SECOND SEMIANNUAL REPORT OF 2017

OLD BETHPAGE LANDFILL
POST-TERMINATION GROUNDWATER MONITORING PROGRAM

Prepared for:

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

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1.0 INTRODUCTION

This Second Semiannual Report of 2017 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 2017, and is the second 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 will be performed semi-annually for three years, for a total of six rounds. Each report will include all previously collected Post-Termination data, and the final report will evaluate if the termination criteria described in Appendix A, Section III of the Consent Decree has been met.

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-6B, MW-6C, MW-6E, MW-6F, MW-8A, MW-8B, MW-9B, MW-9C and OBS-1 were sampled on September 21 and September 22, 2017 as part of the second semiannual groundwater sampling event of 2017. The locations of these monitoring wells are depicted on **Figure 1**. Note that monitoring well MW-06A was observed to be dry and could not be sampled.

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 directly from the pump discharge. Samples for volatile organic compounds

(VOC) analysis were collected first, followed by other parameters. Each sample was labelled 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. Appropriate quality assurance/quality control (QA/QC) samples were also collected and analyzed, including one field blank, one field duplicate, and two 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 2017 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 disposable filters.

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

3.0 DISCUSSION OF RESULTS

3.1 Data Validation

Twelve groundwater samples, one field duplicate, one field blank and two trip blanks were collected as part of the second semiannual groundwater sampling event of 2017 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 7030715 and 7030815.

The data packages submitted by the analytical laboratory were validated in accordance with NYSDEC quality assurance/quality control (QA/QC) requirements. All samples were analyzed within the method specified holding times. 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 (%R) for 1,2-dichloroethane, 1,2-dichloropropane and n-butylbenzene was below the QC limit in the matrix spike (MS) and/or laboratory control sample (LCS), and these compounds were qualified as estimated (UJ) for the corresponding samples.
- The %R for several leachate indicators was below the QC limit in the MS, and were qualified as estimated (J/UJ) for the corresponding samples.
- The %R for total kjeldahl nitrogen was above the QC limit in the MS, and was qualified as estimated (J) for the corresponding samples.
- Several metals and leachate indicators were detected in the laboratory and/or field blank, and were qualified as non-detect (UB) for the corresponding 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 2017 are summarized in **Table 1** for VOCs, **Table 2** for total and dissolved metals and **Table 3** for leachate indicators. Analytical parameters are compared to the 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 (VOCs)

Detectable concentrations of VOCs were identified in 6 of the 13 groundwater monitoring wells, including LF-2, MW-6B, MW-6E, MW-8A, MW-9C and OBS-1. The highest concentration of total VOCs of 24.2 ug/l was detected at monitoring well LF-2. The sample collected from MW-6B exhibited the next highest total VOCs of 21.6 ug/l, followed in decreasing order by MW-8A, MW-6E, OBS-1 and MW-9C. VOCs were detected at concentrations above Class GA groundwater standards and guidance values at wells LF-2, MW-6B and MW-8A as follows:

- Benzene, 1,4-dichlorobenzene and isopropylbenzene were detected at concentrations slightly above their respective Class GA standards at wells LF-2 and MW-6B, with isopropylbenzene exhibiting the highest concentration of 9.7 ug/l at LF-2. In addition, chlorobenzene was detected at a concentration of 7.7 ug/l at well MW-6B, slightly above its groundwater standard of 5 ug/l.
- Cis-1,2-dichloroethylene (1,2-DCE) and tetrachloroethylene (PCE) were detected at MW-8A at concentrations of 6.4 ug/l and 5.5 ug/l, respectively, slightly above the Class GA standard of 5 ug/l.

3.2.2 Inorganic Parameters (Metals)

Iron, manganese and sodium were detected above groundwater standards in both total and dissolved samples, as described below. Note that concentrations of total metals may be elevated due to the presence of suspended solids in the sample, and therefore the dissolved (filtered) analysis more closely represents actual groundwater conditions.

- 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 3,970 ug/l at MW-6C to a maximum of 22,400 ug/l at LF-1. Dissolved iron concentrations were generally lower but similar to their respective total concentrations, with a maximum concentration of 19,500 ug/l detected at LF-1.

- 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 706 ug/l at MW-6E to a maximum of 5,030 ug/l at MW-5B. Dissolved manganese concentrations were generally lower but similar to their respective total concentrations, with a maximum concentration of 5,270 ug/l detected at MW-5B.

- 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 35,800 ug/l at MW-8A to a maximum of 536,000 ug/l at LF-2. Dissolved sodium concentrations were similar to their respective total concentrations, with a maximum concentration of 535,000 ug/l detected at LF-2.

3.2.3 Leachate Indicators

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

- Chloride was detected above the Class GA groundwater standard of 250 mg/l in 5 of the 13 groundwater monitoring wells, with concentrations ranging from 344 mg/l at MW-6B to a maximum of 633 mg/l at LF-2.

- Ammonia was detected above the Class GA groundwater standard of 2 mg/l in 5 of the 13 groundwater monitoring wells, with concentrations ranging from 18.4 mg/l at MW-6C to a maximum of 192 mg/l at LF-2.

- Total phenols were detected above the Class GA groundwater standard of 0.001 mg/l in 3 of the 13 groundwater monitoring wells, with concentrations ranging from 0.0146 mg/l at MW-6C to a maximum of 0.0405 mg/l at MW-6B.

4.0 CONCLUSIONS

The second semiannual groundwater sampling event of 2017 described in this report is the second sampling round and report completed under the Post-Termination Groundwater Monitoring Program. The Town will continue the Post-Termination Monitoring program, which will be performed semi-annually for three years, for a total of six rounds. Each report will include all previously collected Post-Termination data, and the final report will evaluate if the termination criteria described in Appendix A, Section III of the Consent Decree has been met. Previously collected Post-Termination data is provided in **Appendix E**.

The concentrations of VOCs, metals and leachate indicators detected during the second semiannual groundwater sampling event of 2017, including those detected above Class GA groundwater standards and guidance values, appear to be generally consistent with historical results.

FIGURES

COUNTY RECHARGE BASIN NO. 528

GROUNDWATER TREATMENT FACILITY

BETHPAGE SWEET HOLLOW ROAD

CLAREMONT ROAD

TOWN RECHARGE BASIN NO. 1

SWAMP ROAD

LF-4

LF-3

ROAD

CLAREMENT POLYCHEMICAL SITE

M-29A-R

M-30A

M-30B-R

M-29B

LANDFILL BOUNDARY

ROUND SWAMP ROAD

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

WINDING ROAD

TOWN PROPERTY BOUNDARY

RW-5

NASSAU COUNTY FIRE SERVICE ACADEMY

TOWN RECHARGE BASIN NO. 33

MW-5A,B

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

MW-9A,B,C

RW-4

RW-1

RW-2

RW-3

MW-7A,B-R

OBS-1

BETHPAGE GOLF COURSE

ROUND SWAMP ROAD

MW-11A,B

QUAKER MEETING HOUSE ROAD

MELVILLE ROAD

LEGEND:

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

RW-1 ◉ OLD BETHPAGE LANDFILL RECOVERY WELL

NOTE:

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

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OLD BETHPAGE LANDFILL
TOWN OF OYSTER BAY, NEW YORK

SCALE: 1"=800'

GROUNDWATER MONITORING WELL LOCATION MAP

FIGURE 1

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 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

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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

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

Sample ID		MW-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		09/22/17	09/22/17	09/22/17	09/22/17	09/22/17	09/22/17	09/21/17	09/21/17	09/21/17	09/21/17	09/21/17	09/21/17
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	--	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

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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 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

D&B ENGINEERS AND ARCHITECTS, P.C.

APPENDIX A

GROUNDWATER SAMPLING LOGS

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

SITE Town of Oyster Bay Landfill DATE 9/21/17

WELL ID: **LF-1** Time On-site: Time Off-site:
SAMPLERS: PB, KR 1415 1525

Depth of well (feet from top of casing) 102.50
Initial static water level (feet from top of casing) 51.31
Pump Inlet (feet from top of casing) 56.31

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: 51.19 ft. of water x 1.47 = 75.25 gallons

volume of water removed:
300 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	6.94	17.91	0.388	19.1	4.60	76
50	6.53	17.38	0.421	34.8	2.27	11
100	6.80	17.24	0.501	7.0	0.51	-112
150	6.90	17.23	0.532	0.0	0.40	-133
200	6.94	17.22	0.541	0.0	0.38	-139
250	6.94	17.21	0.542	0.0	0.38	-140
275	6.95	17.22	0.543	0.0	0.37	-142
300	6.97	17.20	0.542	0.0	0.38	-144

Purging Rate: 5 GPM
Purging Time: 60 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 1520

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

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

Observations
Weather/Temperature: Clear, Low 80s.
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 9/21/17

WELL ID: **LF-2** Time On-site: Time Off-site:
SAMPLERS: PB, KR 0720 0830

Depth of well (feet from top of casing) 103.00
Initial static water level (feet from top of casing) 58.93
Pump Inlet (feet from top of casing) 63.93

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: 44.07 ft. of water x 1.47 = 64.78 gallons

volume of water removed:
250 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	7.40	18.40	3.83	0.9	1.61	-168
50	7.43	18.36	3.90	0.0	1.20	-178
100	7.46	18.03	3.88	0.0	1.00	-199
150	7.46	18.02	3.91	0.0	0.53	-197
200	7.47	18.02	3.87	0.0	0.54	-199
250	7.50	18.02	3.88	0.0	0.54	-199

Purging Rate: 5 GPM
Purging Time: 50 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 0825

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

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

Observations
Weather/Temperature: Clear, low 80s.
Sample description: Yellow tint.
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes X no ____ describe Sulfur-like 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 9/21/17

WELL ID: **MW-05B** Time On-site: Time Off-site:
SAMPLERS: PB, KR 0915 0955

Depth of well (feet from top of casing) 117.10
Initial static water level (feet from top of casing) 78.83
Pump Inlet (feet from top of casing)..... 83.83

Purging Method

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

Well Volume Calculation:

2 in. casing:	ft. of water x 0.16 =	gallons
3 in. casing:	ft. of water x 0.36 =	gallons
4 in. casing:	38.27	ft. of water x 0.65 =	24.88	gallons

volume of water removed: 100 gal. >3 volumes: yes X no ____ purged dry? yes ____ no X

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	8.20	17.16	0.321	0.0	3.56	22
20	6.46	15.67	0.330	0.2	0.90	97
40	6.39	15.98	0.336	0.0	0.70	108
60	6.40	15.68	0.338	0.0	0.65	112
80	6.41	15.67	0.341	0.0	0.60	115
100	6.42	15.67	0.341	0.0	0.59	115

Purging Rate: 4.0 GPM
Purging Time: 25 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling

Time of Sample Collection: 0950

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

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

Observations

Weather/Temperature: Clear, Low 80s.
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 9/22/17

WELL ID: **MW-06A** Time On-site: Time Off-site:
SAMPLERS: PB, KR

Depth of well (feet from top of casing) 100.79
Initial static water level (feet from top of casing) ..... Dry
Pump Inlet (feet from top of casing) ..... Dry

Purging Method

Airlift	____	Centrifugal	___
Bailer	____	Pos. Displ.	___
Submersible Pump	____	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: _____ ft. of water x 0.65 = _____ gallons

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

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial						

Purging Rate: Purging Time: Sampling Rate:

Sampling
Time of Sample Collection: _____

Method:
____ Stainless steel bailer
____ Teflon bailer
____ Pos. Disp. Pump
Disposable bailer
____
____ Dedicated pump

Analyses: Pace Analytical and TOBAY DPW Lab
____ VOCs
____ Total & Dissolved Metals
Leachate
____ Parameters

Observations
Weather/Temperature: Clear, Low 80s
Sample description: _____
Free Product? yes ____ no ____ describe _____
Sheen? yes ____ no ____ describe _____
Odor? yes ____ no ____ 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 9/22/17

WELL ID: **MW-06B** Time On-site: Time Off-site:
SAMPLERS: PB, KR 1125 1200

Depth of well (feet from top of casing) 135.00
Initial static water level (feet from top of casing) 101.88
Pump Inlet (feet from top of casing) 106.88

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: 33.12 ft. of water x 0.65 = 21.53 gallons

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

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	7.29	17.90	1.92	37.1	2.19	-129
20	7.24	17.59	1.93	979.0	1.20	-139
40	7.22	17.90	2.00	817.0	0.61	-161
60	7.22	17.94	2.05	21.9	0.41	-172
80	7.21	17.95	2.10	20.6	0.42	-175
100	7.21	17.95	2.10	21.0	0.42	-177

Purging Rate: 5.0 GPM
Purging Time: 20 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 1155

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

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

Observations
Weather/Temperature: Clear, Low 80s
Sample description: Yellow tint
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes X no ____ describe Sulfur-like odor

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

SITE Town of Oyster Bay Landfill DATE 9/22/17

WELL ID: **MW-06C** Time On-site: 0920 Time Off-site: 1000
SAMPLERS: PB, KR

Depth of well (feet from top of casing) 161.00
Initial static water level (feet from top of casing) 101.24
Pump Inlet (feet from top of casing) 106.24

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: 59.76 ft. of water x 0.65 = 38.84 gallons

volume of water removed: 150 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	7.42	17.58	0.850	1.9	4.61	-124
25	7.24	18.35	0.888	56.1	0.71	-158
50	7.28	18.38	0.908	0.1	0.57	-167
75	7.29	18.40	0.860	0.0	0.51	-171
100	7.31	18.43	0.868	0.0	0.47	-175
125	7.32	18.41	0.872	0.0	0.46	-177
150	7.33	18.44	0.871	0.0	0.45	-178

Purging Rate: 5 GPM
Purging Time: 30 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 0955

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

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

Observations
Weather/Temperature: Clear, Low 80s.
Sample description: Clear
Free Product? yes ____ no X describe ____
Sheen? yes ____ no X describe ____
Odor? yes X no ____ describe Slight sulfur-like 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 9/22/17

WELL ID: **MW-06E** Time On-site: Time Off-site:
SAMPLERS: PB, KR 1005 1120

Depth of well (feet from top of casing) 251.00
Initial static water level (feet from top of casing) 102.75
Pump Inlet (feet from top of casing)..... 107.75

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: 148.25 ft. of water x 0.65 = 96.36 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	7.13	17.22	1.44	7.9	7.07	-150
50	7.06	17.54	1.60	0.0	2.50	-163
100	7.04	18.37	1.69	0.0	0.61	-192
150	6.83	17.95	1.45	6.3	0.44	-160
200	6.81	17.92	1.40	0.0	0.40	-157
250	6.77	17.93	1.34	0.0	0.74	-151
275	6.74	17.93	1.28	0.0	0.40	-143
300	6.74	17.93	1.28	0.0	0.40	-142
325	6.73	17.93	1.27	0.0	0.39	-142

Purging Rate: 5.0 GPM
Purging Time: 65 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 1115

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

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

Observations
Weather/Temperature: Clear, Low 80s.
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 9/22/17

WELL ID: **MW-06F** Time On-site: Time Off-site:
SAMPLERS: PB, KR 0725 0920

Depth of well (feet from top of casing) 349.00
Initial static water level (feet from top of casing) 101.93
Pump Inlet (feet from top of casing)..... 106.93

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: 247.07 ft. of water x 0.65 = 160.60 gallons

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

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	4.27	17.56	0.705	0.0	1.69	251
100	5.03	17.09	0.612	0.0	0.99	150
200	4.57	16.23	0.695	0.0	2.04	222
250	4.55	16.19	0.692	0.0	2.21	229
300	4.51	16.13	0.682	0.0	2.52	241
350	4.52	16.16	0.681	0.0	2.54	241
400	4.50	16.13	0.680	0.0	2.60	248
450	4.50	16.13	0.679	0.0	2.65	250
475	4.50	16.15	0.674	0.0	2.64	250
500	4.49	16.12	0.679	0.0	2.65	251

Purging Rate: 5.0 GPM
Purging Time: 100 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 0915

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

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

Observations
Weather/Temperature: Clear, Low 80s.
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 9/22/17

WELL ID: **MW-08A** Time On-site: Time Off-site:
SAMPLERS: PB, KR 1310 1350

Depth of well (feet from top of casing) 79.75
Initial static water level (feet from top of casing) 75.59
Pump Inlet (feet from top of casing) 77.59

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
4 in. casing: 4.16 ft. of water x 0.65 = 2.70 gallons

volume of water removed:
15 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	5.58	14.55	0.060	220	11.01	155
2.5	5.00	14.66	0.069	41.1	10.70	191
5	4.97	14.45	0.076	20.0	9.08	203
7.5	4.98	14.43	0.089	20.1	9.06	213
10	4.94	14.45	0.165	0.0	8.01	229
12.5	4.93	14.45	0.166	0.0	8.00	227
15	4.97	14.45	0.166	0.0	8.02	226

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

Sampling
Time of Sample Collection: 1345

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

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

Observations
Weather/Temperature: Clear, Low 80s.
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 9/22/17

WELL ID: **MW-08B** Time On-site: Time Off-site:
SAMPLERS: PB, KR 1220 1310

Depth of well (feet from top of casing) 159.78
Initial static water level (feet from top of casing) 75.15
Pump Inlet (feet from top of casing)..... 80.15

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: 84.63 ft. of water x 0.65 = 55.01 gallons

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

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.85	15.09	0.604	0.9	3.09	45
25	6.08	13.95	0.630	0.0	0.94	90
50	6.01	13.91	0.640	0.0	0.67	97
75	5.91	13.83	0.660	0.0	0.54	105
100	5.59	13.71	0.702	0.0	0.76	132
125	5.39	13.63	0.716	0.0	0.40	150
150	5.28	13.63	0.729	0.0	0.38	162
175	5.24	13.63	0.730	0.0	0.39	169
200	5.23	13.62	0.729	0.0	0.40	170

Purging Rate: 5.0 GPM
Purging Time: 40 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 1305

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

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

Observations
Weather/Temperature: Clear, Low 80s.
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 9/21/17

WELL ID: **MW-09B** Time On-site: Time Off-site:
SAMPLERS: PB, KR 1135 1225

Depth of well (feet from top of casing) 169.00
Initial static water level (feet from top of casing) 96.98
Pump Inlet (feet from top of casing) 101.98

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: 72.02 ft. of water x 0.65 = 46.81 gallons

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

Field Tests

Volume of Purge Water (Gallons)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
Initial	6.24	14.93	0.347	0.9	2.78	126
25	6.10	14.51	0.350	0.0	0.92	143
50	6.21	14.60	0.349	0.0	0.63	143
75	6.29	14.63	0.350	0.0	0.50	144
100	6.30	14.64	0.350	0.0	0.48	144
125	6.31	14.63	0.352	0.0	0.47	146
150	6.31	14.63	0.354	0.0	0.48	147
175	6.33	14.63	0.355	0.0	0.46	147
200	6.34	14.63	0.356	0.0	0.45	148

Purging Rate: 5.0 GPM
Purging Time: 40 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 1220

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

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

Observations
Weather/Temperature: Clear, Low 80s.
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 9/21/17

WELL ID: **MW-09C** Time On-site: Time Off-site:
SAMPLERS: PB, KR 1025 1135

Depth of well (feet from top of casing) 225.00
Initial static water level (feet from top of casing) 97.01
Pump Inlet (feet from top of casing)..... 102.01

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: 127.99 ft. of water x 0.65 = 83.19 gallons

volume of water removed: 275 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	6.75	16.00	0.286	0.1	5.07	72
50	5.97	14.91	0.307	0.0	0.50	142
100	6.30	15.21	0.338	0.0	0.49	111
150	6.35	15.20	0.339	0.0	0.70	111
200	6.38	15.21	0.340	0.0	0.40	116
225	6.39	15.21	0.340	0.0	0.40	117
250	6.39	15.22	0.340	0.0	0.40	117
275	6.41	15.23	0.340	0.0	0.39	118

Purging Rate: 5.0 GPM
Purging Time: 55 min
Sampling Rate: 0.1l/min VOCs / 0.5l/min Other Analytes

Sampling
Time of Sample Collection: 1130

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

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

Observations
Weather/Temperature: Clear, Low 80s.
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 9/21/17

WELL ID: **OBS-1** Time On-site: Time Off-site:
SAMPLERS: PB, KR 1245 1405

Depth of well (feet from top of casing) 195.00
Initial static water level (feet from top of casing) 54.10
Pump Inlet (feet from top of casing)..... 59.10

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: 140.90 ft. of water x 0.65 = 91.59 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	6.56	15.22	0.378	0.9	8.01	132
50	6.20	15.43	0.377	0.0	2.09	128
100	6.60	16.12	0.571	0.0	0.51	54
150	6.62	16.13	0.600	0.0	0.45	49
200	6.62	16.14	0.609	0.0	0.40	50
250	6.62	16.15	0.609	0.0	0.39	51
275	6.62	16.16	0.610	0.0	0.40	52
300	6.62	16.16	0.610	0.0	0.40	52
325	6.62	16.15	0.610	0.0	0.40	52

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

Sampling
Time of Sample Collection: 1400

Method:

X	Submersible Pump	X	VOCs
X	In-Line Filter (Diss. Metals)		
	Pos. Disp. Pump	X	Total & Dissolved Metals
			Leachate
	Disposable bailer	X	Parameters

Analyses: Pace Analytical

Observations
Weather/Temperature: Clear, Low 80s.
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.

APPENDIX B

CHAIN OF CUSTODY FORMS

Pace Analytical®
www.pacelabs.com

WO#:7030715

CHAIN OF CUSTODY / Analytical Request Document

LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of 1

2196910

Section A Required Client Information:

Company: DTB	Report To:	Attention:
Address: 330 Crossways Park Dr. Woodbury NY 11797	Copy To: SAME	Company Name: SAME
Email To: Acarlsen@dbeng.com	Purchase Order No.:	Address: SAME
Phone: 516-364-9890 Fax:	Project Name: old Bethpage	Pace Quote Reference:
Requested Due Date/TAT: Standard	Project Number: 3617	Pace Project Manager: Jen Aracri
		Pace Profile #:

Section C Invoice Information:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOCs	Leachate indicators	total metals	Dissolved metals (F)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank								2				2					N	N	N	N		
2	LF-1	WT	G			9/21/17	0825		7	1	1	2	2		1								
3	MW-5B	WT	G			9/21/17	0950		7	1	1	2	2		1								
4	Blind Duplicate	WT	G			9/21/17	0000		7	1	1	2	2		1								SAMPLE CANCELED BY CLIENT 9/21/17 SK
5	MW-9C	WT	G			9/21/17	1130		7	1	1	2	2		1								
6	MW-9B	WT	G			9/21/17	1200		7	1	1	2	2		1								
7	OBS-1	WT	G			9/21/17	1400		7	1	1	2	2		1								
8	LF-1	WT	G			9/21/17	1520		7	1	1	2	2		1								
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
⊗ Dissolved metals filtered in-field, marked w/ "F"	DTB	9/21/17			9/21	16:10	7.6	Y	N	Y
⊗ Only analyze hex. chromium if total chromium exceeds class GA standards										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Paul Ramsey

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 9/21/17

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request D

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

WO#: 7030815

7030815

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: D+B	Report To:	Attention:
Address: 330 Crossways Park Dr. Woodbury NY 11797	Copy To: SAME	Company Name: SAME
Email To: Acaniano@db-eng.com	Purchase Order No.:	Address:
Phone: 516-364-9890 Fax:	Project Name: Old Bethpage	Pace Quote Reference:
Requested Due Date/TAT: Standard	Project Number: 3617	Pace Project Manager: Jen Aracri
		Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOCs	Volatile Indicators	total metals	Dissolved metals (F)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	DT							2			2						X						009
2	MW-6F	WT	G			9/22/17	0915		7	1	1	2	2	1				X	X	X	X			001/010
3	MW-6C	WT	G			9/22/17	0955		7	1	1	2	2	1				X	X	X	X			002/011
4	MW-6E	WT	G			9/22/17	1115		7	1	1	2	2	1				X	X	X	X			003/012
5	Blind Duplicate	WT	G			9/22/17	0000		7	1	1	2	2	1				X	X	X	X			004/013
6	MW-6B	WT	G			9/22/17	1155		7	1	1	2	2	1				X	X	X	X			005/014
7	MW-8B	WT	G			9/22/17	1305		7	1	1	2	2	1				X	X	X	X			006/015
8	MW-8A	WT	G			9/22/17	1345		7	1	1	2	2	1				X	X	X	X			007/016
9	Field Blank	WT	G			9/22/17	1400		7	1	1	2	2	1				X	X	X	X			008/017
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
*Dissolved metals filtered in field, marked w/ "F"	/ D+B	9/22/17	14:40		9/22/17	14:40	1.1°C
*Only analyze hex. chromium if total chromium exceeds Class GA Standards							

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 9/22/17

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

APPENDIX C

DATA VALIDATION CHECKLIST

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION CHECKLIST

Project Name:	Old Bethpage Landfill
Project Number:	3617- 02
Sample Date(s):	September 21, 2017
Sample Team:	PB
Matrix/Number of Samples:	Water/ 6 Field Duplicates/ 0 Trip Blanks / 1 Field Blanks/ 0
Analyzing Laboratory:	Pace Analytical Services, LLC, Melville, NY
Analyses:	Volatile Organic Compounds (VOCs): by SW846 8260C Metals: Total and dissolved by Method 200.7, mercury by Method 245.1 General Chemistry: Hardness (SM 2340C), Alkalinity (SM2320B), Chloride and Sulfate (USEPA 300.0), Hexavalent Chromium (SM3500), Nitrate (USEPA 353.2) Nitrite (USEPA 353.2), Ammonia (SM4500), Total Kjeldahl Nitrogen (USEPA 351.2), Cyanide (SM 4500), Phenolics (USEPA 420.1), Total Dissolved Solids (SM 2540C)
Laboratory Report No:	7030715 Date:10/18/2017

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:7030715

SAMPLE AND ANALYSIS LIST

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis				
				VOC	Acids	PCB	MET	MISC
LF-2	70307150001/2	9/21/17		X			X	X
MW-5B	70307150003/14	9/21/17		X			X	X
MW-9C	70307150004/5	9/21/17		X			X	X
MW-9B	70307150006/7	9/21/17		X			X	X
OBS-1	70307150008/9	9/21/17		X			X	X
LF-1	70307150010/11	9/21/17		X			X	X
TRIP BLANK	70307150012	9/21/17		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 duplicates RPD					X

VOCs - volatile organic compounds
%R - percent recovery
%D - percent difference
%RSD - percent relative standard deviation
RRF - relative response factor
RPD - relative percent difference

Comments:
Performance was acceptable, except the following:

3&5. The %Rs were above the QC limits in the MS and/or LCS for bromoform and carbon tetrachloride associated with all samples. These compounds were not detected in the samples therefore qualification of the data was not necessary.

The %Rs were below the QC limits in the MS and/or LCS for 1,1-dichloroethane, 1,2-dichloropropane and n-butylbenzene associated with all samples. 1,1-Dichloroethane, 1,2-dichloropropane and n-butylbenzene were qualified as an estimated detection limit (UJ) in all samples.

INORGANIC ANALYSES
METALS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X	X		
B. Field blanks		X	X		
3. Laboratory control sample %R		X		X	
4. Spike sample %R		X		X	
5. Post digestive spike sample %R					X
6. Duplicate RPD		X		X	
7. Total verse dissolved results		X		X	
8. Field duplicates RPD					X

%R - percent recovery %D - percent difference RPD - relative percent difference

Comments:
Performance was acceptable, except the following:

2. Total calcium, iron, manganese and zinc and dissolved aluminum, calcium, iron lead manganese nickel, potassium, sodium and zinc were detected in the field blank in SDG 7030815 and/or method blanks. The following metals were qualified as non-detect (UB): dissolved aluminum in sample LF-1; dissolved nickel in samples LF-1, MW-5B, MW-9B, MW-9C and OBS-1; total iron in samples MW-9C and OBS-1; dissolved iron in sample OBS-1; and total and dissolved zinc in all samples.

INORGANIC ANALYSES
GENERAL CHEMISTRY

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Laboratory blanks		X	X		
B. Field blanks		X	X		
3. Spike sample %R		X		X	
4. Laboratory duplicate RPD		X		X	
5. Matrix spike and matrix spike duplicate %R		X	X		
6. Total verse dissolved results					X
7. Field duplicates RPD					X

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

Comments:
Performance was acceptable, except the following:

2. Alkalinity, ammonia, chloride, nitrate, phenolics and sulfate were detected in the field blank in SDG 7030815 and/or method blanks. The following general chemistry parameters were qualified as non-detect (UB): ammonia in samples MW-5B and MW-9B; nitrate in samples LF-1, MW-9C and OBS-1; phenolics in sample LF-1, MW-9C and OBS-1; and sulfate in samples LF-2.

5. The %R for alkalinity bicarbonate was below the QC limit in the matrix spike sample associated with all samples. Alkalinity bicarbonate was qualified as estimated (J/UJ) in all samples.

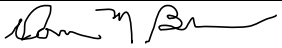
   The %R for total kjeldahl nitrogen was above the QC limit in the matrix spike sample associated with all samples. Total kjeldahl nitrogen was qualified as estimated (J) in all samples except MW-9B.

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers:7030715

Sample ID	Analyte(s)	Qualifier	Reason(s)
VOCs			
All samples	1,1-Dichloroethane, 1,2-dichloropropane and n-butylbenzene	UJ	The %Rs were below the QC limits in the MS and/or LCS
Metals			
LF-1	Dissolved aluminum	UB	Detected in the field and/or method blanks
LF-1, MW-5B, MW-9B, MW-9C and OBS-1	Dissolved nickel		
MW-9C and OBS-1	Total iron		
OBS-1	Dissolved iron		
All samples	Total and dissolved zinc		
General Chemistry			
MW-5B and MW-9B	Ammonia	UB	Detected in the field and method blanks
LF-1, MW-9C and OBS-1	Nitrate		
LF-1, MW-9C and OBS-1	Phenolics		
LF-2	Sulfate		
All samples	Alkalinity bicarbonate	J/UJ	The %R was below the QC limit in the matrix spike
All samples except MW-9B	Total kjeldahl nitrogen	J	The %R was above the QC limit in the matrix spike

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 10/23/17
VALIDATION PERFORMED BY SIGNATURE:	

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION CHECKLIST

Project Name:	Old Bethpage Landfill
Project Number:	3617- 02
Sample Date(s):	September 22, 2017
Sample Team:	PB
Matrix/Number of Samples:	Water/ 6 Field Duplicates/ 1 Trip Blanks / 1 Field Blanks/ 1
Analyzing Laboratory:	Pace Analytical Services, LLC, Melville, NY
Analyses:	Volatile Organic Compounds (VOCs): by SW846 8260C Metals: Total and dissolved by Method 200.7, mercury by Method 245.1 General Chemistry: Hardness (SM 2340C), Alkalinity (SM2320B), Chloride and Sulfate (USEPA 300.0), Hexavalent Chromium (SM3500), Nitrate (USEPA 353.2) Nitrite (USEPA 353.2), Ammonia (SM4500), Total Kjeldahl Nitrogen (USEPA 351.2), Cyanide (SM 4500), Phenolics (USEPA 420.1), Total Dissolved Solids (SM 2540C)
Laboratory Report No:	7030815 Date:10/18/2017

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:7030815

SAMPLE AND ANALYSIS LIST

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis				
				VOC	Acids	PCB	MET	MISC
MW-6F	70308150001/10	9/22/17		X			X	X
MW-6C	70308150002/11	9/22/17		X			X	X
MW-6E	70308150003/12	9/22/17		X			X	X
BLIND DUPLICATE	70308150004/13	9/22/17	MW-6B	X			X	X
MW-6B	70308150005/14	9/22/17		X			X	X
MW-8B	70308150006/15	9/22/17		X			X	X
MW-8A	70308150007/16	9/22/17		X			X	X
FIELD BLANK	70308150008/17	9/22/17		X			X	X
TRIP BLANK	70308150009	9/22/17		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 duplicates RPD		X		X	

VOCs - volatile organic compounds
%R - percent recovery
%D - percent difference
%RSD - percent relative standard deviation
RRF - relative response factor
RPD - relative percent difference

Comments:
Performance was acceptable, except the following:

3&5. The %Rs were above the QC limits in the MS and/or LCS for bromoform and carbon tetrachloride associated with all samples. These compounds were not detected in the samples therefore qualification of the data was not necessary.

The %Rs were below the QC limits in the MS and/or LCS for 1,1-dichloroethane, 1,2-dichloropropane and n-butylbenzene associated with all samples. 1,1-Dichloroethane, 1,2-dichloropropane and n-butylbenzene were qualified as an estimated detection limit (UJ) in all samples.

INORGANIC ANALYSES
METALS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X	X		
B. Field blanks		X	X		
3. Laboratory control sample %R		X		X	
4. Spike sample %R		X		X	
5. Post digestive spike sample %R					X
6. Duplicate RPD		X		X	
7. Total verse dissolved results		X		X	
8. Field duplicates RPD		X		X	

%R - percent recovery %D - percent difference RPD - relative percent difference

Comments:
Performance was acceptable, except the following:

2. Total aluminum, calcium, copper, iron, manganese, nickel and zinc and dissolved aluminum, calcium, iron lead manganese nickel, potassium, sodium and zinc were detected in the field and/or method blanks. The following metals were qualified as non-detect (UB): dissolved aluminum in samples MW-6B, MW-6F, MW-8A and MW-8B; total and dissolved iron in samples MW-6F, MW-8A and MW-8B; dissolved nickel in samples MW-6C and MW-8A total and dissolved zinc in all samples.

INORGANIC ANALYSES
GENERAL CHEMISTRY

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Laboratory blanks		X	X		
B. Field blanks		X	X		
3. Spike sample %R		X		X	
4. Laboratory duplicate RPD		X		X	
5. Matrix spike and matrix spike duplicate %R		X	X		
6. Total verse dissolved results					X
7. Field duplicates RPD		X		X	

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

Comments:
Performance was acceptable, except the following:

2. Alkalinity, ammonia, chloride, nitrate, phenolics and sulfate were detected in the field blank in SDG 7030815 and/or method blanks. The following general chemistry parameters were qualified as non-detect (UB): ammonia in samples MW-6F and MW-8A; nitrate in samples MW-6E and MW-8B; sulfate in samples MW-6B and MW-6F; and phenolics in samples MW-6E, MW-6F, MW-8A and MW-8B.

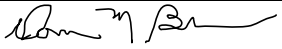
5. The following %Rs were below the QC limit in the matrix spike sample: alkalinity bicarbonate and cyanide for all samples; nitrite for samples MW-6F, MW-6C and MW-6E; ammonia for samples MW-6B, MW-8B and MW-8A. The above general chemistry parameters were qualified as estimated (J/UJ) in associated samples.

D&B ENGINEERS AND ARCHITECTS, P.C.

DATA VALIDATION AND QUALIFICATION SUMMARY

Laboratory Numbers:7030815

Sample ID	Analyte(s)	Qualifier	Reason(s)
VOCs			
All samples	1,1-Dichloroethane, 1,2-dichloropropane and n-butylbenzene	UJ	The %Rs were below the QC limits in the MS and/or LCS
Metals			
MW-6B, MW-6F, MW-8A and MW-8B;	Dissolved aluminum	UB	Detected in the field and/or method blanks
MW-6F, MW-8A and MW-8B	Total and dissolved iron		
MW-6C and MW-8A	Dissolved nickel		
all samples	Total and dissolved zinc		
General Chemistry			
MW-6F and MW-8A	Ammonia	UB	Detected in the field and method blanks
MW-6E and MW-8B	Nitrate		
MW-6B and MW-6F	Sulfate		
MW-6E, MW-6F, MW-8A and MW-8B	Phenolics		
All samples	Alkalinity bicarbonate and cyanide	J/UJ	The %Rs were below the QC limit in the matrix spike
MW-6F, MW-6C and MW-6E	Nitrite		
MW-6B, MW-8B and MW-8A	Ammonia		

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 10/23/17
VALIDATION PERFORMED BY SIGNATURE:	

APPENDIX D

LABORATORY DATA REPORTS

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

October 18, 2017

Anthony Caniano
Dvirka & Bartilucci
330 Crossways Park Drive
Woodbury, NY 11797

RE: Project: OLD BETHPAGE
Pace Project No.: 7030715

Dear Anthony Caniano:
Enclosed are the analytical results for sample(s) received by the laboratory on September 21, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Jennifer Aracri
jennifer.aracri@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Donna Brown, Dvirka & Bartilucci

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

CERTIFICATIONS

Project: OLD BETHPAGE
Pace Project No.: 7030715

Long Island Certification IDs

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
Pace Project No.: 7030715

Sample: LF-2 **Lab ID: 7030715001** Collected: 09/21/17 08:25 Received: 09/21/17 16:10 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							
Aluminum	**38.5J**	ug/L	200	1	10/04/17 07:31	10/05/17 17:48	7429-90-5	
Barium	**56.0J**	ug/L	200	1	10/04/17 07:31	10/05/17 17:48	7440-39-3	
Calcium	**35700**	ug/L	1000	1	10/04/17 07:31	10/05/17 17:48	7440-70-2	
Chromium	**12.2**	ug/L	10.0	1	10/04/17 07:31	10/05/17 17:48	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/04/17 07:31	10/05/17 17:48	7440-50-8	
Iron	**8220**	ug/L	20.0	1	10/04/17 07:31	10/05/17 17:48	7439-89-6	
Lead	**2.1J**	ug/L	5.0	1	10/04/17 07:31	10/05/17 17:48	7439-92-1	
Magnesium	**24500**	ug/L	1000	1	10/04/17 07:31	10/05/17 17:48	7439-95-4	
Manganese	**193**	ug/L	10.0	1	10/04/17 07:31	10/05/17 17:48	7439-96-5	
Nickel	**20.8J**	ug/L	40.0	1	10/04/17 07:31	10/05/17 17:48	7440-02-0	
Potassium	**160000**	ug/L	5000	1	10/04/17 07:31	10/05/17 17:48	7440-09-7	
Sodium	**536000**	ug/L	5000	1	10/04/17 07:31	10/05/17 17:48	7440-23-5	
Zinc	**7.4J**	ug/L	20.0	1	10/04/17 07:31	10/05/17 17:48	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**<0.20**	ug/L	0.20	1	10/03/17 10:40	10/04/17 15:39	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**3.4**	ug/L	1.0	1		09/28/17 15:08	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/28/17 15:08	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/28/17 15:08	75-25-2	L1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:08	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:08	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/28/17 15:08	56-23-5	L1
Chlorobenzene	**2.7**	ug/L	1.0	1		09/28/17 15:08	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/28/17 15:08	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/28/17 15:08	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/28/17 15:08	124-48-1	
1,2-Dichlorobenzene	**1.3**	ug/L	1.0	1		09/28/17 15:08	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:08	541-73-1	
1,4-Dichlorobenzene	**3.3**	ug/L	1.0	1		09/28/17 15:08	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/28/17 15:08	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 15:08	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 15:08	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 15:08	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 15:08	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 15:08	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/28/17 15:08	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:08	100-41-4	
Isopropylbenzene (Cumene)	**9.7**	ug/L	1.0	1		09/28/17 15:08	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/28/17 15:08	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/28/17 15:08	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/28/17 15:08	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 15:08	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 15:08	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/28/17 15:08	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030715

Sample: LF-2 **Lab ID: 7030715001** Collected: 09/21/17 08:25 Received: 09/21/17 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Xylene (Total)	**3.8**	ug/L	2.0	1		09/28/17 15:08	1330-20-7	
m&p-Xylene	**2.3**	ug/L	2.0	1		09/28/17 15:08	179601-23-1	
o-Xylene	**1.5**	ug/L	1.0	1		09/28/17 15:08	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	68-153	1		09/28/17 15:08	17060-07-0	
4-Bromofluorobenzene (S)	102	%.	79-124	1		09/28/17 15:08	460-00-4	
Toluene-d8 (S)	96	%.	69-124	1		09/28/17 15:08	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**1590**	mg/L	5.0	1		10/04/17 07:54		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**147**	mg/L	5.0	1		10/04/17 11:14		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**1900**	mg/L	40.0	1		09/27/17 14:49		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.10**	mg/L	0.10	5		09/21/17 23:17	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**633**	mg/L	40.0	20		10/05/17 11:18	16887-00-6	
Sulfate	**0.42J**	mg/L	5.0	1		10/05/17 05:26	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**192**	mg/L	10.0	100	10/05/17 06:53	10/05/17 12:49	7727-37-9	M6
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		09/21/17 22:32	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/21/17 20:07	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**31.8**	ug/L	10.0	2	10/03/17 12:00	10/03/17 15:41		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C							
Cyanide	**<10.0**	ug/L	10.0	1	10/05/17 12:54	10/05/17 21:13	57-12-5	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**192**	mg/L	5.0	50		10/04/17 15:14	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
Pace Project No.: 7030715

Sample: LF-2 **Lab ID: 7030715002** Collected: 09/21/17 08:25 Received: 09/21/17 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7							
Aluminum, Dissolved	**<200**	ug/L	200	1		10/06/17 11:54	7429-90-5	
Barium, Dissolved	**55.7J**	ug/L	200	1		10/06/17 11:54	7440-39-3	
Calcium, Dissolved	**34400**	ug/L	1000	1		10/06/17 11:54	7440-70-2	
Chromium, Dissolved	**13.5**	ug/L	10.0	1		10/06/17 11:54	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/06/17 11:54	7440-50-8	
Iron, Dissolved	**7840**	ug/L	20.0	1		10/06/17 11:54	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/06/17 11:54	7439-92-1	
Magnesium, Dissolved	**22900**	ug/L	1000	1		10/06/17 11:54	7439-95-4	
Manganese, Dissolved	**184**	ug/L	10.0	1		10/06/17 11:54	7439-96-5	
Nickel, Dissolved	**19.6J**	ug/L	40.0	1		10/06/17 11:54	7440-02-0	
Potassium, Dissolved	**162000**	ug/L	5000	1		10/06/17 11:54	7440-09-7	
Sodium, Dissolved	**535000**	ug/L	5000	1		10/06/17 11:54	7440-23-5	
Zinc, Dissolved	**2.3J**	ug/L	20.0	1		10/06/17 11:54	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	10/03/17 10:40	10/04/17 15:16	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.10**	mg/L	0.10	5		09/21/17 23:20	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
Pace Project No.: 7030715

Sample: MW-5B **Lab ID: 7030715003** Collected: 09/21/17 09:50 Received: 09/21/17 16:10 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							
Aluminum	**16.4J**	ug/L	200	1	10/04/17 07:31	10/05/17 18:04	7429-90-5	
Barium	**40.2J**	ug/L	200	1	10/04/17 07:31	10/05/17 18:04	7440-39-3	
Calcium	**14000**	ug/L	1000	1	10/04/17 07:31	10/05/17 18:04	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/04/17 07:31	10/05/17 18:04	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/04/17 07:31	10/05/17 18:04	7440-50-8	
Iron	**<200**	ug/L	200	10	10/04/17 07:31	10/06/17 14:08	7439-89-6	
Lead	**1.8J**	ug/L	5.0	1	10/04/17 07:31	10/05/17 18:04	7439-92-1	
Magnesium	**6740**	ug/L	1000	1	10/04/17 07:31	10/05/17 18:04	7439-95-4	
Manganese	**5030**	ug/L	10.0	1	10/04/17 07:31	10/05/17 18:04	7439-96-5	
Nickel	**2.2J**	ug/L	40.0	1	10/04/17 07:31	10/05/17 18:04	7440-02-0	
Potassium	**11200**	ug/L	5000	1	10/04/17 07:31	10/05/17 18:04	7440-09-7	
Sodium	**60700**	ug/L	5000	1	10/04/17 07:31	10/05/17 18:04	7440-23-5	
Zinc	**3.4J**	ug/L	20.0	1	10/04/17 07:31	10/05/17 18:04	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**<0.20**	ug/L	0.20	1	10/03/17 10:40	10/04/17 15:44	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**<1.0**	ug/L	1.0	1		09/28/17 15:25	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/28/17 15:25	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/28/17 15:25	75-25-2	L1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:25	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:25	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/28/17 15:25	56-23-5	L1
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:25	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/28/17 15:25	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/28/17 15:25	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/28/17 15:25	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:25	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:25	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:25	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/28/17 15:25	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 15:25	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 15:25	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 15:25	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 15:25	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 15:25	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/28/17 15:25	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:25	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		09/28/17 15:25	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/28/17 15:25	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/28/17 15:25	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/28/17 15:25	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 15:25	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 15:25	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/28/17 15:25	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030715

Sample: MW-5B **Lab ID: 7030715003** Collected: 09/21/17 09:50 Received: 09/21/17 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/28/17 15:25	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/28/17 15:25	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/28/17 15:25	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	68-153	1		09/28/17 15:25	17060-07-0	
4-Bromofluorobenzene (S)	103	%.	79-124	1		09/28/17 15:25	460-00-4	
Toluene-d8 (S)	96	%.	69-124	1		09/28/17 15:25	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**34.2**	mg/L	1.0	1		10/03/17 12:07		
Alkalinity,Bicarbonate (CaCO3)	**34.2**	mg/L	1.0	1		10/03/17 12:07		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/03/17 12:07		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**60.0**	mg/L	5.0	1		10/04/17 11:23		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**241**	mg/L	10.0	1		09/27/17 14:50		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		09/21/17 23:20	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**125**	mg/L	10.0	5		10/05/17 11:31	16887-00-6	
Sulfate	**23.9**	mg/L	5.0	1		10/05/17 05:40	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**1.2**	mg/L	0.10	1	10/05/17 06:53	10/05/17 12:52	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**5.9**	mg/L	0.50	10		09/21/17 22:33	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**0.056**	mg/L	0.050	1		09/21/17 20:08	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	10/03/17 12:00	10/03/17 15:42		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C							
Cyanide	**<10.0**	ug/L	10.0	1	10/05/17 12:54	10/05/17 21:13	57-12-5	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.22**	mg/L	0.10	1		10/04/17 14:50	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030715

Sample: MW-9C **Lab ID: 7030715004** Collected: 09/21/17 11:30 Received: 09/21/17 16:10 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							
Aluminum	**<200**	ug/L	200	1	10/04/17 07:31	10/05/17 18:09	7429-90-5	
Barium	**52.2J**	ug/L	200	1	10/04/17 07:31	10/05/17 18:09	7440-39-3	
Calcium	**7830**	ug/L	1000	1	10/04/17 07:31	10/05/17 18:09	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/04/17 07:31	10/05/17 18:09	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/04/17 07:31	10/05/17 18:09	7440-50-8	
Iron	**20.5**	ug/L	20.0	1	10/04/17 07:31	10/05/17 18:09	7439-89-6	
Lead	**1.8J**	ug/L	5.0	1	10/04/17 07:31	10/05/17 18:09	7439-92-1	
Magnesium	**9760**	ug/L	1000	1	10/04/17 07:31	10/05/17 18:09	7439-95-4	
Manganese	**187**	ug/L	10.0	1	10/04/17 07:31	10/05/17 18:09	7439-96-5	
Nickel	**1.4J**	ug/L	40.0	1	10/04/17 07:31	10/05/17 18:09	7440-02-0	
Potassium	**10600**	ug/L	5000	1	10/04/17 07:31	10/05/17 18:09	7440-09-7	
Sodium	**63700**	ug/L	5000	1	10/04/17 07:31	10/05/17 18:09	7440-23-5	
Zinc	**3.1J**	ug/L	20.0	1	10/04/17 07:31	10/05/17 18:09	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**<0.20**	ug/L	0.20	1	10/03/17 10:40	10/04/17 15:46	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**<1.0**	ug/L	1.0	1		09/28/17 15:43	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/28/17 15:43	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/28/17 15:43	75-25-2	L1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:43	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:43	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/28/17 15:43	56-23-5	L1
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:43	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/28/17 15:43	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/28/17 15:43	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/28/17 15:43	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:43	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:43	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:43	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/28/17 15:43	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 15:43	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 15:43	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 15:43	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 15:43	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 15:43	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/28/17 15:43	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 15:43	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		09/28/17 15:43	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/28/17 15:43	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/28/17 15:43	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/28/17 15:43	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 15:43	71-55-6	
Trichloroethene	**1.3**	ug/L	1.0	1		09/28/17 15:43	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/28/17 15:43	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

Project: OLD BETHPAGE
Pace Project No.: 7030715

Sample: MW-9C **Lab ID: 7030715004** Collected: 09/21/17 11:30 Received: 09/21/17 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/28/17 15:43	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/28/17 15:43	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/28/17 15:43	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	68-153	1		09/28/17 15:43	17060-07-0	
4-Bromofluorobenzene (S)	104	%.	79-124	1		09/28/17 15:43	460-00-4	
Toluene-d8 (S)	98	%.	69-124	1		09/28/17 15:43	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**44.0**	mg/L	1.0	1		10/03/17 12:12		
Alkalinity,Bicarbonate (CaCO3)	**44.0**	mg/L	1.0	1		10/03/17 12:12		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/03/17 12:12		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**48.0**	mg/L	5.0	1		10/04/17 11:23		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**210**	mg/L	10.0	1		09/27/17 14:51		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		09/21/17 23:21	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**126**	mg/L	10.0	5		10/05/17 11:45	16887-00-6	
Sulfate	**21.7**	mg/L	5.0	1		10/05/17 05:53	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**1.4**	mg/L	0.10	1	10/05/17 06:53	10/05/17 12:53	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.57**	mg/L	0.050	1		09/21/17 22:34	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/21/17 20:14	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**1.6J**	ug/L	5.0	1	10/03/17 12:00	10/03/17 15:42		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C							
Cyanide	**<10.0**	ug/L	10.0	1	10/05/17 12:54	10/05/17 21:13	57-12-5	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**1.3**	mg/L	0.10	1		10/04/17 14:52	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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

Project: OLD BETHPAGE
Pace Project No.: 7030715

Sample: MW-9C **Lab ID: 7030715005** Collected: 09/21/17 11:30 Received: 09/21/17 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7							
Aluminum, Dissolved	**<200**	ug/L	200	1		10/06/17 12:16	7429-90-5	
Barium, Dissolved	**48.5J**	ug/L	200	1		10/06/17 12:16	7440-39-3	
Calcium, Dissolved	**7100**	ug/L	1000	1		10/06/17 12:16	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/06/17 12:16	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/06/17 12:16	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		10/06/17 12:16	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/06/17 12:16	7439-92-1	
Magnesium, Dissolved	**8800**	ug/L	1000	1		10/06/17 12:16	7439-95-4	
Manganese, Dissolved	**169**	ug/L	10.0	1		10/06/17 12:16	7439-96-5	
Nickel, Dissolved	**2.0J**	ug/L	40.0	1		10/06/17 12:16	7440-02-0	
Potassium, Dissolved	**10400**	ug/L	5000	1		10/06/17 12:16	7440-09-7	
Sodium, Dissolved	**63300**	ug/L	5000	1		10/06/17 12:16	7440-23-5	
Zinc, Dissolved	**1.3J**	ug/L	20.0	1		10/06/17 12:16	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	10/03/17 10:40	10/04/17 15:22	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		09/21/17 23:22	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
Pace Project No.: 7030715

Sample: MW-9B **Lab ID: 7030715006** Collected: 09/21/17 12:20 Received: 09/21/17 16:10 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							
Aluminum	**<200**	ug/L	200	1	10/04/17 07:31	10/05/17 18:15	7429-90-5	
Barium	**99.0J**	ug/L	200	1	10/04/17 07:31	10/05/17 18:15	7440-39-3	
Calcium	**15400**	ug/L	1000	1	10/04/17 07:31	10/05/17 18:15	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/04/17 07:31	10/05/17 18:15	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/04/17 07:31	10/05/17 18:15	7440-50-8	
Iron	**<200**	ug/L	200	10	10/04/17 07:31	10/06/17 14:14	7439-89-6	
Lead	**1.5J**	ug/L	5.0	1	10/04/17 07:31	10/05/17 18:15	7439-92-1	
Magnesium	**6370**	ug/L	1000	1	10/04/17 07:31	10/05/17 18:15	7439-95-4	
Manganese	**3380**	ug/L	10.0	1	10/04/17 07:31	10/05/17 18:15	7439-96-5	
Nickel	**<40.0**	ug/L	40.0	1	10/04/17 07:31	10/05/17 18:15	7440-02-0	
Potassium	**8550**	ug/L	5000	1	10/04/17 07:31	10/05/17 18:15	7440-09-7	
Sodium	**57700**	ug/L	5000	1	10/04/17 07:31	10/05/17 18:15	7440-23-5	
Zinc	**2.6J**	ug/L	20.0	1	10/04/17 07:31	10/05/17 18:15	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**<0.20**	ug/L	0.20	1	10/03/17 10:40	10/04/17 15:48	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**<1.0**	ug/L	1.0	1		09/28/17 16:01	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/28/17 16:01	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/28/17 16:01	75-25-2	L1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:01	104-51-8	M1
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:01	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/28/17 16:01	56-23-5	L1
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:01	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/28/17 16:01	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/28/17 16:01	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/28/17 16:01	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:01	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:01	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:01	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/28/17 16:01	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 16:01	75-34-3	L2,M0
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 16:01	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:01	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:01	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:01	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/28/17 16:01	78-87-5	M1
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:01	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		09/28/17 16:01	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/28/17 16:01	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:01	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/28/17 16:01	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 16:01	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:01	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/28/17 16:01	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030715

Sample: MW-9B **Lab ID: 7030715006** Collected: 09/21/17 12:20 Received: 09/21/17 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/28/17 16:01	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/28/17 16:01	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/28/17 16:01	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%.	68-153	1		09/28/17 16:01	17060-07-0	
4-Bromofluorobenzene (S)	106	%.	79-124	1		09/28/17 16:01	460-00-4	
Toluene-d8 (S)	99	%.	69-124	1		09/28/17 16:01	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**34.6**	mg/L	1.0	1		10/03/17 12:26		
Alkalinity,Bicarbonate (CaCO3)	**34.6**	mg/L	1.0	1		10/03/17 12:26		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/03/17 12:26		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**60.0**	mg/L	5.0	1		10/04/17 11:23		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**213**	mg/L	10.0	1		09/27/17 14:52		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		09/21/17 23:22	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**117**	mg/L	10.0	5		10/05/17 11:58	16887-00-6	
Sulfate	**21.6**	mg/L	5.0	1		10/05/17 06:07	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	10/05/17 06:53	10/05/17 12:54	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**5.1**	mg/L	0.50	10		09/21/17 22:36	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/21/17 20:15	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	10/03/17 12:00	10/03/17 15:43		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C							
Cyanide	**<10.0**	ug/L	10.0	1	10/05/17 12:54	10/05/17 21:14	57-12-5	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.23**	mg/L	0.10	1		10/04/17 14:53	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
Pace Project No.: 7030715

Sample: MW-9B **Lab ID: 7030715007** Collected: 09/21/17 12:20 Received: 09/21/17 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7							
Aluminum, Dissolved	**<200**	ug/L	200	1		10/06/17 12:21	7429-90-5	
Barium, Dissolved	**95.6J**	ug/L	200	1		10/06/17 12:21	7440-39-3	
Calcium, Dissolved	**14400**	ug/L	1000	1		10/06/17 12:21	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/06/17 12:21	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/06/17 12:21	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		10/06/17 12:21	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/06/17 12:21	7439-92-1	
Magnesium, Dissolved	**5840**	ug/L	1000	1		10/06/17 12:21	7439-95-4	
Manganese, Dissolved	**3480**	ug/L	10.0	1		10/06/17 12:21	7439-96-5	
Nickel, Dissolved	**1.0J**	ug/L	40.0	1		10/06/17 12:21	7440-02-0	
Potassium, Dissolved	**8800**	ug/L	5000	1		10/06/17 12:21	7440-09-7	
Sodium, Dissolved	**59500**	ug/L	5000	1		10/06/17 12:21	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/06/17 12:21	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	10/03/17 10:40	10/04/17 15:24	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		09/21/17 23:23	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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

Project: OLD BETHPAGE
Pace Project No.: 7030715

Sample: OBS-1 **Lab ID: 7030715008** Collected: 09/21/17 14:00 Received: 09/21/17 16:10 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							
Aluminum	**<200**	ug/L	200	1	10/04/17 07:31	10/05/17 18:20	7429-90-5	
Barium	**64.6J**	ug/L	200	1	10/04/17 07:31	10/05/17 18:20	7440-39-3	
Calcium	**24000**	ug/L	1000	1	10/04/17 07:31	10/05/17 18:20	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/04/17 07:31	10/05/17 18:20	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/04/17 07:31	10/05/17 18:20	7440-50-8	
Iron	**53.5**	ug/L	20.0	1	10/04/17 07:31	10/05/17 18:20	7439-89-6	
Lead	**2.0J**	ug/L	5.0	1	10/04/17 07:31	10/05/17 18:20	7439-92-1	
Magnesium	**16300**	ug/L	1000	1	10/04/17 07:31	10/05/17 18:20	7439-95-4	
Manganese	**2780**	ug/L	10.0	1	10/04/17 07:31	10/05/17 18:20	7439-96-5	
Nickel	**3.4J**	ug/L	40.0	1	10/04/17 07:31	10/05/17 18:20	7440-02-0	
Potassium	**24800**	ug/L	5000	1	10/04/17 07:31	10/05/17 18:20	7440-09-7	
Sodium	**72300**	ug/L	5000	1	10/04/17 07:31	10/05/17 18:20	7440-23-5	
Zinc	**2.9J**	ug/L	20.0	1	10/04/17 07:31	10/05/17 18:20	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**0.092J**	ug/L	0.20	1	10/03/17 10:40	10/04/17 15:49	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**<1.0**	ug/L	1.0	1		09/28/17 16:19	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/28/17 16:19	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/28/17 16:19	75-25-2	L1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:19	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:19	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/28/17 16:19	56-23-5	L1
Chlorobenzene	**1.8**	ug/L	1.0	1		09/28/17 16:19	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/28/17 16:19	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/28/17 16:19	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/28/17 16:19	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:19	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:19	541-73-1	
1,4-Dichlorobenzene	**1.2**	ug/L	1.0	1		09/28/17 16:19	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/28/17 16:19	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 16:19	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 16:19	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:19	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:19	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:19	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/28/17 16:19	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:19	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		09/28/17 16:19	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/28/17 16:19	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:19	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/28/17 16:19	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 16:19	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:19	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/28/17 16:19	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

Project: OLD BETHPAGE
Pace Project No.: 7030715

Sample: OBS-1 **Lab ID: 7030715008** Collected: 09/21/17 14:00 Received: 09/21/17 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/28/17 16:19	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/28/17 16:19	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/28/17 16:19	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%.	68-153	1		09/28/17 16:19	17060-07-0	
4-Bromofluorobenzene (S)	102	%.	79-124	1		09/28/17 16:19	460-00-4	
Toluene-d8 (S)	95	%.	69-124	1		09/28/17 16:19	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**196**	mg/L	1.0	1		10/03/17 12:31		
Alkalinity,Bicarbonate (CaCO3)	**196**	mg/L	1.0	1		10/03/17 12:31		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/03/17 12:31		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**108**	mg/L	5.0	1		10/04/17 11:51		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**323**	mg/L	10.0	1		09/27/17 14:53		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		09/21/17 23:27	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**123**	mg/L	10.0	5		10/05/17 12:39	16887-00-6	
Sulfate	**45.2**	mg/L	5.0	1		10/05/17 06:20	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**18.9**	mg/L	2.0	20	10/05/17 06:53	10/05/17 12:54	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.24**	mg/L	0.050	1		09/21/17 22:37	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/21/17 20:17	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**8.7**	ug/L	5.0	1	10/03/17 12:00	10/03/17 15:43		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C							
Cyanide	**<10.0**	ug/L	10.0	1	10/05/17 12:54	10/05/17 21:14	57-12-5	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**20.4**	mg/L	2.0	20		10/04/17 15:18	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
Pace Project No.: 7030715

Sample: OBS-1 **Lab ID: 7030715009** Collected: 09/21/17 14:00 Received: 09/21/17 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7							
Aluminum, Dissolved	**<200**	ug/L	200	1		10/06/17 12:26	7429-90-5	
Barium, Dissolved	**60.5J**	ug/L	200	1		10/06/17 12:26	7440-39-3	
Calcium, Dissolved	**21700**	ug/L	1000	1		10/06/17 12:26	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/06/17 12:26	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/06/17 12:26	7440-50-8	
Iron, Dissolved	**51.9**	ug/L	20.0	1		10/06/17 12:26	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/06/17 12:26	7439-92-1	
Magnesium, Dissolved	**14700**	ug/L	1000	1		10/06/17 12:26	7439-95-4	
Manganese, Dissolved	**2680**	ug/L	10.0	1		10/06/17 12:26	7439-96-5	
Nickel, Dissolved	**3.4J**	ug/L	40.0	1		10/06/17 12:26	7440-02-0	
Potassium, Dissolved	**24400**	ug/L	5000	1		10/06/17 12:26	7440-09-7	
Sodium, Dissolved	**72400**	ug/L	5000	1		10/06/17 12:26	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/06/17 12:26	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	**0.070J**	ug/L	0.20	1	10/03/17 10:40	10/04/17 15:25	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		09/21/17 23:27	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
Pace Project No.: 7030715

Sample: LF-1 **Lab ID: 7030715010** Collected: 09/21/17 15:20 Received: 09/21/17 16:10 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							
Aluminum	**<200**	ug/L	200	1	10/04/17 07:31	10/05/17 18:25	7429-90-5	
Barium	**83.0J**	ug/L	200	1	10/04/17 07:31	10/05/17 18:25	7440-39-3	
Calcium	**19000**	ug/L	1000	1	10/04/17 07:31	10/05/17 18:25	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/04/17 07:31	10/05/17 18:25	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/04/17 07:31	10/05/17 18:25	7440-50-8	
Iron	**22400**	ug/L	20.0	1	10/04/17 07:31	10/05/17 18:25	7439-89-6	
Lead	**2.3J**	ug/L	5.0	1	10/04/17 07:31	10/05/17 18:25	7439-92-1	
Magnesium	**16500**	ug/L	1000	1	10/04/17 07:31	10/05/17 18:25	7439-95-4	
Manganese	**4340**	ug/L	10.0	1	10/04/17 07:31	10/05/17 18:25	7439-96-5	
Nickel	**3.8J**	ug/L	40.0	1	10/04/17 07:31	10/05/17 18:25	7440-02-0	
Potassium	**9790**	ug/L	5000	1	10/04/17 07:31	10/05/17 18:25	7440-09-7	
Sodium	**83400**	ug/L	5000	1	10/04/17 07:31	10/05/17 18:25	7440-23-5	
Zinc	**8.1J**	ug/L	20.0	1	10/04/17 07:31	10/05/17 18:25	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**<0.20**	ug/L	0.20	1	10/03/17 10:40	10/04/17 15:51	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**<1.0**	ug/L	1.0	1		09/28/17 16:37	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/28/17 16:37	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/28/17 16:37	75-25-2	L1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:37	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:37	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/28/17 16:37	56-23-5	L1
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:37	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/28/17 16:37	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/28/17 16:37	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/28/17 16:37	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:37	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:37	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:37	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/28/17 16:37	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 16:37	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 16:37	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:37	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:37	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:37	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/28/17 16:37	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:37	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		09/28/17 16:37	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/28/17 16:37	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:37	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/28/17 16:37	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 16:37	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:37	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/28/17 16:37	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030715

Sample: LF-1 **Lab ID: 7030715010** Collected: 09/21/17 15:20 Received: 09/21/17 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/28/17 16:37	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/28/17 16:37	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/28/17 16:37	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%.	68-153	1		09/28/17 16:37	17060-07-0	
4-Bromofluorobenzene (S)	104	%.	79-124	1		09/28/17 16:37	460-00-4	
Toluene-d8 (S)	97	%.	69-124	1		09/28/17 16:37	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**124**	mg/L	1.0	1		10/03/17 12:36		
Alkalinity,Bicarbonate (CaCO3)	**124**	mg/L	1.0	1		10/03/17 12:36		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/03/17 12:36		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**100**	mg/L	5.0	1		10/04/17 11:52		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**348**	mg/L	10.0	1		09/27/17 14:53		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.10**	mg/L	0.10	5		09/21/17 23:27	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**138**	mg/L	10.0	5		10/05/17 12:52	16887-00-6	
Sulfate	**44.3**	mg/L	5.0	1		10/05/17 06:34	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**1.7**	mg/L	0.10	1	10/05/17 06:53	10/05/17 12:55	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.037J**	mg/L	0.050	1		09/21/17 22:38	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**0.017J**	mg/L	0.050	1		09/21/17 20:20	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**3.8J**	ug/L	5.0	1	10/03/17 12:00	10/03/17 15:50		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C							
Cyanide	**<10.0**	ug/L	10.0	1	10/05/17 12:54	10/05/17 21:14	57-12-5	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.83**	mg/L	0.10	1		10/04/17 14:55	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
Pace Project No.: 7030715

Sample: LF-1 **Lab ID: 7030715011** Collected: 09/21/17 15:20 Received: 09/21/17 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7							
Aluminum, Dissolved	**15.6J**	ug/L	200	1		10/06/17 12:32	7429-90-5	
Barium, Dissolved	**72.8J**	ug/L	200	1		10/06/17 12:32	7440-39-3	
Calcium, Dissolved	**17200**	ug/L	1000	1		10/06/17 12:32	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/06/17 12:32	7440-47-3	
Copper, Dissolved	**3.3J**	ug/L	25.0	1		10/06/17 12:32	7440-50-8	
Iron, Dissolved	**19500**	ug/L	20.0	1		10/06/17 12:32	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/06/17 12:32	7439-92-1	
Magnesium, Dissolved	**14800**	ug/L	1000	1		10/06/17 12:32	7439-95-4	
Manganese, Dissolved	**4260**	ug/L	10.0	1		10/06/17 12:32	7439-96-5	
Nickel, Dissolved	**2.7J**	ug/L	40.0	1		10/06/17 12:32	7440-02-0	
Potassium, Dissolved	**10000**	ug/L	5000	1		10/06/17 12:32	7440-09-7	
Sodium, Dissolved	**86400**	ug/L	5000	1		10/06/17 12:32	7440-23-5	
Zinc, Dissolved	**3.1J**	ug/L	20.0	1		10/06/17 12:32	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	10/03/17 10:40	10/04/17 15:27	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.10**	mg/L	0.10	5		09/21/17 23:28	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030715

Sample: TRIP BLANK **Lab ID: 7030715012** Collected: 09/21/17 00:00 Received: 09/21/17 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**<1.0**	ug/L	1.0	1		09/28/17 14:50	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/28/17 14:50	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/28/17 14:50	75-25-2	L1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 14:50	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 14:50	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/28/17 14:50	56-23-5	L1
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 14:50	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/28/17 14:50	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/28/17 14:50	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/28/17 14:50	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 14:50	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 14:50	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 14:50	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/28/17 14:50	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 14:50	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 14:50	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 14:50	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 14:50	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 14:50	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/28/17 14:50	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 14:50	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		09/28/17 14:50	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/28/17 14:50	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/28/17 14:50	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/28/17 14:50	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 14:50	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 14:50	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/28/17 14:50	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/28/17 14:50	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/28/17 14:50	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/28/17 14:50	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	68-153	1		09/28/17 14:50	17060-07-0	
4-Bromofluorobenzene (S)	103	%.	79-124	1		09/28/17 14:50	460-00-4	
Toluene-d8 (S)	99	%.	69-124	1		09/28/17 14:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030715

Sample: MW-5B **Lab ID: 7030715014** Collected: 09/21/17 09:50 Received: 09/21/17 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7							
Aluminum, Dissolved	**<200**	ug/L	200	1		10/06/17 12:48	7429-90-5	
Barium, Dissolved	**36.6J**	ug/L	200	1		10/06/17 12:48	7440-39-3	
Calcium, Dissolved	**12400**	ug/L	1000	1		10/06/17 12:48	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/06/17 12:48	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/06/17 12:48	7440-50-8	
Iron, Dissolved	**<20.0**	ug/L	20.0	1		10/06/17 12:48	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/06/17 12:48	7439-92-1	
Magnesium, Dissolved	**5980**	ug/L	1000	1		10/06/17 12:48	7439-95-4	
Manganese, Dissolved	**5270**	ug/L	10.0	1		10/06/17 12:48	7439-96-5	
Nickel, Dissolved	**2.5J**	ug/L	40.0	1		10/06/17 12:48	7440-02-0	
Potassium, Dissolved	**11000**	ug/L	5000	1		10/06/17 12:48	7440-09-7	
Sodium, Dissolved	**63200**	ug/L	5000	1		10/06/17 12:48	7440-23-5	
Zinc, Dissolved	**1.7J**	ug/L	20.0	1		10/06/17 12:48	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	10/03/17 10:40	10/04/17 15:29	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		09/21/17 23:21	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030715

QC Batch: 42011 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 7030715002, 7030715005, 7030715007, 7030715009, 7030715011, 7030715014

METHOD BLANK: 195868 Matrix: Water
Associated Lab Samples: 7030715002, 7030715005, 7030715007, 7030715009, 7030715011, 7030715014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	10/06/17 11:44	
Barium, Dissolved	ug/L	<200	200	10/06/17 11:44	
Calcium, Dissolved	ug/L	<1000	1000	10/06/17 11:44	
Chromium, Dissolved	ug/L	<10.0	10.0	10/06/17 11:44	
Copper, Dissolved	ug/L	<25.0	25.0	10/06/17 11:44	
Iron, Dissolved	ug/L	<20.0	20.0	10/06/17 11:44	
Lead, Dissolved	ug/L	<5.0	5.0	10/06/17 11:44	
Magnesium, Dissolved	ug/L	<1000	1000	10/06/17 11:44	
Manganese, Dissolved	ug/L	<10.0	10.0	10/06/17 11:44	
Nickel, Dissolved	ug/L	<40.0	40.0	10/06/17 11:44	
Potassium, Dissolved	ug/L	<5000	5000	10/06/17 11:44	
Sodium, Dissolved	ug/L	<5000	5000	10/06/17 11:44	
Zinc, Dissolved	ug/L	<20.0	20.0	10/06/17 11:44	

LABORATORY CONTROL SAMPLE: 195869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	5040	101	85-115	
Barium, Dissolved	ug/L	500	500	100	85-115	
Calcium, Dissolved	ug/L	25000	25100	100	85-115	
Chromium, Dissolved	ug/L	250	253	101	85-115	
Copper, Dissolved	ug/L	250	252	101	85-115	
Iron, Dissolved	ug/L	2000	1990	100	85-115	
Lead, Dissolved	ug/L	500	505	101	85-115	
Magnesium, Dissolved	ug/L	25000	24800	99	85-115	
Manganese, Dissolved	ug/L	250	248	99	85-115	
Nickel, Dissolved	ug/L	250	255	102	85-115	
Potassium, Dissolved	ug/L	50000	49000	98	85-115	
Sodium, Dissolved	ug/L	50000	51300	103	85-115	
Zinc, Dissolved	ug/L	1000	1000	100	85-115	

MATRIX SPIKE SAMPLE: 195872

Parameter	Units	7030715002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	5000	5020	100	70-130	
Barium, Dissolved	ug/L	55.7J	500	537	96	70-130	
Calcium, Dissolved	ug/L	34400	25000	57800	94	70-130	
Chromium, Dissolved	ug/L	13.5	250	268	102	70-130	

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REPORT OF LABORATORY ANALYSIS

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

Project: OLD BETHPAGE
Pace Project No.: 7030715

MATRIX SPIKE SAMPLE: 195872

Parameter	Units	7030715002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Copper, Dissolved	ug/L	<25.0	250	250	99	70-130	
Iron, Dissolved	ug/L	7840	2000	9580	87	70-130	
Lead, Dissolved	ug/L	<5.0	500	480	96	70-130	
Magnesium, Dissolved	ug/L	22900	25000	46600	95	70-130	
Manganese, Dissolved	ug/L	184	250	424	96	70-130	
Nickel, Dissolved	ug/L	19.6J	250	268	99	70-130	
Potassium, Dissolved	ug/L	162000	50000	202000	82	70-130	
Sodium, Dissolved	ug/L	535000	50000	571000	72	70-130	
Zinc, Dissolved	ug/L	2.3J	1000	994	99	70-130	

MATRIX SPIKE SAMPLE: 195874

Parameter	Units	7030815014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	14.2J	5000	4920	98	70-130	
Barium, Dissolved	ug/L	51.2J	500	522	94	70-130	
Calcium, Dissolved	ug/L	17000	25000	39700	91	70-130	
Chromium, Dissolved	ug/L	2.2J	250	263	104	70-130	
Copper, Dissolved	ug/L	<25.0	250	244	97	70-130	
Iron, Dissolved	ug/L	9140	2000	10800	85	70-130	
Lead, Dissolved	ug/L	<5.0	500	482	96	70-130	
Magnesium, Dissolved	ug/L	11900	25000	35300	94	70-130	
Manganese, Dissolved	ug/L	37.3	250	270	93	70-130	
Nickel, Dissolved	ug/L	13.7J	250	265	100	70-130	
Potassium, Dissolved	ug/L	91200	50000	137000	91	70-130	
Sodium, Dissolved	ug/L	274000	50000	317000	86	70-130	
Zinc, Dissolved	ug/L	1.6J	1000	992	99	70-130	

SAMPLE DUPLICATE: 195871

Parameter	Units	7030715002 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	55.7J	55.9J		
Calcium, Dissolved	ug/L	34400	34300	0	
Chromium, Dissolved	ug/L	13.5	13.7	1	
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	7840	7850	0	
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	22900	22800	0	
Manganese, Dissolved	ug/L	184	183	0	
Nickel, Dissolved	ug/L	19.6J	19.7J		
Potassium, Dissolved	ug/L	162000	162000	0	
Sodium, Dissolved	ug/L	535000	536000	0	
Zinc, Dissolved	ug/L	2.3J	2.1J		

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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
Pace Project No.: 7030715

SAMPLE DUPLICATE: 195873

Parameter	Units	7030815014 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	14.2J	<200		
Barium, Dissolved	ug/L	51.2J	51.0J		
Calcium, Dissolved	ug/L	17000	16900	1	
Chromium, Dissolved	ug/L	2.2J	2.2J		
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	9140	9100	0	
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	11900	11900	1	
Manganese, Dissolved	ug/L	37.3	37.4	0	
Nickel, Dissolved	ug/L	13.7J	13.2J		
Potassium, Dissolved	ug/L	91200	91900	1	
Sodium, Dissolved	ug/L	274000	272000	1	
Zinc, Dissolved	ug/L	1.6J	1.5J		

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REPORT OF LABORATORY ANALYSIS

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

Project: OLD BETHPAGE
Pace Project No.: 7030715

QC Batch: 41490 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

METHOD BLANK: 193205 Matrix: Water
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	10/04/17 15:35	

LABORATORY CONTROL SAMPLE: 193206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.1	106	85-115	

MATRIX SPIKE SAMPLE: 193207

Parameter	Units	7030715001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.0	103	70-130	

SAMPLE DUPLICATE: 193208

Parameter	Units	7030715001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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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
Pace Project No.: 7030715

QC Batch: 41489 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 7030715002, 7030715005, 7030715007, 7030715009, 7030715011, 7030715014

METHOD BLANK: 193201 Matrix: Water
Associated Lab Samples: 7030715002, 7030715005, 7030715007, 7030715009, 7030715011, 7030715014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.20	0.20	10/04/17 15:13	

LABORATORY CONTROL SAMPLE: 193202

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

MATRIX SPIKE SAMPLE: 193203

Parameter	Units	7030715002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	<0.20	1	1.1	106	70-130	

SAMPLE DUPLICATE: 193204

Parameter	Units	7030715002 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
Pace Project No.: 7030715

QC Batch: 41648 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

METHOD BLANK: 194038 Matrix: Water
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	10/05/17 17:00	
Barium	ug/L	<200	200	10/05/17 17:00	
Calcium	ug/L	<1000	1000	10/05/17 17:00	
Chromium	ug/L	<10.0	10.0	10/05/17 17:00	
Copper	ug/L	<25.0	25.0	10/05/17 17:00	
Iron	ug/L	<20.0	20.0	10/05/17 17:00	
Lead	ug/L	<5.0	5.0	10/05/17 17:00	
Magnesium	ug/L	<1000	1000	10/05/17 17:00	
Manganese	ug/L	2.9J	10.0	10/05/17 17:00	
Nickel	ug/L	<40.0	40.0	10/05/17 17:00	
Potassium	ug/L	<5000	5000	10/05/17 17:00	
Sodium	ug/L	<5000	5000	10/05/17 17:00	
Zinc	ug/L	1.5J	20.0	10/05/17 17:00	

LABORATORY CONTROL SAMPLE: 194039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	4980	100	85-115	
Barium	ug/L	500	505	101	85-115	
Calcium	ug/L	25000	25000	100	85-115	
Chromium	ug/L	250	258	103	85-115	
Copper	ug/L	250	256	102	85-115	
Iron	ug/L	2000	1990	100	85-115	
Lead	ug/L	500	504	101	85-115	
Magnesium	ug/L	25000	24700	99	85-115	
Manganese	ug/L	250	254	101	85-115	
Nickel	ug/L	250	258	103	85-115	
Potassium	ug/L	50000	49300	99	85-115	
Sodium	ug/L	50000	50200	100	85-115	
Zinc	ug/L	1000	1020	102	85-115	

MATRIX SPIKE SAMPLE: 194041

Parameter	Units	7030770001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	748	5000	6340	112	70-130	
Barium	ug/L	992	500	1400	81	70-130	
Calcium	ug/L	54800	25000	78400	94	70-130	
Chromium	ug/L	14.0	250	269	102	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
Pace Project No.: 7030715

MATRIX SPIKE SAMPLE: 194041

Parameter	Units	7030770001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	59.2	250	317	103	70-130	
Iron	ug/L	1190	2000	3180	100	70-130	
Lead	ug/L	7.1	500	518	102	70-130	
Magnesium	ug/L	10300	25000	35200	100	70-130	
Manganese	ug/L	132	250	383	100	70-130	
Nickel	ug/L	<40.0	250	275	104	70-130	
Potassium	ug/L	8530	50000	58400	100	70-130	
Sodium	ug/L	107000	50000	155000	97	70-130	
Zinc	ug/L	104	1000	1150	104	70-130	

SAMPLE DUPLICATE: 194040

Parameter	Units	7030770001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	748	696	7	
Barium	ug/L	992	917	8	
Calcium	ug/L	54800	54500	0	
Chromium	ug/L	14.0	7.5J		
Copper	ug/L	59.2	58.4	1	
Iron	ug/L	1190	1170	2	
Lead	ug/L	7.1	6.8	4	
Magnesium	ug/L	10300	10300	0	
Manganese	ug/L	132	131	1	
Nickel	ug/L	<40.0	15.6J		
Potassium	ug/L	8530	8560	0	
Sodium	ug/L	107000	105000	1	
Zinc	ug/L	104	103	1	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030715

QC Batch: 40917 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010, 7030715012

METHOD BLANK: 190508 Matrix: Water
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010, 7030715012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	09/28/17 12:18	
1,1-Dichloroethane	ug/L	<1.0	1.0	09/28/17 12:18	
1,1-Dichloroethene	ug/L	<1.0	1.0	09/28/17 12:18	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	09/28/17 12:18	
1,2-Dichloroethane	ug/L	<1.0	1.0	09/28/17 12:18	
1,2-Dichloropropane	ug/L	<1.0	1.0	09/28/17 12:18	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	09/28/17 12:18	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	09/28/17 12:18	
Benzene	ug/L	<1.0	1.0	09/28/17 12:18	
Bromodichloromethane	ug/L	<1.0	1.0	09/28/17 12:18	
Bromoform	ug/L	<1.0	1.0	09/28/17 12:18	
Carbon tetrachloride	ug/L	<1.0	1.0	09/28/17 12:18	
Chlorobenzene	ug/L	<1.0	1.0	09/28/17 12:18	
Chloroethane	ug/L	<1.0	1.0	09/28/17 12:18	
Chloroform	ug/L	<1.0	1.0	09/28/17 12:18	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	09/28/17 12:18	
Dibromochloromethane	ug/L	<1.0	1.0	09/28/17 12:18	
Dichlorodifluoromethane	ug/L	<1.0	1.0	09/28/17 12:18	
Ethylbenzene	ug/L	<1.0	1.0	09/28/17 12:18	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	09/28/17 12:18	
m&p-Xylene	ug/L	<2.0	2.0	09/28/17 12:18	
Methylene Chloride	ug/L	<1.0	1.0	09/28/17 12:18	
n-Butylbenzene	ug/L	<1.0	1.0	09/28/17 12:18	
o-Xylene	ug/L	<1.0	1.0	09/28/17 12:18	
tert-Butylbenzene	ug/L	<1.0	1.0	09/28/17 12:18	
Tetrachloroethene	ug/L	<1.0	1.0	09/28/17 12:18	
Toluene	ug/L	<1.0	1.0	09/28/17 12:18	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	09/28/17 12:18	
Trichloroethene	ug/L	<1.0	1.0	09/28/17 12:18	
Vinyl chloride	ug/L	<1.0	1.0	09/28/17 12:18	
Xylene (Total)	ug/L	<2.0	2.0	09/28/17 12:18	
1,2-Dichloroethane-d4 (S)	%.	102	68-153	09/28/17 12:18	
4-Bromofluorobenzene (S)	%.	102	79-124	09/28/17 12:18	
Toluene-d8 (S)	%.	98	69-124	09/28/17 12:18	

LABORATORY CONTROL SAMPLE: 190509

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.3	115	65-118	CH
1,1-Dichloroethane	ug/L	50	41.2	82	83-151	L2

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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
Pace Project No.: 7030715

LABORATORY CONTROL SAMPLE: 190509

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	47.1	94	45-146	
1,2-Dichlorobenzene	ug/L	50	45.6	91	74-113	
1,2-Dichloroethane	ug/L	50	53.0	106	74-129	
1,2-Dichloropropane	ug/L	50	41.6	83	75-117	
1,3-Dichlorobenzene	ug/L	50	47.0	94	71-112	
1,4-Dichlorobenzene	ug/L	50	47.3	95	71-113	
Benzene	ug/L	50	45.9	92	73-119	
Bromodichloromethane	ug/L	50	54.9	110	78-117	
Bromoform	ug/L	50	62.2	124	65-122	CH,L1
Carbon tetrachloride	ug/L	50	60.9	122	59-120	CH,L1
Chlorobenzene	ug/L	50	52.5	105	75-113	
Chloroethane	ug/L	50	36.8	74	49-151	
Chloroform	ug/L	50	48.3	97	72-122	
cis-1,2-Dichloroethene	ug/L	50	44.7	89	72-121	
Dibromochloromethane	ug/L	50	58.5	117	70-120	
Dichlorodifluoromethane	ug/L	50	30.3	61	22-154	CH
Ethylbenzene	ug/L	50	51.8	104	70-113	
Isopropylbenzene (Cumene)	ug/L	50	42.3	85	67-115	
m&p-Xylene	ug/L	100	103	103	72-115	
Methylene Chloride	ug/L	50	37.9	76	61-142	
n-Butylbenzene	ug/L	50	43.2	86	73-107	
o-Xylene	ug/L	50	52.4	105	73-117	
tert-Butylbenzene	ug/L	50	44.0	88	68-100	
Tetrachloroethene	ug/L	50	56.9	114	60-128	CH
Toluene	ug/L	50	48.9	98	72-119	
trans-1,2-Dichloroethene	ug/L	50	44.2	88	56-142	
Trichloroethene	ug/L	50	51.7	103	69-117	
Vinyl chloride	ug/L	50	34.8	70	43-143	
Xylene (Total)	ug/L	150	156	104	71-109	
1,2-Dichloroethane-d4 (S)	%.			105	68-153	
4-Bromofluorobenzene (S)	%.			104	79-124	
Toluene-d8 (S)	%.			96	69-124	

MATRIX SPIKE SAMPLE: 190875

Parameter	Units	7030715006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	51.9	104	65-118	CH
1,1-Dichloroethane	ug/L	<1.0	50	36.6	73	83-151	M0
1,1-Dichloroethene	ug/L	<1.0	50	42.8	86	45-146	
1,2-Dichlorobenzene	ug/L	<1.0	50	40.9	82	74-113	
1,2-Dichloroethane	ug/L	<1.0	50	45.6	91	74-129	
1,2-Dichloropropane	ug/L	<1.0	50	36.1	72	75-117	M1
1,3-Dichlorobenzene	ug/L	<1.0	50	40.1	80	71-112	
1,4-Dichlorobenzene	ug/L	<1.0	50	40.2	80	71-113	
Benzene	ug/L	<1.0	50	40.6	81	73-119	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030715

MATRIX SPIKE SAMPLE: 190875

Parameter	Units	7030715006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	<1.0	50	46.4	93	78-117	
Bromoform	ug/L	<1.0	50	51.5	103	65-122	CH
Carbon tetrachloride	ug/L	<1.0	50	54.9	110	59-120	CH
Chlorobenzene	ug/L	<1.0	50	47.0	94	75-113	
Chloroethane	ug/L	<1.0	50	32.6	65	49-151	
Chloroform	ug/L	<1.0	50	43.0	86	72-122	
cis-1,2-Dichloroethene	ug/L	<1.0	50	40.0	80	72-121	
Dibromochloromethane	ug/L	<1.0	50	49.9	100	70-120	
Dichlorodifluoromethane	ug/L	<1.0	50	34.1	68	22-154	CH
Ethylbenzene	ug/L	<1.0	50	45.9	92	70-113	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	37.2	74	67-115	
m&p-Xylene	ug/L	<2.0	100	89.7	90	72-115	
Methylene Chloride	ug/L	<1.0	50	34.0	68	61-142	
n-Butylbenzene	ug/L	<1.0	50	32.4	65	73-107	M1
o-Xylene	ug/L	<1.0	50	45.6	91	73-117	
tert-Butylbenzene	ug/L	<1.0	50	37.1	74	68-100	
Tetrachloroethene	ug/L	<1.0	50	52.5	105	60-128	CH
Toluene	ug/L	<1.0	50	43.4	87	72-119	
trans-1,2-Dichloroethene	ug/L	<1.0	50	40.8	82	56-142	
Trichloroethene	ug/L	<1.0	50	47.4	95	69-117	
Vinyl chloride	ug/L	<1.0	50	31.0	62	43-143	
Xylene (Total)	ug/L	<2.0	150	135	90	71-109	
1,2-Dichloroethane-d4 (S)	%.				102	68-153	
4-Bromofluorobenzene (S)	%.				104	79-124	
Toluene-d8 (S)	%.				97	69-124	

SAMPLE DUPLICATE: 190874

Parameter	Units	7030715001 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	1.3	1.1	17	
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,4-Dichlorobenzene	ug/L	3.3	3.3	0	
Benzene	ug/L	3.4	3.2	6	
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	2.7	2.7	1	
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
cis-1,2-Dichloroethene	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
Pace Project No.: 7030715

SAMPLE DUPLICATE: 190874

Parameter	Units	7030715001 Result	Dup Result	RPD	Qualifiers
Dibromochloromethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	9.7	9.1	7	
m&p-Xylene	ug/L	2.3	2.0J		
Methylene Chloride	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	<1.0	<1.0		
o-Xylene	ug/L	1.5	1.6	2	
tert-Butylbenzene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	3.8	3.6	6	
1,2-Dichloroethane-d4 (S)	%.	103	101	2	
4-Bromofluorobenzene (S)	%.	102	104	3	
Toluene-d8 (S)	%.	96	97	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
Pace Project No.: 7030715

QC Batch: 41393 Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

METHOD BLANK: 192889 Matrix: Water
Associated Lab Samples: 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	10/03/17 11:02	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	10/03/17 11:02	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	10/03/17 11:02	

LABORATORY CONTROL SAMPLE: 192890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	25.5	102	80-120	

MATRIX SPIKE SAMPLE: 192892

Parameter	Units	7030641001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	70.2	50	116	92	75-125	
Alkalinity,Bicarbonate (CaCO3)	mg/L	70.2	50	62.2	-16	75-125	M0
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0		54.0			

SAMPLE DUPLICATE: 192891

Parameter	Units	7030641001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	70.2	58.4	18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	70.2	58.4	18	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030715

QC Batch: 41608 Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity, High Level
Associated Lab Samples: 7030715001

METHOD BLANK: 193891 Matrix: Water
Associated Lab Samples: 7030715001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	1.0J	5.0	10/04/17 07:43	

LABORATORY CONTROL SAMPLE: 193892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	125	127	102	80-120	

MATRIX SPIKE SAMPLE: 193965

Parameter	Units	7030715001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	1590	250	1870	113	75-125	

SAMPLE DUPLICATE: 193964

Parameter	Units	7030715001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	1590	1630	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030715

QC Batch: 41611 Analysis Method: SM22 2340C
QC Batch Method: SM22 2340C Analysis Description: 2340C Hardness, Total
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

METHOD BLANK: 193903 Matrix: Water
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness	mg/L	<5.0	5.0	10/04/17 11:04	

LABORATORY CONTROL SAMPLE: 193904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness	mg/L	100	103	103	90-110	

MATRIX SPIKE SAMPLE: 193905

Parameter	Units	7030715001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Hardness	mg/L	147	667	647	75	75-125	

SAMPLE DUPLICATE: 193906

Parameter	Units	7030715001 Result	Dup Result	RPD	Qualifiers
Total Hardness	mg/L	147	147	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030715

QC Batch: 40766 Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

METHOD BLANK: 189769 Matrix: Water
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	09/27/17 14:46	

LABORATORY CONTROL SAMPLE: 189770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	450	90	85-115	

MATRIX SPIKE SAMPLE: 189772

Parameter	Units	7030715004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	210	300	502	97	75-125	

MATRIX SPIKE SAMPLE: 189774

Parameter	Units	7030577014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	38.0	300	319	94	75-125	

SAMPLE DUPLICATE: 189771

Parameter	Units	7030715004 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	210	214	2	

SAMPLE DUPLICATE: 189773

Parameter	Units	7030577014 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	38.0	34.0	11	

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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
Pace Project No.: 7030715

QC Batch: 40075 Analysis Method: SM22 3500-Cr B
QC Batch Method: SM22 3500-Cr B Analysis Description: Chromium, Hexavalent by 3500
Associated Lab Samples: 7030715001, 7030715002, 7030715003, 7030715004, 7030715005, 7030715006, 7030715007, 7030715008, 7030715009, 7030715010, 7030715011, 7030715014

METHOD BLANK: 186687 Matrix: Water
Associated Lab Samples: 7030715001, 7030715002, 7030715003, 7030715004, 7030715005, 7030715006, 7030715007, 7030715008, 7030715009, 7030715010, 7030715011, 7030715014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	09/21/17 23:16	

LABORATORY CONTROL SAMPLE: 186688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.2	0.20	98	85-115	

MATRIX SPIKE SAMPLE: 186689

Parameter	Units	7030715001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.10	1	0.94	94	75-125	

SAMPLE DUPLICATE: 186690

Parameter	Units	7030715001 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.10	<0.10		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030715

QC Batch: 41758 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

METHOD BLANK: 194519 Matrix: Water
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	0.24J	2.0	10/05/17 04:59	
Sulfate	mg/L	<5.0	5.0	10/05/17 04:59	

LABORATORY CONTROL SAMPLE: 194520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.0	100	90-110	
Sulfate	mg/L	10	10	100	90-110	

MATRIX SPIKE SAMPLE: 194521

Parameter	Units	7031075001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	13.8	10	24.4	106	80-120	
Sulfate	mg/L	<5.0	10	10.3	103	80-120	

SAMPLE DUPLICATE: 194522

Parameter	Units	7031075001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	13.8	13.3	4	
Sulfate	mg/L	<5.0	<5.0		

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030715

QC Batch: 41791 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

METHOD BLANK: 194765 Matrix: Water
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	0.10	10/05/17 12:48	

LABORATORY CONTROL SAMPLE: 194766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	4.1	104	90-110	

MATRIX SPIKE SAMPLE: 194767

Parameter	Units	7030715001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	192	4	198	134	90-110	M6

MATRIX SPIKE SAMPLE: 194769

Parameter	Units	7031350001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.3	4	5.3	100	90-110	

SAMPLE DUPLICATE: 194768

Parameter	Units	7030715001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	192	193	0	

SAMPLE DUPLICATE: 194770

Parameter	Units	7031350001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.3	1.3	1	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030715

QC Batch: 40056 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrite, Unpres.
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

METHOD BLANK: 186550 Matrix: Water
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	09/21/17 20:03	

LABORATORY CONTROL SAMPLE: 186551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.1	107	90-110	

MATRIX SPIKE SAMPLE: 186552

Parameter	Units	7030715003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	0.056	.5	0.60	108	90-110	

MATRIX SPIKE SAMPLE: 186554

Parameter	Units	7030715008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	.5	0.53	105	90-110	

SAMPLE DUPLICATE: 186553

Parameter	Units	7030715003 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	0.056	0.056	1	

SAMPLE DUPLICATE: 186555

Parameter	Units	7030715008 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030715

QC Batch: 40068 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

METHOD BLANK: 186662 Matrix: Water
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	09/21/17 22:09	

LABORATORY CONTROL SAMPLE: 186663

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

MATRIX SPIKE SAMPLE: 186664

Parameter	Units	7030577009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	.5	0.52	104	90-110	

MATRIX SPIKE SAMPLE: 186666

Parameter	Units	7030577015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1.3	.5	1.7	95	90-110	

SAMPLE DUPLICATE: 186665

Parameter	Units	7030577009 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 186667

Parameter	Units	7030577015 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1.3	1.3	0	

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REPORT OF LABORATORY ANALYSIS

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

Project: OLD BETHPAGE
Pace Project No.: 7030715

QC Batch: 41482 Analysis Method: EPA 420.1
QC Batch Method: EPA 420.1 Analysis Description: 420.1 Phenolics Macro
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

METHOD BLANK: 193166 Matrix: Water
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	5.0	10/03/17 15:28	

LABORATORY CONTROL SAMPLE: 193167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	30	28.4	95	90-110	

MATRIX SPIKE SAMPLE: 193168

Parameter	Units	7030577004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	3.4J	20	18.6	76	75-125	

MATRIX SPIKE SAMPLE: 193170

Parameter	Units	7030577012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	4.3J	20	21.3	85	75-125	

SAMPLE DUPLICATE: 193169

Parameter	Units	7030577004 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	3.4J	1.6J		

SAMPLE DUPLICATE: 193171

Parameter	Units	7030577012 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	4.3J	3.8J		

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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
Pace Project No.: 7030715

QC Batch: 41872 Analysis Method: SM22 4500-CN-E
QC Batch Method: SM20/22 4500-CN-C Analysis Description: 4500 CNE Cyanide, Total
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

METHOD BLANK: 195054 Matrix: Water
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	<10.0	10.0	10/05/17 21:13	

LABORATORY CONTROL SAMPLE: 195055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	64.1	85	85-115	

MATRIX SPIKE SAMPLE: 195056

Parameter	Units	7030715004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<10.0	100	79.7	79	75-125	

SAMPLE DUPLICATE: 195057

Parameter	Units	7030715004 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	<10.0	<10.0		

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REPORT OF LABORATORY ANALYSIS

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

Project: OLD BETHPAGE
Pace Project No.: 7030715

QC Batch: 41688 Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

METHOD BLANK: 194150 Matrix: Water
Associated Lab Samples: 7030715001, 7030715003, 7030715004, 7030715006, 7030715008, 7030715010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	0.10	10/04/17 14:40	

LABORATORY CONTROL SAMPLE: 194151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 194152

Parameter	Units	7031063001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	18.8	10	28.7	99	75-125	

SAMPLE DUPLICATE: 194153

Parameter	Units	7031063001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	18.8	18.2	3	

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: OLD BETHPAGE
Pace Project No.: 7030715

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.

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.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE
Pace Project No.: 7030715

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7030715001	**LF-2**	EPA 200.7	41648	EPA 200.7	41660
7030715003	**MW-5B**	EPA 200.7	41648	EPA 200.7	41660
7030715004	**MW-9C**	EPA 200.7	41648	EPA 200.7	41660
7030715006	**MW-9B**	EPA 200.7	41648	EPA 200.7	41660
7030715008	**OBS-1**	EPA 200.7	41648	EPA 200.7	41660
7030715010	**LF-1**	EPA 200.7	41648	EPA 200.7	41660
7030715002	**LF-2**	EPA 200.7	42011		
7030715005	**MW-9C**	EPA 200.7	42011		
7030715007	**MW-9B**	EPA 200.7	42011		
7030715009	**OBS-1**	EPA 200.7	42011		
7030715011	**LF-1**	EPA 200.7	42011		
7030715014	**MW-5B**	EPA 200.7	42011		
7030715001	**LF-2**	EPA 245.1	41490	EPA 245.1	41517
7030715003	**MW-5B**	EPA 245.1	41490	EPA 245.1	41517
7030715004	**MW-9C**	EPA 245.1	41490	EPA 245.1	41517
7030715006	**MW-9B**	EPA 245.1	41490	EPA 245.1	41517
7030715008	**OBS-1**	EPA 245.1	41490	EPA 245.1	41517
7030715010	**LF-1**	EPA 245.1	41490	EPA 245.1	41517
7030715002	**LF-2**	EPA 245.1	41489	EPA 245.1	41516
7030715005	**MW-9C**	EPA 245.1	41489	EPA 245.1	41516
7030715007	**MW-9B**	EPA 245.1	41489	EPA 245.1	41516
7030715009	**OBS-1**	EPA 245.1	41489	EPA 245.1	41516
7030715011	**LF-1**	EPA 245.1	41489	EPA 245.1	41516
7030715014	**MW-5B**	EPA 245.1	41489	EPA 245.1	41516
7030715001	**LF-2**	EPA 8260C/5030C	40917		
7030715003	**MW-5B**	EPA 8260C/5030C	40917		
7030715004	**MW-9C**	EPA 8260C/5030C	40917		
7030715006	**MW-9B**	EPA 8260C/5030C	40917		
7030715008	**OBS-1**	EPA 8260C/5030C	40917		
7030715010	**LF-1**	EPA 8260C/5030C	40917		
7030715012	**TRIP BLANK**	EPA 8260C/5030C	40917		
7030715003	**MW-5B**	SM22 2320B	41393		
7030715004	**MW-9C**	SM22 2320B	41393		
7030715006	**MW-9B**	SM22 2320B	41393		
7030715008	**OBS-1**	SM22 2320B	41393		
7030715010	**LF-1**	SM22 2320B	41393		
7030715001	**LF-2**	SM22 2320B	41608		
7030715001	**LF-2**	SM22 2340C	41611		
7030715003	**MW-5B**	SM22 2340C	41611		
7030715004	**MW-9C**	SM22 2340C	41611		
7030715006	**MW-9B**	SM22 2340C	41611		
7030715008	**OBS-1**	SM22 2340C	41611		
7030715010	**LF-1**	SM22 2340C	41611		
7030715001	**LF-2**	SM22 2540C	40766		
7030715003	**MW-5B**	SM22 2540C	40766		

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
Pace Project No.: 7030715

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7030715004	**MW-9C**	SM22 2540C	40766		
7030715006	**MW-9B**	SM22 2540C	40766		
7030715008	**OBS-1**	SM22 2540C	40766		
7030715010	**LF-1**	SM22 2540C	40766		
7030715001	**LF-2**	SM22 3500-Cr B	40075		
7030715002	**LF-2**	SM22 3500-Cr B	40075		
7030715003	**MW-5B**	SM22 3500-Cr B	40075		
7030715004	**MW-9C**	SM22 3500-Cr B	40075		
7030715005	**MW-9C**	SM22 3500-Cr B	40075		
7030715006	**MW-9B**	SM22 3500-Cr B	40075		
7030715007	**MW-9B**	SM22 3500-Cr B	40075		
7030715008	**OBS-1**	SM22 3500-Cr B	40075		
7030715009	**OBS-1**	SM22 3500-Cr B	40075		
7030715010	**LF-1**	SM22 3500-Cr B	40075		
7030715011	**LF-1**	SM22 3500-Cr B	40075		
7030715014	**MW-5B**	SM22 3500-Cr B	40075		
7030715001	**LF-2**	EPA 300.0	41758		
7030715003	**MW-5B**	EPA 300.0	41758		
7030715004	**MW-9C**	EPA 300.0	41758		
7030715006	**MW-9B**	EPA 300.0	41758		
7030715008	**OBS-1**	EPA 300.0	41758		
7030715010	**LF-1**	EPA 300.0	41758		
7030715001	**LF-2**	EPA 351.2	41791	EPA 351.2	41799
7030715003	**MW-5B**	EPA 351.2	41791	EPA 351.2	41799
7030715004	**MW-9C**	EPA 351.2	41791	EPA 351.2	41799
7030715006	**MW-9B**	EPA 351.2	41791	EPA 351.2	41799
7030715008	**OBS-1**	EPA 351.2	41791	EPA 351.2	41799
7030715010	**LF-1**	EPA 351.2	41791	EPA 351.2	41799
7030715001	**LF-2**	EPA 353.2	40068		
7030715003	**MW-5B**	EPA 353.2	40068		
7030715004	**MW-9C**	EPA 353.2	40068		
7030715006	**MW-9B**	EPA 353.2	40068		
7030715008	**OBS-1**	EPA 353.2	40068		
7030715010	**LF-1**	EPA 353.2	40068		
7030715001	**LF-2**	EPA 353.2	40056		
7030715003	**MW-5B**	EPA 353.2	40056		
7030715004	**MW-9C**	EPA 353.2	40056		
7030715006	**MW-9B**	EPA 353.2	40056		
7030715008	**OBS-1**	EPA 353.2	40056		
7030715010	**LF-1**	EPA 353.2	40056		
7030715001	**LF-2**	EPA 420.1	41482	EPA 420.1	41503
7030715003	**MW-5B**	EPA 420.1	41482	EPA 420.1	41503
7030715004	**MW-9C**	EPA 420.1	41482	EPA 420.1	41503
7030715006	**MW-9B**	EPA 420.1	41482	EPA 420.1	41503
7030715008	**OBS-1**	EPA 420.1	41482	EPA 420.1	41503
7030715010	**LF-1**	EPA 420.1	41482	EPA 420.1	41503

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
Pace Project No.: 7030715

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7030715001	**LF-2**	SM20/22 4500-CN-C	41872	SM22 4500-CN-E	41953
7030715003	**MW-5B**	SM20/22 4500-CN-C	41872	SM22 4500-CN-E	41953
7030715004	**MW-9C**	SM20/22 4500-CN-C	41872	SM22 4500-CN-E	41953
7030715006	**MW-9B**	SM20/22 4500-CN-C	41872	SM22 4500-CN-E	41953
7030715008	**OBS-1**	SM20/22 4500-CN-C	41872	SM22 4500-CN-E	41953
7030715010	**LF-1**	SM20/22 4500-CN-C	41872	SM22 4500-CN-E	41953
7030715001	**LF-2**	SM22 4500 NH3 H	41688		
7030715003	**MW-5B**	SM22 4500 NH3 H	41688		
7030715004	**MW-9C**	SM22 4500 NH3 H	41688		
7030715006	**MW-9B**	SM22 4500 NH3 H	41688		
7030715008	**OBS-1**	SM22 4500 NH3 H	41688		
7030715010	**LF-1**	SM22 4500 NH3 H	41688		

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WO#:7030715

CHAIN OF CUSTODY / Analytical Request Document

LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

2196910

Section A Required Client Information:

Company: DTB	Report To:	Attention:
Address: 330 Crossways Park Dr. Woodbury NY 11797	Copy To: SAME	Company Name: SAME
Email To: Acarlsen@dbeng.com	Purchase Order No.:	Address: SAME
Phone: 516-364-9890 Fax:	Project Name: old Bethpage	Pace Quote Reference:
Requested Due Date/TAT: Standard	Project Number: 3617	Pace Project Manager: Jen Aracri
		Pace Profile #:

Section C Invoice Information:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs	Leachate indicators	total metals	Dissolved metals (F)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	QT							2				2						N	N	N	N		
2	LF-1	WT	G			9/21/17	0825		7	1	1	2	2	1										
3	MW-5B	WT	G			9/21/17	0950		7	1	1	2	2	1										
4	Blind Duplicate	WT	G			9/21/17	0000		7	1	1	2	2	1										SAMPLE CANCELED BY CLIENT 9/21/17 SK
5	MW-9C	WT	G			9/21/17	1130		7	1	1	2	2	1										
6	MW-9B	WT	G			9/21/17	1200		7	1	1	2	2	1										
7	OBS-1	WT	G			9/21/17	1400		7	1	1	2	2	1										
8	LF-1	WT	G			9/21/17	1520		7	1	1	2	2	1										
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
⊗ Dissolved metals filtered in-field, marked w/ "F"	DTB	9/21/17			9/21	16:10	7.6	Y	N	Y
⊗ Only analyze hex. chromium if total chromium exceeds class GA standards										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Paul Ramsey

SIGNATURE of SAMPLER: Paul Ramsey DATE Signed (MM/DD/YY): 9/21/17

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical™ Long Island Laboratory

Client Name: Proje

WO#: 7030715

PM: JSA Due Date: 10/05/17

CLIENT: TOY

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

Tracking #:

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

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

Type of Ice: (Wet) Blue None

Thermometer Used: TH092 Correction Factor: +0.1

☑ Samples on ice, cooling process has begun

Cooler Temperature (°C): 7.6 Cooler Temperature Corrected (°C): 7.7 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: SB 9/21/17

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 # HC601354				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:	☐Yes	☐No	☑N/A	14. 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.

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

October 18, 2017

Anthony Caniano
Dvirka & Bartilucci
330 Crossways Park Drive
Woodbury, NY 11797

RE: Project: OLD BETHPAGE
Pace Project No.: 7030815

Dear Anthony Caniano:
Enclosed are the analytical results for sample(s) received by the laboratory on September 22, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Jennifer Aracri
jennifer.aracri@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Donna Brown, Dvirka & Bartilucci

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

CERTIFICATIONS

Project: OLD BETHPAGE
Pace Project No.: 7030815

Long Island Certification IDs

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

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030815

Sample: MW-6F **Lab ID: 7030815001** Collected: 09/22/17 09:15 Received: 09/22/17 14:40 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							
Aluminum	**166J**	ug/L	200	1	10/05/17 10:27	10/06/17 17:27	7429-90-5	
Barium	**223**	ug/L	200	1	10/05/17 10:27	10/06/17 17:27	7440-39-3	
Calcium	**37100**	ug/L	1000	1	10/05/17 10:27	10/06/17 17:27	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/05/17 10:27	10/06/17 17:27	7440-47-3	
Copper	**2.5J**	ug/L	25.0	1	10/05/17 10:27	10/06/17 17:27	7440-50-8	B
Iron	**63.2**	ug/L	20.0	1	10/05/17 10:27	10/06/17 17:27	7439-89-6	B
Lead	**<5.0**	ug/L	5.0	1	10/05/17 10:27	10/06/17 17:27	7439-92-1	
Magnesium	**14600**	ug/L	1000	1	10/05/17 10:27	10/06/17 17:27	7439-95-4	
Manganese	**116**	ug/L	10.0	1	10/05/17 10:27	10/06/17 17:27	7439-96-5	
Nickel	**22.2J**	ug/L	40.0	1	10/05/17 10:27	10/06/17 17:27	7440-02-0	B
Potassium	**7750**	ug/L	5000	1	10/05/17 10:27	10/06/17 17:27	7440-09-7	
Sodium	**132000**	ug/L	5000	1	10/05/17 10:27	10/06/17 17:27	7440-23-5	
Zinc	**47.4**	ug/L	20.0	1	10/05/17 10:27	10/06/17 17:27	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**0.11J**	ug/L	0.20	1	10/05/17 10:49	10/05/17 17:21	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**<1.0**	ug/L	1.0	1		09/28/17 16:55	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/28/17 16:55	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/28/17 16:55	75-25-2	L1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:55	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:55	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/28/17 16:55	56-23-5	L1
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:55	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/28/17 16:55	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/28/17 16:55	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/28/17 16:55	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:55	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:55	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:55	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/28/17 16:55	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 16:55	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 16:55	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:55	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:55	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:55	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/28/17 16:55	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 16:55	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		09/28/17 16:55	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/28/17 16:55	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:55	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/28/17 16:55	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 16:55	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 16:55	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/28/17 16:55	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030815

Sample: MW-6F **Lab ID: 7030815001** Collected: 09/22/17 09:15 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/28/17 16:55	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/28/17 16:55	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/28/17 16:55	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%.	68-153	1		09/28/17 16:55	17060-07-0	
4-Bromofluorobenzene (S)	103	%.	79-124	1		09/28/17 16:55	460-00-4	
Toluene-d8 (S)	97	%.	69-124	1		09/28/17 16:55	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**<1.0**	mg/L	1.0	1		10/04/17 09:28		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**120**	mg/L	5.0	1		10/04/17 11:52		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**628**	mg/L	10.0	1		09/28/17 14:00		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		09/22/17 23:46	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**388**	mg/L	20.0	10		10/05/17 19:43	16887-00-6	
Sulfate	**0.39J**	mg/L	5.0	1		10/05/17 19:30	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	10/05/17 06:53	10/05/17 13:31	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**4.1**	mg/L	0.50	10		09/22/17 23:35	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/22/17 21:16	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**1.6J**	ug/L	5.0	1	10/04/17 12:00	10/04/17 15:10		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C							
Cyanide	**<10.0**	ug/L	10.0	1	10/06/17 07:09	10/06/17 12:31	57-12-5	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.14**	mg/L	0.10	1		10/06/17 14:34	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
Pace Project No.: 7030815

Sample: MW-6C **Lab ID: 7030815002** Collected: 09/22/17 09:55 Received: 09/22/17 14:40 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							
Aluminum	**<200**	ug/L	200	1	10/05/17 10:27	10/06/17 17:32	7429-90-5	
Barium	**24.6J**	ug/L	200	1	10/05/17 10:27	10/06/17 17:32	7440-39-3	
Calcium	**36600**	ug/L	1000	1	10/05/17 10:27	10/06/17 17:32	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/05/17 10:27	10/06/17 17:32	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/05/17 10:27	10/06/17 17:32	7440-50-8	
Iron	**3970**	ug/L	20.0	1	10/05/17 10:27	10/06/17 17:32	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/05/17 10:27	10/06/17 17:32	7439-92-1	
Magnesium	**8790**	ug/L	1000	1	10/05/17 10:27	10/06/17 17:32	7439-95-4	
Manganese	**93.4**	ug/L	10.0	1	10/05/17 10:27	10/06/17 17:32	7439-96-5	
Nickel	**6.4J**	ug/L	40.0	1	10/05/17 10:27	10/06/17 17:32	7440-02-0	B
Potassium	**23400**	ug/L	5000	1	10/05/17 10:27	10/06/17 17:32	7440-09-7	
Sodium	**179000**	ug/L	5000	1	10/05/17 10:27	10/06/17 17:32	7440-23-5	
Zinc	**4.2J**	ug/L	20.0	1	10/05/17 10:27	10/06/17 17:32	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**<0.20**	ug/L	0.20	1	10/05/17 10:49	10/05/17 17:22	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**<1.0**	ug/L	1.0	1		09/28/17 17:13	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/28/17 17:13	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/28/17 17:13	75-25-2	L1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 17:13	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 17:13	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/28/17 17:13	56-23-5	L1
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 17:13	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/28/17 17:13	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/28/17 17:13	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/28/17 17:13	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 17:13	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 17:13	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 17:13	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/28/17 17:13	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 17:13	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 17:13	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 17:13	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 17:13	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 17:13	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/28/17 17:13	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 17:13	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		09/28/17 17:13	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/28/17 17:13	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/28/17 17:13	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/28/17 17:13	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 17:13	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 17:13	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/28/17 17:13	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030815

Sample: MW-6C **Lab ID: 7030815002** Collected: 09/22/17 09:55 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/28/17 17:13	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/28/17 17:13	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/28/17 17:13	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%.	68-153	1		09/28/17 17:13	17060-07-0	
4-Bromofluorobenzene (S)	106	%.	79-124	1		09/28/17 17:13	460-00-4	
Toluene-d8 (S)	100	%.	69-124	1		09/28/17 17:13	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**272**	mg/L	1.0	1		10/04/17 09:31		
Alkalinity,Bicarbonate (CaCO3)	**272**	mg/L	1.0	1		10/04/17 09:31		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/04/17 09:31		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**112**	mg/L	5.0	1		10/04/17 12:07		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**608**	mg/L	20.0	1		09/28/17 14:01		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.10**	mg/L	0.10	5		09/22/17 23:47	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**238**	mg/L	20.0	10		10/05/17 20:10	16887-00-6	
Sulfate	**42.8**	mg/L	5.0	1		10/05/17 19:57	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**16.1**	mg/L	1.0	10	10/05/17 06:53	10/05/17 13:41	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		09/22/17 23:36	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/22/17 21:18	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**14.6**	ug/L	5.0	1	10/04/17 12:00	10/04/17 15:12		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C							
Cyanide	**<10.0**	ug/L	10.0	1	10/06/17 07:09	10/06/17 12:31	57-12-5	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**18.4**	mg/L	1.0	10		10/06/17 16:21	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
Pace Project No.: 7030815

Sample: MW-6E **Lab ID: 7030815003** Collected: 09/22/17 11:15 Received: 09/22/17 14:40 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							
Aluminum	**<200**	ug/L	200	1	10/05/17 10:27	10/06/17 17:37	7429-90-5	
Barium	**208**	ug/L	200	1	10/05/17 10:27	10/06/17 17:37	7440-39-3	
Calcium	**35900**	ug/L	1000	1	10/05/17 10:27	10/06/17 17:37	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/05/17 10:27	10/06/17 17:37	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/05/17 10:27	10/06/17 17:37	7440-50-8	
Iron	**21000**	ug/L	20.0	1	10/05/17 10:27	10/06/17 17:37	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/05/17 10:27	10/06/17 17:37	7439-92-1	
Magnesium	**16800**	ug/L	1000	1	10/05/17 10:27	10/06/17 17:37	7439-95-4	
Manganese	**706**	ug/L	10.0	1	10/05/17 10:27	10/06/17 17:37	7439-96-5	
Nickel	**15.0J**	ug/L	40.0	1	10/05/17 10:27	10/06/17 17:37	7440-02-0	B
Potassium	**36300**	ug/L	5000	1	10/05/17 10:27	10/06/17 17:37	7440-09-7	
Sodium	**183000**	ug/L	5000	1	10/05/17 10:27	10/06/17 17:37	7440-23-5	
Zinc	**21.5**	ug/L	20.0	1	10/05/17 10:27	10/06/17 17:37	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**<0.20**	ug/L	0.20	1	10/05/17 10:49	10/05/17 17:24	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**<1.0**	ug/L	1.0	1		09/28/17 17:31	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/28/17 17:31	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/28/17 17:31	75-25-2	L1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 17:31	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 17:31	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/28/17 17:31	56-23-5	L1
Chlorobenzene	**3.2**	ug/L	1.0	1		09/28/17 17:31	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/28/17 17:31	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/28/17 17:31	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/28/17 17:31	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 17:31	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 17:31	541-73-1	
1,4-Dichlorobenzene	**1.0**	ug/L	1.0	1		09/28/17 17:31	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/28/17 17:31	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 17:31	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 17:31	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 17:31	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 17:31	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 17:31	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/28/17 17:31	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 17:31	100-41-4	
Isopropylbenzene (Cumene)	**1.4**	ug/L	1.0	1		09/28/17 17:31	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/28/17 17:31	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/28/17 17:31	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/28/17 17:31	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 17:31	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 17:31	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/28/17 17:31	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030815

Sample: MW-6E **Lab ID: 7030815003** Collected: 09/22/17 11:15 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/28/17 17:31	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/28/17 17:31	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/28/17 17:31	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	68-153	1		09/28/17 17:31	17060-07-0	
4-Bromofluorobenzene (S)	102	%.	79-124	1		09/28/17 17:31	460-00-4	
Toluene-d8 (S)	97	%.	69-124	1		09/28/17 17:31	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**328**	mg/L	1.0	1		10/04/17 09:38		
Alkalinity,Bicarbonate (CaCO3)	**328**	mg/L	1.0	1		10/04/17 09:38		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/04/17 09:38		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**144**	mg/L	5.0	1		10/04/17 12:07		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**682**	mg/L	20.0	1		09/28/17 14:02		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.10**	mg/L	0.10	5		09/22/17 23:52	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**380**	mg/L	20.0	10		10/05/17 21:04	16887-00-6	
Sulfate	**18.6**	mg/L	5.0	1		10/05/17 20:24	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**41.2**	mg/L	5.0	50	10/05/17 06:53	10/05/17 13:42	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**1.7**	mg/L	0.50	10		09/22/17 23:37	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**0.0096J**	mg/L	0.050	1		09/22/17 21:19	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**6.5**	ug/L	5.0	1	10/04/17 12:00	10/04/17 15:21		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C							
Cyanide	**<10.0**	ug/L	10.0	1	10/06/17 07:09	10/06/17 12:31	57-12-5	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**44.5**	mg/L	1.0	10		10/06/17 16:22	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
Pace Project No.: 7030815

Sample: BLIND DUPLICATE **Lab ID: 7030815004** Collected: 09/22/17 00:00 Received: 09/22/17 14:40 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							
Aluminum	**146J**	ug/L	200	1	10/05/17 10:27	10/06/17 17:43	7429-90-5	B
Barium	**53.4J**	ug/L	200	1	10/05/17 10:27	10/06/17 17:43	7440-39-3	
Calcium	**17800**	ug/L	1000	1	10/05/17 10:27	10/06/17 17:43	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/05/17 10:27	10/06/17 17:43	7440-47-3	
Copper	**3.1J**	ug/L	25.0	1	10/05/17 10:27	10/06/17 17:43	7440-50-8	B
Iron	**12100**	ug/L	20.0	1	10/05/17 10:27	10/06/17 17:43	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/05/17 10:27	10/06/17 17:43	7439-92-1	
Magnesium	**12300**	ug/L	1000	1	10/05/17 10:27	10/06/17 17:43	7439-95-4	
Manganese	**69.3**	ug/L	10.0	1	10/05/17 10:27	10/06/17 17:43	7439-96-5	
Nickel	**15.5J**	ug/L	40.0	1	10/05/17 10:27	10/06/17 17:43	7440-02-0	B
Potassium	**88100**	ug/L	5000	1	10/05/17 10:27	10/06/17 17:43	7440-09-7	
Sodium	**254000**	ug/L	5000	1	10/05/17 10:27	10/06/17 17:43	7440-23-5	
Zinc	**5.7J**	ug/L	20.0	1	10/05/17 10:27	10/06/17 17:43	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**<0.20**	ug/L	0.20	1	10/05/17 10:49	10/05/17 17:26	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**2.0**	ug/L	1.0	1		09/28/17 17:49	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/28/17 17:49	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/28/17 17:49	75-25-2	L1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 17:49	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 17:49	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/28/17 17:49	56-23-5	L1
Chlorobenzene	**7.4**	ug/L	1.0	1		09/28/17 17:49	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/28/17 17:49	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/28/17 17:49	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/28/17 17:49	124-48-1	
1,2-Dichlorobenzene	**1.0**	ug/L	1.0	1		09/28/17 17:49	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 17:49	541-73-1	
1,4-Dichlorobenzene	**3.5**	ug/L	1.0	1		09/28/17 17:49	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/28/17 17:49	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 17:49	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 17:49	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 17:49	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 17:49	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 17:49	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/28/17 17:49	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 17:49	100-41-4	
Isopropylbenzene (Cumene)	**5.9**	ug/L	1.0	1		09/28/17 17:49	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/28/17 17:49	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/28/17 17:49	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/28/17 17:49	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 17:49	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 17:49	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/28/17 17:49	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030815

Sample: BLIND DUPLICATE **Lab ID: 7030815004** Collected: 09/22/17 00:00 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Xylene (Total)	**1.1J**	ug/L	2.0	1		09/28/17 17:49	1330-20-7	
m&p-Xylene	**1.1J**	ug/L	2.0	1		09/28/17 17:49	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/28/17 17:49	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%.	68-153	1		09/28/17 17:49	17060-07-0	
4-Bromofluorobenzene (S)	103	%.	79-124	1		09/28/17 17:49	460-00-4	
Toluene-d8 (S)	97	%.	69-124	1		09/28/17 17:49	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**864**	mg/L	1.0	1		10/04/17 09:44		
Alkalinity,Bicarbonate (CaCO3)	**864**	mg/L	1.0	1		10/04/17 09:44		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/04/17 09:44		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**80.0**	mg/L	5.0	1		10/04/17 12:16		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**882**	mg/L	20.0	1		09/28/17 14:02		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.10**	mg/L	0.10	5		09/22/17 23:42	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**322**	mg/L	20.0	10		10/05/17 21:31	16887-00-6	
Sulfate	**0.69J**	mg/L	5.0	1		10/05/17 21:18	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**147**	mg/L	5.0	50	10/05/17 06:53	10/05/17 13:42	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		09/22/17 23:39	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/22/17 21:22	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**31.1**	ug/L	5.0	1	10/04/17 12:00	10/04/17 15:22		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C							
Cyanide	**<10.0**	ug/L	10.0	1	10/06/17 07:09	10/06/17 13:50	57-12-5	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**157**	mg/L	5.0	50		10/06/17 16:29	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
Pace Project No.: 7030815

Sample: MW-6B **Lab ID: 7030815005** Collected: 09/22/17 11:55 Received: 09/22/17 14:40 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							
Aluminum	**159J**	ug/L	200	1	10/05/17 10:27	10/06/17 17:48	7429-90-5	
Barium	**55.0J**	ug/L	200	1	10/05/17 10:27	10/06/17 17:48	7440-39-3	
Calcium	**18200**	ug/L	1000	1	10/05/17 10:27	10/06/17 17:48	7440-70-2	
Chromium	**3.6J**	ug/L	10.0	1	10/05/17 10:27	10/06/17 17:48	7440-47-3	
Copper	**2.8J**	ug/L	25.0	1	10/05/17 10:27	10/06/17 17:48	7440-50-8	B
Iron	**12300**	ug/L	20.0	1	10/05/17 10:27	10/06/17 17:48	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	10/05/17 10:27	10/06/17 17:48	7439-92-1	
Magnesium	**12600**	ug/L	1000	1	10/05/17 10:27	10/06/17 17:48	7439-95-4	
Manganese	**68.5**	ug/L	10.0	1	10/05/17 10:27	10/06/17 17:48	7439-96-5	
Nickel	**17.7J**	ug/L	40.0	1	10/05/17 10:27	10/06/17 17:48	7440-02-0	B
Potassium	**90200**	ug/L	5000	1	10/05/17 10:27	10/06/17 17:48	7440-09-7	
Sodium	**258000**	ug/L	5000	1	10/05/17 10:27	10/06/17 17:48	7440-23-5	
Zinc	**6.4J**	ug/L	20.0	1	10/05/17 10:27	10/06/17 17:48	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**<0.20**	ug/L	0.20	1	10/05/17 10:49	10/05/17 17:27	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**1.9**	ug/L	1.0	1		09/28/17 18:08	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/28/17 18:08	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/28/17 18:08	75-25-2	L1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:08	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:08	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/28/17 18:08	56-23-5	L1
Chlorobenzene	**7.7**	ug/L	1.0	1		09/28/17 18:08	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/28/17 18:08	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/28/17 18:08	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/28/17 18:08	124-48-1	
1,2-Dichlorobenzene	**1.1**	ug/L	1.0	1		09/28/17 18:08	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:08	541-73-1	
1,4-Dichlorobenzene	**3.8**	ug/L	1.0	1		09/28/17 18:08	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/28/17 18:08	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 18:08	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 18:08	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 18:08	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 18:08	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 18:08	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/28/17 18:08	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:08	100-41-4	
Isopropylbenzene (Cumene)	**6.0**	ug/L	1.0	1		09/28/17 18:08	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/28/17 18:08	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/28/17 18:08	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/28/17 18:08	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 18:08	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 18:08	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/28/17 18:08	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030815

Sample: MW-6B **Lab ID: 7030815005** Collected: 09/22/17 11:55 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Xylene (Total)	**1.1J**	ug/L	2.0	1		09/28/17 18:08	1330-20-7	
m&p-Xylene	**1.1J**	ug/L	2.0	1		09/28/17 18:08	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/28/17 18:08	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	68-153	1		09/28/17 18:08	17060-07-0	
4-Bromofluorobenzene (S)	103	%.	79-124	1		09/28/17 18:08	460-00-4	
Toluene-d8 (S)	96	%.	69-124	1		09/28/17 18:08	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**957**	mg/L	5.0	1		10/05/17 07:48		M1
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**88.0**	mg/L	5.0	1		10/04/17 12:29		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**882**	mg/L	20.0	1		09/28/17 14:03		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.10**	mg/L	0.10	5		09/22/17 23:54	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**344**	mg/L	20.0	10		10/06/17 11:15	16887-00-6	
Sulfate	**0.61J**	mg/L	5.0	1		10/05/17 21:45	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**146**	mg/L	5.0	50	10/05/17 06:53	10/05/17 13:43	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		09/22/17 23:42	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/22/17 21:24	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**40.5**	ug/L	5.0	1	10/04/17 12:00	10/04/17 15:22		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C							
Cyanide	**<10.0**	ug/L	10.0	1	10/06/17 07:09	10/06/17 13:50	57-12-5	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**137**	mg/L	5.0	50		10/06/17 16:36	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030815

Sample: MW-8B **Lab ID: 7030815006** Collected: 09/22/17 13:05 Received: 09/22/17 14:40 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							
Aluminum	**26.2J**	ug/L	200	1	10/05/17 10:27	10/06/17 17:54	7429-90-5	B
Barium	**156J**	ug/L	200	1	10/05/17 10:27	10/06/17 17:54	7440-39-3	
Calcium	**24000**	ug/L	1000	1	10/05/17 10:27	10/06/17 17:54	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/05/17 10:27	10/06/17 17:54	7440-47-3	
Copper	**3.1J**	ug/L	25.0	1	10/05/17 10:27	10/06/17 17:54	7440-50-8	B
Iron	**19.6J**	ug/L	20.0	1	10/05/17 10:27	10/06/17 17:54	7439-89-6	B
Lead	**<5.0**	ug/L	5.0	1	10/05/17 10:27	10/06/17 17:54	7439-92-1	
Magnesium	**8300**	ug/L	1000	1	10/05/17 10:27	10/06/17 17:54	7439-95-4	
Manganese	**1110**	ug/L	10.0	1	10/05/17 10:27	10/06/17 17:54	7439-96-5	
Nickel	**21.5J**	ug/L	40.0	1	10/05/17 10:27	10/06/17 17:54	7440-02-0	B
Potassium	**10300**	ug/L	5000	1	10/05/17 10:27	10/06/17 17:54	7440-09-7	
Sodium	**151000**	ug/L	5000	1	10/05/17 10:27	10/06/17 17:54	7440-23-5	
Zinc	**63.2**	ug/L	20.0	1	10/05/17 10:27	10/06/17 17:54	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**<0.20**	ug/L	0.20	1	10/05/17 10:49	10/05/17 17:29	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**<1.0**	ug/L	1.0	1		09/28/17 18:26	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/28/17 18:26	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/28/17 18:26	75-25-2	L1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:26	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:26	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/28/17 18:26	56-23-5	L1
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:26	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/28/17 18:26	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/28/17 18:26	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/28/17 18:26	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:26	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:26	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:26	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/28/17 18:26	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 18:26	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 18:26	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 18:26	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 18:26	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 18:26	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/28/17 18:26	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:26	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		09/28/17 18:26	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/28/17 18:26	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/28/17 18:26	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/28/17 18:26	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 18:26	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 18:26	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/28/17 18:26	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

Project: OLD BETHPAGE
Pace Project No.: 7030815

Sample: MW-8B **Lab ID: 7030815006** Collected: 09/22/17 13:05 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/28/17 18:26	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/28/17 18:26	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/28/17 18:26	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	68-153	1		09/28/17 18:26	17060-07-0	
4-Bromofluorobenzene (S)	104	%.	79-124	1		09/28/17 18:26	460-00-4	
Toluene-d8 (S)	97	%.	69-124	1		09/28/17 18:26	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**8.4**	mg/L	1.0	1		10/04/17 10:01		
Alkalinity,Bicarbonate (CaCO3)	**8.4**	mg/L	1.0	1		10/04/17 10:01		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/04/17 10:01		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**84.0**	mg/L	5.0	1		10/04/17 12:29		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**560**	mg/L	20.0	1		09/28/17 14:03		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		09/22/17 23:55	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**360**	mg/L	20.0	10		10/05/17 22:25	16887-00-6	
Sulfate	**27.3**	mg/L	5.0	1		10/05/17 22:12	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**2.4**	mg/L	0.10	1	10/05/17 06:53	10/05/17 13:35	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**1.8**	mg/L	0.50	10		09/22/17 23:43	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/22/17 21:25	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**3.4J**	ug/L	5.0	1	10/04/17 12:00	10/04/17 15:23		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C							
Cyanide	**<10.0**	ug/L	10.0	1	10/06/17 07:09	10/06/17 13:51	57-12-5	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.68**	mg/L	0.10	1		10/06/17 14:53	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
Pace Project No.: 7030815

Sample: MW-8A **Lab ID: 7030815007** Collected: 09/22/17 13:45 Received: 09/22/17 14:40 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							
Aluminum	**55.5J**	ug/L	200	1	10/05/17 10:27	10/06/17 17:59	7429-90-5	B
Barium	**82.3J**	ug/L	200	1	10/05/17 10:27	10/06/17 17:59	7440-39-3	
Calcium	**9430**	ug/L	1000	1	10/05/17 10:27	10/06/17 17:59	7440-70-2	
Chromium	**2.2J**	ug/L	10.0	1	10/05/17 10:27	10/06/17 17:59	7440-47-3	
Copper	**24.5J**	ug/L	25.0	1	10/05/17 10:27	10/06/17 17:59	7440-50-8	B
Iron	**64.0**	ug/L	20.0	1	10/05/17 10:27	10/06/17 17:59	7439-89-6	B
Lead	**3.6J**	ug/L	5.0	1	10/05/17 10:27	10/06/17 17:59	7439-92-1	
Magnesium	**6960**	ug/L	1000	1	10/05/17 10:27	10/06/17 17:59	7439-95-4	
Manganese	**143**	ug/L	10.0	1	10/05/17 10:27	10/06/17 17:59	7439-96-5	
Nickel	**6.7J**	ug/L	40.0	1	10/05/17 10:27	10/06/17 17:59	7440-02-0	B
Potassium	**12700**	ug/L	5000	1	10/05/17 10:27	10/06/17 17:59	7440-09-7	
Sodium	**35800**	ug/L	5000	1	10/05/17 10:27	10/06/17 17:59	7440-23-5	
Zinc	**114**	ug/L	20.0	1	10/05/17 10:27	10/06/17 17:59	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**<0.20**	ug/L	0.20	1	10/05/17 10:49	10/05/17 17:31	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**<1.0**	ug/L	1.0	1		09/28/17 18:44	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/28/17 18:44	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/28/17 18:44	75-25-2	L1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:44	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:44	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/28/17 18:44	56-23-5	L1
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:44	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/28/17 18:44	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/28/17 18:44	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/28/17 18:44	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:44	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:44	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:44	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/28/17 18:44	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 18:44	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 18:44	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 18:44	75-35-4	
cis-1,2-Dichloroethene	**6.4**	ug/L	1.0	1		09/28/17 18:44	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 18:44	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/28/17 18:44	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 18:44	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		09/28/17 18:44	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/28/17 18:44	75-09-2	
Tetrachloroethene	**5.5**	ug/L	1.0	1		09/28/17 18:44	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/28/17 18:44	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 18:44	71-55-6	
Trichloroethene	**2.8**	ug/L	1.0	1		09/28/17 18:44	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/28/17 18:44	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

Project: OLD BETHPAGE
Pace Project No.: 7030815

Sample: MW-8A **Lab ID: 7030815007** Collected: 09/22/17 13:45 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/28/17 18:44	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/28/17 18:44	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/28/17 18:44	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%.	68-153	1		09/28/17 18:44	17060-07-0	
4-Bromofluorobenzene (S)	104	%.	79-124	1		09/28/17 18:44	460-00-4	
Toluene-d8 (S)	97	%.	69-124	1		09/28/17 18:44	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**13.2**	mg/L	1.0	1		10/04/17 10:05		
Alkalinity,Bicarbonate (CaCO3)	**13.2**	mg/L	1.0	1		10/04/17 10:05		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/04/17 10:05		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**46.0**	mg/L	5.0	1		10/04/17 12:29		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**178**	mg/L	10.0	1		09/28/17 14:04		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		09/22/17 23:56	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**81.1**	mg/L	10.0	5		10/05/17 22:52	16887-00-6	
Sulfate	**33.0**	mg/L	5.0	1		10/05/17 22:39	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.17**	mg/L	0.10	1	10/05/17 06:53	10/05/17 13:36	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**3.3**	mg/L	0.50	10		09/22/17 23:47	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/22/17 21:31	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**1.1J**	ug/L	5.0	1	10/04/17 12:00	10/04/17 15:23		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C							
Cyanide	**<10.0**	ug/L	10.0	1	10/06/17 07:09	10/06/17 13:51	57-12-5	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.018J**	mg/L	0.10	1		10/06/17 14:54	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
Pace Project No.: 7030815

Sample: FIELD BLANK **Lab ID: 7030815008** Collected: 09/22/17 14:00 Received: 09/22/17 14:40 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							
Aluminum	**<200**	ug/L	200	1	10/05/17 10:27	10/06/17 18:15	7429-90-5	
Barium	**<200**	ug/L	200	1	10/05/17 10:27	10/06/17 18:15	7440-39-3	
Calcium	**409J**	ug/L	1000	1	10/05/17 10:27	10/06/17 18:15	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	10/05/17 10:27	10/06/17 18:15	7440-47-3	
Copper	**<25.0**	ug/L	25.0	1	10/05/17 10:27	10/06/17 18:15	7440-50-8	
Iron	**23.9**	ug/L	20.0	1	10/05/17 10:27	10/06/17 18:15	7439-89-6	B
Lead	**<5.0**	ug/L	5.0	1	10/05/17 10:27	10/06/17 18:15	7439-92-1	
Magnesium	**<1000**	ug/L	1000	1	10/05/17 10:27	10/06/17 18:15	7439-95-4	
Manganese	**1.3J**	ug/L	10.0	1	10/05/17 10:27	10/06/17 18:15	7439-96-5	B
Nickel	**<40.0**	ug/L	40.0	1	10/05/17 10:27	10/06/17 18:15	7440-02-0	
Potassium	**<5000**	ug/L	5000	1	10/05/17 10:27	10/06/17 18:15	7440-09-7	
Sodium	**<5000**	ug/L	5000	1	10/05/17 10:27	10/06/17 18:15	7440-23-5	
Zinc	**61.4**	ug/L	20.0	1	10/05/17 10:27	10/06/17 18:15	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**<0.20**	ug/L	0.20	1	10/05/17 10:49	10/05/17 17:32	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**<1.0**	ug/L	1.0	1		09/28/17 19:02	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/28/17 19:02	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/28/17 19:02	75-25-2	L1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 19:02	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 19:02	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/28/17 19:02	56-23-5	L1
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 19:02	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/28/17 19:02	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/28/17 19:02	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/28/17 19:02	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 19:02	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 19:02	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 19:02	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/28/17 19:02	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 19:02	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 19:02	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 19:02	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 19:02	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 19:02	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/28/17 19:02	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 19:02	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		09/28/17 19:02	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/28/17 19:02	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/28/17 19:02	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/28/17 19:02	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 19:02	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 19:02	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/28/17 19:02	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030815

Sample: FIELD BLANK **Lab ID: 7030815008** Collected: 09/22/17 14:00 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/28/17 19:02	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/28/17 19:02	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/28/17 19:02	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	68-153	1		09/28/17 19:02	17060-07-0	
4-Bromofluorobenzene (S)	102	%.	79-124	1		09/28/17 19:02	460-00-4	
Toluene-d8 (S)	94	%.	69-124	1		09/28/17 19:02	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**1.4**	mg/L	1.0	1		10/04/17 10:09		
Alkalinity,Bicarbonate (CaCO3)	**1.4**	mg/L	1.0	1		10/04/17 10:09		
Alkalinity,Carbonate (CaCO3)	**<1.0**	mg/L	1.0	1		10/04/17 10:09		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**<5.0**	mg/L	5.0	1		10/04/17 12:30		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**<10.0**	mg/L	10.0	1		09/28/17 14:05		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		09/22/17 23:57	18540-29-9	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**0.83J**	mg/L	2.0	1		10/05/17 23:06	16887-00-6	B
Sulfate	**0.33J**	mg/L	5.0	1		10/05/17 23:06	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.93**	mg/L	0.10	1	10/05/17 06:53	10/05/17 13:36	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.25**	mg/L	0.050	1		09/22/17 23:51	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		09/22/17 21:34	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**2.5J**	ug/L	5.0	1	10/04/17 12:00	10/04/17 15:23		
SM 4500 CNE Cyanide, Total	Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C							
Cyanide	**<10.0**	ug/L	10.0	1	10/06/17 07:09	10/06/17 13:52	57-12-5	
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.069J**	mg/L	0.10	1		10/09/17 08:27	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
Pace Project No.: 7030815

Sample: TRIP BLANK **Lab ID: 7030815009** Collected: 09/22/17 00:00 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**<1.0**	ug/L	1.0	1		09/28/17 19:19	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/28/17 19:19	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/28/17 19:19	75-25-2	L1
n-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 19:19	104-51-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 19:19	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/28/17 19:19	56-23-5	L1
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 19:19	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/28/17 19:19	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/28/17 19:19	67-66-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/28/17 19:19	124-48-1	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 19:19	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 19:19	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/28/17 19:19	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/28/17 19:19	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 19:19	75-34-3	L2
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 19:19	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 19:19	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 19:19	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 19:19	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/28/17 19:19	78-87-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/28/17 19:19	100-41-4	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		09/28/17 19:19	98-82-8	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/28/17 19:19	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/28/17 19:19	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/28/17 19:19	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/28/17 19:19	71-55-6	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/28/17 19:19	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/28/17 19:19	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/28/17 19:19	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/28/17 19:19	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/28/17 19:19	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%.	68-153	1		09/28/17 19:19	17060-07-0	
4-Bromofluorobenzene (S)	103	%.	79-124	1		09/28/17 19:19	460-00-4	
Toluene-d8 (S)	97	%.	69-124	1		09/28/17 19:19	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
Pace Project No.: 7030815

Sample: MW-6F **Lab ID: 7030815010** Collected: 09/22/17 09:15 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7							
Aluminum, Dissolved	**162J**	ug/L	200	1		10/06/17 12:53	7429-90-5	
Barium, Dissolved	**205**	ug/L	200	1		10/06/17 12:53	7440-39-3	
Calcium, Dissolved	**34500**	ug/L	1000	1		10/06/17 12:53	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/06/17 12:53	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/06/17 12:53	7440-50-8	
Iron, Dissolved	**49.7**	ug/L	20.0	1		10/06/17 12:53	7439-89-6	
Lead, Dissolved	**2.3J**	ug/L	5.0	1		10/06/17 12:53	7439-92-1	
Magnesium, Dissolved	**13800**	ug/L	1000	1		10/06/17 12:53	7439-95-4	
Manganese, Dissolved	**107**	ug/L	10.0	1		10/06/17 12:53	7439-96-5	
Nickel, Dissolved	**20.7J**	ug/L	40.0	1		10/06/17 12:53	7440-02-0	
Potassium, Dissolved	**7870**	ug/L	5000	1		10/06/17 12:53	7440-09-7	
Sodium, Dissolved	**139000**	ug/L	5000	1		10/06/17 12:53	7440-23-5	
Zinc, Dissolved	**43.3**	ug/L	20.0	1		10/06/17 12:53	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	10/05/17 10:49	10/05/17 16:35	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		09/22/17 23:46	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
Pace Project No.: 7030815

Sample: MW-6C **Lab ID: 7030815011** Collected: 09/22/17 09:55 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7							
Aluminum, Dissolved	**<200**	ug/L	200	1		10/06/17 12:58	7429-90-5	
Barium, Dissolved	**23.0J**	ug/L	200	1		10/06/17 12:58	7440-39-3	
Calcium, Dissolved	**34200**	ug/L	1000	1		10/06/17 12:58	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/06/17 12:58	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/06/17 12:58	7440-50-8	
Iron, Dissolved	**3580**	ug/L	20.0	1		10/06/17 12:58	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/06/17 12:58	7439-92-1	
Magnesium, Dissolved	**8420**	ug/L	1000	1		10/06/17 12:58	7439-95-4	
Manganese, Dissolved	**83.3**	ug/L	10.0	1		10/06/17 12:58	7439-96-5	
Nickel, Dissolved	**5.5J**	ug/L	40.0	1		10/06/17 12:58	7440-02-0	
Potassium, Dissolved	**24200**	ug/L	5000	1		10/06/17 12:58	7440-09-7	
Sodium, Dissolved	**189000**	ug/L	5000	1		10/06/17 12:58	7440-23-5	
Zinc, Dissolved	**<20.0**	ug/L	20.0	1		10/06/17 12:58	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	10/05/17 10:49	10/05/17 16:40	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.10**	mg/L	0.10	5		09/22/17 23:47	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
Pace Project No.: 7030815

Sample: MW-6E **Lab ID: 7030815012** Collected: 09/22/17 11:15 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7							
Aluminum, Dissolved	**<200**	ug/L	200	1		10/06/17 13:04	7429-90-5	
Barium, Dissolved	**192J**	ug/L	200	1		10/06/17 13:04	7440-39-3	
Calcium, Dissolved	**33300**	ug/L	1000	1		10/06/17 13:04	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/06/17 13:04	7440-47-3	
Copper, Dissolved	**4.4J**	ug/L	25.0	1		10/06/17 13:04	7440-50-8	
Iron, Dissolved	**19100**	ug/L	20.0	1		10/06/17 13:04	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/06/17 13:04	7439-92-1	
Magnesium, Dissolved	**15900**	ug/L	1000	1		10/06/17 13:04	7439-95-4	
Manganese, Dissolved	**640**	ug/L	10.0	1		10/06/17 13:04	7439-96-5	
Nickel, Dissolved	**12.2J**	ug/L	40.0	1		10/06/17 13:04	7440-02-0	
Potassium, Dissolved	**36300**	ug/L	5000	1		10/06/17 13:04	7440-09-7	
Sodium, Dissolved	**190000**	ug/L	5000	1		10/06/17 13:04	7440-23-5	
Zinc, Dissolved	**16.7J**	ug/L	20.0	1		10/06/17 13:04	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	10/05/17 10:49	10/05/17 16:42	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.10**	mg/L	0.10	5		09/22/17 23:54	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
Pace Project No.: 7030815

Sample: BLIND DUPLICATE **Lab ID: 7030815013** Collected: 09/22/17 00:00 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7							
Aluminum, Dissolved	**14.9J**	ug/L	200	1		10/06/17 13:09	7429-90-5	
Barium, Dissolved	**51.7J**	ug/L	200	1		10/06/17 13:09	7440-39-3	
Calcium, Dissolved	**17200**	ug/L	1000	1		10/06/17 13:09	7440-70-2	
Chromium, Dissolved	**2.5J**	ug/L	10.0	1		10/06/17 13:09	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/06/17 13:09	7440-50-8	
Iron, Dissolved	**9300**	ug/L	20.0	1		10/06/17 13:09	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/06/17 13:09	7439-92-1	
Magnesium, Dissolved	**12100**	ug/L	1000	1		10/06/17 13:09	7439-95-4	
Manganese, Dissolved	**38.5**	ug/L	10.0	1		10/06/17 13:09	7439-96-5	
Nickel, Dissolved	**13.3J**	ug/L	40.0	1		10/06/17 13:09	7440-02-0	
Potassium, Dissolved	**92300**	ug/L	5000	1		10/06/17 13:09	7440-09-7	
Sodium, Dissolved	**271000**	ug/L	5000	1		10/06/17 13:09	7440-23-5	
Zinc, Dissolved	**2.4J**	ug/L	20.0	1		10/06/17 13:09	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	10/05/17 10:49	10/05/17 16:44	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.10**	mg/L	0.10	5		09/22/17 23:46	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030815

Sample: MW-6B **Lab ID: 7030815014** Collected: 09/22/17 11:55 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7							
Aluminum, Dissolved	**14.2J**	ug/L	200	1		10/06/17 13:15	7429-90-5	
Barium, Dissolved	**51.2J**	ug/L	200	1		10/06/17 13:15	7440-39-3	
Calcium, Dissolved	**17000**	ug/L	1000	1		10/06/17 13:15	7440-70-2	
Chromium, Dissolved	**2.2J**	ug/L	10.0	1		10/06/17 13:15	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/06/17 13:15	7440-50-8	
Iron, Dissolved	**9140**	ug/L	20.0	1		10/06/17 13:15	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/06/17 13:15	7439-92-1	
Magnesium, Dissolved	**11900**	ug/L	1000	1		10/06/17 13:15	7439-95-4	
Manganese, Dissolved	**37.3**	ug/L	10.0	1		10/06/17 13:15	7439-96-5	
Nickel, Dissolved	**13.7J**	ug/L	40.0	1		10/06/17 13:15	7440-02-0	
Potassium, Dissolved	**91200**	ug/L	5000	1		10/06/17 13:15	7440-09-7	
Sodium, Dissolved	**274000**	ug/L	5000	1		10/06/17 13:15	7440-23-5	
Zinc, Dissolved	**1.6J**	ug/L	20.0	1		10/06/17 13:15	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	10/05/17 10:49	10/05/17 16:45	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.10**	mg/L	0.10	5		09/22/17 23:55	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030815

Sample: MW-8B **Lab ID: 7030815015** Collected: 09/22/17 13:05 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7							
Aluminum, Dissolved	**32.3J**	ug/L	200	1		10/06/17 13:31	7429-90-5	
Barium, Dissolved	**143J**	ug/L	200	1		10/06/17 13:31	7440-39-3	
Calcium, Dissolved	**22300**	ug/L	1000	1		10/06/17 13:31	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/06/17 13:31	7440-47-3	
Copper, Dissolved	**<25.0**	ug/L	25.0	1		10/06/17 13:31	7440-50-8	
Iron, Dissolved	**32.1**	ug/L	20.0	1		10/06/17 13:31	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/06/17 13:31	7439-92-1	
Magnesium, Dissolved	**7850**	ug/L	1000	1		10/06/17 13:31	7439-95-4	
Manganese, Dissolved	**1000**	ug/L	10.0	1		10/06/17 13:31	7439-96-5	
Nickel, Dissolved	**20.0J**	ug/L	40.0	1		10/06/17 13:31	7440-02-0	
Potassium, Dissolved	**10600**	ug/L	5000	1		10/06/17 13:31	7440-09-7	
Sodium, Dissolved	**162000**	ug/L	5000	1		10/06/17 13:31	7440-23-5	
Zinc, Dissolved	**58.0**	ug/L	20.0	1		10/06/17 13:31	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	10/05/17 10:49	10/05/17 16:47	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**0.0033J**	mg/L	0.020	1		09/22/17 23:55	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030815

Sample: MW-8A **Lab ID: 7030815016** Collected: 09/22/17 13:45 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7							
Aluminum, Dissolved	**46.5J**	ug/L	200	1		10/06/17 13:36	7429-90-5	
Barium, Dissolved	**78.1J**	ug/L	200	1		10/06/17 13:36	7440-39-3	
Calcium, Dissolved	**10300**	ug/L	1000	1		10/06/17 13:36	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/06/17 13:36	7440-47-3	
Copper, Dissolved	**19.1J**	ug/L	25.0	1		10/06/17 13:36	7440-50-8	
Iron, Dissolved	**19.5J**	ug/L	20.0	1		10/06/17 13:36	7439-89-6	
Lead, Dissolved	**3.5J**	ug/L	5.0	1		10/06/17 13:36	7439-92-1	
Magnesium, Dissolved	**6950**	ug/L	1000	1		10/06/17 13:36	7439-95-4	
Manganese, Dissolved	**128**	ug/L	10.0	1		10/06/17 13:36	7439-96-5	
Nickel, Dissolved	**5.9J**	ug/L	40.0	1		10/06/17 13:36	7440-02-0	
Potassium, Dissolved	**13200**	ug/L	5000	1		10/06/17 13:36	7440-09-7	
Sodium, Dissolved	**39000**	ug/L	5000	1		10/06/17 13:36	7440-23-5	
Zinc, Dissolved	**107**	ug/L	20.0	1		10/06/17 13:36	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	10/05/17 10:49	10/05/17 16:55	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**0.0033J**	mg/L	0.020	1		09/22/17 23:56	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLD BETHPAGE
Pace Project No.: 7030815

Sample: FIELD BLANK **Lab ID: 7030815017** Collected: 09/22/17 14:00 Received: 09/22/17 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Dissolved	Analytical Method: EPA 200.7							
Aluminum, Dissolved	**20.4J**	ug/L	200	1		10/06/17 13:52	7429-90-5	
Barium, Dissolved	**<200**	ug/L	200	1		10/06/17 13:52	7440-39-3	
Calcium, Dissolved	**1100**	ug/L	1000	1		10/06/17 13:52	7440-70-2	
Chromium, Dissolved	**<10.0**	ug/L	10.0	1		10/06/17 13:52	7440-47-3	
Copper, Dissolved	**3.1J**	ug/L	25.0	1		10/06/17 13:52	7440-50-8	
Iron, Dissolved	**25.6**	ug/L	20.0	1		10/06/17 13:52	7439-89-6	
Lead, Dissolved	**<5.0**	ug/L	5.0	1		10/06/17 13:52	7439-92-1	
Magnesium, Dissolved	**<1000**	ug/L	1000	1		10/06/17 13:52	7439-95-4	
Manganese, Dissolved	**1.9J**	ug/L	10.0	1		10/06/17 13:52	7439-96-5	
Nickel, Dissolved	**1.2J**	ug/L	40.0	1		10/06/17 13:52	7440-02-0	
Potassium, Dissolved	**906J**	ug/L	5000	1		10/06/17 13:52	7440-09-7	
Sodium, Dissolved	**685J**	ug/L	5000	1		10/06/17 13:52	7440-23-5	
Zinc, Dissolved	**160**	ug/L	20.0	1		10/06/17 13:52	7440-66-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	**<0.20**	ug/L	0.20	1	10/05/17 10:49	10/05/17 16:57	7439-97-6	
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		09/22/17 23:57	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
Pace Project No.: 7030815

QC Batch: 42011 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 7030815010, 7030815011, 7030815012, 7030815013, 7030815014, 7030815015, 7030815016, 7030815017

METHOD BLANK: 195868 Matrix: Water
Associated Lab Samples: 7030815010, 7030815011, 7030815012, 7030815013, 7030815014, 7030815015, 7030815016, 7030815017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<200	200	10/06/17 11:44	
Barium, Dissolved	ug/L	<200	200	10/06/17 11:44	
Calcium, Dissolved	ug/L	<1000	1000	10/06/17 11:44	
Chromium, Dissolved	ug/L	<10.0	10.0	10/06/17 11:44	
Copper, Dissolved	ug/L	<25.0	25.0	10/06/17 11:44	
Iron, Dissolved	ug/L	<20.0	20.0	10/06/17 11:44	
Lead, Dissolved	ug/L	<5.0	5.0	10/06/17 11:44	
Magnesium, Dissolved	ug/L	<1000	1000	10/06/17 11:44	
Manganese, Dissolved	ug/L	<10.0	10.0	10/06/17 11:44	
Nickel, Dissolved	ug/L	<40.0	40.0	10/06/17 11:44	
Potassium, Dissolved	ug/L	<5000	5000	10/06/17 11:44	
Sodium, Dissolved	ug/L	<5000	5000	10/06/17 11:44	
Zinc, Dissolved	ug/L	<20.0	20.0	10/06/17 11:44	

LABORATORY CONTROL SAMPLE: 195869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	5040	101	85-115	
Barium, Dissolved	ug/L	500	500	100	85-115	
Calcium, Dissolved	ug/L	25000	25100	100	85-115	
Chromium, Dissolved	ug/L	250	253	101	85-115	
Copper, Dissolved	ug/L	250	252	101	85-115	
Iron, Dissolved	ug/L	2000	1990	100	85-115	
Lead, Dissolved	ug/L	500	505	101	85-115	
Magnesium, Dissolved	ug/L	25000	24800	99	85-115	
Manganese, Dissolved	ug/L	250	248	99	85-115	
Nickel, Dissolved	ug/L	250	255	102	85-115	
Potassium, Dissolved	ug/L	50000	49000	98	85-115	
Sodium, Dissolved	ug/L	50000	51300	103	85-115	
Zinc, Dissolved	ug/L	1000	1000	100	85-115	

MATRIX SPIKE SAMPLE: 195872

Parameter	Units	7030715002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	<200	5000	5020	100	70-130	
Barium, Dissolved	ug/L	55.7J	500	537	96	70-130	
Calcium, Dissolved	ug/L	34400	25000	57800	94	70-130	
Chromium, Dissolved	ug/L	13.5	250	268	102	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
Pace Project No.: 7030815

MATRIX SPIKE SAMPLE: 195872

Parameter	Units	7030715002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Copper, Dissolved	ug/L	<25.0	250	250	99	70-130	
Iron, Dissolved	ug/L	7840	2000	9580	87	70-130	
Lead, Dissolved	ug/L	<5.0	500	480	96	70-130	
Magnesium, Dissolved	ug/L	22900	25000	46600	95	70-130	
Manganese, Dissolved	ug/L	184	250	424	96	70-130	
Nickel, Dissolved	ug/L	19.6J	250	268	99	70-130	
Potassium, Dissolved	ug/L	162000	50000	202000	82	70-130	
Sodium, Dissolved	ug/L	535000	50000	571000	72	70-130	
Zinc, Dissolved	ug/L	2.3J	1000	994	99	70-130	

MATRIX SPIKE SAMPLE: 195874

Parameter	Units	7030815014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	14.2J	5000	4920	98	70-130	
Barium, Dissolved	ug/L	51.2J	500	522	94	70-130	
Calcium, Dissolved	ug/L	17000	25000	39700	91	70-130	
Chromium, Dissolved	ug/L	2.2J	250	263	104	70-130	
Copper, Dissolved	ug/L	<25.0	250	244	97	70-130	
Iron, Dissolved	ug/L	9140	2000	10800	85	70-130	
Lead, Dissolved	ug/L	<5.0	500	482	96	70-130	
Magnesium, Dissolved	ug/L	11900	25000	35300	94	70-130	
Manganese, Dissolved	ug/L	37.3	250	270	93	70-130	
Nickel, Dissolved	ug/L	13.7J	250	265	100	70-130	
Potassium, Dissolved	ug/L	91200	50000	137000	91	70-130	
Sodium, Dissolved	ug/L	274000	50000	317000	86	70-130	
Zinc, Dissolved	ug/L	1.6J	1000	992	99	70-130	

SAMPLE DUPLICATE: 195871

Parameter	Units	7030715002 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	<200	<200		
Barium, Dissolved	ug/L	55.7J	55.9J		
Calcium, Dissolved	ug/L	34400	34300	0	
Chromium, Dissolved	ug/L	13.5	13.7	1	
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	7840	7850	0	
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	22900	22800	0	
Manganese, Dissolved	ug/L	184	183	0	
Nickel, Dissolved	ug/L	19.6J	19.7J		
Potassium, Dissolved	ug/L	162000	162000	0	
Sodium, Dissolved	ug/L	535000	536000	0	
Zinc, Dissolved	ug/L	2.3J	2.1J		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

SAMPLE DUPLICATE: 195873

Parameter	Units	7030815014 Result	Dup Result	RPD	Qualifiers
Aluminum, Dissolved	ug/L	14.2J	<200		
Barium, Dissolved	ug/L	51.2J	51.0J		
Calcium, Dissolved	ug/L	17000	16900	1	
Chromium, Dissolved	ug/L	2.2J	2.2J		
Copper, Dissolved	ug/L	<25.0	<25.0		
Iron, Dissolved	ug/L	9140	9100	0	
Lead, Dissolved	ug/L	<5.0	<5.0		
Magnesium, Dissolved	ug/L	11900	11900	1	
Manganese, Dissolved	ug/L	37.3	37.4	0	
Nickel, Dissolved	ug/L	13.7J	13.2J		
Potassium, Dissolved	ug/L	91200	91900	1	
Sodium, Dissolved	ug/L	274000	272000	1	
Zinc, Dissolved	ug/L	1.6J	1.5J		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

QC Batch: 41865 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

METHOD BLANK: 195014 Matrix: Water
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	10/05/17 16:59	

LABORATORY CONTROL SAMPLE: 195015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.1	112	85-115	

MATRIX SPIKE SAMPLE: 195016

Parameter	Units	7029792001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.1	109	70-130	

MATRIX SPIKE SAMPLE: 195018

Parameter	Units	7029792002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	1.1	112	70-130	

SAMPLE DUPLICATE: 195017

Parameter	Units	7029792001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

SAMPLE DUPLICATE: 195019

Parameter	Units	7029792002 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

QC Batch: 41864 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 7030815010, 7030815011, 7030815012, 7030815013, 7030815014, 7030815015, 7030815016, 7030815017

METHOD BLANK: 195010 Matrix: Water
Associated Lab Samples: 7030815010, 7030815011, 7030815012, 7030815013, 7030815014, 7030815015, 7030815016, 7030815017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.20	0.20	10/05/17 16:31	

LABORATORY CONTROL SAMPLE: 195011

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

MATRIX SPIKE SAMPLE: 195012

Parameter	Units	7030815010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	<0.20	1	1.0	103	70-130	

SAMPLE DUPLICATE: 195013

Parameter	Units	7030815010 Result	Dup Result	RPD	Qualifiers
Mercury, Dissolved	ug/L	<0.20	<0.20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

QC Batch: 41861 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

METHOD BLANK: 194992 Matrix: Water
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	14.9J	200	10/06/17 16:07	
Barium	ug/L	<200	200	10/06/17 16:07	
Calcium	ug/L	<1000	1000	10/06/17 16:07	
Chromium	ug/L	<10.0	10.0	10/06/17 16:07	
Copper	ug/L	5.3J	25.0	10/06/17 16:07	
Iron	ug/L	15.9J	20.0	10/06/17 16:07	
Lead	ug/L	<5.0	5.0	10/06/17 16:07	
Magnesium	ug/L	<1000	1000	10/06/17 16:07	
Manganese	ug/L	1.1J	10.0	10/06/17 16:07	
Nickel	ug/L	5.4J	40.0	10/06/17 16:07	
Potassium	ug/L	<5000	5000	10/06/17 16:07	
Sodium	ug/L	<5000	5000	10/06/17 16:07	
Zinc	ug/L	<20.0	20.0	10/06/17 16:07	

LABORATORY CONTROL SAMPLE: 194993

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	5240	105	85-115	
Barium	ug/L	500	532	106	85-115	
Calcium	ug/L	25000	26500	106	85-115	
Chromium	ug/L	250	270	108	85-115	
Copper	ug/L	250	272	109	85-115	
Iron	ug/L	2000	2080	104	85-115	
Lead	ug/L	500	532	106	85-115	
Magnesium	ug/L	25000	26400	106	85-115	
Manganese	ug/L	250	266	107	85-115	
Nickel	ug/L	250	269	108	85-115	
Potassium	ug/L	50000	49300	99	85-115	
Sodium	ug/L	50000	51800	104	85-115	
Zinc	ug/L	1000	1080	108	85-115	

MATRIX SPIKE SAMPLE: 194995

Parameter	Units	7030779001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	5000	5090	101	70-130	
Barium	ug/L	<200	500	579	102	70-130	
Calcium	ug/L	55600	25000	76800	85	70-130	
Chromium	ug/L	<10.0	250	259	103	70-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

MATRIX SPIKE SAMPLE: 194995

Parameter	Units	7030779001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	59.6	250	318	104	70-130	
Iron	ug/L	152	2000	2130	99	70-130	
Lead	ug/L	<5.0	500	514	103	70-130	
Magnesium	ug/L	9380	25000	33800	98	70-130	
Manganese	ug/L	14.2	250	271	103	70-130	
Nickel	ug/L	<40.0	250	260	103	70-130	
Potassium	ug/L	7440	50000	54600	94	70-130	
Sodium	ug/L	50900	50000	96100	90	70-130	
Zinc	ug/L	38.3	1000	1090	105	70-130	

MATRIX SPIKE SAMPLE: 194997

Parameter	Units	7030780001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	247	5000	5520	105	70-130	
Barium	ug/L	<200	500	597	106	70-130	
Calcium	ug/L	76800	25000	103000	105	70-130	
Chromium	ug/L	<10.0	250	271	107	70-130	
Copper	ug/L	90.4	250	365	110	70-130	
Iron	ug/L	623	2000	2620	100	70-130	
Lead	ug/L	<5.0	500	532	106	70-130	
Magnesium	ug/L	13800	25000	39900	105	70-130	
Manganese	ug/L	21.4	250	286	106	70-130	
Nickel	ug/L	<40.0	250	271	107	70-130	
Potassium	ug/L	10500	50000	59400	98	70-130	
Sodium	ug/L	100000	50000	155000	109	70-130	
Zinc	ug/L	87.0	1000	1180	110	70-130	

SAMPLE DUPLICATE: 194994

Parameter	Units	7030779001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	42.8J		
Barium	ug/L	<200	66.9J		
Calcium	ug/L	55600	52900	5	
Chromium	ug/L	<10.0	<10.0		
Copper	ug/L	59.6	57.4	4	
Iron	ug/L	152	149	2	
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	9380	8900	5	
Manganese	ug/L	14.2	14.8	4	
Nickel	ug/L	<40.0	1.7J		
Potassium	ug/L	7440	7180	4	
Sodium	ug/L	50900	47000	8	
Zinc	ug/L	38.3	36.7	4	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

SAMPLE DUPLICATE: 194996

Parameter	Units	7030780001 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	247	244	1	
Barium	ug/L	<200	67.6J		
Calcium	ug/L	76800	77100	0	
Chromium	ug/L	<10.0	1.9J		
Copper	ug/L	90.4	90.5	0	
Iron	ug/L	623	620	0	
Lead	ug/L	<5.0	1.4J		
Magnesium	ug/L	13800	13900	1	
Manganese	ug/L	21.4	21.4	0	
Nickel	ug/L	<40.0	4.2J		
Potassium	ug/L	10500	10400	2	
Sodium	ug/L	100000	102000	2	
Zinc	ug/L	87.0	86.6	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

QC Batch: 40917 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008, 7030815009

METHOD BLANK: 190508 Matrix: Water
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008, 7030815009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	09/28/17 12:18	
1,1-Dichloroethane	ug/L	<1.0	1.0	09/28/17 12:18	
1,1-Dichloroethene	ug/L	<1.0	1.0	09/28/17 12:18	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	09/28/17 12:18	
1,2-Dichloroethane	ug/L	<1.0	1.0	09/28/17 12:18	
1,2-Dichloropropane	ug/L	<1.0	1.0	09/28/17 12:18	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	09/28/17 12:18	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	09/28/17 12:18	
Benzene	ug/L	<1.0	1.0	09/28/17 12:18	
Bromodichloromethane	ug/L	<1.0	1.0	09/28/17 12:18	
Bromoform	ug/L	<1.0	1.0	09/28/17 12:18	
Carbon tetrachloride	ug/L	<1.0	1.0	09/28/17 12:18	
Chlorobenzene	ug/L	<1.0	1.0	09/28/17 12:18	
Chloroethane	ug/L	<1.0	1.0	09/28/17 12:18	
Chloroform	ug/L	<1.0	1.0	09/28/17 12:18	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	09/28/17 12:18	
Dibromochloromethane	ug/L	<1.0	1.0	09/28/17 12:18	
Dichlorodifluoromethane	ug/L	<1.0	1.0	09/28/17 12:18	
Ethylbenzene	ug/L	<1.0	1.0	09/28/17 12:18	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	09/28/17 12:18	
m&p-Xylene	ug/L	<2.0	2.0	09/28/17 12:18	
Methylene Chloride	ug/L	<1.0	1.0	09/28/17 12:18	
n-Butylbenzene	ug/L	<1.0	1.0	09/28/17 12:18	
o-Xylene	ug/L	<1.0	1.0	09/28/17 12:18	
tert-Butylbenzene	ug/L	<1.0	1.0	09/28/17 12:18	
Tetrachloroethene	ug/L	<1.0	1.0	09/28/17 12:18	
Toluene	ug/L	<1.0	1.0	09/28/17 12:18	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	09/28/17 12:18	
Trichloroethene	ug/L	<1.0	1.0	09/28/17 12:18	
Vinyl chloride	ug/L	<1.0	1.0	09/28/17 12:18	
Xylene (Total)	ug/L	<2.0	2.0	09/28/17 12:18	
1,2-Dichloroethane-d4 (S)	%.	102	68-153	09/28/17 12:18	
4-Bromofluorobenzene (S)	%.	102	79-124	09/28/17 12:18	
Toluene-d8 (S)	%.	98	69-124	09/28/17 12:18	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

LABORATORY CONTROL SAMPLE: 190509

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.3	115	65-118	CH
1,1-Dichloroethane	ug/L	50	41.2	82	83-151	L2
1,1-Dichloroethene	ug/L	50	47.1	94	45-146	
1,2-Dichlorobenzene	ug/L	50	45.6	91	74-113	
1,2-Dichloroethane	ug/L	50	53.0	106	74-129	
1,2-Dichloropropane	ug/L	50	41.6	83	75-117	
1,3-Dichlorobenzene	ug/L	50	47.0	94	71-112	
1,4-Dichlorobenzene	ug/L	50	47.3	95	71-113	
Benzene	ug/L	50	45.9	92	73-119	
Bromodichloromethane	ug/L	50	54.9	110	78-117	
Bromoform	ug/L	50	62.2	124	65-122	CH,L1
Carbon tetrachloride	ug/L	50	60.9	122	59-120	CH,L1
Chlorobenzene	ug/L	50	52.5	105	75-113	
Chloroethane	ug/L	50	36.8	74	49-151	
Chloroform	ug/L	50	48.3	97	72-122	
cis-1,2-Dichloroethene	ug/L	50	44.7	89	72-121	
Dibromochloromethane	ug/L	50	58.5	117	70-120	
Dichlorodifluoromethane	ug/L	50	30.3	61	22-154	CH
Ethylbenzene	ug/L	50	51.8	104	70-113	
Isopropylbenzene (Cumene)	ug/L	50	42.3	85	67-115	
m&p-Xylene	ug/L	100	103	103	72-115	
Methylene Chloride	ug/L	50	37.9	76	61-142	
n-Butylbenzene	ug/L	50	43.2	86	73-107	
o-Xylene	ug/L	50	52.4	105	73-117	
tert-Butylbenzene	ug/L	50	44.0	88	68-100	
Tetrachloroethene	ug/L	50	56.9	114	60-128	CH
Toluene	ug/L	50	48.9	98	72-119	
trans-1,2-Dichloroethene	ug/L	50	44.2	88	56-142	
Trichloroethene	ug/L	50	51.7	103	69-117	
Vinyl chloride	ug/L	50	34.8	70	43-143	
Xylene (Total)	ug/L	150	156	104	71-109	
1,2-Dichloroethane-d4 (S)	%.			105	68-153	
4-Bromofluorobenzene (S)	%.			104	79-124	
Toluene-d8 (S)	%.			96	69-124	

MATRIX SPIKE SAMPLE: 190875

Parameter	Units	7030715006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	51.9	104	65-118	CH
1,1-Dichloroethane	ug/L	<1.0	50	36.6	73	83-151	M0
1,1-Dichloroethene	ug/L	<1.0	50	42.8	86	45-146	
1,2-Dichlorobenzene	ug/L	<1.0	50	40.9	82	74-113	
1,2-Dichloroethane	ug/L	<1.0	50	45.6	91	74-129	
1,2-Dichloropropane	ug/L	<1.0	50	36.1	72	75-117	M1
1,3-Dichlorobenzene	ug/L	<1.0	50	40.1	80	71-112	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

MATRIX SPIKE SAMPLE: 190875

Parameter	Units	7030715006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	<1.0	50	40.2	80	71-113	
Benzene	ug/L	<1.0	50	40.6	81	73-119	
Bromodichloromethane	ug/L	<1.0	50	46.4	93	78-117	
Bromoform	ug/L	<1.0	50	51.5	103	65-122	CH
Carbon tetrachloride	ug/L	<1.0	50	54.9	110	59-120	CH
Chlorobenzene	ug/L	<1.0	50	47.0	94	75-113	
Chloroethane	ug/L	<1.0	50	32.6	65	49-151	
Chloroform	ug/L	<1.0	50	43.0	86	72-122	
cis-1,2-Dichloroethene	ug/L	<1.0	50	40.0	80	72-121	
Dibromochloromethane	ug/L	<1.0	50	49.9	100	70-120	
Dichlorodifluoromethane	ug/L	<1.0	50	34.1	68	22-154	CH
Ethylbenzene	ug/L	<1.0	50	45.9	92	70-113	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	37.2	74	67-115	
m&p-Xylene	ug/L	<2.0	100	89.7	90	72-115	
Methylene Chloride	ug/L	<1.0	50	34.0	68	61-142	
n-Butylbenzene	ug/L	<1.0	50	32.4	65	73-107	M1
o-Xylene	ug/L	<1.0	50	45.6	91	73-117	
tert-Butylbenzene	ug/L	<1.0	50	37.1	74	68-100	
Tetrachloroethene	ug/L	<1.0	50	52.5	105	60-128	CH
Toluene	ug/L	<1.0	50	43.4	87	72-119	
trans-1,2-Dichloroethene	ug/L	<1.0	50	40.8	82	56-142	
Trichloroethene	ug/L	<1.0	50	47.4	95	69-117	
Vinyl chloride	ug/L	<1.0	50	31.0	62	43-143	
Xylene (Total)	ug/L	<2.0	150	135	90	71-109	
1,2-Dichloroethane-d4 (S)	%.				102	68-153	
4-Bromofluorobenzene (S)	%.				104	79-124	
Toluene-d8 (S)	%.				97	69-124	

SAMPLE DUPLICATE: 190874

Parameter	Units	7030715001 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	1.3	1.1	17	
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,4-Dichlorobenzene	ug/L	3.3	3.3	0	
Benzene	ug/L	3.4	3.2	6	
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	2.7	2.7	1	
Chloroethane	ug/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

SAMPLE DUPLICATE: 190874

Parameter	Units	7030715001 Result	Dup Result	RPD	Qualifiers
Chloroform	ug/L	<1.0	<1.0		
cis-1,2-Dichloroethene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	9.7	9.1	7	
m&p-Xylene	ug/L	2.3	2.0J		
Methylene Chloride	ug/L	<1.0	<1.0		
n-Butylbenzene	ug/L	<1.0	<1.0		
o-Xylene	ug/L	1.5	1.6	2	
tert-Butylbenzene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	3.8	3.6	6	
1,2-Dichloroethane-d4 (S)	%.	103	101	2	
4-Bromofluorobenzene (S)	%.	102	104	3	
Toluene-d8 (S)	%.	96	97	2	

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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

QC Batch: 41609 Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815006, 7030815007, 7030815008

METHOD BLANK: 193895 Matrix: Water
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815006, 7030815007, 7030815008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	10/04/17 09:16	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<1.0	1.0	10/04/17 09:16	
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0	1.0	10/04/17 09:16	

LABORATORY CONTROL SAMPLE: 193896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	22.4	90	80-120	

MATRIX SPIKE SAMPLE: 193898

Parameter	Units	7031077001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	86.2	50	119	66	75-125	M1
Alkalinity,Bicarbonate (CaCO3)	mg/L	86.2	50	73.8	-25	75-125	M0
Alkalinity,Carbonate (CaCO3)	mg/L	<1.0		45.6			

SAMPLE DUPLICATE: 193897

Parameter	Units	7031077001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	86.2	70.8	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	86.2	70.8	20	
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
Pace Project No.: 7030815

QC Batch: 41797 Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity, High Level
Associated Lab Samples: 7030815005

METHOD BLANK: 194789 Matrix: Water
Associated Lab Samples: 7030815005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	1.0J	5.0	10/05/17 07:38	

LABORATORY CONTROL SAMPLE: 194790

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	125	130	104	80-120	

MATRIX SPIKE SAMPLE: 194792

Parameter	Units	7030815005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	957	250	1070	45	75-125	M1

SAMPLE DUPLICATE: 194791

Parameter	Units	7030815005 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	957	847	12	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

QC Batch: 41611 Analysis Method: SM22 2340C
QC Batch Method: SM22 2340C Analysis Description: 2340C Hardness, Total
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

METHOD BLANK: 193903 Matrix: Water
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness	mg/L	<5.0	5.0	10/04/17 11:04	

LABORATORY CONTROL SAMPLE: 193904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness	mg/L	100	103	103	90-110	

MATRIX SPIKE SAMPLE: 193905

Parameter	Units	7030715001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Hardness	mg/L	147	667	647	75	75-125	

SAMPLE DUPLICATE: 193906

Parameter	Units	7030715001 Result	Dup Result	RPD	Qualifiers
Total Hardness	mg/L	147	147	0	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

QC Batch: 40939 Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

METHOD BLANK: 190650 Matrix: Water
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	09/28/17 13:56	

LABORATORY CONTROL SAMPLE: 190651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	468	94	85-115	

MATRIX SPIKE SAMPLE: 190653

Parameter	Units	7030799002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	384	600	962	96	75-125	

MATRIX SPIKE SAMPLE: 190850

Parameter	Units	7030897001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	754	600	1240	80	75-125	

SAMPLE DUPLICATE: 190652

Parameter	Units	7030799002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	384	390	2	

SAMPLE DUPLICATE: 190849

Parameter	Units	7030897001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	754	748	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

QC Batch: 40251 Analysis Method: SM22 3500-Cr B
QC Batch Method: SM22 3500-Cr B Analysis Description: Chromium, Hexavalent by 3500
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008, 7030815010, 7030815011, 7030815012, 7030815013, 7030815014, 7030815015, 7030815016, 7030815017

METHOD BLANK: 187497 Matrix: Water
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008, 7030815010, 7030815011, 7030815012, 7030815013, 7030815014, 7030815015, 7030815016, 7030815017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	09/22/17 23:40	

LABORATORY CONTROL SAMPLE: 187498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.2	0.21	107	85-115	

MATRIX SPIKE SAMPLE: 187517

Parameter	Units	7030815004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.10	1	0.97	97	75-125	

SAMPLE DUPLICATE: 187518

Parameter	Units	7030815004 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.10	<0.10		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

QC Batch: 41946 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

METHOD BLANK: 195404 Matrix: Water
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	0.23J	2.0	10/05/17 18:36	
Sulfate	mg/L	<5.0	5.0	10/05/17 18:36	

LABORATORY CONTROL SAMPLE: 195405

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	9.9	99	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE SAMPLE: 195406

Parameter	Units	7030843001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	7.3	10	16.9	96	80-120	
Sulfate	mg/L	<5.0	10	8.9	88	80-120	

MATRIX SPIKE SAMPLE: 195408

Parameter	Units	7030949001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	24.9	10	35.7	108	80-120	
Sulfate	mg/L	15.4	10	25.7	103	80-120	

SAMPLE DUPLICATE: 195407

Parameter	Units	7030843001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	7.3	7.4	1	
Sulfate	mg/L	<5.0	0.22J		

SAMPLE DUPLICATE: 195409

Parameter	Units	7030949001 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	24.9	25.2	1	
Sulfate	mg/L	15.4	16.2	5	

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REPORT OF LABORATORY ANALYSIS

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(631)694-3040

QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

QC Batch: 41792 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

METHOD BLANK: 194771 Matrix: Water
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	0.10	10/05/17 13:13	

LABORATORY CONTROL SAMPLE: 194772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	4.2	105	90-110	

MATRIX SPIKE SAMPLE: 194773

Parameter	Units	7031352003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.71	4	4.5	96	90-110	

MATRIX SPIKE SAMPLE: 194775

Parameter	Units	7030808001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	22.3	4	27.2	122	90-110	M6

SAMPLE DUPLICATE: 194774

Parameter	Units	7031352003 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.71	0.85	18	

SAMPLE DUPLICATE: 194776

Parameter	Units	7030808001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	22.3	22.1	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

QC Batch: 40239 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrite, Unpres.
Associated Lab Samples: 7030815001, 7030815002, 7030815003

METHOD BLANK: 187428 Matrix: Water
Associated Lab Samples: 7030815001, 7030815002, 7030815003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	09/22/17 20:44	

LABORATORY CONTROL SAMPLE: 187429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.1	107	90-110	

MATRIX SPIKE SAMPLE: 187430

Parameter	Units	7030760001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	.5	0.28	57	90-110	M1

MATRIX SPIKE SAMPLE: 187432

Parameter	Units	7030754001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	.5	0.50	101	90-110	

SAMPLE DUPLICATE: 187431

Parameter	Units	7030760001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 187433

Parameter	Units	7030754001 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
Pace Project No.: 7030815

QC Batch: 40240 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrite, Unpres.
Associated Lab Samples: 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

METHOD BLANK: 187434 Matrix: Water
Associated Lab Samples: 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	09/22/17 21:20	

LABORATORY CONTROL SAMPLE: 187435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.1	109	90-110	

MATRIX SPIKE SAMPLE: 187436

Parameter	Units	7030815006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	.5	0.52	104	90-110	

MATRIX SPIKE SAMPLE: 187438

Parameter	Units	7030815007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	.5	0.52	104	90-110	

SAMPLE DUPLICATE: 187437

Parameter	Units	7030815006 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 187439

Parameter	Units	7030815007 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
Pace Project No.: 7030815

QC Batch: 40253 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

METHOD BLANK: 187507 Matrix: Water
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	09/22/17 23:23	

LABORATORY CONTROL SAMPLE: 187508

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: 187509

Parameter	Units	7030815006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1.8	5	6.9	103	90-110	

MATRIX SPIKE SAMPLE: 187511

Parameter	Units	7030815007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	3.3	5	8.2	99	90-110	

SAMPLE DUPLICATE: 187510

Parameter	Units	7030815006 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1.8	1.8	1	

SAMPLE DUPLICATE: 187512

Parameter	Units	7030815007 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	3.3	3.3	2	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

QC Batch: 41707 Analysis Method: EPA 420.1
QC Batch Method: EPA 420.1 Analysis Description: 420.1 Phenolics Macro
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

METHOD BLANK: 194191 Matrix: Water
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	5.0	10/04/17 15:09	

LABORATORY CONTROL SAMPLE: 194192

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	30	32.5	108	90-110	

MATRIX SPIKE SAMPLE: 194193

Parameter	Units	7030815001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	1.6J	20	24.9	116	75-125	

MATRIX SPIKE SAMPLE: 194195

Parameter	Units	7030577016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	3.8J	20	25.8	110	75-125	

SAMPLE DUPLICATE: 194194

Parameter	Units	7030815001 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	1.6J	3.8J		

SAMPLE DUPLICATE: 194196

Parameter	Units	7030577016 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	3.8J	3.4J		

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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
Pace Project No.: 7030815

QC Batch: 41992 Analysis Method: SM22 4500-CN-E
QC Batch Method: SM20/22 4500-CN-C Analysis Description: 4500 CNE Cyanide, Total
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

METHOD BLANK: 195821 Matrix: Water
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004, 7030815005, 7030815006, 7030815007, 7030815008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	<10.0	10.0	10/06/17 12:24	

LABORATORY CONTROL SAMPLE: 195822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	70.6	94	85-115	

MATRIX SPIKE SAMPLE: 195823

Parameter	Units	7030845001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<0.010 mg/L	100	24.2	24	75-125	M1

SAMPLE DUPLICATE: 195824

Parameter	Units	7030845001 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	<0.010 mg/L	<10.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

QC Batch: 42058 Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004

METHOD BLANK: 196014 Matrix: Water
Associated Lab Samples: 7030815001, 7030815002, 7030815003, 7030815004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	0.10	10/06/17 14:08	

LABORATORY CONTROL SAMPLE: 196015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	107	90-110	

MATRIX SPIKE SAMPLE: 196016

Parameter	Units	7031350001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.39	1	1.4	104	75-125	

SAMPLE DUPLICATE: 196017

Parameter	Units	7031350001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.39	0.40	1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

QC Batch: 42059 Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
Associated Lab Samples: 7030815005, 7030815006, 7030815007

METHOD BLANK: 196026 Matrix: Water
Associated Lab Samples: 7030815005, 7030815006, 7030815007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	0.10	10/06/17 14:47	

LABORATORY CONTROL SAMPLE: 196027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	108	90-110	

MATRIX SPIKE SAMPLE: 196028

Parameter	Units	7031059001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	21.6	10	28.8	72	75-125	M6

SAMPLE DUPLICATE: 196029

Parameter	Units	7031059001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	21.6	23.8	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLD BETHPAGE
Pace Project No.: 7030815

QC Batch: 42203 Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
Associated Lab Samples: 7030815008

METHOD BLANK: 197045 Matrix: Water
Associated Lab Samples: 7030815008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	0.10	10/09/17 08:23	

LABORATORY CONTROL SAMPLE: 197046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 197049

Parameter	Units	7030577002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.026J	1	0.89	87	75-125	

SAMPLE DUPLICATE: 197050

Parameter	Units	7030577002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.026J	0.023J		

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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
Pace Project No.: 7030815

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.

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.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE
Pace Project No.: 7030815

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7030815001	**MW-6F**	EPA 200.7	41861	EPA 200.7	41891
7030815002	**MW-6C**	EPA 200.7	41861	EPA 200.7	41891
7030815003	**MW-6E**	EPA 200.7	41861	EPA 200.7	41891
7030815004	**BLIND DUPLICATE**	EPA 200.7	41861	EPA 200.7	41891
7030815005	**MW-6B**	EPA 200.7	41861	EPA 200.7	41891
7030815006	**MW-8B**	EPA 200.7	41861	EPA 200.7	41891
7030815007	**MW-8A**	EPA 200.7	41861	EPA 200.7	41891
7030815008	**FIELD BLANK**	EPA 200.7	41861	EPA 200.7	41891
7030815010	**MW-6F**	EPA 200.7	42011		
7030815011	**MW-6C**	EPA 200.7	42011		
7030815012	**MW-6E**	EPA 200.7	42011		
7030815013	**BLIND DUPLICATE**	EPA 200.7	42011		
7030815014	**MW-6B**	EPA 200.7	42011		
7030815015	**MW-8B**	EPA 200.7	42011		
7030815016	**MW-8A**	EPA 200.7	42011		
7030815017	**FIELD BLANK**	EPA 200.7	42011		
7030815001	**MW-6F**	EPA 245.1	41865	EPA 245.1	41896
7030815002	**MW-6C**	EPA 245.1	41865	EPA 245.1	41896
7030815003	**MW-6E**	EPA 245.1	41865	EPA 245.1	41896
7030815004	**BLIND DUPLICATE**	EPA 245.1	41865	EPA 245.1	41896
7030815005	**MW-6B**	EPA 245.1	41865	EPA 245.1	41896
7030815006	**MW-8B**	EPA 245.1	41865	EPA 245.1	41896
7030815007	**MW-8A**	EPA 245.1	41865	EPA 245.1	41896
7030815008	**FIELD BLANK**	EPA 245.1	41865	EPA 245.1	41896
7030815010	**MW-6F**	EPA 245.1	41864	EPA 245.1	41895
7030815011	**MW-6C**	EPA 245.1	41864	EPA 245.1	41895
7030815012	**MW-6E**	EPA 245.1	41864	EPA 245.1	41895
7030815013	**BLIND DUPLICATE**	EPA 245.1	41864	EPA 245.1	41895
7030815014	**MW-6B**	EPA 245.1	41864	EPA 245.1	41895
7030815015	**MW-8B**	EPA 245.1	41864	EPA 245.1	41895
7030815016	**MW-8A**	EPA 245.1	41864	EPA 245.1	41895
7030815017	**FIELD BLANK**	EPA 245.1	41864	EPA 245.1	41895
7030815001	**MW-6F**	EPA 8260C/5030C	40917		
7030815002	**MW-6C**	EPA 8260C/5030C	40917		
7030815003	**MW-6E**	EPA 8260C/5030C	40917		
7030815004	**BLIND DUPLICATE**	EPA 8260C/5030C	40917		
7030815005	**MW-6B**	EPA 8260C/5030C	40917		
7030815006	**MW-8B**	EPA 8260C/5030C	40917		
7030815007	**MW-8A**	EPA 8260C/5030C	40917		
7030815008	**FIELD BLANK**	EPA 8260C/5030C	40917		
7030815009	**TRIP BLANK**	EPA 8260C/5030C	40917		
7030815001	**MW-6F**	SM22 2320B	41609		
7030815002	**MW-6C**	SM22 2320B	41609		
7030815003	**MW-6E**	SM22 2320B	41609		
7030815004	**BLIND DUPLICATE**	SM22 2320B	41609		
7030815006	**MW-8B**	SM22 2320B	41609		

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
Pace Project No.: 7030815

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7030815007	MW-8A	SM22 2320B	41609		
7030815008	FIELD BLANK	SM22 2320B	41609		
7030815005	MW-6B	SM22 2320B	41797		
7030815001	MW-6F	SM22 2340C	41611		
7030815002	MW-6C	SM22 2340C	41611		
7030815003	MW-6E	SM22 2340C	41611		
7030815004	BLIND DUPLICATE	SM22 2340C	41611		
7030815005	MW-6B	SM22 2340C	41611		
7030815006	MW-8B	SM22 2340C	41611		
7030815007	MW-8A	SM22 2340C	41611		
7030815008	FIELD BLANK	SM22 2340C	41611		
7030815001	MW-6F	SM22 2540C	40939		
7030815002	MW-6C	SM22 2540C	40939		
7030815003	MW-6E	SM22 2540C	40939		
7030815004	BLIND DUPLICATE	SM22 2540C	40939		
7030815005	MW-6B	SM22 2540C	40939		
7030815006	MW-8B	SM22 2540C	40939		
7030815007	MW-8A	SM22 2540C	40939		
7030815008	FIELD BLANK	SM22 2540C	40939		
7030815001	MW-6F	SM22 3500-Cr B	40251		
7030815002	MW-6C	SM22 3500-Cr B	40251		
7030815003	MW-6E	SM22 3500-Cr B	40251		
7030815004	BLIND DUPLICATE	SM22 3500-Cr B	40251		
7030815005	MW-6B	SM22 3500-Cr B	40251		
7030815006	MW-8B	SM22 3500-Cr B	40251		
7030815007	MW-8A	SM22 3500-Cr B	40251		
7030815008	FIELD BLANK	SM22 3500-Cr B	40251		
7030815010	MW-6F	SM22 3500-Cr B	40251		
7030815011	MW-6C	SM22 3500-Cr B	40251		
7030815012	MW-6E	SM22 3500-Cr B	40251		
7030815013	BLIND DUPLICATE	SM22 3500-Cr B	40251		
7030815014	MW-6B	SM22 3500-Cr B	40251		
7030815015	MW-8B	SM22 3500-Cr B	40251		
7030815016	MW-8A	SM22 3500-Cr B	40251		
7030815017	FIELD BLANK	SM22 3500-Cr B	40251		
7030815001	MW-6F	EPA 300.0	41946		
7030815002	MW-6C	EPA 300.0	41946		
7030815003	MW-6E	EPA 300.0	41946		
7030815004	BLIND DUPLICATE	EPA 300.0	41946		
7030815005	MW-6B	EPA 300.0	41946		
7030815006	MW-8B	EPA 300.0	41946		
7030815007	MW-8A	EPA 300.0	41946		
7030815008	FIELD BLANK	EPA 300.0	41946		
7030815001	MW-6F	EPA 351.2	41792	EPA 351.2	41801
7030815002	MW-6C	EPA 351.2	41792	EPA 351.2	41801
7030815003	MW-6E	EPA 351.2	41792	EPA 351.2	41801

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLD BETHPAGE
Pace Project No.: 7030815

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7030815004	BLIND DUPLICATE	EPA 351.2	41792	EPA 351.2	41801
7030815005	MW-6B	EPA 351.2	41792	EPA 351.2	41801
7030815006	MW-8B	EPA 351.2	41792	EPA 351.2	41801
7030815007	MW-8A	EPA 351.2	41792	EPA 351.2	41801
7030815008	FIELD BLANK	EPA 351.2	41792	EPA 351.2	41801
7030815001	MW-6F	EPA 353.2	40253		
7030815002	MW-6C	EPA 353.2	40253		
7030815003	MW-6E	EPA 353.2	40253		
7030815004	BLIND DUPLICATE	EPA 353.2	40253		
7030815005	MW-6B	EPA 353.2	40253		
7030815006	MW-8B	EPA 353.2	40253		
7030815007	MW-8A	EPA 353.2	40253		
7030815008	FIELD BLANK	EPA 353.2	40253		
7030815001	MW-6F	EPA 353.2	40239		
7030815002	MW-6C	EPA 353.2	40239		
7030815003	MW-6E	EPA 353.2	40239		
7030815004	BLIND DUPLICATE	EPA 353.2	40240		
7030815005	MW-6B	EPA 353.2	40240		
7030815006	MW-8B	EPA 353.2	40240		
7030815007	MW-8A	EPA 353.2	40240		
7030815008	FIELD BLANK	EPA 353.2	40240		
7030815001	MW-6F	EPA 420.1	41707	EPA 420.1	41712
7030815002	MW-6C	EPA 420.1	41707	EPA 420.1	41712
7030815003	MW-6E	EPA 420.1	41707	EPA 420.1	41712
7030815004	BLIND DUPLICATE	EPA 420.1	41707	EPA 420.1	41712
7030815005	MW-6B	EPA 420.1	41707	EPA 420.1	41712
7030815006	MW-8B	EPA 420.1	41707	EPA 420.1	41712
7030815007	MW-8A	EPA 420.1	41707	EPA 420.1	41712
7030815008	FIELD BLANK	EPA 420.1	41707	EPA 420.1	41712
7030815001	MW-6F	SM20/22 4500-CN-C	41992	SM22 4500-CN-E	42053
7030815002	MW-6C	SM20/22 4500-CN-C	41992	SM22 4500-CN-E	42053
7030815003	MW-6E	SM20/22 4500-CN-C	41992	SM22 4500-CN-E	42053
7030815004	BLIND DUPLICATE	SM20/22 4500-CN-C	41992	SM22 4500-CN-E	42053
7030815005	MW-6B	SM20/22 4500-CN-C	41992	SM22 4500-CN-E	42053
7030815006	MW-8B	SM20/22 4500-CN-C	41992	SM22 4500-CN-E	42053
7030815007	MW-8A	SM20/22 4500-CN-C	41992	SM22 4500-CN-E	42053
7030815008	FIELD BLANK	SM20/22 4500-CN-C	41992	SM22 4500-CN-E	42053
7030815001	MW-6F	SM22 4500 NH3 H	42058		
7030815002	MW-6C	SM22 4500 NH3 H	42058		
7030815003	MW-6E	SM22 4500 NH3 H	42058		
7030815004	BLIND DUPLICATE	SM22 4500 NH3 H	42058		
7030815005	MW-6B	SM22 4500 NH3 H	42059		
7030815006	MW-8B	SM22 4500 NH3 H	42059		
7030815007	MW-8A	SM22 4500 NH3 H	42059		
7030815008	FIELD BLANK	SM22 4500 NH3 H	42203		

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
Pace Project No.: 7030815

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

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request D

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

WO#: 7030815

7030815

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: D+B	Report To:	Attention:
Address: 330 Crossways Park Dr. Woodbury NY 11797	Copy To: SAME	Company Name: SAME
Email To: Acaniano@db-eng.com	Purchase Order No.:	Address:
Phone: 516-364-9890 Fax:	Project Name: Old Bethpage	Pace Quote Reference:
Requested Due Date/TAT: Standard	Project Number: 3617	Pace Project Manager: Jen Aracri
		Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs (acetate Indicates total metals Dissolved metals(F)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	DT							2				2								009
2	MW-6F	WT	G			9/22/17	0915		7	1	1	2	2	1							001/010
3	MW-6C	WT	G			9/22/17	0955		7	1	1	2	2	1							002/011
4	MW-6E	WT	G			9/22/17	1115		7	1	1	2	2	1							003/012
5	Blind Duplicate	WT	G			9/22/17	0000		7	1	1	2	2	1							004/013
6	MW-6B	WT	G			9/22/17	1155		7	1	1	2	2	1							005/014
7	MW-8B	WT	G			9/22/17	1305		7	1	1	2	2	1							006/015
8	MW-8A	WT	G			9/22/17	1345		7	1	1	2	2	1							007/016
9	Field Blank	WT	G			9/22/17	1400		7	1	1	2	2	1							008/017
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
*Dissolved metals filtered in field, marked w/ "F"	/ D+B	9/22/17	14:40		9/22/17	14:40	1.1°C
*Only analyze hex. chromium if total chromium exceeds Class GA Standards							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 9/22/17

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

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical™ Long Island Laboratory

Sample Condition Up

WO#: 7030815

PM: JSA Due Date: 10/06/17

CLIENT: TOY

Client Name: D&B

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

Tracking #:

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

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH092 Correction Factor: +0.1 ☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 1.1 Cooler Temperature Corrected (°C): 1.2 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample) Date and Initials of person examining contents: JK 9/22/17

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 #	☐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:	☐Yes	☐No	☒N/A	14. 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

PREVIOUSLY COLLECTED POST-TERMINATION GROUNDWATER MONITORING DATA

Table E-1
Old Bethpage Landfill Complex
Post-Termination Groundwater Monitoring Program
Previously Collected 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 E-2
Old Bethpage Landfill Complex
Post-Termination Groundwater Monitoring Program
Previously Collected Monitoring Well Sample Results
Total and Dissolved Metals

Sample ID		LF-1	LF-1	LF-2	LF-2	MW-5B	MW-5B	MW-6B	MW-6B	MW-6C	MW-6C	MW-6E	MW-6E
Sample Date		06/22/2017	06/22/2017	06/20/2017	06/20/2017	06/20/2017	06/20/2017	06/21/2017	06/21/2017	06/21/2017	06/21/2017	06/21/2017	06/21/2017
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	--	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

D&B Engineers and Architects, P.C.

Table E-2
Old Bethpage Landfill Complex
Post-Termination Groundwater Monitoring Program
Previously Collected 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

D&B Engineers and Architects, P.C.

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

Sample ID / Sample Date / Units in mg/l		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

D&B Engineers and Architects, P.C.