dissolved	**8.1J**	ug/L	20.0	1		11/02/20 18:56	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**0.11J**	ug/L	0.20	1	11/11/20 10:51	11/11/20 18:22	7439-97-6	B
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/29/20 09:55	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: TRIP BLANK_10/29/20 **Lab ID: 70151125029** Collected: 10/29/20 00:00 Received: 10/29/20 13:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/05/20 17:57	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/05/20 17:57	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/05/20 17:57	75-25-2	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 17:57	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 17:57	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/05/20 17:57	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 17:57	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/05/20 17:57	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/05/20 17:57	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/05/20 17:57	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 17:57	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 17:57	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 17:57	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/05/20 17:57	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 17:57	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 17:57	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 17:57	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 17:57	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 17:57	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/05/20 17:57	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 17:57	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		11/05/20 17:57	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/05/20 17:57	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/05/20 17:57	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/05/20 17:57	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 17:57	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 17:57	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/05/20 17:57	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/05/20 17:57	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/05/20 17:57	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/05/20 17:57	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		11/05/20 17:57	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-124	1		11/05/20 17:57	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		11/05/20 17:57	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 10/27
Pace Project No.: 70151125

Sample: LF-2_10/29/20 **Lab ID: 70151125030** Collected: 10/29/20 09:35 Received: 10/29/20 13:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/13/20 10:46	11/13/20 15:40	7429-90-5	
Barium	**58.0J**	ug/L	200	1	11/13/20 10:46	11/13/20 15:40	7440-39-3	
Calcium	**39200**	ug/L	200	1	11/13/20 10:46	11/13/20 15:40	7440-70-2	
Chromium	**14.6**	ug/L	10.0	1	11/13/20 10:46	11/13/20 15:40	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	11/13/20 10:46	11/13/20 15:40	7440-50-8	
Iron	**9810**	ug/L	100	1	11/13/20 10:46	11/13/20 15:40	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/13/20 10:46	11/13/20 15:40	7439-92-1	
Magnesium	**28800**	ug/L	200	1	11/13/20 10:46	11/13/20 15:40	7439-95-4	
Manganese	**177**	ug/L	10.0	1	11/13/20 10:46	11/13/20 15:40	7439-96-5	
Nickel	**20.9J**	ug/L	40.0	1	11/13/20 10:46	11/13/20 15:40	7440-02-0	
Potassium	**145000**	ug/L	5000	1	11/13/20 10:46	11/13/20 15:40	7440-09-7	
Sodium	**454000**	ug/L	5000	1	11/13/20 10:46	11/13/20 15:40	7440-23-5	
Zinc	**<20.0**	ug/L	20.0	1	11/13/20 10:46	11/13/20 15:40	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**216000**	ug/L	830	1		11/13/20 15:40		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**0.23**	ug/L	0.20	1	11/11/20 10:51	11/12/20 14:01	7439-97-6	B
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**3.6**	ug/L	1.0	1		11/05/20 18:17	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/05/20 18:17	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/05/20 18:17	75-25-2	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 18:17	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 18:17	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/05/20 18:17	56-23-5	
Chlorobenzene	**1.7**	ug/L	1.0	1		11/05/20 18:17	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/05/20 18:17	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/05/20 18:17	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/05/20 18:17	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 18:17	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 18:17	541-73-1	
1,4-Dichlorobenzene	**2.1**	ug/L	1.0	1		11/05/20 18:17	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/05/20 18:17	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 18:17	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 18:17	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 18:17	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 18:17	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 18:17	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/05/20 18:17	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 18:17	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 10/27
Pace Project No.: 70151125

Sample: LF-2_10/29/20 **Lab ID: 70151125030** Collected: 10/29/20 09:35 Received: 10/29/20 13:14 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)	**5.5**	ug/L	1.0	1		11/05/20 18:17	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/05/20 18:17	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/05/20 18:17	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/05/20 18:17	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 18:17	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 18:17	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/05/20 18:17	75-01-4	
Xylene (Total)	**2.8J**	ug/L	3.0	1		11/05/20 18:17	1330-20-7	
m&p-Xylene	**1.7J**	ug/L	2.0	1		11/05/20 18:17	179601-23-1	
o-Xylene	**1.1**	ug/L	1.0	1		11/05/20 18:17	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		11/05/20 18:17	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-124	1		11/05/20 18:17	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		11/05/20 18:17	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**1380**	mg/L	5.0	1		11/11/20 11:57		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**1790**	mg/L	10.0	1		11/03/20 11:03		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/30/20 07:41	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**<5.0**	mg/L	5.0	1		11/10/20 01:25	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	**149**	mg/L	5.0	50	11/09/20 07:16	11/10/20 13:50	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		10/30/20 00:17	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/29/20 22:27	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: LF-2_10/29/20 **Lab ID: 70151125030** Collected: 10/29/20 09:35 Received: 10/29/20 13:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**6.9**	ug/L	5.0	1	11/11/20 09:41	11/11/20 11:55		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**2.1J**	ug/L	10.0	1	11/11/20 09:23	11/11/20 17:03	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**460**	mg/L	20.0	10		11/09/20 17:51	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**170**	mg/L	5.0	50		11/09/20 15:39	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 10/27
Pace Project No.: 70151125

Sample: LF-2_10/29/20 DISS **Lab ID: 70151125031** Collected: 10/29/20 09:35 Received: 10/29/20 13:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/11/20 17:49	7429-90-5	
Barium, Dissolved	**46.3J**	ug/L	200	1		11/11/20 17:49	7440-39-3	
Calcium, Dissolved	**37700**	ug/L	1000	1		11/11/20 17:49	7440-70-2	
Chromium, Dissolved	**11.7**	ug/L	10.0	1		11/11/20 17:49	7440-47-3	
Copper, Dissolved	**5.7J**	ug/L	25.0	1		11/11/20 17:49	7440-50-8	
Iron, Dissolved	**4920**	ug/L	20.0	1		11/11/20 17:49	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/11/20 17:49	7439-92-1	
Magnesium, Dissolved	**27000**	ug/L	1000	1		11/11/20 17:49	7439-95-4	
Manganese, Dissolved	**171**	ug/L	10.0	1		11/11/20 17:49	7439-96-5	
Nickel, Dissolved	**19.8J**	ug/L	40.0	1		11/11/20 17:49	7440-02-0	
Potassium, Dissolved	**137000**	ug/L	5000	1		11/11/20 17:49	7440-09-7	
Sodium, Dissolved	**434000**	ug/L	5000	1		11/11/20 17:49	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		11/11/20 17:49	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**0.12J**	ug/L	0.20	1	11/11/20 10:51	11/11/20 18:24	7439-97-6	B
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/30/20 07:41	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 10/27
Pace Project No.: 70151125

Sample: LF-1_10/29/20 **Lab ID: 70151125032** Collected: 10/29/20 11:40 Received: 10/29/20 13:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum	**<200**	ug/L	200	1	11/13/20 10:46	11/13/20 15:43	7429-90-5	
Barium	**114J**	ug/L	200	1	11/13/20 10:46	11/13/20 15:43	7440-39-3	
Calcium	**17000**	ug/L	200	1	11/13/20 10:46	11/13/20 15:43	7440-70-2	
Chromium	**2.3J**	ug/L	10.0	1	11/13/20 10:46	11/13/20 15:43	7440-47-3	
Copper	**8.0J**	ug/L	25.0	1	11/13/20 10:46	11/13/20 15:43	7440-50-8	
Iron	**19700**	ug/L	100	1	11/13/20 10:46	11/13/20 15:43	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	11/13/20 10:46	11/13/20 15:43	7439-92-1	
Magnesium	**14600**	ug/L	200	1	11/13/20 10:46	11/13/20 15:43	7439-95-4	
Manganese	**3050**	ug/L	10.0	1	11/13/20 10:46	11/13/20 15:43	7439-96-5	
Nickel	**10J**	ug/L	40.0	1	11/13/20 10:46	11/13/20 15:43	7440-02-0	
Potassium	**18800**	ug/L	5000	1	11/13/20 10:46	11/13/20 15:43	7440-09-7	
Sodium	**60100**	ug/L	5000	1	11/13/20 10:46	11/13/20 15:43	7440-23-5	
Zinc	**5.0J**	ug/L	20.0	1	11/13/20 10:46	11/13/20 15:43	7440-66-6	
2340B Hardness, Total (Calc.)	Analytical Method: SM22 2340B Pace Analytical Services - Melville							
Tot Hardness asCaCO3 (SM 2340B	**103000**	ug/L	830	1		11/13/20 15:43		
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury	**0.17J**	ug/L	0.20	1	11/11/20 10:51	11/12/20 14:03	7439-97-6	B
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Benzene	**<1.0**	ug/L	1.0	1		11/05/20 18:37	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		11/05/20 18:37	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		11/05/20 18:37	75-25-2	CL
n-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 18:37	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 18:37	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		11/05/20 18:37	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 18:37	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		11/05/20 18:37	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		11/05/20 18:37	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		11/05/20 18:37	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 18:37	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 18:37	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		11/05/20 18:37	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		11/05/20 18:37	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 18:37	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 18:37	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 18:37	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 18:37	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 18:37	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		11/05/20 18:37	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/05/20 18:37	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 10/27
Pace Project No.: 70151125

Sample: LF-1_10/29/20 **Lab ID: 70151125032** Collected: 10/29/20 11:40 Received: 10/29/20 13:14 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		11/05/20 18:37	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		11/05/20 18:37	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		11/05/20 18:37	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		11/05/20 18:37	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		11/05/20 18:37	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		11/05/20 18:37	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		11/05/20 18:37	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/05/20 18:37	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		11/05/20 18:37	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		11/05/20 18:37	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		11/05/20 18:37	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		11/05/20 18:37	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		11/05/20 18:37	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**123**	mg/L	1.0	1		11/10/20 12:00		
Alkalinity,Bicarbonate (CaCO3)	**123**	mg/L	1.0	1		11/10/20 12:00		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		11/10/20 12:00		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	**365**	mg/L	10.0	1		11/03/20 11:03		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/30/20 07:41	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Sulfate	**34.6**	mg/L	5.0	1		11/10/20 01:38	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	**17.1**	mg/L	1.0	10	11/09/20 07:16	11/10/20 13:51	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		10/30/20 00:18	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		10/29/20 22:28	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Sample: LF-1_10/29/20 **Lab ID: 70151125032** Collected: 10/29/20 11:40 Received: 10/29/20 13:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	11/11/20 09:41	11/11/20 11:56		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C Pace Analytical Services - Melville							
Cyanide	**4.0J**	ug/L	10.0	1	11/11/20 09:23	11/11/20 17:03	57-12-5	
4500 Chloride	Analytical Method: SM22 4500-Cl-E Pace Analytical Services - Melville							
Chloride	**98.0**	mg/L	2.0	1		11/09/20 17:36	16887-00-6	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	**17.3**	mg/L	1.0	10		11/09/20 15:37	7664-41-7	

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 10/27
Pace Project No.: 70151125

Sample: LF-1_10/29/20 DISS **Lab ID: 70151125033** Collected: 10/29/20 11:40 Received: 10/29/20 13:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Aluminum, Dissolved	**<200**	ug/L	200	1		11/11/20 17:59	7429-90-5	
Barium, Dissolved	**96.3J**	ug/L	200	1		11/11/20 17:59	7440-39-3	
Calcium, Dissolved	**16500**	ug/L	1000	1		11/11/20 17:59	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		11/11/20 17:59	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		11/11/20 17:59	7440-50-8	
Iron, Dissolved	**2290**	ug/L	20.0	1		11/11/20 17:59	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		11/11/20 17:59	7439-92-1	
Magnesium, Dissolved	**14100**	ug/L	1000	1		11/11/20 17:59	7439-95-4	
Manganese, Dissolved	**2950**	ug/L	10.0	1		11/11/20 17:59	7439-96-5	M1
Nickel, Dissolved	**8.8J**	ug/L	40.0	1		11/11/20 17:59	7440-02-0	
Potassium, Dissolved	**18300**	ug/L	5000	1		11/11/20 17:59	7440-09-7	
Sodium, Dissolved	**58400**	ug/L	5000	1		11/11/20 17:59	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		11/11/20 17:59	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Melville							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	11/11/20 10:51	11/11/20 18:30	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B Pace Analytical Services - Melville							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		10/30/20 07:41	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 10/27
Pace Project No.: 70151125

QC Batch: 183781
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: 70151125003, 70151125005, 70151125007, 70151125009, 70151125011, 70151125013, 70151125015, 70151125018, 70151125020, 70151125022, 70151125024, 70151125026, 70151125028

METHOD BLANK: 899466 Matrix: Water
Associated Lab Samples: 70151125003, 70151125005, 70151125007, 70151125009, 70151125011, 70151125013, 70151125015, 70151125018, 70151125020, 70151125022, 70151125024, 70151125026, 70151125028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	11/02/20 17:53	
Barium, Dissolved	ug/L	<200	200	11/02/20 17:53	
Calcium, Dissolved	ug/L	<1000	1000	11/02/20 17:53	
Chromium, Dissolved	ug/L	<10.0	10.0	11/02/20 17:53	
Copper, Dissolved	ug/L	<25.0	25.0	11/02/20 17:53	
Iron, Dissolved	ug/L	<20.0	20.0	11/02/20 17:53	
Lead, Dissolved	ug/L	<5.0	5.0	11/02/20 17:53	
Magnesium, Dissolved	ug/L	<1000	1000	11/02/20 17:53	
Manganese, Dissolved	ug/L	<10.0	10.0	11/02/20 17:53	
Nickel, Dissolved	ug/L	<40.0	40.0	11/02/20 17:53	
Potassium, Dissolved	ug/L	<5000	5000	11/02/20 17:53	
Sodium, Dissolved	ug/L	<5000	5000	11/02/20 17:53	
Zinc, Dissolved	ug/L	<20.0	20.0	11/02/20 17:53	

LABORATORY CONTROL SAMPLE: 899467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	5200	104	85-115	
Barium, Dissolved	ug/L	500	519	104	85-115	
Calcium, Dissolved	ug/L	25000	26300	105	85-115	
Chromium, Dissolved	ug/L	250	261	104	85-115	
Copper, Dissolved	ug/L	250	258	103	85-115	
Iron, Dissolved	ug/L	2000	2100	105	85-115	
Lead, Dissolved	ug/L	500	529	106	85-115	
Magnesium, Dissolved	ug/L	25000	26000	104	85-115	
Manganese, Dissolved	ug/L	250	260	104	85-115	
Nickel, Dissolved	ug/L	250	266	106	85-115	
Potassium, Dissolved	ug/L	50000	51100	102	85-115	
Sodium, Dissolved	ug/L	50000	52300	105	85-115	
Zinc, Dissolved	ug/L	1000	1050	105	85-115	

MATRIX SPIKE SAMPLE: 899469

Parameter	Units	30388592001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1890	5000	7490	112	70-130	
Barium, Dissolved	ug/L	ND	500	649	113	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

MATRIX SPIKE SAMPLE: 899469

Parameter	Units	30388592001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	9350	25000	37300	112	70-130	
Chromium, Dissolved	ug/L	ND	250	287	114	70-130	
Copper, Dissolved	ug/L	ND	250	293	116	70-130	
Iron, Dissolved	ug/L	220	2000	2520	115	70-130	
Lead, Dissolved	ug/L	ND	500	579	116	70-130	
Magnesium, Dissolved	ug/L	ND	25000	28200	113	70-130	
Manganese, Dissolved	ug/L	ND	250	289	116	70-130	
Nickel, Dissolved	ug/L	ND	250	325	116	70-130	
Potassium, Dissolved	ug/L	218000	50000	253000	70	70-130	
Sodium, Dissolved	ug/L	72700	50000	127000	109	70-130	
Zinc, Dissolved	ug/L	ND	1000	1190	119	70-130	

MATRIX SPIKE SAMPLE: 899471

Parameter	Units	30388888001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	42.2J	5000	6010	119	70-130	
Barium, Dissolved	ug/L	47.8J	500	648	120	70-130	
Calcium, Dissolved	ug/L	8.3 mg/L	25000	38600	121	70-130	
Chromium, Dissolved	ug/L	10.0 U	250	305	122	70-130	
Copper, Dissolved	ug/L	25.0 U	250	302	120	70-130	
Iron, Dissolved	ug/L	0.0059J mg/L	2000	2440	121	70-130	
Lead, Dissolved	ug/L	5.0 U	500	604	121	70-130	
Magnesium, Dissolved	ug/L	3.1 mg/L	25000	33300	121	70-130	
Manganese, Dissolved	ug/L	25.7	250	330	122	70-130	
Nickel, Dissolved	ug/L	6.7J	250	317	124	70-130	
Potassium, Dissolved	ug/L	1.8J mg/L	50000	57900	112	70-130	
Sodium, Dissolved	ug/L	17.7 mg/L	50000	79400	123	70-130	
Zinc, Dissolved	ug/L	20.0 U	1000	1230	123	70-130	

SAMPLE DUPLICATE: 899468

Parameter	Units	30388592001 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	1890	1870	1	
Barium, Dissolved	ug/L	ND	83.7J		
Calcium, Dissolved	ug/L	9350	9270	1	
Chromium, Dissolved	ug/L	ND	<10.0		
Copper, Dissolved	ug/L	ND	<25.0		
Iron, Dissolved	ug/L	220	228	4	
Lead, Dissolved	ug/L	ND	<5.0		
Magnesium, Dissolved	ug/L	ND	28.8J		
Manganese, Dissolved	ug/L	ND	<10.0		
Nickel, Dissolved	ug/L	ND	34.7J		
Potassium, Dissolved	ug/L	218000	216000	1	
Sodium, Dissolved	ug/L	72700	72600	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 10/27
Pace Project No.: 70151125

SAMPLE DUPLICATE: 899468

Parameter	Units	30388592001 Result	Dup Result	RPD	Qualifiers
Zinc, Dissolved	ug/L	ND	<20.0		

SAMPLE DUPLICATE: 899470

Parameter	Units	30388888001 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	42.2J	43.5J		
Barium, Dissolved	ug/L	47.8J	48.3J		
Calcium, Dissolved	ug/L	8.3 mg/L	8380	1	
Chromium, Dissolved	ug/L	10.0 U	<10.0		
Copper, Dissolved	ug/L	25.0 U	<25.0		
Iron, Dissolved	ug/L	0.0059J mg/L	6.2J		
Lead, Dissolved	ug/L	5.0 U	<5.0		
Magnesium, Dissolved	ug/L	3.1 mg/L	3110	1	
Manganese, Dissolved	ug/L	25.7	25.9	1	
Nickel, Dissolved	ug/L	6.7J	6.4J		
Potassium, Dissolved	ug/L	1.8J mg/L	1790J		
Sodium, Dissolved	ug/L	17.7 mg/L	17900	1	
Zinc, Dissolved	ug/L	20.0 U	<20.0		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 185192
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: 70151125031, 70151125033

METHOD BLANK: 906806 Matrix: Water
Associated Lab Samples: 70151125031, 70151125033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	11/11/20 17:44	
Barium, Dissolved	ug/L	<200	200	11/11/20 17:44	
Calcium, Dissolved	ug/L	<1000	1000	11/11/20 17:44	
Chromium, Dissolved	ug/L	<10.0	10.0	11/11/20 17:44	
Copper, Dissolved	ug/L	<25.0	25.0	11/11/20 17:44	
Iron, Dissolved	ug/L	<20.0	20.0	11/11/20 17:44	
Lead, Dissolved	ug/L	<5.0	5.0	11/11/20 17:44	
Magnesium, Dissolved	ug/L	<1000	1000	11/11/20 17:44	
Manganese, Dissolved	ug/L	<10.0	10.0	11/11/20 17:44	
Nickel, Dissolved	ug/L	<40.0	40.0	11/11/20 17:44	
Potassium, Dissolved	ug/L	<5000	5000	11/11/20 17:44	
Sodium, Dissolved	ug/L	<5000	5000	11/11/20 17:44	
Zinc, Dissolved	ug/L	<20.0	20.0	11/11/20 17:44	

LABORATORY CONTROL SAMPLE: 906807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	4990	100	85-115	
Barium, Dissolved	ug/L	500	497	99	85-115	
Calcium, Dissolved	ug/L	25000	25300	101	85-115	
Chromium, Dissolved	ug/L	250	250	100	85-115	
Copper, Dissolved	ug/L	250	251	100	85-115	
Iron, Dissolved	ug/L	2000	2180	109	85-115	
Lead, Dissolved	ug/L	500	507	101	85-115	
Magnesium, Dissolved	ug/L	25000	25000	100	85-115	
Manganese, Dissolved	ug/L	250	250	100	85-115	
Nickel, Dissolved	ug/L	250	253	101	85-115	
Potassium, Dissolved	ug/L	50000	51300	103	85-115	
Sodium, Dissolved	ug/L	50000	48600	97	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE SAMPLE: 906810

Parameter	Units	70151125031 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	5000	5120	102	70-130	
Barium, Dissolved	ug/L	46.3J	500	573	105	70-130	
Calcium, Dissolved	ug/L	37700	25000	62100	98	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 10/27
Pace Project No.: 70151125

MATRIX SPIKE SAMPLE: 906810

Parameter	Units	70151125031 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	11.7	250	280	107	70-130	
Copper, Dissolved	ug/L	5.7J	250	267	105	70-130	
Iron, Dissolved	ug/L	4920	2000	7340	121	70-130	
Lead, Dissolved	ug/L	<5.0	500	512	102	70-130	
Magnesium, Dissolved	ug/L	27000	25000	51700	99	70-130	
Manganese, Dissolved	ug/L	171	250	429	103	70-130	
Nickel, Dissolved	ug/L	19.8J	250	287	107	70-130	
Potassium, Dissolved	ug/L	137000	50000	182000	90	70-130	
Sodium, Dissolved	ug/L	434000	50000	469000	70	70-130	
Zinc, Dissolved	ug/L	<20.0	1000	1090	109	70-130	

MATRIX SPIKE SAMPLE: 906812

Parameter	Units	70151125033 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	5000	5220	104	70-130	
Barium, Dissolved	ug/L	96.3J	500	614	104	70-130	
Calcium, Dissolved	ug/L	16500	25000	42400	104	70-130	
Chromium, Dissolved	ug/L	<10.0	250	263	105	70-130	
Copper, Dissolved	ug/L	<25.0	250	263	105	70-130	
Iron, Dissolved	ug/L	2290	2000	4390	105	70-130	
Lead, Dissolved	ug/L	<5.0	500	524	105	70-130	
Magnesium, Dissolved	ug/L	14100	25000	39900	103	70-130	
Manganese, Dissolved	ug/L	2950	250	3100	60	70-130	M1
Nickel, Dissolved	ug/L	8.8J	250	271	105	70-130	
Potassium, Dissolved	ug/L	18300	50000	69500	102	70-130	
Sodium, Dissolved	ug/L	58400	50000	109000	101	70-130	
Zinc, Dissolved	ug/L	<20.0	1000	1060	106	70-130	

SAMPLE DUPLICATE: 906809

Parameter	Units	70151125031 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	46.3J	45.8J		
Calcium, Dissolved	ug/L	37700	37400	1	
Chromium, Dissolved	ug/L	11.7	11.9	2	
Copper, Dissolved	ug/L	5.7J	6.4J		
Iron, Dissolved	ug/L	4920	5000	2	
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	27000	26800	1	
Manganese, Dissolved	ug/L	171	170	1	
Nickel, Dissolved	ug/L	19.8J	19.5J		
Potassium, Dissolved	ug/L	137000	139000	1	
Sodium, Dissolved	ug/L	434000	431000	1	
Zinc, Dissolved	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 10/27
Pace Project No.: 70151125

SAMPLE DUPLICATE: 906811

Parameter	Units	70151125033 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	96.3J	96.3J		
Calcium, Dissolved	ug/L	16500	16400	1	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	2290	2360	3	
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	14100	14100	0	
Manganese, Dissolved	ug/L	2950	2940	0	
Nickel, Dissolved	ug/L	8.8J	8.4J		
Potassium, Dissolved	ug/L	18300	18100	1	
Sodium, Dissolved	ug/L	58400	58200	0	
Zinc, Dissolved	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 10/27
Pace Project No.: 70151125

QC Batch: 185301 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027, 70151125030, 70151125032

METHOD BLANK: 907521 Matrix: Water

Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027, 70151125030, 70151125032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	0.16J	0.20	11/12/20 13:13	

LABORATORY CONTROL SAMPLE: 907522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.1	113	85-115	

MATRIX SPIKE SAMPLE: 907523

Parameter	Units	70151125002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.2	121	70-130	

MATRIX SPIKE SAMPLE: 907525

Parameter	Units	70151125004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.13J	1	1.2	105	70-130	

SAMPLE DUPLICATE: 907524

Parameter	Units	70151125002 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 907526

Parameter	Units	70151125004 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	0.13J	<0.20		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 185300 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury - Dissolved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70151125003, 70151125005, 70151125007, 70151125009, 70151125011, 70151125013, 70151125015, 70151125018, 70151125020, 70151125022, 70151125024, 70151125026, 70151125028, 70151125031, 70151125033

METHOD BLANK: 907510 Matrix: Water
Associated Lab Samples: 70151125003, 70151125005, 70151125007, 70151125009, 70151125011, 70151125013, 70151125015, 70151125018, 70151125020, 70151125022, 70151125024, 70151125026, 70151125028, 70151125031, 70151125033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	0.13J	0.20	11/11/20 17:46	

LABORATORY CONTROL SAMPLE: 907511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	1	1.1	110	85-115	

MATRIX SPIKE SAMPLE: 907512

Parameter	Units	70151125003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	<0.20	1	1.1	109	70-130	

MATRIX SPIKE SAMPLE: 907514

Parameter	Units	70151125005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	<0.20	1	1.1	104	70-130	

SAMPLE DUPLICATE: 907513

Parameter	Units	70151125003 Result	Dup Result	RPD	Qualifiers
Mercury, Dissolved	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 907515

Parameter	Units	70151125005 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 10/27
Pace Project No.: 70151125

QC Batch: 185175
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: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125027

METHOD BLANK: 906614 Matrix: Water
Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	11/11/20 18:57	
Barium	ug/L	<200	200	11/11/20 18:57	
Calcium	ug/L	<200	200	11/11/20 18:57	
Chromium	ug/L	<10.0	10.0	11/11/20 18:57	
Copper	ug/L	<25.0	25.0	11/11/20 18:57	
Iron	ug/L	281	100	11/11/20 18:57	
Lead	ug/L	<5.0	5.0	11/11/20 18:57	
Magnesium	ug/L	<200	200	11/11/20 18:57	
Manganese	ug/L	4.6J	10.0	11/11/20 18:57	
Nickel	ug/L	<40.0	40.0	11/11/20 18:57	
Potassium	ug/L	<5000	5000	11/11/20 18:57	
Sodium	ug/L	<5000	5000	11/11/20 18:57	
Zinc	ug/L	<20.0	20.0	11/11/20 18:57	

LABORATORY CONTROL SAMPLE: 906615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	5200	104	85-115	
Barium	ug/L	500	519	104	85-115	
Calcium	ug/L	25000	26400	106	85-115	
Chromium	ug/L	250	263	105	85-115	
Copper	ug/L	250	264	106	85-115	
Iron	ug/L	2000	2250	112	85-115	
Lead	ug/L	500	529	106	85-115	
Magnesium	ug/L	25000	26000	104	85-115	
Manganese	ug/L	250	262	105	85-115	
Nickel	ug/L	250	264	106	85-115	
Potassium	ug/L	50000	52400	105	85-115	
Sodium	ug/L	50000	50600	101	85-115	
Zinc	ug/L	1000	1060	106	85-115	

MATRIX SPIKE SAMPLE: 906617

Parameter	Units	70151125002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	5000	4940	98	70-130	
Barium	ug/L	43.5J	500	537	99	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 10/27
Pace Project No.: 70151125

MATRIX SPIKE SAMPLE: 906617

Parameter	Units	70151125002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	14900	25000	39800	100	70-130	
Chromium	ug/L	<10.0	250	251	100	70-130	
Copper	ug/L	<25.0	250	248	99	70-130	
Iron	ug/L	34.0J	2000	2110	104	70-130	
Lead	ug/L	<5.0	500	497	99	70-130	
Magnesium	ug/L	10100	25000	34700	98	70-130	
Manganese	ug/L	2520	250	2680	64	70-130	M1
Nickel	ug/L	5.8J	250	255	100	70-130	
Potassium	ug/L	22200	50000	74900	105	70-130	
Sodium	ug/L	53900	50000	102000	96	70-130	
Zinc	ug/L	<20.0	1000	1010	101	70-130	

MATRIX SPIKE SAMPLE: 906619

Parameter	Units	70151125004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	5000	4970	99	70-130	
Barium	ug/L	81.1J	500	577	99	70-130	
Calcium	ug/L	11400	25000	36600	101	70-130	
Chromium	ug/L	<10.0	250	253	101	70-130	
Copper	ug/L	<25.0	250	249	98	70-130	
Iron	ug/L	8.3J	2000	2100	105	70-130	
Lead	ug/L	<5.0	500	502	100	70-130	
Magnesium	ug/L	4850	25000	29800	100	70-130	
Manganese	ug/L	3010	250	3180	68	70-130	M1
Nickel	ug/L	<40.0	250	257	101	70-130	
Potassium	ug/L	8770	50000	61900	106	70-130	
Sodium	ug/L	46400	50000	95500	98	70-130	
Zinc	ug/L	<20.0	1000	1020	102	70-130	

SAMPLE DUPLICATE: 906616

Parameter	Units	70151125002 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	43.5J	44.4J		
Calcium	ug/L	14900	15300	3	
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	34.0J	31.7J		
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	10100	10300	2	
Manganese	ug/L	2520	2580	2	
Nickel	ug/L	5.8J	5.4J		
Potassium	ug/L	22200	23100	4	
Sodium	ug/L	53900	54900	2	

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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 10/27
Pace Project No.: 70151125

SAMPLE DUPLICATE: 906616

Parameter	Units	70151125002 Result	Dup Result	RPD	Qualifiers
Zinc	ug/L	<20.0	<20.0		

SAMPLE DUPLICATE: 906618

Parameter	Units	70151125004 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	81.1J	80.8J		
Calcium	ug/L	11400	11300	1	
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	8.3J	<100		
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	4850	4830	0	
Manganese	ug/L	3010	3000	0	
Nickel	ug/L	<40.0	<40.0		
Potassium	ug/L	8770	8710	1	
Sodium	ug/L	46400	46200	0	
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 10/27
Pace Project No.: 70151125

QC Batch: 185698
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: 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125030, 70151125032

METHOD BLANK: 909613 Matrix: Water
Associated Lab Samples: 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125030, 70151125032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	11/13/20 15:03	
Barium	ug/L	<200	200	11/13/20 15:03	
Calcium	ug/L	<200	200	11/13/20 15:03	
Chromium	ug/L	<10.0	10.0	11/13/20 15:03	
Copper	ug/L	<25.0	25.0	11/13/20 15:03	
Iron	ug/L	<100	100	11/13/20 15:03	
Lead	ug/L	<5.0	5.0	11/13/20 15:03	
Magnesium	ug/L	<200	200	11/13/20 15:03	
Manganese	ug/L	<10.0	10.0	11/13/20 15:03	
Nickel	ug/L	<40.0	40.0	11/13/20 15:03	
Potassium	ug/L	<5000	5000	11/13/20 15:03	
Sodium	ug/L	<5000	5000	11/13/20 15:03	
Zinc	ug/L	<20.0	20.0	11/13/20 15:03	

LABORATORY CONTROL SAMPLE: 909614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	4940	99	85-115	
Barium	ug/L	500	490	98	85-115	
Calcium	ug/L	25000	24900	100	85-115	
Chromium	ug/L	250	249	100	85-115	
Copper	ug/L	250	246	98	85-115	
Iron	ug/L	2000	1990	99	85-115	
Lead	ug/L	500	492	98	85-115	
Magnesium	ug/L	25000	24700	99	85-115	
Manganese	ug/L	250	245	98	85-115	
Nickel	ug/L	250	249	100	85-115	
Potassium	ug/L	50000	50600	101	85-115	
Sodium	ug/L	50000	48600	97	85-115	
Zinc	ug/L	1000	993	99	85-115	

MATRIX SPIKE SAMPLE: 909616

Parameter	Units	70151125017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	5000	4930	98	70-130	
Barium	ug/L	24.3J	500	512	98	70-130	
Calcium	ug/L	30600	25000	53700	92	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 10/27
Pace Project No.: 70151125

MATRIX SPIKE SAMPLE: 909616

Parameter	Units	70151125017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	3.1J	250	253	100	70-130	
Copper	ug/L	<25.0	250	252	100	70-130	
Iron	ug/L	3780	2000	5590	91	70-130	
Lead	ug/L	<5.0	500	486	97	70-130	
Magnesium	ug/L	11600	25000	35800	97	70-130	
Manganese	ug/L	76.4	250	317	96	70-130	
Nickel	ug/L	12.3J	250	258	98	70-130	
Potassium	ug/L	66800	50000	116000	98	70-130	
Sodium	ug/L	219000	50000	261000	84	70-130	
Zinc	ug/L	<20.0	1000	1000	100	70-130	

MATRIX SPIKE SAMPLE: 909618

Parameter	Units	70151125019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	177J	5000	5190	100	70-130	
Barium	ug/L	228	500	718	98	70-130	
Calcium	ug/L	40200	25000	63600	94	70-130	
Chromium	ug/L	1.5J	250	256	102	70-130	
Copper	ug/L	<25.0	250	252	100	70-130	
Iron	ug/L	91.7J	2000	2110	101	70-130	
Lead	ug/L	<5.0	500	499	100	70-130	
Magnesium	ug/L	15500	25000	40400	100	70-130	
Manganese	ug/L	114	250	360	98	70-130	
Nickel	ug/L	29.2J	250	279	100	70-130	
Potassium	ug/L	9510	50000	63500	108	70-130	
Sodium	ug/L	138000	50000	185000	94	70-130	
Zinc	ug/L	26.4	1000	1040	101	70-130	

SAMPLE DUPLICATE: 909615

Parameter	Units	70151125017 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		
Barium	ug/L	24.3J	24.0J		
Calcium	ug/L	30600	30200	1	
Chromium	ug/L	3.1J	3.1J		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	3780	3730	1	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	11600	11500	1	
Manganese	ug/L	76.4	75.6	1	
Nickel	ug/L	12.3J	12.7J		
Potassium	ug/L	66800	66600	0	
Sodium	ug/L	219000	216000	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 10/27
Pace Project No.: 70151125

SAMPLE DUPLICATE: 909617

Parameter	Units	70151125019 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	177J	172J		
Barium	ug/L	228	222	3	
Calcium	ug/L	40200	39200	3	
Chromium	ug/L	1.5J	<10.0		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	91.7J	89.1J		
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	15500	15100	3	
Manganese	ug/L	114	111	3	
Nickel	ug/L	29.2J	28.7J		
Potassium	ug/L	9510	9080	5	
Sodium	ug/L	138000	135000	2	
Zinc	ug/L	26.4	25.1	5	

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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 10/27
Pace Project No.: 70151125

QC Batch: 184483
QC Batch Method: EPA 8260C/5030C
Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70151125001, 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125029, 70151125030, 70151125032

METHOD BLANK: 903380
Matrix: Water
Associated Lab Samples: 70151125001, 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125029, 70151125030, 70151125032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	11/05/20 10:26	
1,1-Dichloroethane	ug/L	<1.0	1.0	11/05/20 10:26	
1,1-Dichloroethene	ug/L	<1.0	1.0	11/05/20 10:26	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	11/05/20 10:26	
1,2-Dichloroethane	ug/L	<1.0	1.0	11/05/20 10:26	
1,2-Dichloropropane	ug/L	<1.0	1.0	11/05/20 10:26	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	11/05/20 10:26	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	11/05/20 10:26	
Benzene	ug/L	<1.0	1.0	11/05/20 10:26	
Bromodichloromethane	ug/L	<1.0	1.0	11/05/20 10:26	
Bromoform	ug/L	<1.0	1.0	11/05/20 10:26	CL
Carbon tetrachloride	ug/L	<1.0	1.0	11/05/20 10:26	
Chlorobenzene	ug/L	<1.0	1.0	11/05/20 10:26	
Chloroethane	ug/L	<1.0	1.0	11/05/20 10:26	
Chloroform	ug/L	<1.0	1.0	11/05/20 10:26	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	11/05/20 10:26	
Dibromochloromethane	ug/L	<1.0	1.0	11/05/20 10:26	
Dichlorodifluoromethane	ug/L	<1.0	1.0	11/05/20 10:26	
Ethylbenzene	ug/L	<1.0	1.0	11/05/20 10:26	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	11/05/20 10:26	
m&p-Xylene	ug/L	<2.0	2.0	11/05/20 10:26	
Methylene Chloride	ug/L	<1.0	1.0	11/05/20 10:26	
n-Butylbenzene	ug/L	<1.0	1.0	11/05/20 10:26	
o-Xylene	ug/L	<1.0	1.0	11/05/20 10:26	
tert-Butylbenzene	ug/L	<1.0	1.0	11/05/20 10:26	
Tetrachloroethene	ug/L	<1.0	1.0	11/05/20 10:26	
Toluene	ug/L	<1.0	1.0	11/05/20 10:26	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	11/05/20 10:26	
Trichloroethene	ug/L	<1.0	1.0	11/05/20 10:26	
Vinyl chloride	ug/L	<1.0	1.0	11/05/20 10:26	
Xylene (Total)	ug/L	<3.0	3.0	11/05/20 10:26	
1,2-Dichloroethane-d4 (S)	%	105	68-153	11/05/20 10:26	
4-Bromofluorobenzene (S)	%	100	79-124	11/05/20 10:26	
Toluene-d8 (S)	%	92	69-124	11/05/20 10:26	

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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 10/27
Pace Project No.: 70151125

LABORATORY CONTROL SAMPLE: 903381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.6	99	65-118	
1,1-Dichloroethane	ug/L	50	49.6	99	83-151	
1,1-Dichloroethene	ug/L	50	47.8	96	45-146	
1,2-Dichlorobenzene	ug/L	50	44.8	90	74-113	
1,2-Dichloroethane	ug/L	50	45.4	91	74-129	
1,2-Dichloropropane	ug/L	50	51.0	102	75-117	
1,3-Dichlorobenzene	ug/L	50	44.5	89	71-112	
1,4-Dichlorobenzene	ug/L	50	42.5	85	71-113	
Benzene	ug/L	50	48.1	96	73-119	
Bromodichloromethane	ug/L	50	49.0	98	78-117	
Bromoform	ug/L	50	33.5	67	65-122	CL
Carbon tetrachloride	ug/L	50	43.6	87	59-120	
Chlorobenzene	ug/L	50	42.4	85	75-113	
Chloroethane	ug/L	50	45.5	91	49-151	
Chloroform	ug/L	50	46.5	93	72-122	
cis-1,2-Dichloroethene	ug/L	50	46.4	93	72-121	
Dibromochloromethane	ug/L	50	35.6	71	70-120	
Dichlorodifluoromethane	ug/L	50	61.0	122	22-154	CH
Ethylbenzene	ug/L	50	42.6	85	70-113	
Isopropylbenzene (Cumene)	ug/L	50	45.5	91	67-115	
m&p-Xylene	ug/L	100	88.5	88	72-115	
Methylene Chloride	ug/L	50	45.3	91	61-142	
n-Butylbenzene	ug/L	50	48.3	97	73-107	
o-Xylene	ug/L	50	42.6	85	73-117	
tert-Butylbenzene	ug/L	50	44.1	88	68-100	
Tetrachloroethene	ug/L	50	40.7	81	60-128	
Toluene	ug/L	50	49.0	98	72-119	
trans-1,2-Dichloroethene	ug/L	50	46.6	93	56-142	
Trichloroethene	ug/L	50	47.9	96	69-117	
Vinyl chloride	ug/L	50	50.6	101	43-143	
Xylene (Total)	ug/L	150	131	87	71-109	
1,2-Dichloroethane-d4 (S)	%			106	68-153	
4-Bromofluorobenzene (S)	%			103	79-124	
Toluene-d8 (S)	%			94	69-124	

MATRIX SPIKE SAMPLE: 904376

Parameter	Units	70151454001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	51.1	102	65-118	
1,1-Dichloroethane	ug/L	<1.0	50	50.9	102	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	51.0	102	45-146	
1,2-Dichlorobenzene	ug/L	<1.0	50	43.5	87	74-113	
1,2-Dichloroethane	ug/L	<1.0	50	46.2	92	74-129	
1,2-Dichloropropane	ug/L	<1.0	50	51.9	104	75-117	
1,3-Dichlorobenzene	ug/L	<1.0	50	42.4	85	71-112	

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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 10/27
Pace Project No.: 70151125

MATRIX SPIKE SAMPLE: 904376

Parameter	Units	70151454001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	<1.0	50	41.1	82	71-113	
Benzene	ug/L	<1.0	50	50.2	100	73-119	
Bromodichloromethane	ug/L	<1.0	50	48.6	97	78-117	
Bromoform	ug/L	<1.0	50	30.3	61	65-122	CL,M1
Carbon tetrachloride	ug/L	<1.0	50	43.0	86	59-120	
Chlorobenzene	ug/L	<1.0	50	42.7	85	75-113	
Chloroethane	ug/L	<1.0	50	48.3	97	49-151	
Chloroform	ug/L	<1.0	50	47.9	96	72-122	
cis-1,2-Dichloroethene	ug/L	6.1	50	54.0	96	72-121	
Dibromochloromethane	ug/L	<1.0	50	33.5	67	70-120	M1
Dichlorodifluoromethane	ug/L	<1.0	50	61.0	122	22-154	CH
Ethylbenzene	ug/L	<1.0	50	44.9	90	70-113	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	46.4	93	67-115	
m&p-Xylene	ug/L	<2.0	100	90.0	90	72-115	
Methylene Chloride	ug/L	<1.0	50	46.1	92	61-142	
n-Butylbenzene	ug/L	<1.0	50	45.0	90	73-107	
o-Xylene	ug/L	<1.0	50	43.4	87	73-117	
tert-Butylbenzene	ug/L	<1.0	50	45.0	90	68-100	
Tetrachloroethene	ug/L	1.3	50	43.3	84	60-128	
Toluene	ug/L	<1.0	50	51.1	102	72-119	
trans-1,2-Dichloroethene	ug/L	<1.0	50	51.3	103	56-142	
Trichloroethene	ug/L	1.2	50	51.3	100	69-117	
Vinyl chloride	ug/L	<1.0	50	52.9	106	43-143	
Xylene (Total)	ug/L	<3.0	150	133	89	71-109	
1,2-Dichloroethane-d4 (S)	%				104	68-153	
4-Bromofluorobenzene (S)	%				102	79-124	
Toluene-d8 (S)	%				93	69-124	

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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 10/27
Pace Project No.: 70151125

QC Batch: 184713
QC Batch Method: EPA 8260C/5030C
Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70151125016, 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027

METHOD BLANK: 904531 Matrix: Water
Associated Lab Samples: 70151125016, 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	11/06/20 09:24	
1,1-Dichloroethane	ug/L	<1.0	1.0	11/06/20 09:24	
1,1-Dichloroethene	ug/L	<1.0	1.0	11/06/20 09:24	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	11/06/20 09:24	
1,2-Dichloroethane	ug/L	<1.0	1.0	11/06/20 09:24	
1,2-Dichloropropane	ug/L	<1.0	1.0	11/06/20 09:24	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	11/06/20 09:24	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	11/06/20 09:24	
Benzene	ug/L	<1.0	1.0	11/06/20 09:24	
Bromodichloromethane	ug/L	<1.0	1.0	11/06/20 09:24	
Bromoform	ug/L	<1.0	1.0	11/06/20 09:24	v3
Carbon tetrachloride	ug/L	<1.0	1.0	11/06/20 09:24	
Chlorobenzene	ug/L	<1.0	1.0	11/06/20 09:24	
Chloroethane	ug/L	<1.0	1.0	11/06/20 09:24	
Chloroform	ug/L	<1.0	1.0	11/06/20 09:24	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	11/06/20 09:24	
Dibromochloromethane	ug/L	<1.0	1.0	11/06/20 09:24	v3
Dichlorodifluoromethane	ug/L	<1.0	1.0	11/06/20 09:24	
Ethylbenzene	ug/L	<1.0	1.0	11/06/20 09:24	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	11/06/20 09:24	
m&p-Xylene	ug/L	<2.0	2.0	11/06/20 09:24	
Methylene Chloride	ug/L	<1.0	1.0	11/06/20 09:24	
n-Butylbenzene	ug/L	<1.0	1.0	11/06/20 09:24	
o-Xylene	ug/L	<1.0	1.0	11/06/20 09:24	
tert-Butylbenzene	ug/L	<1.0	1.0	11/06/20 09:24	
Tetrachloroethene	ug/L	<1.0	1.0	11/06/20 09:24	
Toluene	ug/L	<1.0	1.0	11/06/20 09:24	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	11/06/20 09:24	
Trichloroethene	ug/L	<1.0	1.0	11/06/20 09:24	
Vinyl chloride	ug/L	<1.0	1.0	11/06/20 09:24	
Xylene (Total)	ug/L	<3.0	3.0	11/06/20 09:24	
1,2-Dichloroethane-d4 (S)	%	105	68-153	11/06/20 09:24	
4-Bromofluorobenzene (S)	%	97	79-124	11/06/20 09:24	
Toluene-d8 (S)	%	91	69-124	11/06/20 09:24	

LABORATORY CONTROL SAMPLE: 904532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.4	93	65-118	

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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 10/27
Pace Project No.: 70151125

LABORATORY CONTROL SAMPLE: 904532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	50	44.7	89	83-151	
1,1-Dichloroethene	ug/L	50	41.0	82	45-146	
1,2-Dichlorobenzene	ug/L	50	42.8	86	74-113	
1,2-Dichloroethane	ug/L	50	40.6	81	74-129	
1,2-Dichloropropane	ug/L	50	46.8	94	75-117	
1,3-Dichlorobenzene	ug/L	50	42.3	85	71-112	
1,4-Dichlorobenzene	ug/L	50	40.9	82	71-113	
Benzene	ug/L	50	42.6	85	73-119	
Bromodichloromethane	ug/L	50	48.4	97	78-117	
Bromoform	ug/L	50	35.8	72	65-122	v3
Carbon tetrachloride	ug/L	50	44.0	88	59-120	
Chlorobenzene	ug/L	50	38.6	77	75-113	
Chloroethane	ug/L	50	37.3	75	49-151	
Chloroform	ug/L	50	42.1	84	72-122	
cis-1,2-Dichloroethene	ug/L	50	41.9	84	72-121	
Dibromochloromethane	ug/L	50	37.2	74	70-120	v3
Dichlorodifluoromethane	ug/L	50	36.8	74	22-154	
Ethylbenzene	ug/L	50	38.9	78	70-113	
Isopropylbenzene (Cumene)	ug/L	50	41.8	84	67-115	
m&p-Xylene	ug/L	100	79.6	80	72-115	
Methylene Chloride	ug/L	50	40.3	81	61-142	
n-Butylbenzene	ug/L	50	45.2	90	73-107	
o-Xylene	ug/L	50	38.8	78	73-117	
tert-Butylbenzene	ug/L	50	41.0	82	68-100	
Tetrachloroethene	ug/L	50	36.1	72	60-128	
Toluene	ug/L	50	43.7	87	72-119	
trans-1,2-Dichloroethene	ug/L	50	42.2	84	56-142	
Trichloroethene	ug/L	50	42.9	86	69-117	
Vinyl chloride	ug/L	50	40.2	80	43-143	
Xylene (Total)	ug/L	150	118	79	71-109	
1,2-Dichloroethane-d4 (S)	%			102	68-153	
4-Bromofluorobenzene (S)	%			100	79-124	
Toluene-d8 (S)	%			94	69-124	

MATRIX SPIKE SAMPLE: 905270

Parameter	Units	70151125021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	49.1	98	65-118	
1,1-Dichloroethane	ug/L	<1.0	50	49.3	99	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	48.6	97	45-146	
1,2-Dichlorobenzene	ug/L	<1.0	50	44.6	89	74-113	
1,2-Dichloroethane	ug/L	<1.0	50	44.2	88	74-129	
1,2-Dichloropropane	ug/L	<1.0	50	49.7	99	75-117	
1,3-Dichlorobenzene	ug/L	<1.0	50	44.2	88	71-112	
1,4-Dichlorobenzene	ug/L	2.8	50	45.2	85	71-113	

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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 10/27
Pace Project No.: 70151125

MATRIX SPIKE SAMPLE: 905270

Parameter	Units	70151125021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	1.2	50	48.8	95	73-119	
Bromodichloromethane	ug/L	<1.0	50	45.4	91	78-117	
Bromoform	ug/L	<1.0	50	26.8	54	65-122	M1,v3
Carbon tetrachloride	ug/L	<1.0	50	42.0	84	59-120	
Chlorobenzene	ug/L	4.5	50	44.9	81	75-113	
Chloroethane	ug/L	<1.0	50	43.6	87	49-151	
Chloroform	ug/L	<1.0	50	45.9	92	72-122	
cis-1,2-Dichloroethene	ug/L	<1.0	50	46.3	93	72-121	
Dibromochloromethane	ug/L	<1.0	50	30.9	62	70-120	M1,v3
Dichlorodifluoromethane	ug/L	<1.0	50	41.6	83	22-154	
Ethylbenzene	ug/L	<1.0	50	43.3	87	70-113	
Isopropylbenzene (Cumene)	ug/L	1.7	50	47.6	92	67-115	
m&p-Xylene	ug/L	<2.0	100	86.5	86	72-115	
Methylene Chloride	ug/L	<1.0	50	43.7	87	61-142	
n-Butylbenzene	ug/L	<1.0	50	48.8	98	73-107	
o-Xylene	ug/L	<1.0	50	42.1	84	73-117	
tert-Butylbenzene	ug/L	<1.0	50	45.5	91	68-100	
Tetrachloroethene	ug/L	<1.0	50	40.5	81	60-128	
Toluene	ug/L	<1.0	50	48.9	98	72-119	
trans-1,2-Dichloroethene	ug/L	<1.0	50	48.5	97	56-142	
Trichloroethene	ug/L	<1.0	50	49.2	98	69-117	
Vinyl chloride	ug/L	<1.0	50	46.0	92	43-143	
Xylene (Total)	ug/L	<3.0	150	129	86	71-109	
1,2-Dichloroethane-d4 (S)	%				102	68-153	
4-Bromofluorobenzene (S)	%				100	79-124	
Toluene-d8 (S)	%				91	69-124	

SAMPLE DUPLICATE: 905273

Parameter	Units	70151125017 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichlorobenzene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,4-Dichlorobenzene	ug/L	1.5	1.5	3	
Benzene	ug/L	1.4	1.4	2	
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		v3
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	2.9	3.1	5	
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	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 10/27
Pace Project No.: 70151125

SAMPLE DUPLICATE: 905273

Parameter	Units	70151125017 Result	Dup Result	RPD	Qualifiers
cis-1,2-Dichloroethene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		v3
Dichlorodifluoromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	1.4	1.4	4	
m&p-Xylene	ug/L	<2.0	<2.0		
Methylene Chloride	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	<1.0	<1.0		
o-Xylene	ug/L	<1.0	<1.0		
tert-Butylbenzene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<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	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	105	102		
4-Bromofluorobenzene (S)	%	99	100		
Toluene-d8 (S)	%	89	90		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 184986
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027

METHOD BLANK: 905793 Matrix: Water
Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	11/09/20 00:00	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	11/09/20 00:00	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	11/09/20 00:00	

LABORATORY CONTROL SAMPLE: 905794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	25.0	100	85-115	
Alkalinity,Bicarbonate (CaCO3)	mg/L		4.2			
Alkalinity,Carbonate (CaCO3)	mg/L	25	20.9	84	85-115	L2

MATRIX SPIKE SAMPLE: 905796

Parameter	Units	70151439004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	25	21.4	86	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0		14.5			
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	25	7.0	28	75-125	M0

SAMPLE DUPLICATE: 905795

Parameter	Units	70151439004 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	<1.0		
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	<1.0		
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 185036
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70151125032

METHOD BLANK: 906139 Matrix: Water
Associated Lab Samples: 70151125032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	0.32J	1.0	11/10/20 10:55	
Alkalinity,Bicarbonate (CaCO3)	mg/L	0.32J	1.0	11/10/20 10:55	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	11/10/20 10:55	

LABORATORY CONTROL SAMPLE: 906140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	25.6	102	85-115	

MATRIX SPIKE SAMPLE: 906142

Parameter	Units	70151721001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	18.2	25	44.0	103	75-125	

SAMPLE DUPLICATE: 906141

Parameter	Units	70151721001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	18.2	20.1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	18.2	20.1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 185244
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity, High Level
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70151125030

METHOD BLANK: 907389 Matrix: Water
Associated Lab Samples: 70151125030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	2.5	11/11/20 08:42	

LABORATORY CONTROL SAMPLE: 907390

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	125	127	101	80-120	

MATRIX SPIKE SAMPLE: 907392

Parameter	Units	70152810004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	4470	625	5400	149	75-125	M1

SAMPLE DUPLICATE: 907391

Parameter	Units	70152810004 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	4470	4160	7	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 183660 | Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125017, 70151125019, 70151125021

METHOD BLANK: 899030 Matrix: Water
Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125017, 70151125019, 70151125021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/30/20 09:51	

LABORATORY CONTROL SAMPLE: 899031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	446	89	85-115	

MATRIX SPIKE SAMPLE: 899035

Parameter	Units	70151125017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	849	300	1130	94	75-125	

MATRIX SPIKE SAMPLE: 899102

Parameter	Units	70151334002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	5230	300	5490	87	75-125	

SAMPLE DUPLICATE: 899034

Parameter	Units	70151125017 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	849	842	1	

SAMPLE DUPLICATE: 899101

Parameter	Units	70151334002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	5230	4990	5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 183877 | Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70151125023, 70151125025, 70151125027

METHOD BLANK: 900254 Matrix: Water
Associated Lab Samples: 70151125023, 70151125025, 70151125027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	11/02/20 10:32	

LABORATORY CONTROL SAMPLE: 900255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	560	112	85-115	

MATRIX SPIKE SAMPLE: 900257

Parameter	Units	70151273001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	249	300	525	92	75-125	

MATRIX SPIKE SAMPLE: 900269

Parameter	Units	70151299001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	260	300	537	92	75-125	

SAMPLE DUPLICATE: 900256

Parameter	Units	70151273001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	249	229	8	D6

SAMPLE DUPLICATE: 900268

Parameter	Units	70151299001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	260	258	1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 184046
QC Batch Method: SM22 2540C
Analysis Method: SM22 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70151125030, 70151125032

METHOD BLANK: 901349 Matrix: Water
Associated Lab Samples: 70151125030, 70151125032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	11/03/20 10:53	

LABORATORY CONTROL SAMPLE: 901350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	530	106	85-115	

MATRIX SPIKE SAMPLE: 901352

Parameter	Units	70151413003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	347	300	632	95	75-125	

MATRIX SPIKE SAMPLE: 901354

Parameter	Units	70151584001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	864	300	1180	104	75-125	

SAMPLE DUPLICATE: 901351

Parameter	Units	70151413003 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	347	357	3	

SAMPLE DUPLICATE: 901353

Parameter	Units	70151584001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	864	913	6	D6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 183207 | 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: 70151125002, 70151125003, 70151125004, 70151125005, 70151125006, 70151125007, 70151125008, 70151125009, 70151125010, 70151125011, 70151125012, 70151125013, 70151125014, 70151125015

METHOD BLANK: 896465 Matrix: Water

Associated Lab Samples: 70151125002, 70151125003, 70151125004, 70151125005, 70151125006, 70151125007, 70151125008, 70151125009, 70151125010, 70151125011, 70151125012, 70151125013, 70151125014, 70151125015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	10/28/20 08:54	

LABORATORY CONTROL SAMPLE: 896466

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

MATRIX SPIKE SAMPLE: 896467

Parameter	Units	70151125003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.21	103	75-125	H1

SAMPLE DUPLICATE: 896468

Parameter	Units	70151125003 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		H1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 183445 | 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: 70151125017, 70151125018, 70151125019, 70151125020, 70151125021, 70151125022, 70151125023, 70151125024, 70151125025, 70151125026, 70151125027, 70151125028

METHOD BLANK: 897426 Matrix: Water
Associated Lab Samples: 70151125017, 70151125018, 70151125019, 70151125020, 70151125021, 70151125022, 70151125023, 70151125024, 70151125025, 70151125026, 70151125027, 70151125028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	10/29/20 09:50	

LABORATORY CONTROL SAMPLE: 897427

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: 897428

Parameter	Units	70151125017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.18	91	75-125	H1

SAMPLE DUPLICATE: 897429

Parameter	Units	70151125017 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		H1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 183645 | 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: 70151125030, 70151125031, 70151125032, 70151125033

METHOD BLANK: 898976 Matrix: Water
Associated Lab Samples: 70151125030, 70151125031, 70151125032, 70151125033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	10/30/20 07:41	

LABORATORY CONTROL SAMPLE: 898977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.20	102	85-115	

MATRIX SPIKE SAMPLE: 898978

Parameter	Units	70151125030 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.2	0.16	82	75-125	

SAMPLE DUPLICATE: 898979

Parameter	Units	70151125030 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	<0.020		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 184783 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027

METHOD BLANK: 905025 — Matrix: Water

Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<5.0	5.0	11/12/20 20:12	

LABORATORY CONTROL SAMPLE: 905026

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	9.8	98	90-110	

MATRIX SPIKE SAMPLE: 905027

Parameter	Units	70151125002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	22.0	10	30.8	88	90-110	M1

MATRIX SPIKE SAMPLE: 905029

Parameter	Units	70151125008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20.5	10	30.6	100	90-110	

SAMPLE DUPLICATE: 905028

Parameter	Units	70151125002 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	22.0	22.2	1	

SAMPLE DUPLICATE: 905030

Parameter	Units	70151125008 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	20.5	20.3	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 185020
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: 70151125030, 70151125032

METHOD BLANK: 906029 Matrix: Water
Associated Lab Samples: 70151125030, 70151125032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<5.0	5.0	11/10/20 00:58	

LABORATORY CONTROL SAMPLE: 906030

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

MATRIX SPIKE SAMPLE: 906031

Parameter	Units	70151721001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	<5.0	10	10.4	98	90-110	

MATRIX SPIKE SAMPLE: 906033

Parameter	Units	70151862001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	33.9	10	42.4	86	90-110	M1

SAMPLE DUPLICATE: 906032

Parameter	Units	70151721001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	<5.0	0.59J		

SAMPLE DUPLICATE: 906034

Parameter	Units	70151862001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	33.9	34.0	0	

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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 10/27
Pace Project No.: 70151125

QC Batch: 184850
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027, 70151125030, 70151125032

METHOD BLANK: 905414 Matrix: Water
Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027, 70151125030, 70151125032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.094	11/09/20 16:32	

LABORATORY CONTROL SAMPLE: 905415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	3.6	91	90-110	

MATRIX SPIKE SAMPLE: 905416

Parameter	Units	70152484002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5.7	4	9.8	103	90-110	

MATRIX SPIKE SAMPLE: 905418

Parameter	Units	70151125025 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.8	4	5.4	89	90-110	M1

SAMPLE DUPLICATE: 905417

Parameter	Units	70152484002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5.7	5.6	2	

SAMPLE DUPLICATE: 905419

Parameter	Units	70151125025 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.8	1.5	21	

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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 10/27
Pace Project No.: 70151125

QC Batch: 183192 | 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: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014

METHOD BLANK: 896430 Matrix: Water
Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	10/27/20 20:42	

LABORATORY CONTROL SAMPLE: 896431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 896432

Parameter	Units	70151038001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	100	90-110	

MATRIX SPIKE SAMPLE: 896434

Parameter	Units	70151133001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.51	102	90-110	

SAMPLE DUPLICATE: 896433

Parameter	Units	70151038001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 896435

Parameter	Units	70151133001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 183433 | 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: 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027

METHOD BLANK: 897362 Matrix: Water
Associated Lab Samples: 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	10/28/20 21:23	

LABORATORY CONTROL SAMPLE: 897363

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

MATRIX SPIKE SAMPLE: 897364

Parameter	Units	70151261002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.54	107	90-110	

MATRIX SPIKE SAMPLE: 897366

Parameter	Units	70151250001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.54	106	90-110	

SAMPLE DUPLICATE: 897365

Parameter	Units	70151261002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 897367

Parameter	Units	70151250001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 183633
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: 70151125030, 70151125032

METHOD BLANK: 898949 Matrix: Water
Associated Lab Samples: 70151125030, 70151125032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	10/29/20 22:22	

LABORATORY CONTROL SAMPLE: 898950

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 898951

Parameter	Units	70151413001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.52	105	90-110	

SAMPLE DUPLICATE: 898952

Parameter	Units	70151413001 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 10/27
Pace Project No.: 70151125

QC Batch: 183199
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: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014

METHOD BLANK: 896454 Matrix: Water
Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	10/27/20 22:30	

LABORATORY CONTROL SAMPLE: 896455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	102	90-110	

MATRIX SPIKE SAMPLE: 896456

Parameter	Units	70151125002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.65	0.5	1.2	112	90-110	M1

SAMPLE DUPLICATE: 896457

Parameter	Units	70151125002 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.65	0.66	2	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 183440 — 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: 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027

METHOD BLANK: 897413 — Matrix: Water
Associated Lab Samples: 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	10/28/20 22:32	

LABORATORY CONTROL SAMPLE: 897414

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	0.96	96	90-110	

MATRIX SPIKE SAMPLE: 897415

Parameter	Units	70151125017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.53	106	90-110	

MATRIX SPIKE SAMPLE: 897417

Parameter	Units	70151297001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	9.8	5	15.0	103	90-110	

SAMPLE DUPLICATE: 897416

Parameter	Units	70151125017 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 897418

Parameter	Units	70151297001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	9.8	10.1	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 183636
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: 70151125030, 70151125032

METHOD BLANK: 898964 Matrix: Water
Associated Lab Samples: 70151125030, 70151125032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	10/30/20 00:04	

LABORATORY CONTROL SAMPLE: 898965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 898966

Parameter	Units	70151446001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.33	0.5	0.85	103	90-110	

SAMPLE DUPLICATE: 898967

Parameter	Units	70151446001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.33	0.35	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 185250
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: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027, 70151125030, 70151125032

METHOD BLANK: 907415 Matrix: Water
Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027, 70151125030, 70151125032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	5.0	11/11/20 11:38	

LABORATORY CONTROL SAMPLE: 907416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	100	109	109	90-110	

MATRIX SPIKE SAMPLE: 907417

Parameter	Units	70151125004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	4.6J	50	66.8	124	75-125	

SAMPLE DUPLICATE: 907418

Parameter	Units	70151125004 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	4.6J	5.0J		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 185070 | Analysis Method: SM22 4500-CN-E
QC Batch Method: SM20/22 4500-CN-C | Analysis Description: 4500 CNE Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014

METHOD BLANK: 906226 Matrix: Water
Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	11/10/20 16:38	

LABORATORY CONTROL SAMPLE: 906227

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	70.2	94	85-115	

MATRIX SPIKE SAMPLE: 906228

Parameter	Units	70151191001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	83.0	100	200	117	75-125	

SAMPLE DUPLICATE: 906229

Parameter	Units	70151191001 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	83.0	83.6	1	

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REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 185264 | Analysis Method: SM22 4500-CN-E
QC Batch Method: SM20/22 4500-CN-C | Analysis Description: 4500 CNE Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027, 70151125030, 70151125032

METHOD BLANK: 907442 Matrix: Water
Associated Lab Samples: 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027, 70151125030, 70151125032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	5.0	11/11/20 17:03	

LABORATORY CONTROL SAMPLE: 907443

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	69.2	92	85-115	

MATRIX SPIKE SAMPLE: 907444

Parameter	Units	70151125017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<10.0	100	124	123	75-125	

SAMPLE DUPLICATE: 907445

Parameter	Units	70151125017 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	<10.0	<10.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 184944 — Analysis Method: SM22 4500-Cl-E
QC Batch Method: SM22 4500-Cl-E — Analysis Description: 4500 Chloride
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027, 70151125030, 70151125032

METHOD BLANK: 905613 — Matrix: Water
Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125017, 70151125019, 70151125021, 70151125023, 70151125025, 70151125027, 70151125030, 70151125032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	11/09/20 17:05	

LABORATORY CONTROL SAMPLE: 905614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.9	96	90-110	

MATRIX SPIKE SAMPLE: 905615

Parameter	Units	70151125008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	114	125	250	109	80-120	

SAMPLE DUPLICATE: 905616

Parameter	Units	70151125008 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	114	110	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 184899 | 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: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125017, 70151125019, 70151125023, 70151125025, 70151125027, 70151125030, 70151125032

METHOD BLANK: 905529 Matrix: Water
Associated Lab Samples: 70151125002, 70151125004, 70151125006, 70151125008, 70151125010, 70151125012, 70151125014, 70151125017, 70151125019, 70151125023, 70151125025, 70151125027, 70151125030, 70151125032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	11/09/20 12:45	

LABORATORY CONTROL SAMPLE: 905530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.98	98	90-110	

MATRIX SPIKE SAMPLE: 905531

Parameter	Units	70151125002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	16.2	20	41.0	124	75-125	

SAMPLE DUPLICATE: 905532

Parameter	Units	70151125002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	16.2	16.3	1	

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REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
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QUALITY CONTROL DATA

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

QC Batch: 185085
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: 70151125021

METHOD BLANK: 906268 Matrix: Water
Associated Lab Samples: 70151125021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	11/10/20 13:40	

LABORATORY CONTROL SAMPLE: 906269

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.90	90	90-110	

MATRIX SPIKE SAMPLE: 906270

Parameter	Units	70151721001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	1.2	113	75-125	

SAMPLE DUPLICATE: 906271

Parameter	Units	70151721001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

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

B	Analyte was detected in the associated method blank.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
H1	Analysis conducted outside the EPA method holding time.
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.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

Pace Analytical Services, LLC
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(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70151125002	OBS-1_10/27/2020	EPA 200.7	185175	EPA 200.7	185182
70151125004	MW-09B_10/27/2020	EPA 200.7	185175	EPA 200.7	185182
70151125006	MW-09C_10/27/2020	EPA 200.7	185175	EPA 200.7	185182
70151125008	BLIND DUPLICATE 1_10/27/20	EPA 200.7	185175	EPA 200.7	185182
70151125010	MW-05B_10/27/2020	EPA 200.7	185175	EPA 200.7	185182
70151125012	MW-08B_10/27/2020	EPA 200.7	185175	EPA 200.7	185182
70151125014	MW-08A_10/27/2020	EPA 200.7	185175	EPA 200.7	185182
70151125017	MW-06C_10/28/20	EPA 200.7	185698	EPA 200.7	185702
70151125019	MW-06F_10/28/20	EPA 200.7	185698	EPA 200.7	185702
70151125021	MW-06B_10/28/20	EPA 200.7	185698	EPA 200.7	185702
70151125023	MW-06E_10/28/20	EPA 200.7	185698	EPA 200.7	185702
70151125025	MW-06A_10/28/20	EPA 200.7	185698	EPA 200.7	185702
70151125027	FIELD BLANK	EPA 200.7	185175	EPA 200.7	185182
70151125030	LF-2_10/29/20	EPA 200.7	185698	EPA 200.7	185702
70151125032	LF-1_10/29/20	EPA 200.7	185698	EPA 200.7	185702
70151125003	OBS-1_10/27/2020 DISS	EPA 200.7	183781		
70151125005	MW-09B_10/27/2020 DISS	EPA 200.7	183781		
70151125007	MW-09C_10/27/2020 DISS	EPA 200.7	183781		
70151125009	BLIND DUPLICATE 1_10/27/20 DIS	EPA 200.7	183781		
70151125011	MW-05B_10/27/2020 DISS	EPA 200.7	183781		
70151125013	MW-08B_10/27/2020 DISS	EPA 200.7	183781		
70151125015	MW-08A_10/27/2020 DISS	EPA 200.7	183781		
70151125018	MW-06C_10/28/20 DISS	EPA 200.7	183781		
70151125020	MW-06F_10/28/20 DISS	EPA 200.7	183781		
70151125022	MW-06B_10/28/20 DISS	EPA 200.7	183781		
70151125024	MW-06E_10/28/20 DISS	EPA 200.7	183781		
70151125026	MW-06A_10/28/20 DISS	EPA 200.7	183781		
70151125028	FIELD BLANK DISS	EPA 200.7	183781		
70151125031	LF-2_10/29/20 DISS	EPA 200.7	185192		
70151125033	LF-1_10/29/20 DISS	EPA 200.7	185192		
70151125002	OBS-1_10/27/2020	SM22 2340B	185788		
70151125004	MW-09B_10/27/2020	SM22 2340B	185788		
70151125006	MW-09C_10/27/2020	SM22 2340B	185788		
70151125008	BLIND DUPLICATE 1_10/27/20	SM22 2340B	185788		
70151125010	MW-05B_10/27/2020	SM22 2340B	185788		
70151125012	MW-08B_10/27/2020	SM22 2340B	185788		
70151125014	MW-08A_10/27/2020	SM22 2340B	185788		
70151125017	MW-06C_10/28/20	SM22 2340B	185788		
70151125019	MW-06F_10/28/20	SM22 2340B	185788		
70151125021	MW-06B_10/28/20	SM22 2340B	185788		
70151125023	MW-06E_10/28/20	SM22 2340B	185788		
70151125025	MW-06A_10/28/20	SM22 2340B	185788		
70151125027	FIELD BLANK	SM22 2340B	185788		
70151125030	LF-2_10/29/20	SM22 2340B	185788		
70151125032	LF-1_10/29/20	SM22 2340B	185788		

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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
70151125002	**OBS-1_10/27/2020**	EPA 245.1	185301	EPA 245.1	185310
70151125004	**MW-09B_10/27/2020**	EPA 245.1	185301	EPA 245.1	185310
70151125006	**MW-09C_10/27/2020**	EPA 245.1	185301	EPA 245.1	185310
70151125008	**BLIND DUPLICATE 1_10/27/20**	EPA 245.1	185301	EPA 245.1	185310
70151125010	**MW-05B_10/27/2020**	EPA 245.1	185301	EPA 245.1	185310
70151125012	**MW-08B_10/27/2020**	EPA 245.1	185301	EPA 245.1	185310
70151125014	**MW-08A_10/27/2020**	EPA 245.1	185301	EPA 245.1	185310
70151125017	**MW-06C_10/28/20**	EPA 245.1	185301	EPA 245.1	185310
70151125019	**MW-06F_10/28/20**	EPA 245.1	185301	EPA 245.1	185310
70151125021	**MW-06B_10/28/20**	EPA 245.1	185301	EPA 245.1	185310
70151125023	**MW-06E_10/28/20**	EPA 245.1	185301	EPA 245.1	185310
70151125025	**MW-06A_10/28/20**	EPA 245.1	185301	EPA 245.1	185310
70151125027	**FIELD BLANK**	EPA 245.1	185301	EPA 245.1	185310
70151125030	**LF-2_10/29/20**	EPA 245.1	185301	EPA 245.1	185310
70151125032	**LF-1_10/29/20**	EPA 245.1	185301	EPA 245.1	185310
70151125003	**OBS-1_10/27/2020 DISS**	EPA 245.1	185300	EPA 245.1	185309
70151125005	**MW-09B_10/27/2020 DISS**	EPA 245.1	185300	EPA 245.1	185309
70151125007	**MW-09C_10/27/2020 DISS**	EPA 245.1	185300	EPA 245.1	185309
70151125009	**BLIND DUPLICATE 1_10/27/20 DIS**	EPA 245.1	185300	EPA 245.1	185309
70151125011	**MW-05B_10/27/2020 DISS**	EPA 245.1	185300	EPA 245.1	185309
70151125013	**MW-08B_10/27/2020 DISS**	EPA 245.1	185300	EPA 245.1	185309
70151125015	**MW-08A_10/27/2020 DISS**	EPA 245.1	185300	EPA 245.1	185309
70151125018	**MW-06C_10/28/20 DISS**	EPA 245.1	185300	EPA 245.1	185309
70151125020	**MW-06F_10/28/20 DISS**	EPA 245.1	185300	EPA 245.1	185309
70151125022	**MW-06B_10/28/20 DISS**	EPA 245.1	185300	EPA 245.1	185309
70151125024	**MW-06E_10/28/20 DISS**	EPA 245.1	185300	EPA 245.1	185309
70151125026	**MW-06A_10/28/20 DISS**	EPA 245.1	185300	EPA 245.1	185309
70151125028	**FIELD BLANK DISS**	EPA 245.1	185300	EPA 245.1	185309
70151125031	**LF-2_10/29/20 DISS**	EPA 245.1	185300	EPA 245.1	185309
70151125033	**LF-1_10/29/20 DISS**	EPA 245.1	185300	EPA 245.1	185309
70151125001	**TRIP BLANK_10/27/2020**	EPA 8260C/5030C	184483		
70151125002	**OBS-1_10/27/2020**	EPA 8260C/5030C	184483		
70151125004	**MW-09B_10/27/2020**	EPA 8260C/5030C	184483		
70151125006	**MW-09C_10/27/2020**	EPA 8260C/5030C	184483		
70151125008	**BLIND DUPLICATE 1_10/27/20**	EPA 8260C/5030C	184483		
70151125010	**MW-05B_10/27/2020**	EPA 8260C/5030C	184483		
70151125012	**MW-08B_10/27/2020**	EPA 8260C/5030C	184483		
70151125014	**MW-08A_10/27/2020**	EPA 8260C/5030C	184483		
70151125016	**TRIP BLANK_10/28/20**	EPA 8260C/5030C	184713		
70151125017	**MW-06C_10/28/20**	EPA 8260C/5030C	184713		
70151125019	**MW-06F_10/28/20**	EPA 8260C/5030C	184713		
70151125021	**MW-06B_10/28/20**	EPA 8260C/5030C	184713		
70151125023	**MW-06E_10/28/20**	EPA 8260C/5030C	184713		
70151125025	**MW-06A_10/28/20**	EPA 8260C/5030C	184713		
70151125027	**FIELD BLANK**	EPA 8260C/5030C	184713		
70151125029	**TRIP BLANK_10/29/20**	EPA 8260C/5030C	184483		

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70151125030	LF-2_10/29/20	EPA 8260C/5030C	184483		
70151125032	LF-1_10/29/20	EPA 8260C/5030C	184483		
70151125002	OBS-1_10/27/2020	SM22 2320B	184986		
70151125004	MW-09B_10/27/2020	SM22 2320B	184986		
70151125006	MW-09C_10/27/2020	SM22 2320B	184986		
70151125008	BLIND DUPLICATE 1_10/27/20	SM22 2320B	184986		
70151125010	MW-05B_10/27/2020	SM22 2320B	184986		
70151125012	MW-08B_10/27/2020	SM22 2320B	184986		
70151125014	MW-08A_10/27/2020	SM22 2320B	184986		
70151125017	MW-06C_10/28/20	SM22 2320B	184986		
70151125019	MW-06F_10/28/20	SM22 2320B	184986		
70151125021	MW-06B_10/28/20	SM22 2320B	184986		
70151125023	MW-06E_10/28/20	SM22 2320B	184986		
70151125025	MW-06A_10/28/20	SM22 2320B	184986		
70151125027	FIELD BLANK	SM22 2320B	184986		
70151125032	LF-1_10/29/20	SM22 2320B	185036		
70151125030	LF-2_10/29/20	SM22 2320B	185244		
70151125002	OBS-1_10/27/2020	SM22 2540C	183660		
70151125004	MW-09B_10/27/2020	SM22 2540C	183660		
70151125006	MW-09C_10/27/2020	SM22 2540C	183660		
70151125008	BLIND DUPLICATE 1_10/27/20	SM22 2540C	183660		
70151125010	MW-05B_10/27/2020	SM22 2540C	183660		
70151125012	MW-08B_10/27/2020	SM22 2540C	183660		
70151125014	MW-08A_10/27/2020	SM22 2540C	183660		
70151125017	MW-06C_10/28/20	SM22 2540C	183660		
70151125019	MW-06F_10/28/20	SM22 2540C	183660		
70151125021	MW-06B_10/28/20	SM22 2540C	183660		
70151125023	MW-06E_10/28/20	SM22 2540C	183877		
70151125025	MW-06A_10/28/20	SM22 2540C	183877		
70151125027	FIELD BLANK	SM22 2540C	183877		
70151125030	LF-2_10/29/20	SM22 2540C	184046		
70151125032	LF-1_10/29/20	SM22 2540C	184046		
70151125002	OBS-1_10/27/2020	SM22 3500-Cr B	183207		
70151125003	OBS-1_10/27/2020 DISS	SM22 3500-Cr B	183207		
70151125004	MW-09B_10/27/2020	SM22 3500-Cr B	183207		
70151125005	MW-09B_10/27/2020 DISS	SM22 3500-Cr B	183207		
70151125006	MW-09C_10/27/2020	SM22 3500-Cr B	183207		
70151125007	MW-09C_10/27/2020 DISS	SM22 3500-Cr B	183207		
70151125008	BLIND DUPLICATE 1_10/27/20	SM22 3500-Cr B	183207		
70151125009	BLIND DUPLICATE 1_10/27/20 DIS	SM22 3500-Cr B	183207		
70151125010	MW-05B_10/27/2020	SM22 3500-Cr B	183207		
70151125011	MW-05B_10/27/2020 DISS	SM22 3500-Cr B	183207		
70151125012	MW-08B_10/27/2020	SM22 3500-Cr B	183207		
70151125013	MW-08B_10/27/2020 DISS	SM22 3500-Cr B	183207		
70151125014	MW-08A_10/27/2020	SM22 3500-Cr B	183207		

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70151125015	**MW-08A_10/27/2020 DISS**	SM22 3500-Cr B	183207		
70151125017	**MW-06C_10/28/20**	SM22 3500-Cr B	183445		
70151125018	**MW-06C_10/28/20 DISS**	SM22 3500-Cr B	183445		
70151125019	**MW-06F_10/28/20**	SM22 3500-Cr B	183445		
70151125020	**MW-06F_10/28/20 DISS**	SM22 3500-Cr B	183445		
70151125021	**MW-06B_10/28/20**	SM22 3500-Cr B	183445		
70151125022	**MW-06B_10/28/20 DISS**	SM22 3500-Cr B	183445		
70151125023	**MW-06E_10/28/20**	SM22 3500-Cr B	183445		
70151125024	**MW-06E_10/28/20 DISS**	SM22 3500-Cr B	183445		
70151125025	**MW-06A_10/28/20**	SM22 3500-Cr B	183445		
70151125026	**MW-06A_10/28/20 DISS**	SM22 3500-Cr B	183445		
70151125027	**FIELD BLANK**	SM22 3500-Cr B	183445		
70151125028	**FIELD BLANK DISS**	SM22 3500-Cr B	183445		
70151125030	**LF-2_10/29/20**	SM22 3500-Cr B	183645		
70151125031	**LF-2_10/29/20 DISS**	SM22 3500-Cr B	183645		
70151125032	**LF-1_10/29/20**	SM22 3500-Cr B	183645		
70151125033	**LF-1_10/29/20 DISS**	SM22 3500-Cr B	183645		
70151125002	**OBS-1_10/27/2020**	EPA 300.0	184783		
70151125004	**MW-09B_10/27/2020**	EPA 300.0	184783		
70151125006	**MW-09C_10/27/2020**	EPA 300.0	184783		
70151125008	**BLIND DUPLICATE 1_10/27/20**	EPA 300.0	184783		
70151125010	**MW-05B_10/27/2020**	EPA 300.0	184783		
70151125012	**MW-08B_10/27/2020**	EPA 300.0	184783		
70151125014	**MW-08A_10/27/2020**	EPA 300.0	184783		
70151125017	**MW-06C_10/28/20**	EPA 300.0	184783		
70151125019	**MW-06F_10/28/20**	EPA 300.0	184783		
70151125021	**MW-06B_10/28/20**	EPA 300.0	184783		
70151125023	**MW-06E_10/28/20**	EPA 300.0	184783		
70151125025	**MW-06A_10/28/20**	EPA 300.0	184783		
70151125027	**FIELD BLANK**	EPA 300.0	184783		
70151125030	**LF-2_10/29/20**	EPA 300.0	185020		
70151125032	**LF-1_10/29/20**	EPA 300.0	185020		
70151125002	**OBS-1_10/27/2020**	EPA 351.2	184850	EPA 351.2	184859
70151125004	**MW-09B_10/27/2020**	EPA 351.2	184850	EPA 351.2	184859
70151125006	**MW-09C_10/27/2020**	EPA 351.2	184850	EPA 351.2	184859
70151125008	**BLIND DUPLICATE 1_10/27/20**	EPA 351.2	184850	EPA 351.2	184859
70151125010	**MW-05B_10/27/2020**	EPA 351.2	184850	EPA 351.2	184859
70151125012	**MW-08B_10/27/2020**	EPA 351.2	184850	EPA 351.2	184859
70151125014	**MW-08A_10/27/2020**	EPA 351.2	184850	EPA 351.2	184859
70151125017	**MW-06C_10/28/20**	EPA 351.2	184850	EPA 351.2	184859
70151125019	**MW-06F_10/28/20**	EPA 351.2	184850	EPA 351.2	184859
70151125021	**MW-06B_10/28/20**	EPA 351.2	184850	EPA 351.2	184859
70151125023	**MW-06E_10/28/20**	EPA 351.2	184850	EPA 351.2	184859
70151125025	**MW-06A_10/28/20**	EPA 351.2	184850	EPA 351.2	184859
70151125027	**FIELD BLANK**	EPA 351.2	184850	EPA 351.2	184859
70151125030	**LF-2_10/29/20**	EPA 351.2	184850	EPA 351.2	184859

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70151125032	**LF-1_10/29/20**	EPA 351.2	184850	EPA 351.2	184859
70151125002	**OBS-1_10/27/2020**	EPA 353.2	183199		
70151125004	**MW-09B_10/27/2020**	EPA 353.2	183199		
70151125006	**MW-09C_10/27/2020**	EPA 353.2	183199		
70151125008	**BLIND DUPLICATE 1_10/27/20**	EPA 353.2	183199		
70151125010	**MW-05B_10/27/2020**	EPA 353.2	183199		
70151125012	**MW-08B_10/27/2020**	EPA 353.2	183199		
70151125014	**MW-08A_10/27/2020**	EPA 353.2	183199		
70151125017	**MW-06C_10/28/20**	EPA 353.2	183440		
70151125019	**MW-06F_10/28/20**	EPA 353.2	183440		
70151125021	**MW-06B_10/28/20**	EPA 353.2	183440		
70151125023	**MW-06E_10/28/20**	EPA 353.2	183440		
70151125025	**MW-06A_10/28/20**	EPA 353.2	183440		
70151125027	**FIELD BLANK**	EPA 353.2	183440		
70151125030	**LF-2_10/29/20**	EPA 353.2	183636		
70151125032	**LF-1_10/29/20**	EPA 353.2	183636		
70151125002	**OBS-1_10/27/2020**	EPA 353.2	183192		
70151125004	**MW-09B_10/27/2020**	EPA 353.2	183192		
70151125006	**MW-09C_10/27/2020**	EPA 353.2	183192		
70151125008	**BLIND DUPLICATE 1_10/27/20**	EPA 353.2	183192		
70151125010	**MW-05B_10/27/2020**	EPA 353.2	183192		
70151125012	**MW-08B_10/27/2020**	EPA 353.2	183192		
70151125014	**MW-08A_10/27/2020**	EPA 353.2	183192		
70151125017	**MW-06C_10/28/20**	EPA 353.2	183433		
70151125019	**MW-06F_10/28/20**	EPA 353.2	183433		
70151125021	**MW-06B_10/28/20**	EPA 353.2	183433		
70151125023	**MW-06E_10/28/20**	EPA 353.2	183433		
70151125025	**MW-06A_10/28/20**	EPA 353.2	183433		
70151125027	**FIELD BLANK**	EPA 353.2	183433		
70151125030	**LF-2_10/29/20**	EPA 353.2	183633		
70151125032	**LF-1_10/29/20**	EPA 353.2	183633		
70151125002	**OBS-1_10/27/2020**	EPA 420.1	185250	EPA 420.1	185293
70151125004	**MW-09B_10/27/2020**	EPA 420.1	185250	EPA 420.1	185293
70151125006	**MW-09C_10/27/2020**	EPA 420.1	185250	EPA 420.1	185293
70151125008	**BLIND DUPLICATE 1_10/27/20**	EPA 420.1	185250	EPA 420.1	185293
70151125010	**MW-05B_10/27/2020**	EPA 420.1	185250	EPA 420.1	185293
70151125012	**MW-08B_10/27/2020**	EPA 420.1	185250	EPA 420.1	185293
70151125014	**MW-08A_10/27/2020**	EPA 420.1	185250	EPA 420.1	185293
70151125017	**MW-06C_10/28/20**	EPA 420.1	185250	EPA 420.1	185293
70151125019	**MW-06F_10/28/20**	EPA 420.1	185250	EPA 420.1	185293
70151125021	**MW-06B_10/28/20**	EPA 420.1	185250	EPA 420.1	185293
70151125023	**MW-06E_10/28/20**	EPA 420.1	185250	EPA 420.1	185293
70151125025	**MW-06A_10/28/20**	EPA 420.1	185250	EPA 420.1	185293
70151125027	**FIELD BLANK**	EPA 420.1	185250	EPA 420.1	185293
70151125030	**LF-2_10/29/20**	EPA 420.1	185250	EPA 420.1	185293

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70151125032	LF-1_10/29/20	EPA 420.1	185250	EPA 420.1	185293
70151125002	OBS-1_10/27/2020	SM20/22 4500-CN-C	185070	SM22 4500-CN-E	185157
70151125004	MW-09B_10/27/2020	SM20/22 4500-CN-C	185070	SM22 4500-CN-E	185157
70151125006	MW-09C_10/27/2020	SM20/22 4500-CN-C	185070	SM22 4500-CN-E	185157
70151125008	BLIND DUPLICATE 1_10/27/20	SM20/22 4500-CN-C	185070	SM22 4500-CN-E	185157
70151125010	MW-05B_10/27/2020	SM20/22 4500-CN-C	185070	SM22 4500-CN-E	185157
70151125012	MW-08B_10/27/2020	SM20/22 4500-CN-C	185070	SM22 4500-CN-E	185157
70151125014	MW-08A_10/27/2020	SM20/22 4500-CN-C	185070	SM22 4500-CN-E	185157
70151125017	MW-06C_10/28/20	SM20/22 4500-CN-C	185264	SM22 4500-CN-E	185364
70151125019	MW-06F_10/28/20	SM20/22 4500-CN-C	185264	SM22 4500-CN-E	185364
70151125021	MW-06B_10/28/20	SM20/22 4500-CN-C	185264	SM22 4500-CN-E	185364
70151125023	MW-06E_10/28/20	SM20/22 4500-CN-C	185264	SM22 4500-CN-E	185364
70151125025	MW-06A_10/28/20	SM20/22 4500-CN-C	185264	SM22 4500-CN-E	185364
70151125027	FIELD BLANK	SM20/22 4500-CN-C	185264	SM22 4500-CN-E	185364
70151125030	LF-2_10/29/20	SM20/22 4500-CN-C	185264	SM22 4500-CN-E	185364
70151125032	LF-1_10/29/20	SM20/22 4500-CN-C	185264	SM22 4500-CN-E	185364
70151125002	OBS-1_10/27/2020	SM22 4500-Cl-E	184944		
70151125004	MW-09B_10/27/2020	SM22 4500-Cl-E	184944		
70151125006	MW-09C_10/27/2020	SM22 4500-Cl-E	184944		
70151125008	BLIND DUPLICATE 1_10/27/20	SM22 4500-Cl-E	184944		
70151125010	MW-05B_10/27/2020	SM22 4500-Cl-E	184944		
70151125012	MW-08B_10/27/2020	SM22 4500-Cl-E	184944		
70151125014	MW-08A_10/27/2020	SM22 4500-Cl-E	184944		
70151125017	MW-06C_10/28/20	SM22 4500-Cl-E	184944		
70151125019	MW-06F_10/28/20	SM22 4500-Cl-E	184944		
70151125021	MW-06B_10/28/20	SM22 4500-Cl-E	184944		
70151125023	MW-06E_10/28/20	SM22 4500-Cl-E	184944		
70151125025	MW-06A_10/28/20	SM22 4500-Cl-E	184944		
70151125027	FIELD BLANK	SM22 4500-Cl-E	184944		
70151125030	LF-2_10/29/20	SM22 4500-Cl-E	184944		
70151125032	LF-1_10/29/20	SM22 4500-Cl-E	184944		
70151125002	OBS-1_10/27/2020	SM22 4500 NH3 H	184899		
70151125004	MW-09B_10/27/2020	SM22 4500 NH3 H	184899		
70151125006	MW-09C_10/27/2020	SM22 4500 NH3 H	184899		
70151125008	BLIND DUPLICATE 1_10/27/20	SM22 4500 NH3 H	184899		
70151125010	MW-05B_10/27/2020	SM22 4500 NH3 H	184899		
70151125012	MW-08B_10/27/2020	SM22 4500 NH3 H	184899		
70151125014	MW-08A_10/27/2020	SM22 4500 NH3 H	184899		
70151125017	MW-06C_10/28/20	SM22 4500 NH3 H	184899		
70151125019	MW-06F_10/28/20	SM22 4500 NH3 H	184899		
70151125021	MW-06B_10/28/20	SM22 4500 NH3 H	185085		
70151125023	MW-06E_10/28/20	SM22 4500 NH3 H	184899		
70151125025	MW-06A_10/28/20	SM22 4500 NH3 H	184899		
70151125027	FIELD BLANK	SM22 4500 NH3 H	184899		
70151125030	LF-2_10/29/20	SM22 4500 NH3 H	184899		
70151125032	LF-1_10/29/20	SM22 4500 NH3 H	184899		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE LANDFILL 10/27
Pace Project No.: 70151125

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch

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CHAIN-OF-CUSTODY / Analytical Request D

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

WO# : 70151125

70151125

Section A
Required Client Information:

Company:	Town of Oyster Bay
Address:	150 Miller Place
	Sycsset, NY 11791
Email:	mrusso@tobays.net / K.Robins@dvirka.com
Phone:	NONE
Fax:	
Requested Due Date:	Standard

Section B
Required Project Information:

Report To:	Russo, Matt
Copy To:	Keith Robins
Purchase Order #:	
Project Name:	Old Bethpage Landfill
Project #:	3617 - Second Semiannual 2020

Section C
Invoice Information:

Attention:	Matt Russo
Company Name:	Town of Oyster Bay
Address:	150 Miller Place, Syosset, NY 11791
Pace Quote:	
Pace Project Manager:	nicolette.lovari@pacelabs.com,
Pace Profile #:	6466

Regulatory Agency	
State / Location	NY

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

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (Field Filter)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)
1	Trip Blank - 10/27/2020	[illegible]	-	10/27/20	-	10/27/20	-	X	2	X	X	X	2	X	X	X	X		✓	-	-	-	-	-	-	-	N
2	OBS-1 - 10/27/2020	WT	G	10/27/20	8:50	10/27/20	—	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N
3	MW-09B - 10/27/2020	WT	G	10/27/20	11:00 am	10/27/20	—	X	9	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N
4	MW-09C - 10/27/2020	WT	G	10/27/20	12:20 pm	10/27/20	—	X	9	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N
5	Blind Duplicate 1 - 10/27/2020	WT	G	10/27/20	0000	10/27/20	—	X	9	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N
6	MW-05B - 10/27/2020	WT	G	10/27/20	1:00 pm	10/27/20	—	X	9	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N
7	MW-08B - 10/27/2020	WT	G	10/27/20	2:55 pm	10/27/20	—	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N
8	MW-08A - 10/27/2020	WT	G	10/27/20	4:05 pm	10/27/20	—	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill — Filtered in Field denoted with "F" for dissolved metals and CR+6. Provide CAT A Deliverables and EQuIS. Send electronic lab data to dvirka.com	Keith Robins / D&B Engineers	10/27/2020		[signature] / PACE	10/27/20	16:51	0.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith Robins

SIGNATURE of SAMPLER: Keith Robins

DATE Signed: 10/27/2020

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

Pace Analytical

Sample Condition Upon Receipt

WO#: 70151125
PM: NML **Due Date: 11/11/20**
CLIENT: TOY

Client Name: TOY

Project

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

Tracking #:

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

Temperature Blank Present: ☐ Yes ☑ No

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

Type of Ice: (Wet) Blue None

Thermometer Used: TH091 Correction Factor: -0.2

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 0.5 Cooler Temperature Corrected (°C): 0.3

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Date and Initials of person examining contents: 10/27/20 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 (internationally, 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 MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix SL (WT) OIL	☑Yes	☐No		12.
All containers needing preservation have been checked pH paper Lot # HC998032	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☑Yes	☐No	☐N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☑Yes	☐No	☐N/A	16.
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.

WO#: 70151125
PM: NML Due Date: 11/11/20
CLIENT: TOY

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WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

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

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				Address:	150 Miller Place, Syosset, NY 11791
Email:	mrusso@tobays.net / k.robins@db-eng.com	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 - Second Semi-annual 2020	Pace Profile #:	6466

Regulatory Agency	State / Location
	NY

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	VOC by 8260	NH3,NO3,Phenols,TKN	Cyanide	Total Metals & Hardness	Dissolved Metals (field filter)	Dissolved Cr+6 (Field Filter)	Alk,Cl,SO4,CO3,Cr6,HCO3	No2,TDS	Residual Chlorine (Y/N)	
																			N	N	N	N	N	N	N	N		
1	Trip Blank - 10/28/20	AQ	-	10/28/20	—	10/28/20	—	X	2	X	X	X	2	X	X	X	X		✓	-	-	-	-	-	-	-	N	16
2	MW-06C_10/28/20	WT	G	10/28/20	1005	10/28/20	—	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N	17, 18
3	MW-06F_10/28/20	WT	G	10/28/20	1020	10/28/20	—	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N	19, 20
4	MW-06B_10/28/20	WT	G	10/28/20	1200	10/28/20	—	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N	21, 22
5	MW-06E_10/28/20	WT	G	10/28/20	1240	10/28/20	—	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N	23, 24
6	MW-06A -10/20	WT	G	10/28/20	2:00 pm	10/28/20	—	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N	25, 26
7	Field Blank - 10/20	WT	G	10/28/20	2:20 pm	10/28/20	—	X	8	2	1	2	2	1	X	X	X		✓	✓	✓	✓	✓	✓	✓	✓	N	27, 28
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Old Bethpage Landfill	Keith Robins / D&B Engineers	10/28/20	15:19	[signature] Pace I	10/28/20	15:19	4.3	Y	N	Y
Filtered in Field denoted										
with "F" for dissolved metals										
and CR(+6)										

Provide Category B and EQuis
Send data to data data @db-eng.com

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Keith Robins		
SIGNATURE of SAMPLER:	[signature]	DATE Signed:	10/28/20

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

Sample Condition Upon Receipt

Pace Analytical

WO#: 70151125
PM: NML Due Date: 11/11/20
CLIENT: TOY

Client Name: Project #

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

Tracking #:

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

Temperature Blank Present: ☐ Yes ☐ No

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

Type of Ice: (Wet) Blue None

Thermometer Used: TH091 Correction Factor: -0.2

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 4.3 Cooler Temperature Corrected (°C): 4.1 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample) Date and Initials of person examining contents: 10/26/20 HR

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 (internationally, 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 MS/MSD	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☐N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix SL WT OIL	☑Yes	☐No		12.
All containers needing preservation have been checked pH paper Lot # HC904495	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☑Yes	☐No	☐N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # 14-860 Residual chlorine strips Lot # HR 10/28	☑Yes	☐No	☐N/A	14. Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☑Yes	☐No	☐N/A	16.
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.

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CHAIN-OF-CUSTODY / Analytical Request Doc[ument]

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

WO#: 70151125
PM: NML Due Date: 11/11/20
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			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 #:	5617 Second Semi Annual 2020	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

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
1	Trip Blank-10/29/20	AG	-	10/29/20	-	10/29/	-	X	2	-	-	-	2	-	-	-	-
2	LF-2 -10/29/20	WT	G	10/29/20	0935	10/29/20	-	X	8	2	1	2	2	1	-	-	-
3	LF-1 -10/29/20	WT	G	10/29/20	1140	10/29/	-	X	8	2	1	2	2	1	-	-	-
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

Requested Analysis Filtered (Y/N)

ITEM #	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)	
Y/N		N	N	N	N	N	N	N	N		
1		✓	-	-	-	-	-	-	-	N	029
2		✓	✓	✓	✓	✓	✓	✓	✓	N	030/031
3		✓	✓	✓	✓	✓	✓	✓	✓	N	032/033
4											
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 Bottles diverted with (F), Field Filtered for Dissolved Metals and CR(+6) - Provide CATegory 'B' and EQuis deliverable	Keith Robins / D&B Engineers	10/29/2020	1313	[signature]	10/29/20	13:14	1.8	W	N	Y
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Send data to Lab data @ db-eng.com

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Keith Robins
SIGNATURE of SAMPLER: Keith Robins DATE Signed: 10/29/2020

Sample Condition Upon Receipt

Pace Analytical

WO# : 70151125

PM: NML **Due Date: 11/11/20**

CLIENT: TOY

Client Name: Town Oyster Bay **Proje**

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

Tracking #:

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

Temperature Blank Present: ☐ Yes ☑ No

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

Type of Ice: (Wet) Blue None

Thermometer Used: TH091 **Correction Factor:** -0.2

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 1.8 **Cooler Temperature Corrected (°C):** 1.6 **Date/Time 5035A kits placed in freezer**

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample) **Date and Initials of person examining contents:** 10/29/20 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 (internationally, 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 MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑Yes	☐No		12.
-Includes date/time/ID/Analysis 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 # HC998032				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☑Yes	☐No	☐N/A	Sample #
				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 #				
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

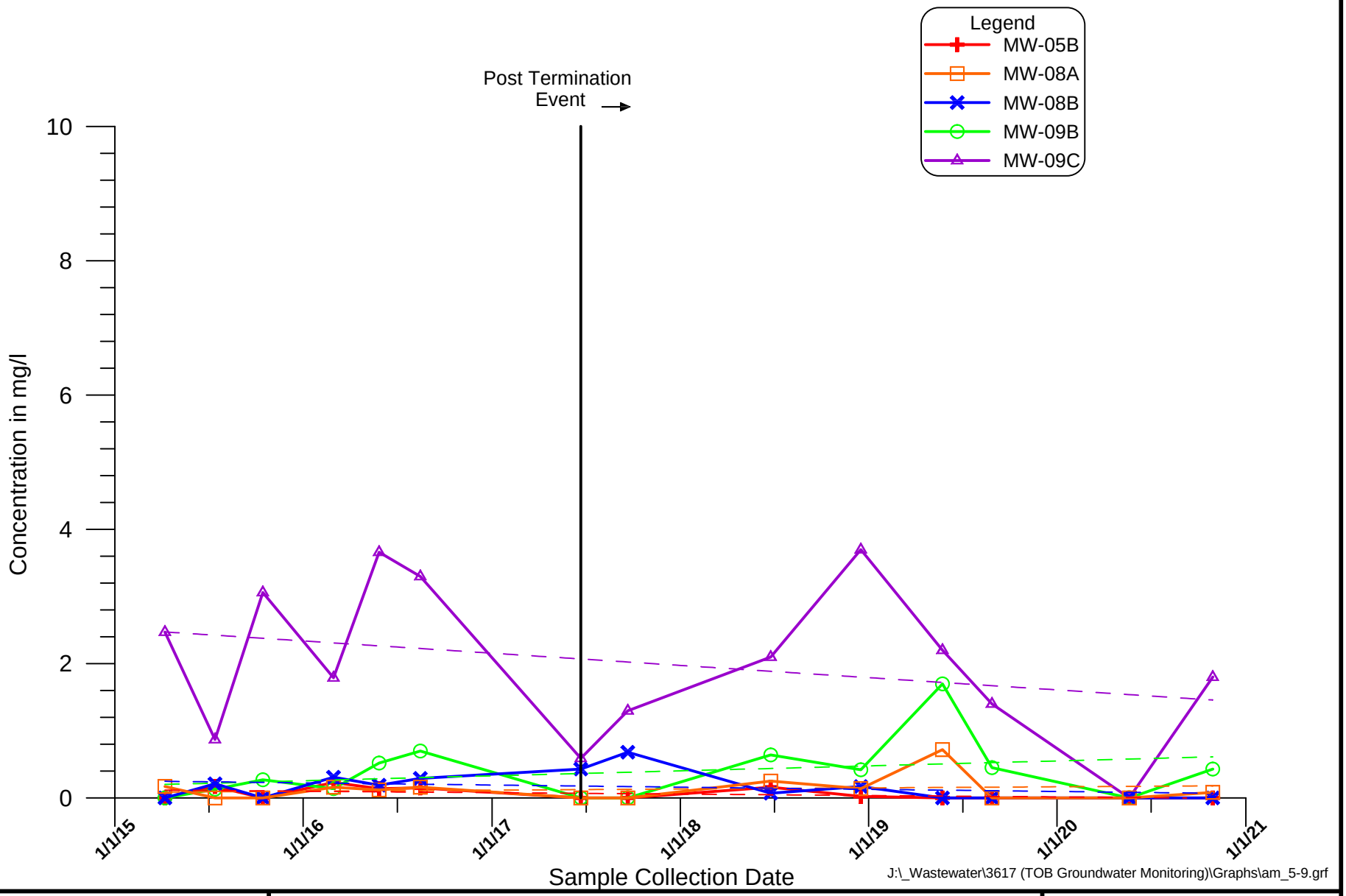
Person Contacted: Date/Time:

Comments/ Resolution:

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

APPENDIX E

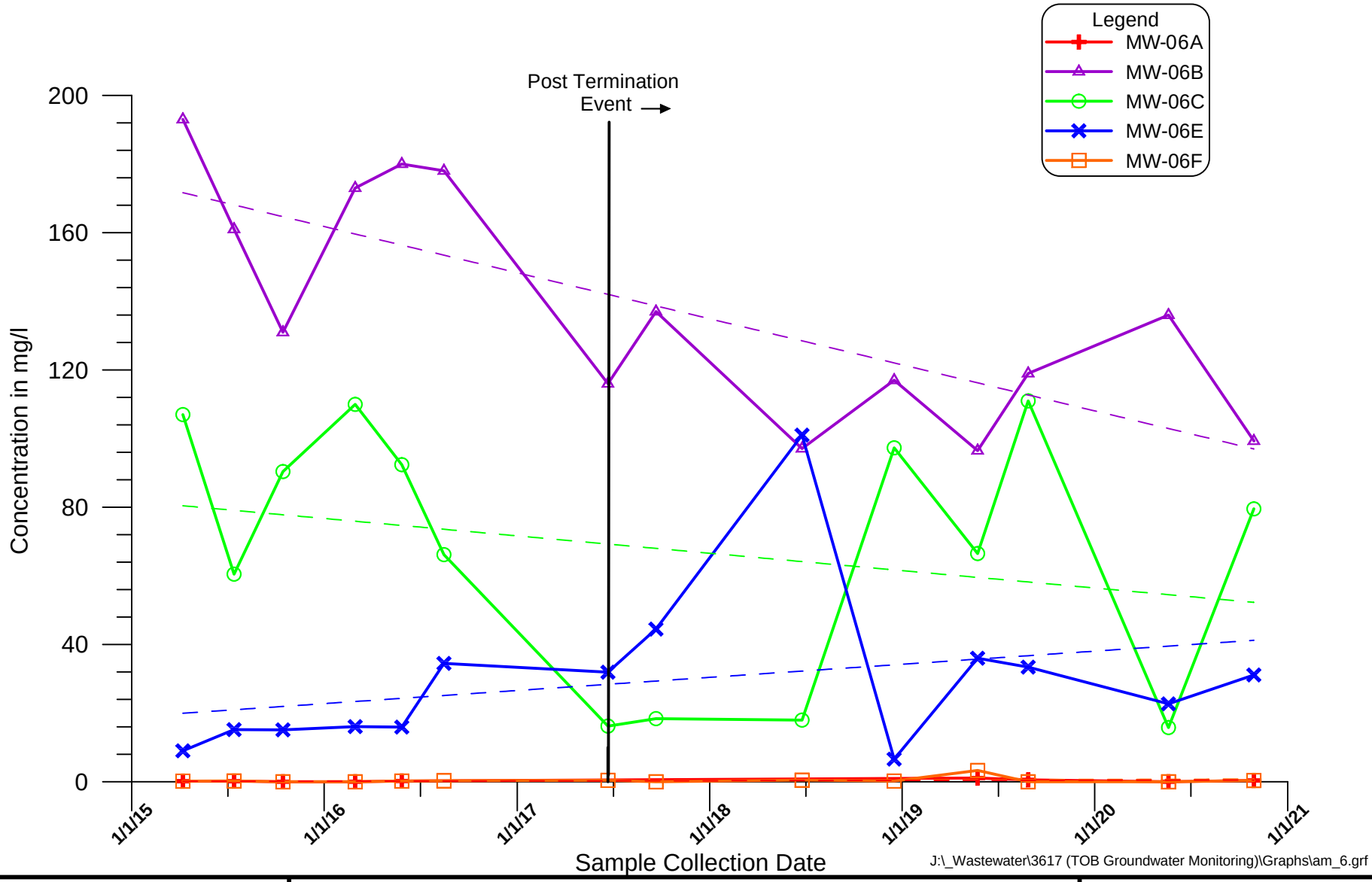
POST-TERMINATION HISTORICAL GROUNDWATER TREND GRAPHS



D&B Engineers and Architects, P.C.

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

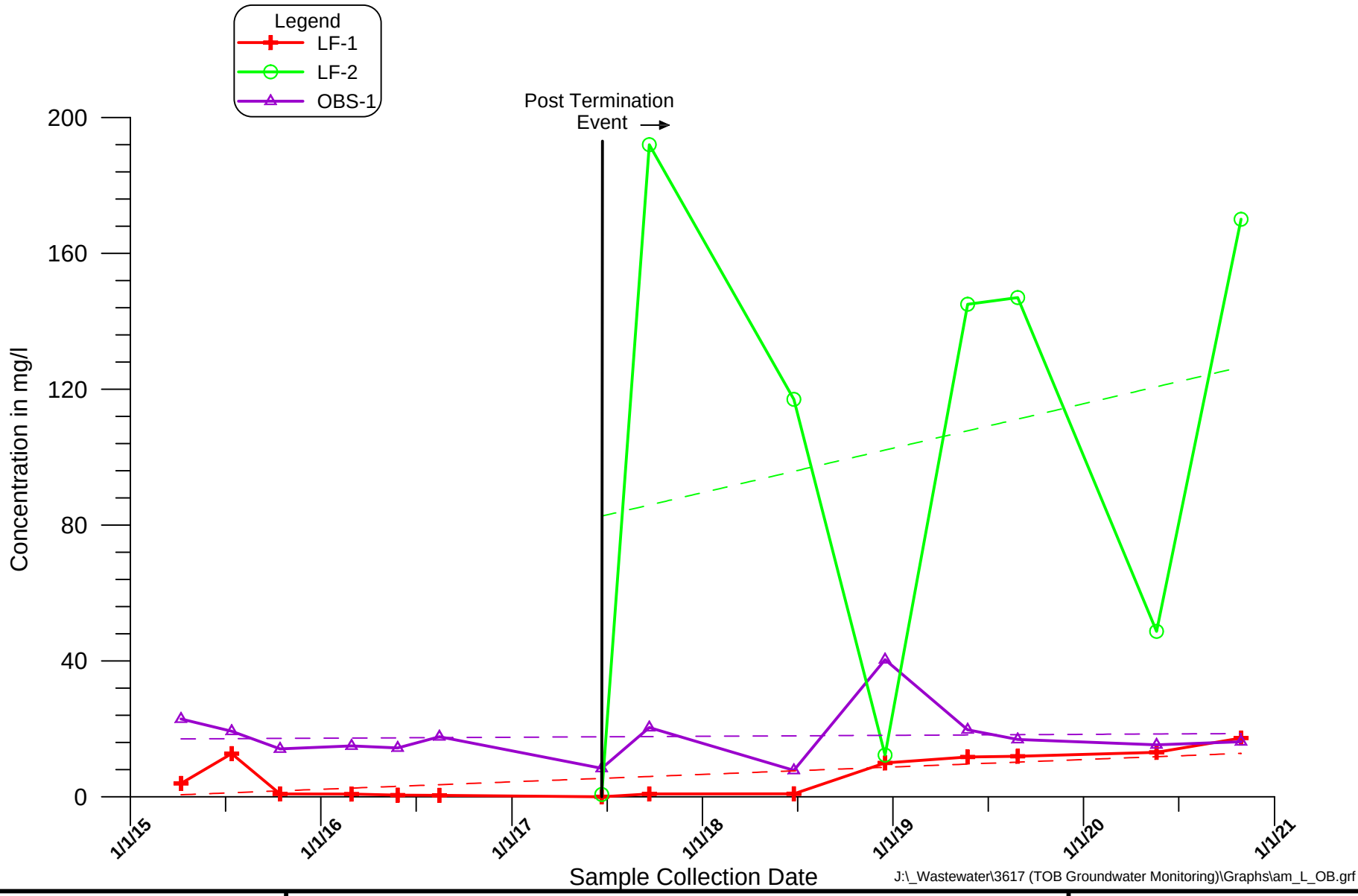
Figure
E



D&B Engineers and Architects, P.C.

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

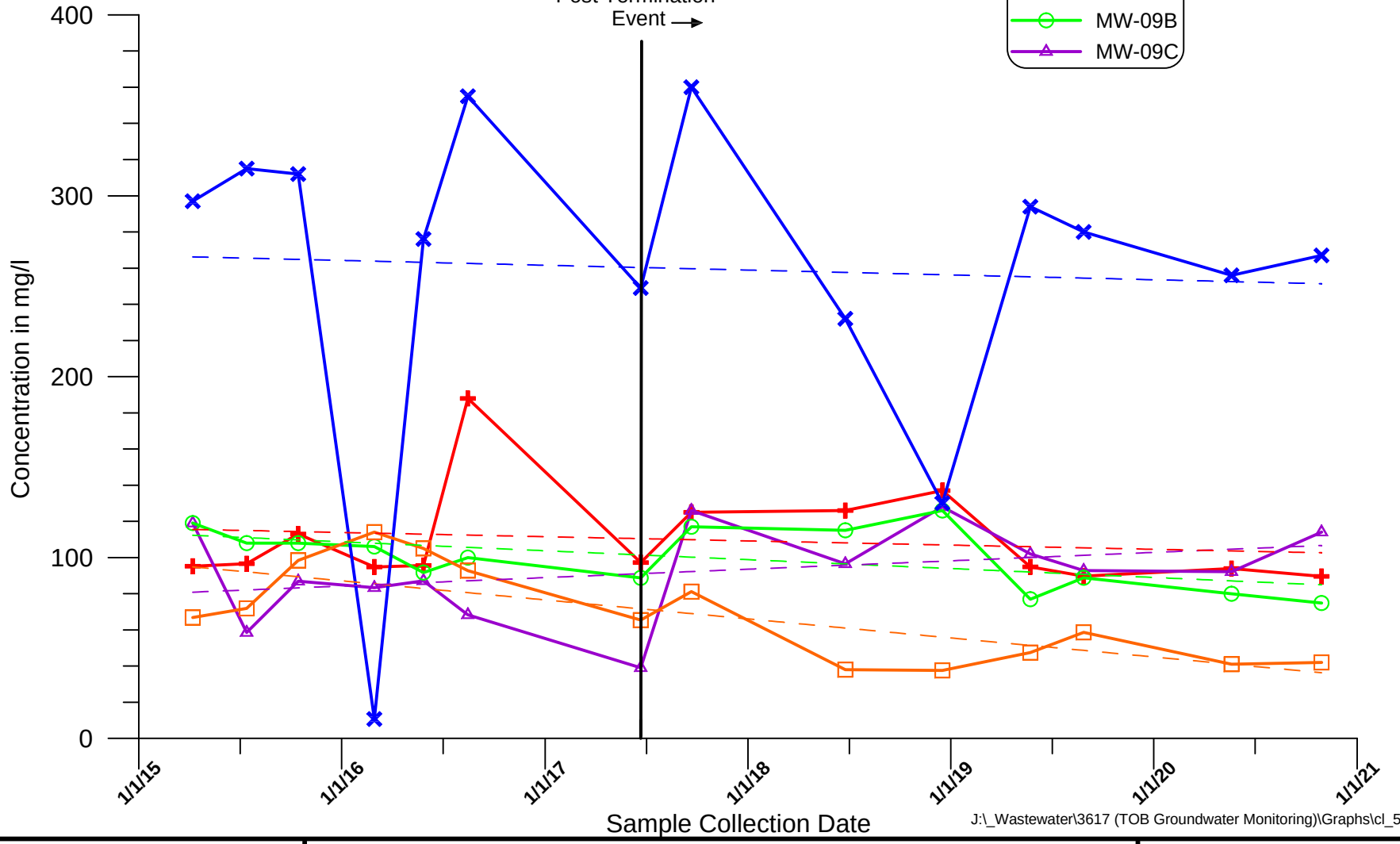
Figure
E



D&B ENGINEERS AND ARCHITECTS, P.C.

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

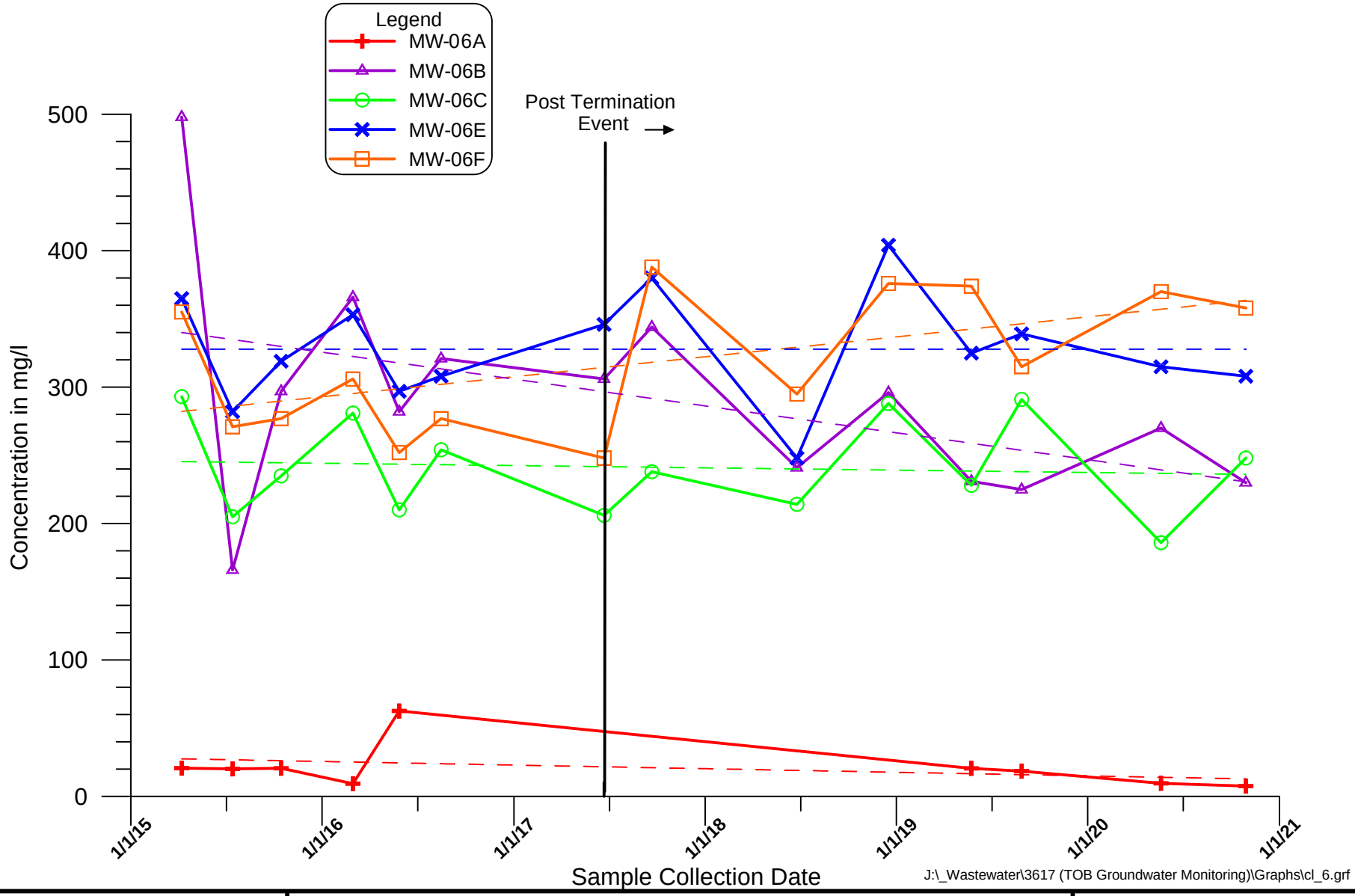
Figure
E



D&B ENGINEERS AND ARCHITECTS, P.C.

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

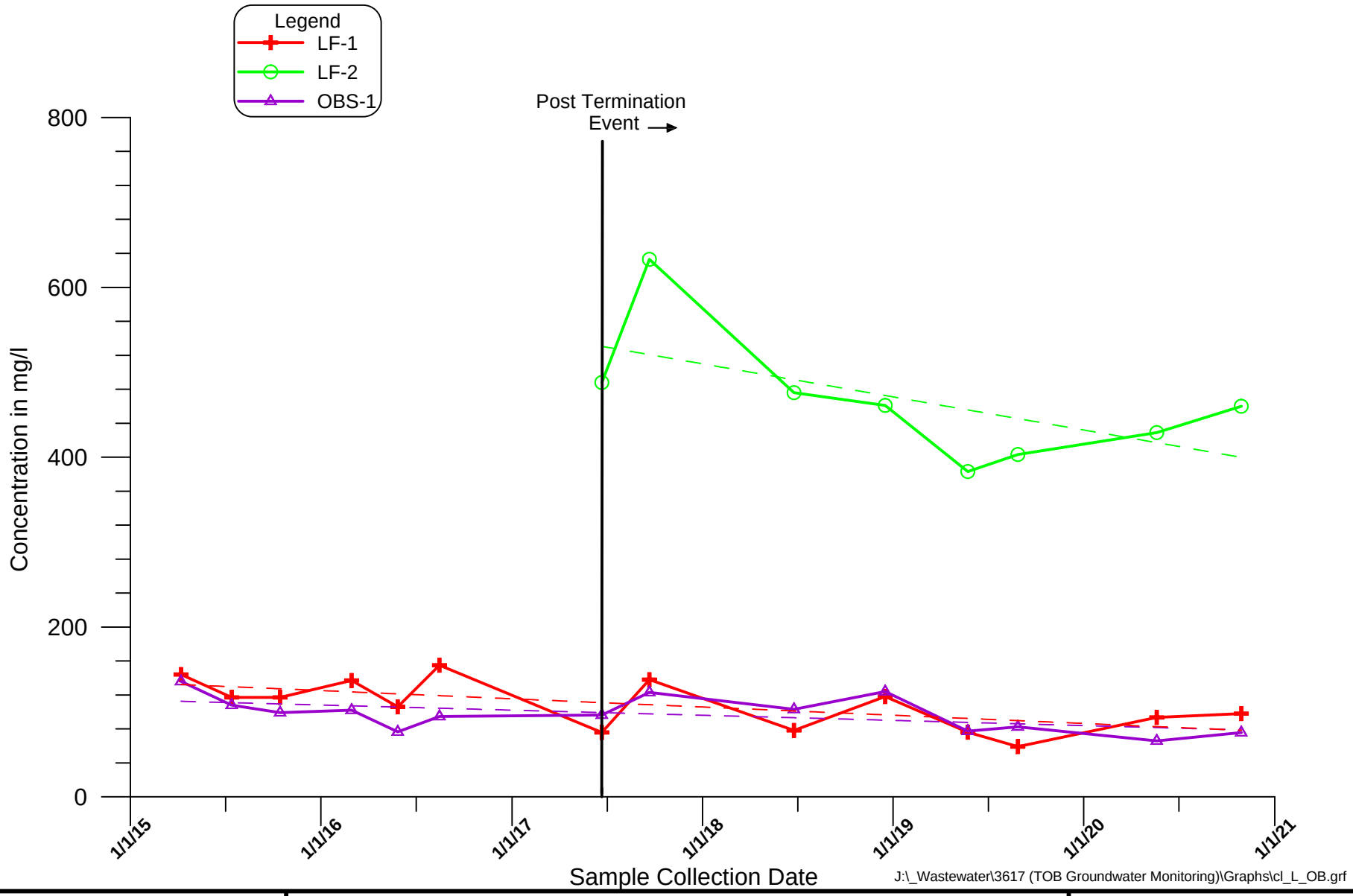
Figure
E



D&B ENGINEERS AND ARCHITECTS, P.C.

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

Figure
E



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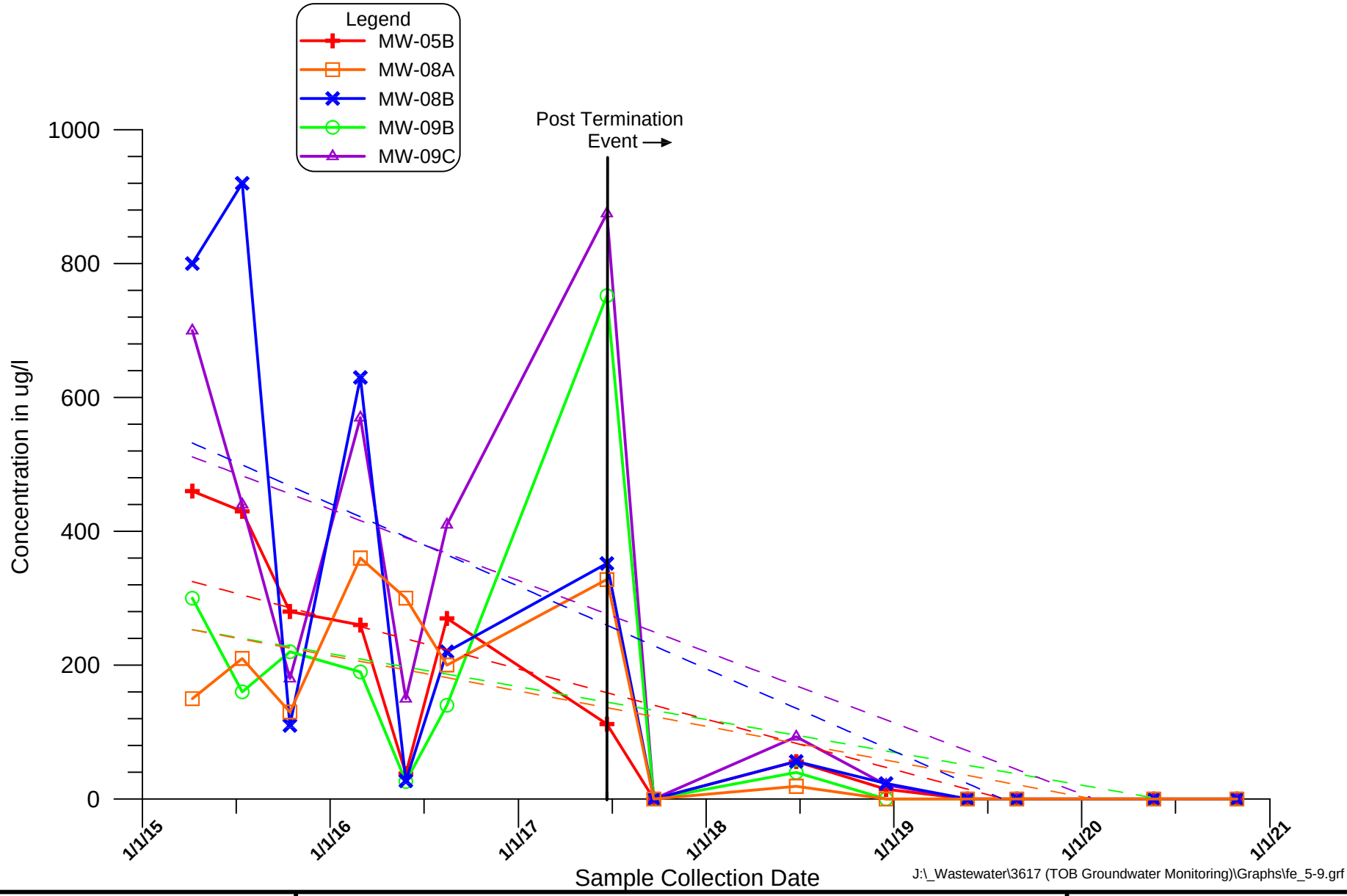
Town of Oyster Bay
Old Bethpage Landfill
Historical Chloride
Data for Wells LF-1, LF-2 & OBS-1

Figure
E



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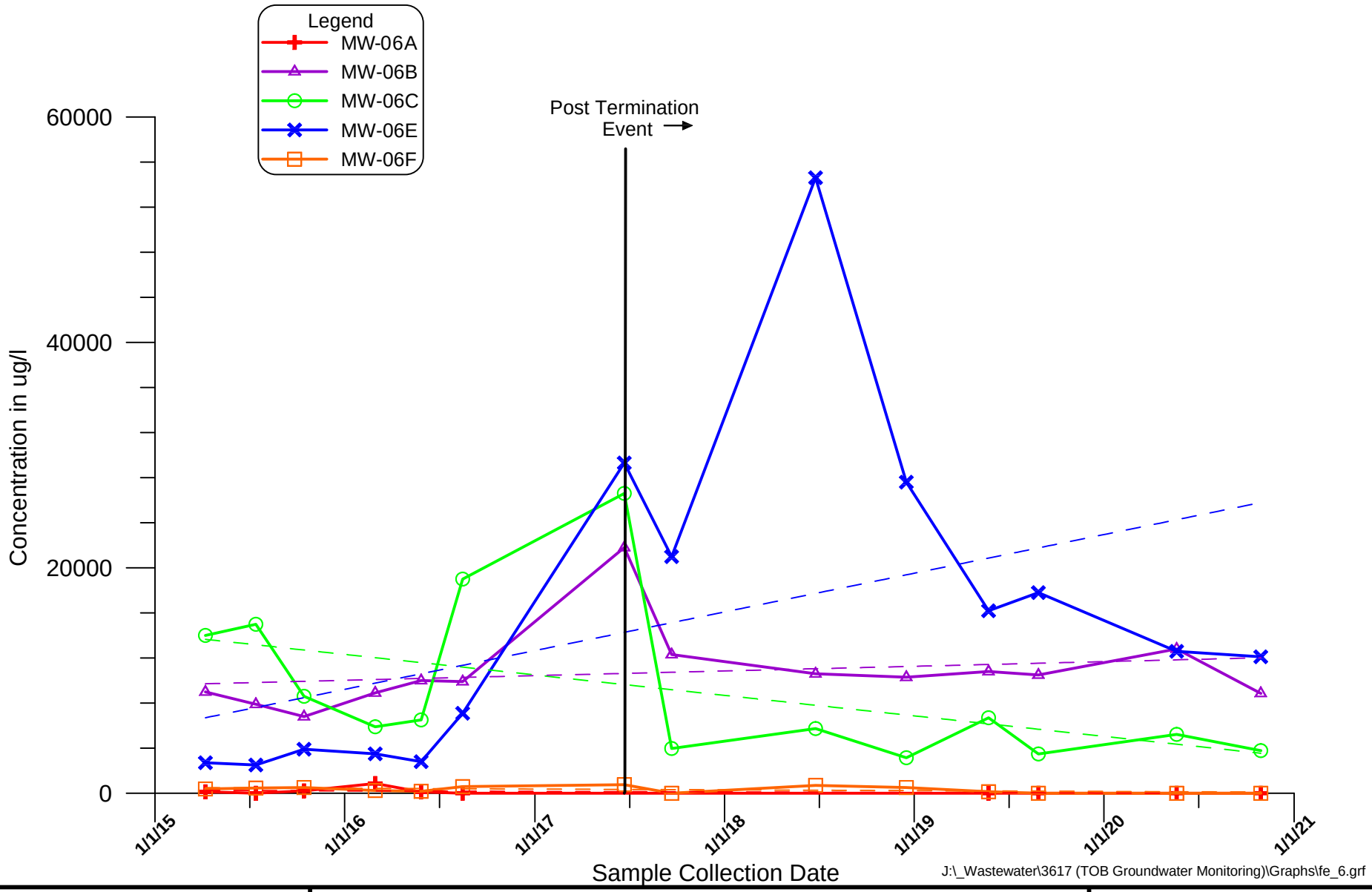
Town of Oyster Bay
Old Bethpage Landfill
Historical Iron
Data for Monitoring Wells 5, 8, & 9

Figure
E



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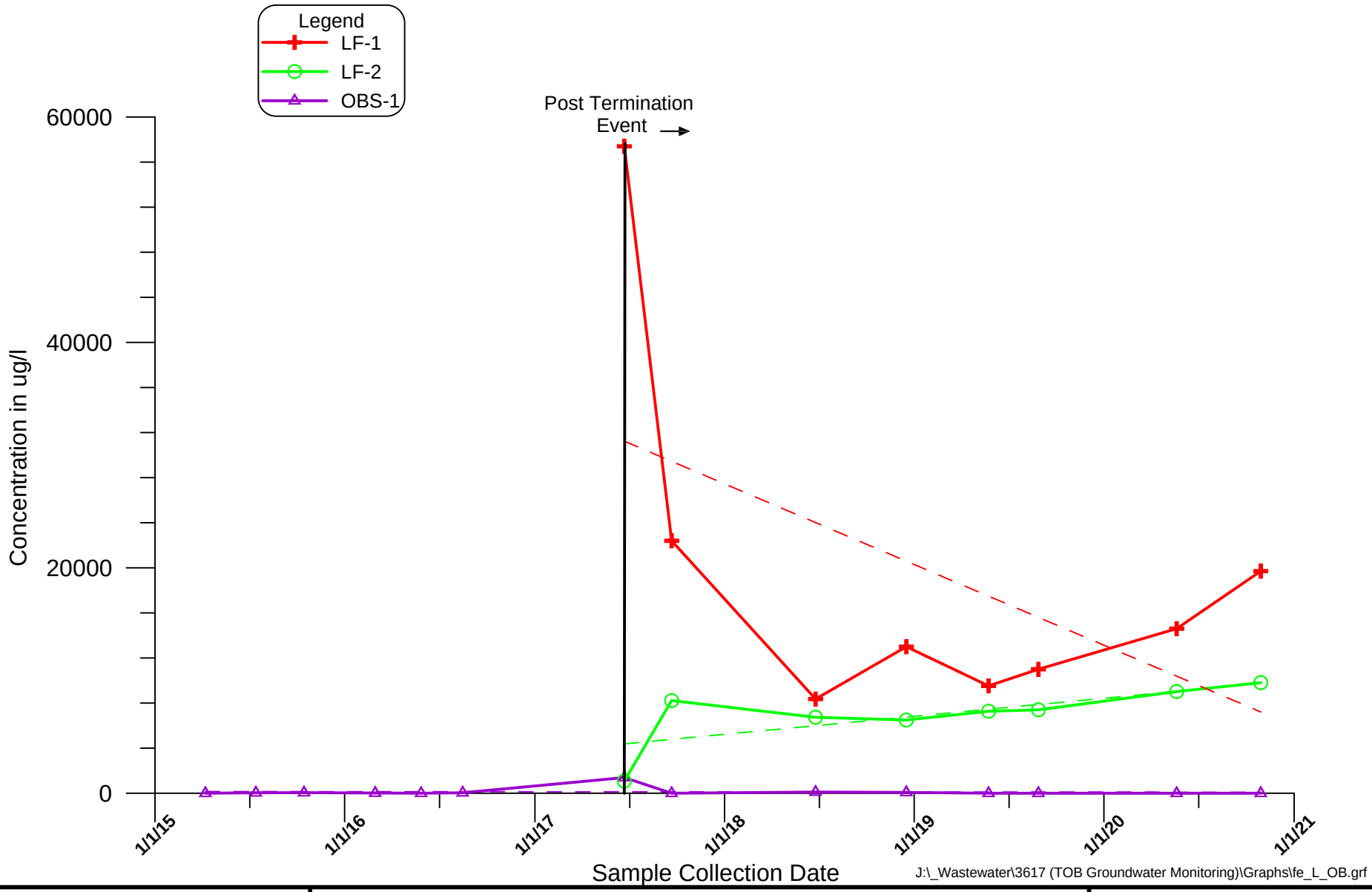
Town of Oyster Bay
Old Bethpage Landfill
Historical Iron
Data for Monitoring Well Cluster 6

Figure
E



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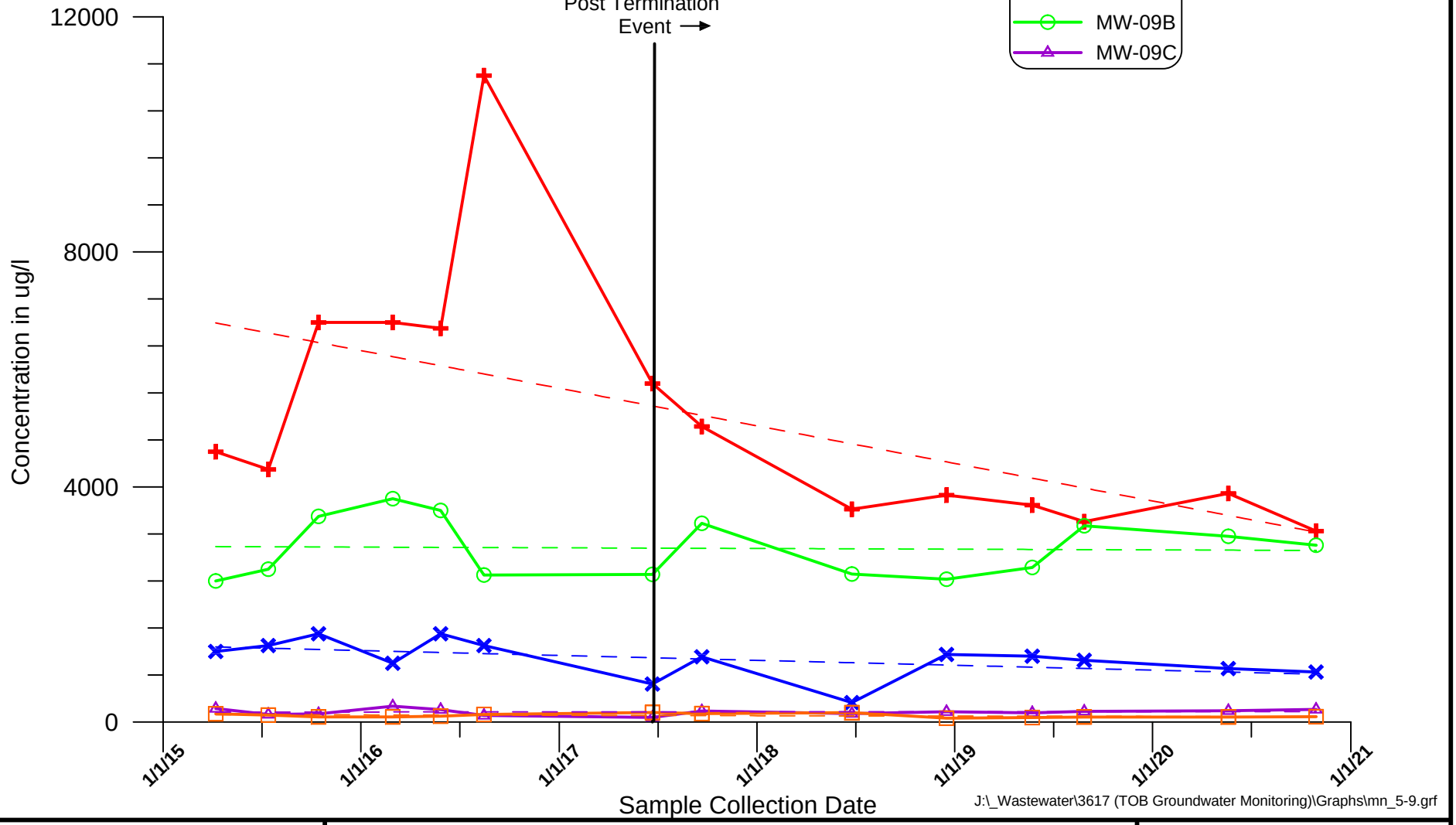
Town of Oyster Bay
Old Bethpage Landfill
Historical Iron
Data for Wells LF-1, LF-2 & OBS-1

Figure
E



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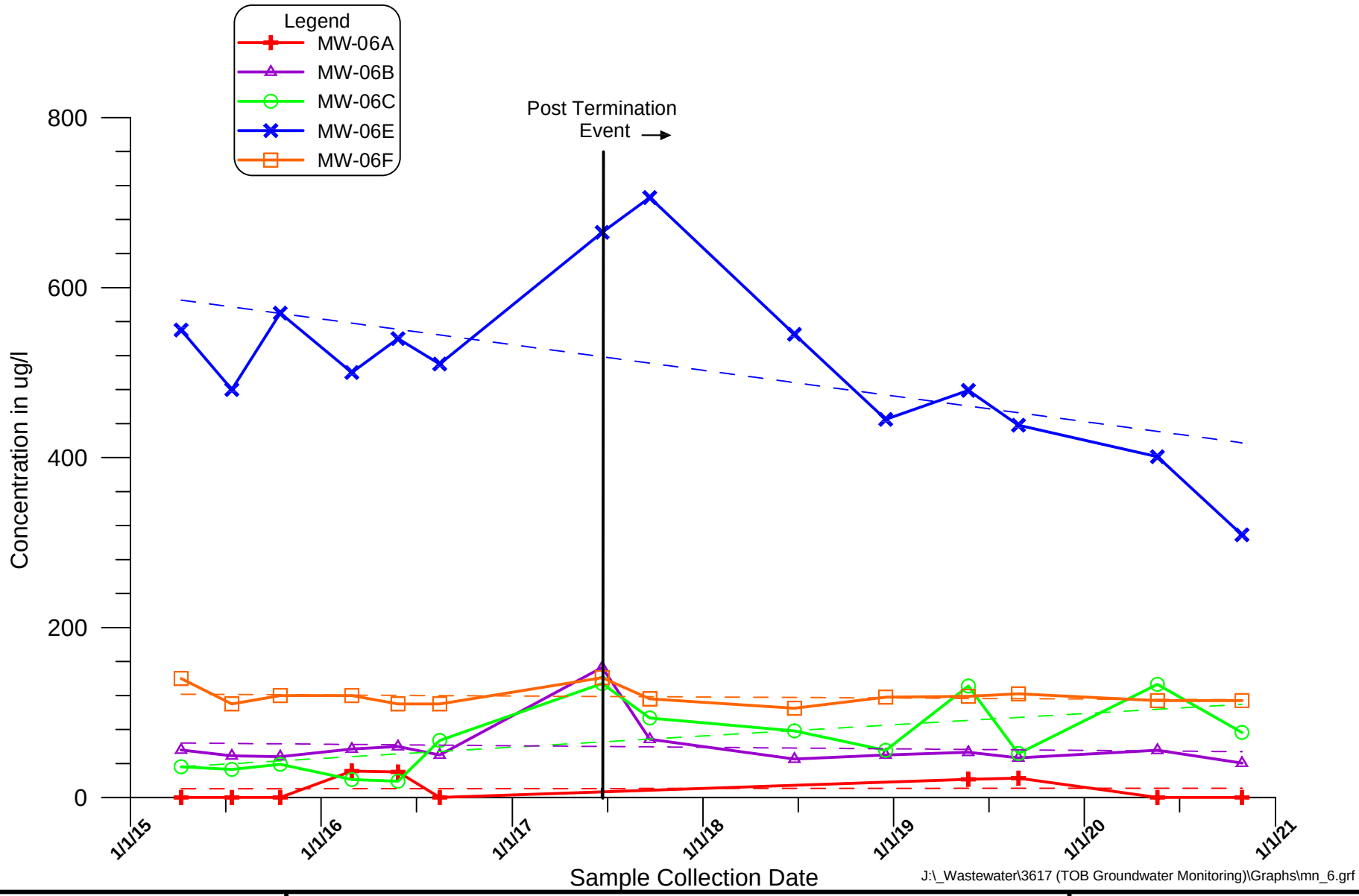
Town of Oyster Bay
Old Bethpage Landfill
Historical Manganese
Data for Monitoring Wells 5, 8, & 9

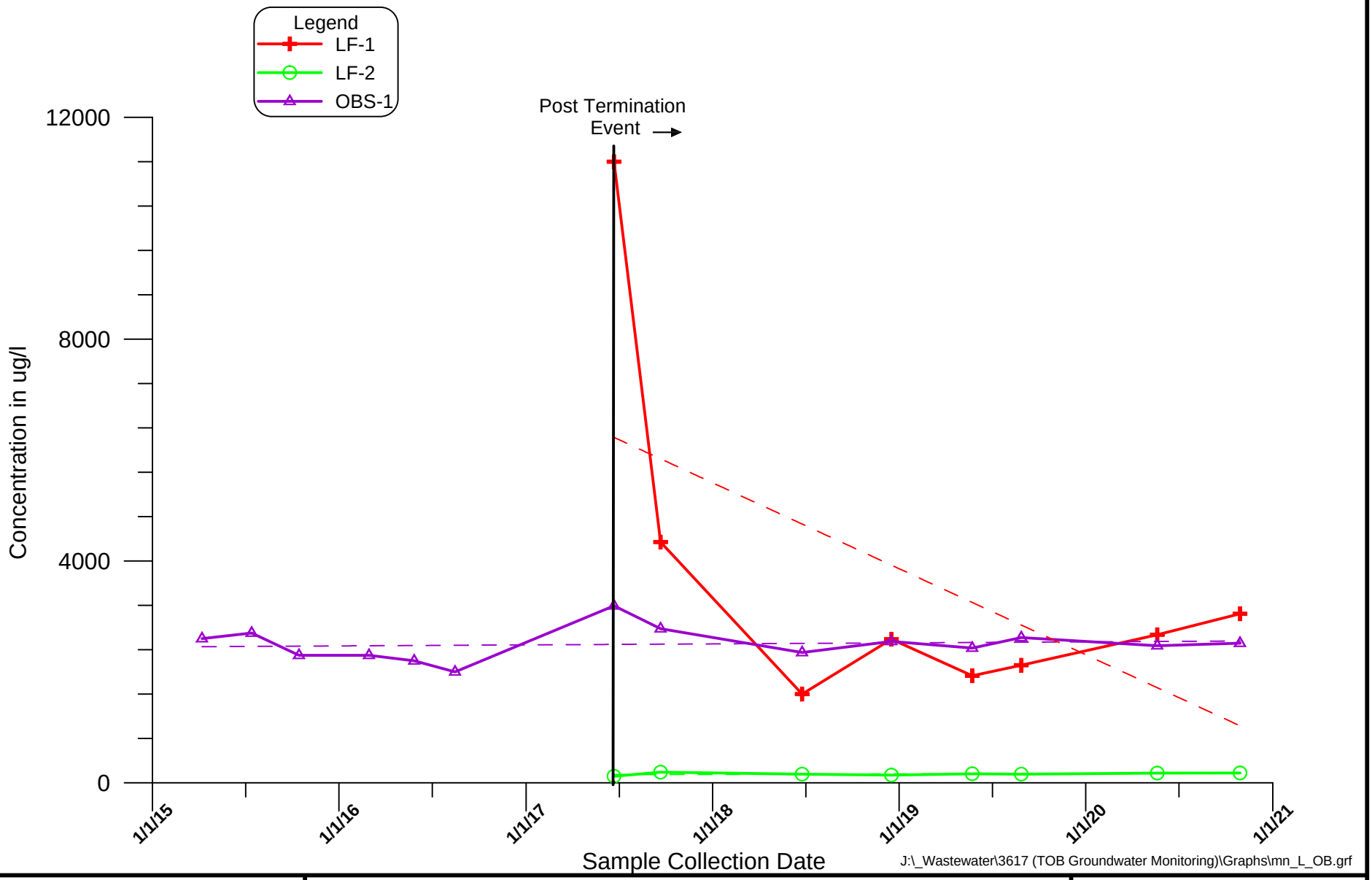
Figure
E



D&B Engineers and Architects, P.C.

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

Figure
E



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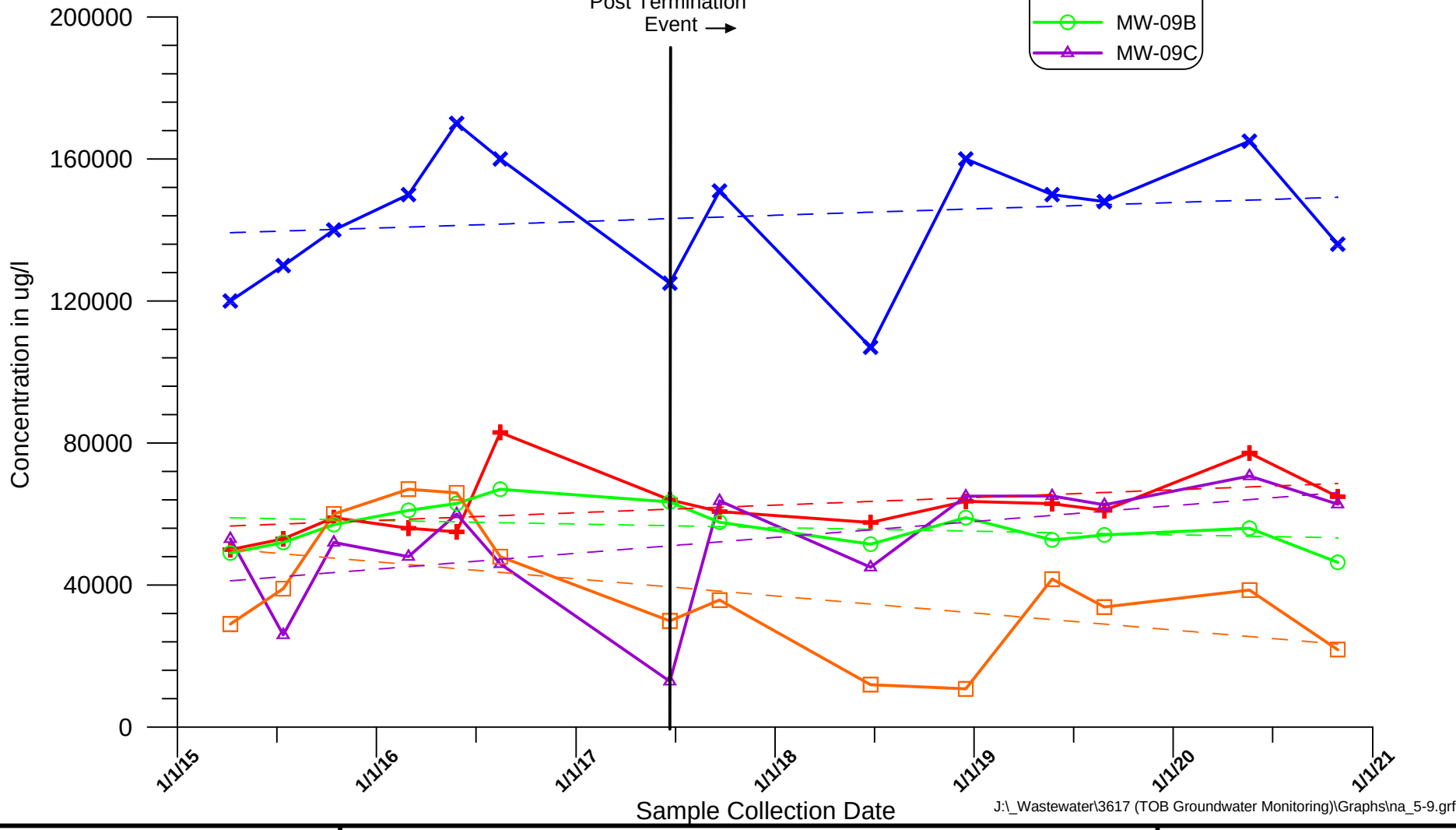
Town of Oyster Bay
Old Bethpage Landfill
Historical Manganese
Data for Wells LF-1, LF-2 & OBS-1

Figure
E



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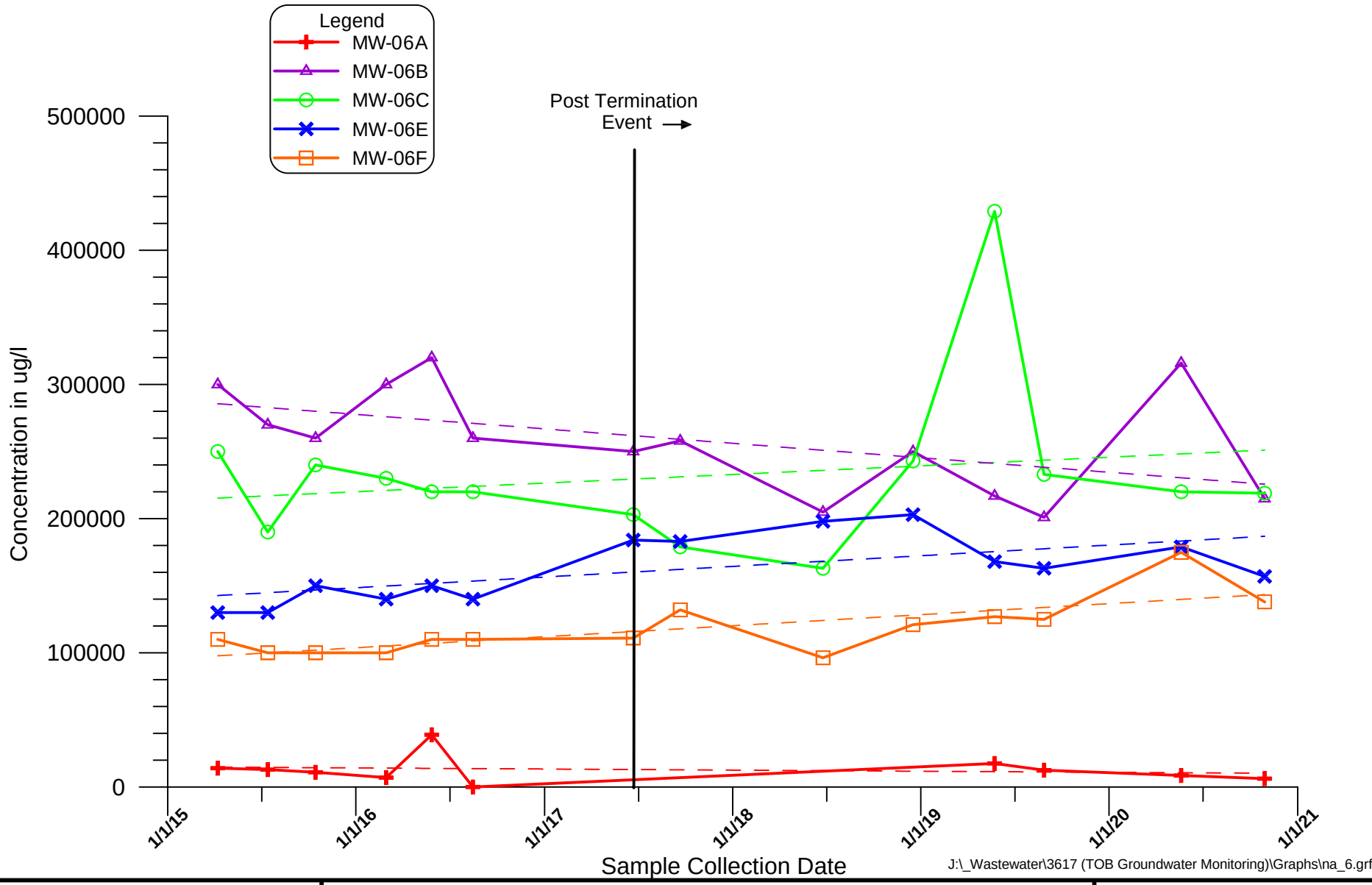
Town of Oyster Bay
Old Bethpage Landfill
Historical Sodium
Data for Monitoring Wells 5, 8, & 9

Figure
E



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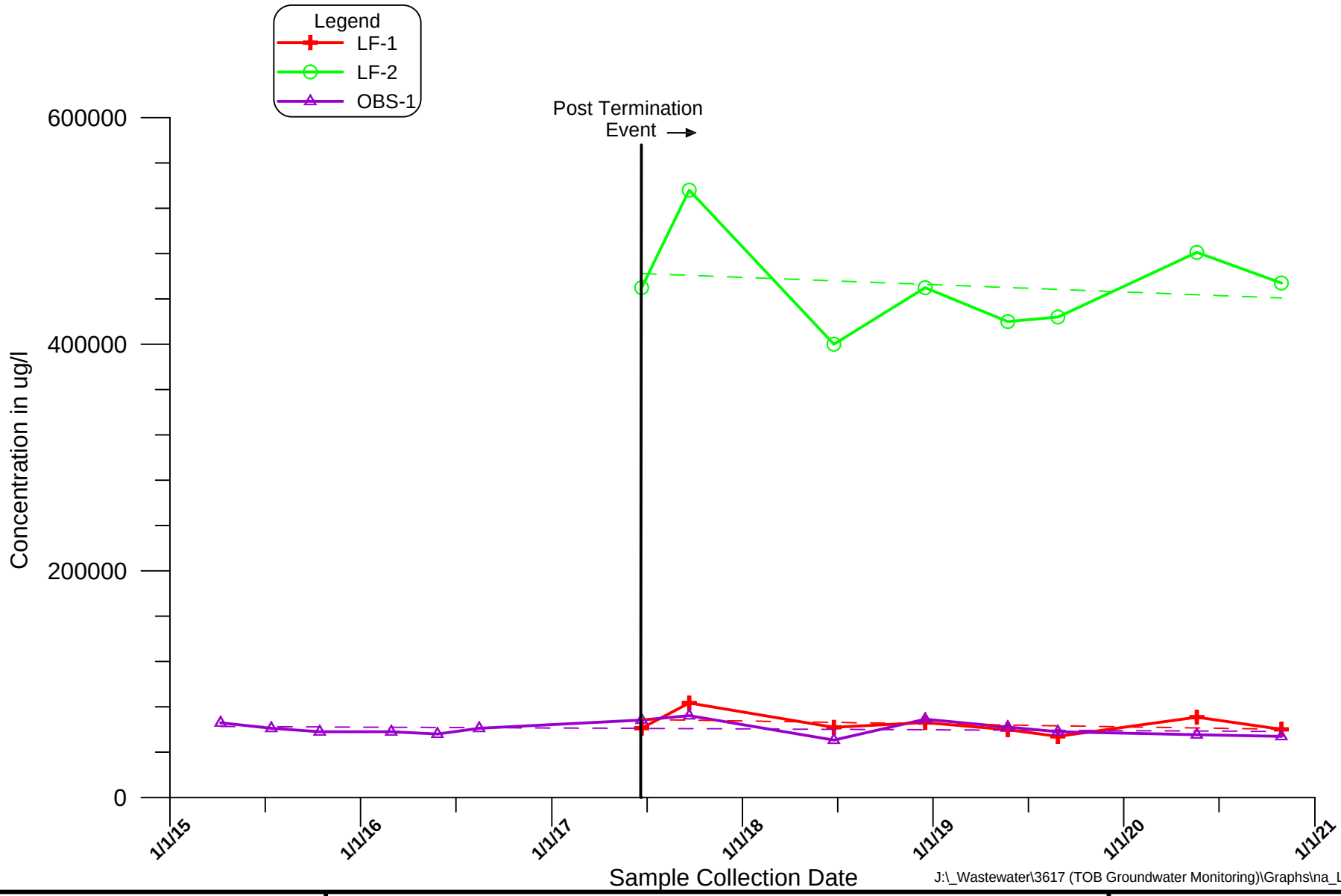
Town of Oyster Bay
Old Bethpage Landfill
Historical Sodium
Data for Monitoring Well Cluster 6

Figure
E



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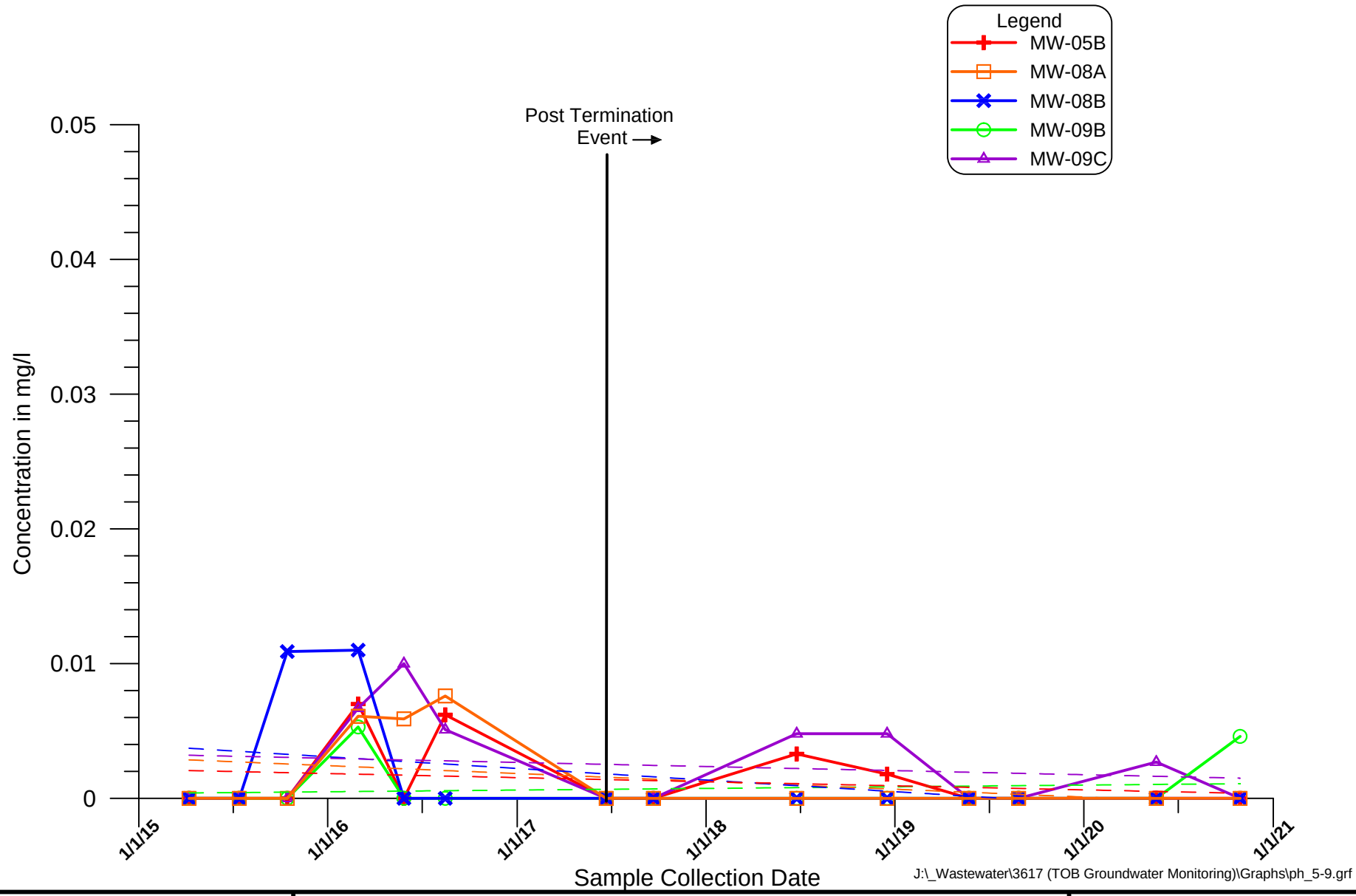
Town of Oyster Bay
Old Bethpage Landfill
Historical Sodium
Data for Wells LF-1, LF-2 & OBS-1

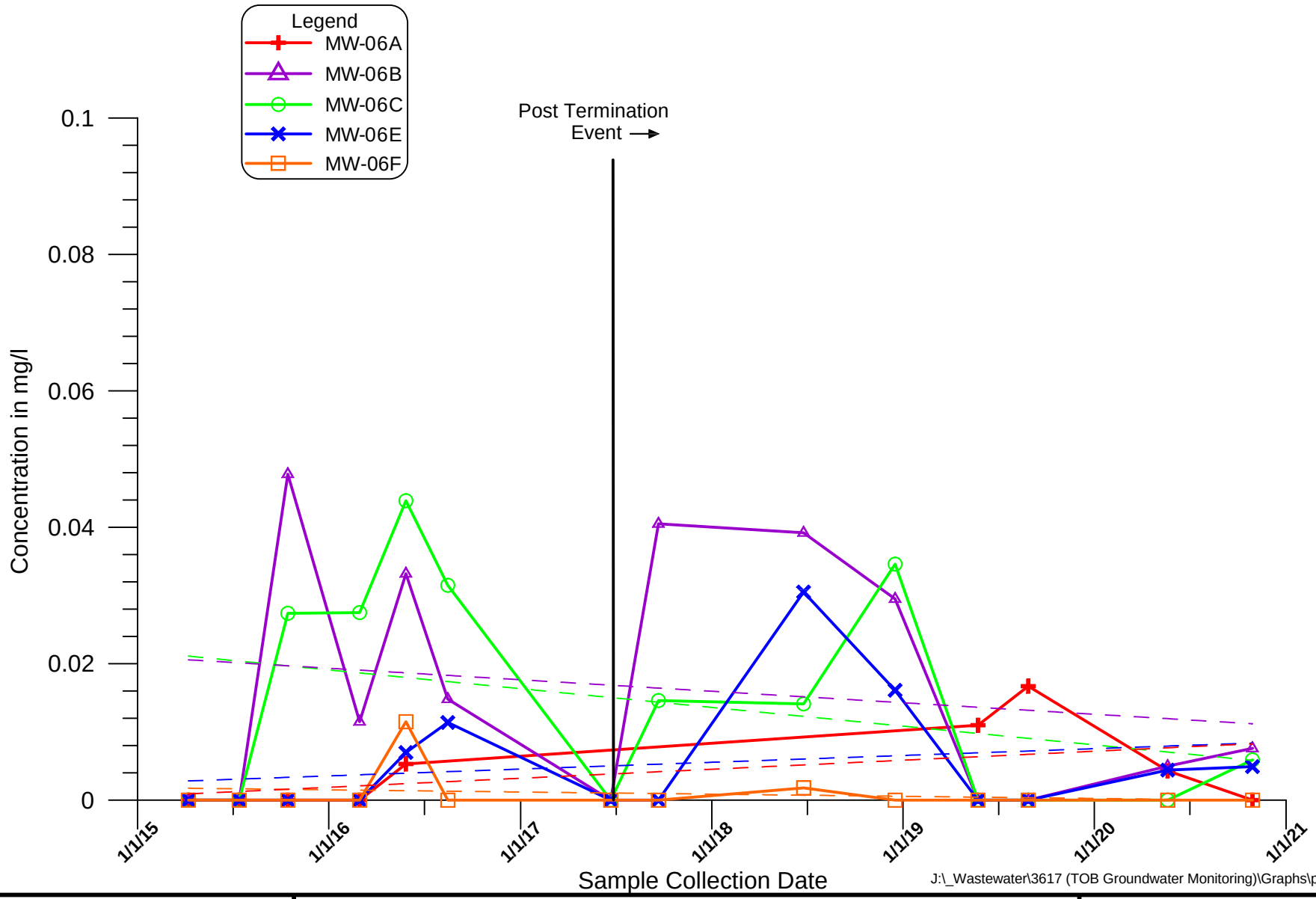
Figure
E



D&B ENGINEERS AND ARCHITECTS, P.C.

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

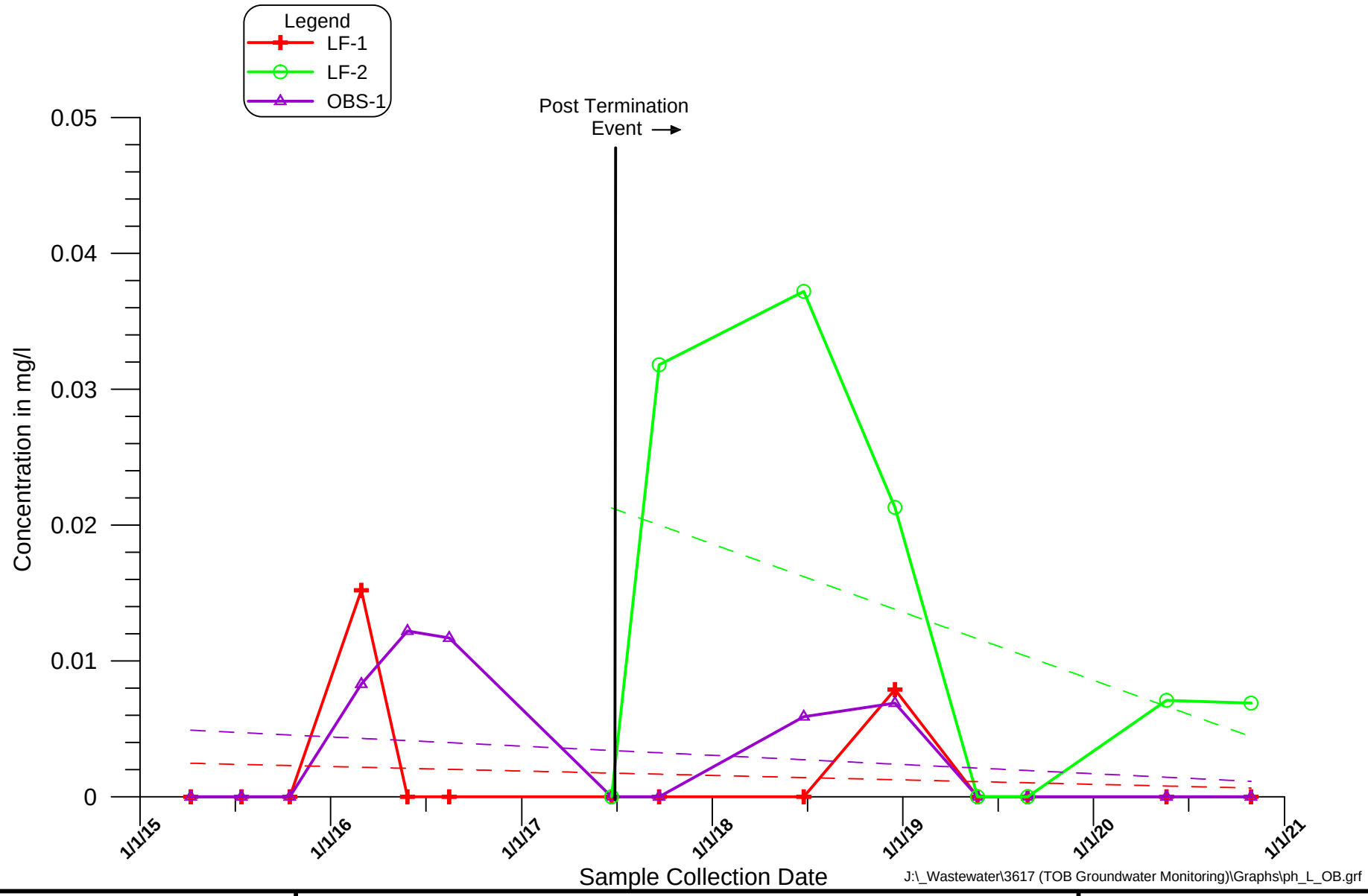
Figure
E



D&B ENGINEERS AND ARCHITECTS, P.C.

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

Figure
E



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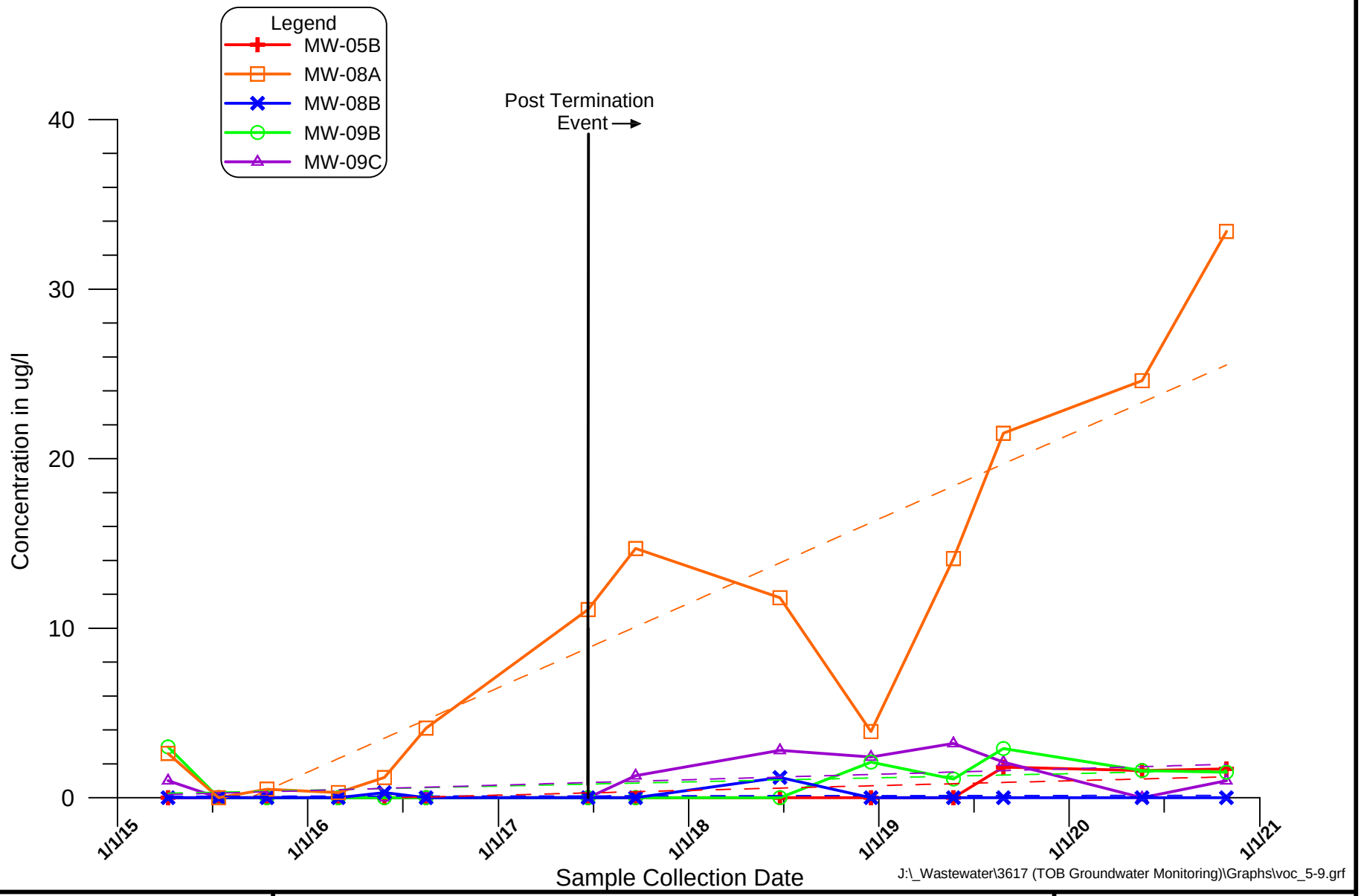
Town of Oyster Bay
Old Bethpage Landfill
Historical Phenolics
Data for Wells LF-1, LF-2 & OBS-1

Figure
E



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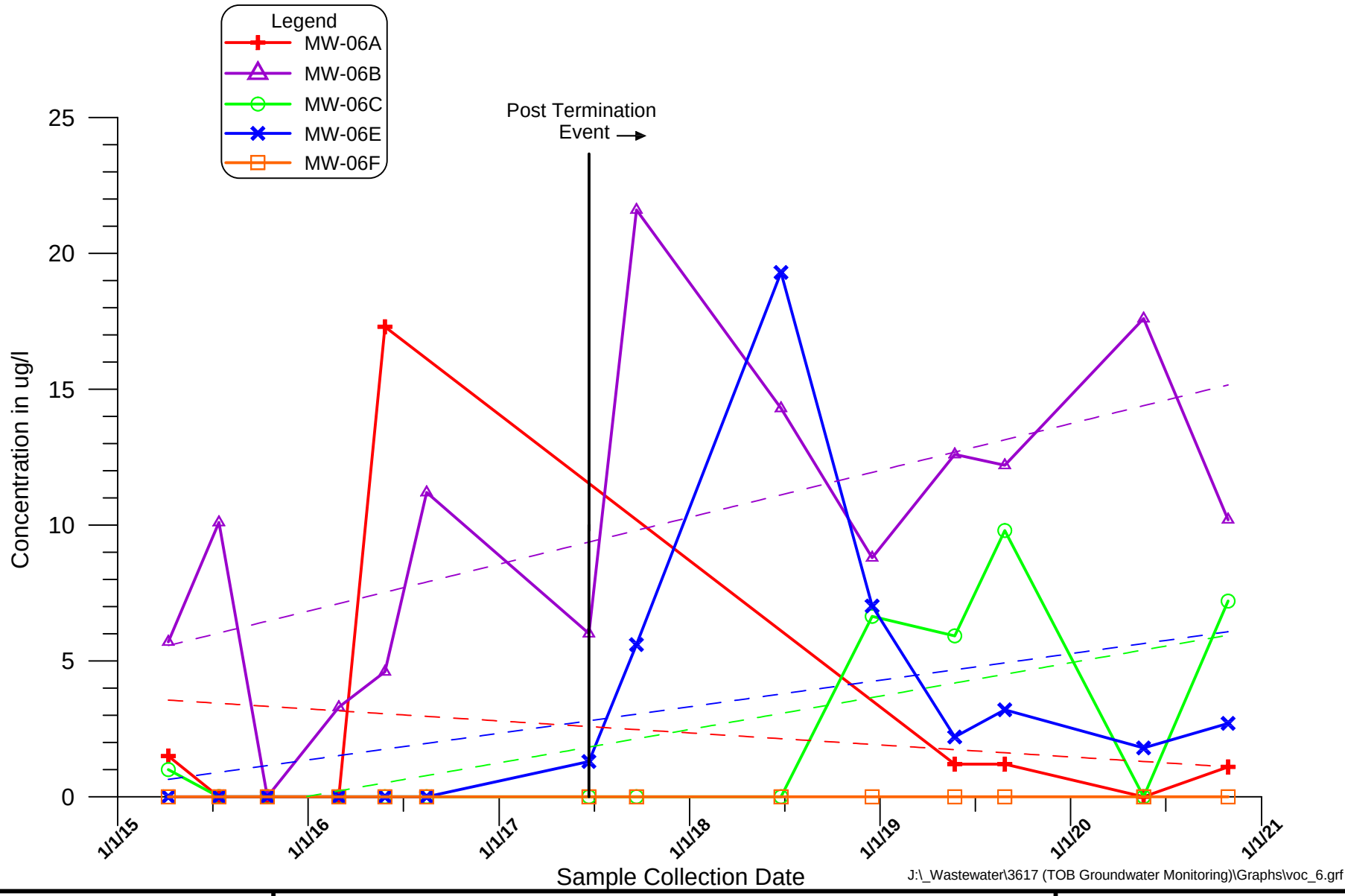
Town of Oyster Bay
Old Bethpage Landfill
Historical Total Volatile Organic Compounds
Data for Monitoring Wells 5, 8, & 9

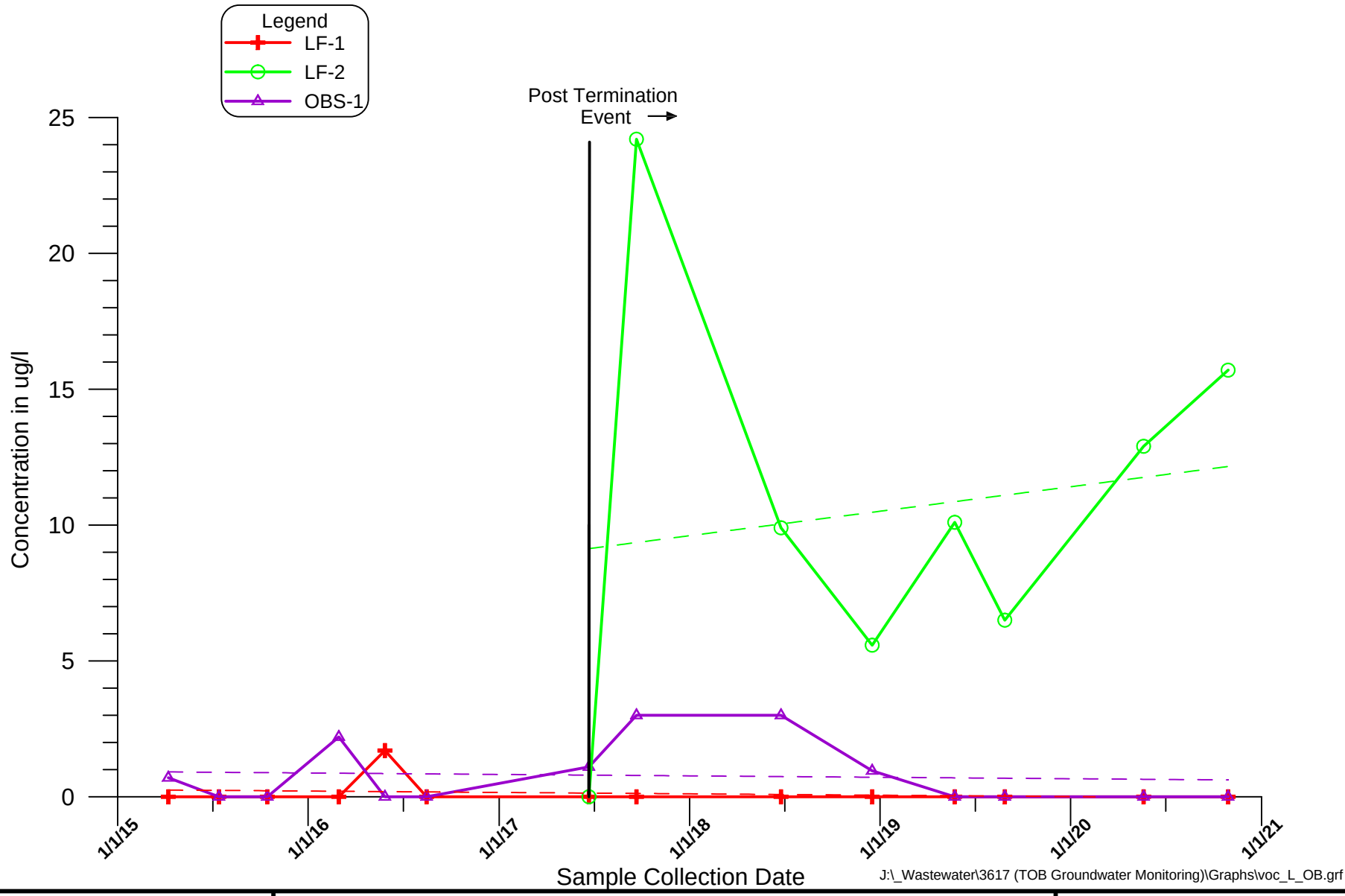
Figure
E



D&B Engineers and Architects, P.C.

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, P.C.

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	

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FIGURES

COUNTY RECHARGE BASIN NO. 528

GROUNDWATER TREATMENT FACILITY

BETHPAGE SWEET HOLLOW ROAD

TOWN RECHARGE BASIN NO. 1

LF-4

LF-3

M-29A-R

M-30A

M-30B-R

M-29B

FORMER CLAREMENT POLYCHEMICAL SITE

LANDFILL BOUNDARY

OLD BETHPAGE LANDFILL

LF-2

MW-8A,B,C

PHASE II PIT

TW-1

MW-10A,B,C,D

TW-2

TW-3-R

LF-1

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

TOWN PROPERTY BOUNDARY

RW-5

NASSAU COUNTY FIRE SERVICE ACADEMY

TOWN RECHARGE BASIN NO. 33

MW-5A,B

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

MW-9A,B,C

RW-4

RW-3

RW-1

RW-2

MW-7A,B-R

OBS-1

BETHPAGE GOLF COURSE

MW-11A,B

QUAKER MEETING HOUSE ROAD

MELVILLE ROAD

CLAREMONT ROAD

ROUND SWAMP ROAD

WINDING 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, 6/29/2020 12:01:20 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 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

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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.