

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGION 3/SOLID WASTE PROGRAM
ANNUAL POST-CLOSURE MONITORING & MAINTENANCE REPORT FOR LANDFILLS

This report form provides a standard format for owners of closed municipal solid waste landfills to report to the Department regarding post-closure monitoring and maintenance activities which have occurred during the past year. Use of this form will ensure that information needed by the operator and Department staff is readily available. Reporting of non-essential information is avoided. By completing and submitting this form on an annual basis, all reporting requirements connected with the closed landfill are satisfied and there is no need to submit any additional reports or paperwork. This form should be submitted once per year on a schedule which coincides with completion of the annual or fourth quarter groundwater monitoring event.

SECTION A - FACILITY DATA

1. REPORTING PERIOD (mm/dd/yy to mm/dd/yy): _____

2. OWNER OF LANDFILL: _____

3. ADDRESS OF LANDFILL: _____

4. LOCATION OF LANDFILL: County: _____ Municipality: _____

5. CONTACT PERSON: Name: _____ Address: _____
Phone: _____

6. SIZE OF LANDFILL (Acres): _____

7. PERIOD OF OPERATION (Yr to Yr): _____

8. DATE OF COMPLETION OF CLOSURE CONSTRUCTION (mm/yy): _____

9. TYPE OF LANDFILL CAP (check one): ☐ Geomembrane ☐ Clay ☐ Composite
☐ Other - Specify _____

10. LANDFILL GAS MANAGEMENT (Check all that apply): ☐ Passive Venting ☐ Flares
☐ Gas Filter ☐ Gas Collection ☐ Power Generation ☐ Other- Specify _____

11. LEACHATE MANAGEMENT: Does the landfill have a leachate collection system ? ☐ Y ☐ N

12. DATE OF CLOSURE CERTIFICATION (mm/dd/yy): _____

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGION 3/SOLID WASTE PROGRAM
ANNUAL POST-CLOSURE MONITORING & MAINTENANCE REPORT FOR LANDFILLS

13. NAME OF CERTIFYING ENGINEER: _____

14. GRANTED REGULATORY RELIEF VARIANCES (Check all that apply): ☐ Topsoil Layer
☐ Barrier Layer ☐ Barrier Protection Layer ☐ Gas Vent Layer I ☐ Gas Vent Layer II ☐ Post
Closure Monitoring I ☐ Post Closure Monitoring II

15. DATE OF LAST MOWING OF VEGETATIVE COVER: _____

SECTION B - LANDFILL INSPECTION

1. DATE OF LAST INSPECTION (mm/dd/yy): _____

2. NAME(S) OF INSPECTOR(S): _____

3. Was entire landfill surface and entire landfill perimeter inspected ? ☐ Y ☐ N; If no, describe extent
of inspection:

4. Was the entire landfill surface covered with suitable vegetation (e.g. shallow rooting) and free of soil
erosion ? ☐ Y ☐ N; If no, identify problems identified and corrective actions taken or planned:

5. Were active leachate discharges, iron-stained surface soils or other signs of leachate breakouts noted ?
☐ Y ☐ N; If yes, describe the nature of the problem and corrective actions taken or planned:

6. Were areas of surface water ponding observed on the landfill surface ? ☐ Y ☐ N; If yes, describe
the nature of the problem and corrective actions taken or planned:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGION 3/SOLID WASTE PROGRAM
ANNUAL POST-CLOSURE MONITORING & MAINTENANCE REPORT FOR LANDFILLS

7. Were odors detected on or in the vicinity of the landfill ? ____ Y ____ N; If yes, describe the nature of the problem and corrective actions taken or planned:

8. Were vectors or evidence of vectors observed ? ____ Y ____ N; If yes, describe the nature of the problem and corrective actions taken or planned:

9. Was damage to the landfill cover system, gas vents, monitoring wells, leachate collection system or other landfill components observed ? ____ Y ____ N; If yes, describe the nature of the problem and corrective actions taken or planned:

10. Were there signs of dumping, ruts caused by vehicle tires, camp fires, or other signs of unauthorized public access or encroachment ? ____ Y ____ N; If yes, describe the nature of the problem and corrective actions taken or planned:

11. Were any other problems noted in addition to those identified in items 4 through 10, above ? ____ Y ____ N; If yes, describe the nature of the problem and corrective actions taken or planned:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGION 3/SOLID WASTE PROGRAM
ANNUAL POST-CLOSURE MONITORING & MAINTENANCE REPORT FOR LANDFILLS

SECTION C - WATER QUALITY MONITORING**1. CURRENT WATER QUALITY MONITORING PROGRAM (Check One):**

☒ Quarterly Routine/Annual Baseline ☐ Semi-Annual Baseline ☐ Annual Baseline
☐ Other - Specify: _____

2. DATE OF MOST RECENT WATER QUALITY SAMPLING EVENT (mm/dd/yy): 12/04/13

3. INDICATE EACH SAMPLING EVENT COMPLETED DURING PAST YEAR AND ATTACH THE DATA SUMMARY SHEETS FOR EACH SAMPLING EVENT:

☒ 1st Quarter ☒ 2nd Quarter ☒ 3rd Quarter ☒ 4th Quarter

4. LIST AND DESCRIBE THE WATER QUALITY MONITORING POINTS INCLUDED IN THE PROGRAM BY COMPLETING THE TABLE BELOW:

ID Number	Description: Indicate whether the monitoring point is for groundwater or surface water, upgradient or downgradient, completed in overburden or bedrock, and, if part of a well couplet, shallow or deep
MW-1S	Upgradient overburden groundwater
MW-2	Downgradient overburden groundwater
MW-3S	Downgradient overburden groundwater

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGION 3/SOLID WASTE PROGRAM
ANNUAL POST-CLOSURE MONITORING & MAINTENANCE REPORT FOR LANDFILLS

5. Using the following table, summarize each parameter detected during the reporting period, at a downgradient monitoring point, at a concentration exceeding the applicable water quality standard. (Include parameters which are undetected, if detection limit exceeds the standard.)

SEE ATTACHED BALEFILL SUMMARY TABLE

Sample Date	Sampling Point	Parameter	Units	Sample Result	Applicable Standard	Upgradient Results

6. Do results of the most recent water quality monitoring event indicate an improvement or a worsening in water quality when compared with those of previous water quality monitoring events ? ___ Y X N;
If yes, describe change, attach graphs or tables if appropriate.

These data represent the second year of quarterly post-closure monitoring. Attached data indicate some improvements and some increases in characteristic leachate parameters. These parameters may show a clearer trend given further observation.

Balefill Summary Table

Sampling Date	Sampling Point	Parameter	Units	Sample Result	Applicable Standard	Upgradient Results
5/29/2013	MW-2	Iron	mg/L	48	0.300	NA
5/29/2013	MW-2	Manganese	mg/L	11.8	0.300	NA
5/29/2013	MW-2	Total Phenols	mg/L	ND at 0.05	0.001	NA
5/29/2013	MW-3S	Iron	mg/L	51	0.300	NA
5/29/2013	MW-3S	Magnesium	mg/L	45.9	35	NA
5/29/2013	MW-3S	Manganese	mg/L	23	0.300	NA
5/29/2013	MW-3S	Total Phenols	mg/L	ND at 0.05	0.001	NA
7/1/2013	MW-2	Iron	mg/L	53.5	0.300	53.5 (MW-1)
7/1/2013	MW-2	Manganese	mg/L	12.0	0.300	12.0 (MW-1)
7/1/2013	MW-2	Total Phenols	mg/L	ND at 0.05	0.001	ND at 0.005 (MW-1)
7/1/2013	MW-3S	Iron	mg/L	33.1	0.300	53.5 (MW-1)
7/1/2013	MW-3S	Magnesium	mg/L	50.7	35	11.6 (MW-1)
7/1/2013	MW-3S	Manganese	mg/L	11.8	0.300	12.0 (MW-1)
7/1/2013	MW-3S	Total Phenols	mg/L	0.005	0.001	ND at 0.005 (MW-1)
9/27/2013	MW-2	Iron	mg/L	54.4	0.300	0.998 (MW-1)
9/27/2013	MW-2	Manganese	mg/L	12.8	0.300	0.413 (MW-1)
9/27/2013	MW-2	Total Phenols	mg/L	0.06	0.001	0.07 (MW-1)
9/27/2013	MW-3S	Iron	mg/L	31.4	0.300	0.988 (MW-1)
9/27/2013	MW-3S	Magnesium	mg/L	54.4	35	29.6 (MW-1)
9/27/2013	MW-3S	Manganese	mg/L	9.50	0.300	0.413 (MW-1)
9/27/2013	MW-3S	Total Phenols	mg/L	0.06	0.001	0.07 (MW-1)
12/4/2013	MW-2	1,1,2-Trichloroethane	ug/L	ND at 1.3	1	ND at 1.3 (MW-1)
12/4/2013	MW-2	1,2,3-Trichloropropane	ug/L	ND at 0.73	0.04	ND at 0.73 (MW-1)
12/4/2013	MW-2	1,2-Dibromo-3-chloropropane	ug/L	ND at 0.98	0.04	ND at 0.98 (MW-1)
12/4/2013	MW-2	cis-1,3-Dichloropropane	ug/L	ND at 1.3	0.4	ND at 1.3 (MW-1)
12/4/2013	MW-2	trans-1,3-Dichloropropane	ug/L	ND at 0.67	0.4	ND at 0.67 (MW-1)
12/4/2013	MW-2	Boron	mg/L	25.8	1	12.9 (MW-1)
12/4/2013	MW-2	Antimony	mg/L	ND at 0.005	0.005	ND at 0.005 (MW-1)
12/4/2013	MW-2	Cobalt	mg/L	ND at 0.005	0.005	ND at 0.005 (MW-1)
12/4/2013	MW-2	Iron	mg/L	49.3	0.300	0.347 (MW-1)
12/4/2013	MW-2	Manganese	mg/L	11.0	0.300	0.384 (MW-1)
12/4/2013	MW-2	Selenium	mg/L	0.023	0.01	0.012 (MW-1)
12/4/2013	MW-2	Ammonia	mg/L	2.27	2	ND at 0.5 (MW-1)
12/4/2013	MW-2	Total Phenols	mg/L	ND at 0.05	0.001	0.08 (MW-1)
12/4/2013	MW-3S	1,1,2-Trichloroethane	ug/L	ND at 1.3	1	ND at 1.3 (MW-1)
12/4/2013	MW-3S	1,2,3-Trichloropropane	ug/L	ND at 0.73	0.04	ND at 0.73 (MW-1)
12/4/2013	MW-3S	1,2-Dibromo-3-chloropropane	ug/L	ND at 0.98	0.04	ND at 0.98 (MW-1)
12/4/2013	MW-3S	cis-1,3-Dichloropropane	ug/L	ND at 0.41	0.4	ND at 1.3 (MW-1)
12/4/2013	MW-3S	trans-1,3-Dichloropropane	ug/L	ND at 0.67	0.4	ND at 0.67 (MW-1)
12/4/2013	MW-3S	Boron	mg/L	244	1	12.9 (MW-1)
12/4/2013	MW-3S	Antimony	mg/L	ND at 0.005	0.005	ND at 0.005 (MW-1)
12/4/2013	MW-3S	Cobalt	mg/L	0.016	0.005	ND at 0.005 (MW-1)
12/4/2013	MW-3S	Iron	mg/L	46.8	0.300	0.347 (MW-1)
12/4/2013	MW-3S	Magnesium	mg/L	51.1	35	28.0 (MW-1)
12/4/2013	MW-3S	Manganese	mg/L	12.7	0.300	0.384 (MW-1)
12/4/2013	MW-3S	Selenium	mg/L	0.045	0.01	0.012 (MW-1)
12/4/2013	MW-3S	Ammonia	mg/L	2.27	2	ND at 0.5 (MW-1)
12/4/2013	MW-3S	Total Phenols	mg/L	0.08	0.001	0.08 (MW-1)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGION 3/SOLID WASTE PROGRAM
ANNUAL POST-CLOSURE MONITORING & MAINTENANCE REPORT FOR LANDFILLS

SECTION D - IMPACTED OR POTENTIALLY IMPACTED RESIDENTIAL WATER SUPPLY WELLS

1. Are there residences served by private water supply wells located less than one mile from the landfill in the downgradient direction and not separated from the landfill by an intervening perennial stream or other groundwater discharge zone ? __Y __N;

If yes, provide the information requested in items 2 through 5, below.

2. Indicate the distance between the downgradient edge of the landfill and the nearest residential water supply well, in feet: _____

3. Have residential wells been sampled to determine whether there has been landfill-water quality impact ? __Y __N; If yes, provide the following information:

Date of most recent sampling event (mm/dd/yy): _____ Number of wells tested: _____

Samples collected by: _____ Was the County Health Department notified __Y __N

Parameters tested: _____

4. Using the following table, summarize each parameter detected during the reporting period, at a downgradient monitoring point, at a concentration exceeding the applicable drinking water standard. (Include parameters which are undetected, if detection limit exceeds the standard.)

Sample Date	Homeowner Name or Well ID	Parameter	Units	Sample Result	Applicable Standard

5. Explain cause of parameters exceeding standards, and if due to landfill-derived contamination, indicate what actions have been taken or are planned to mitigate water quality impact.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGION 3/SOLID WASTE PROGRAM
ANNUAL POST-CLOSURE MONITORING & MAINTENANCE REPORT FOR LANDFILLS

SECTION E - GAS MONITORING

1. Is landfill gas monitoring carried out at the landfill ? ☐ Y ☐ N; If yes, provide the following information:

Type of monitoring (Check all that are applicable):

- ☐ Landfill perimeter survey using temporary boreholes
- ☐ Landfill perimeter survey using permanent gas monitoring wells
- ☐ Landfill gas vents within waste mass (as well as inspection for blockage)
- ☐ Interior survey of on-site and nearby structures
- ☐ Landfill final cover areas where stressed vegetation and/or fissures are evident
- ☐ Continuous automatic monitoring devices installed in buildings
- ☐ Other - Specify: _____

Frequency of Monitoring: ☐ Quarterly ☐ Semi-annual ☐ Annual ☐ Other- Specify _____

Date of Most Recent Monitoring Event (mm/dd.yy): _____ (Attach data sheet and site plan showing sampling locations)

2. Have any explosive gas readings exceeding 25% of the lower explosive limit been detected during sampling events carried out during the past year ? ☐ Y ☐ N; If yes, indicate whether the readings indicate a potential threat to public safety, what actions have been taken or are planned to mitigate potential safety concerns or the rationale for why corrective action is not needed.

SECTION F - CERTIFICATION OF ACCURACY

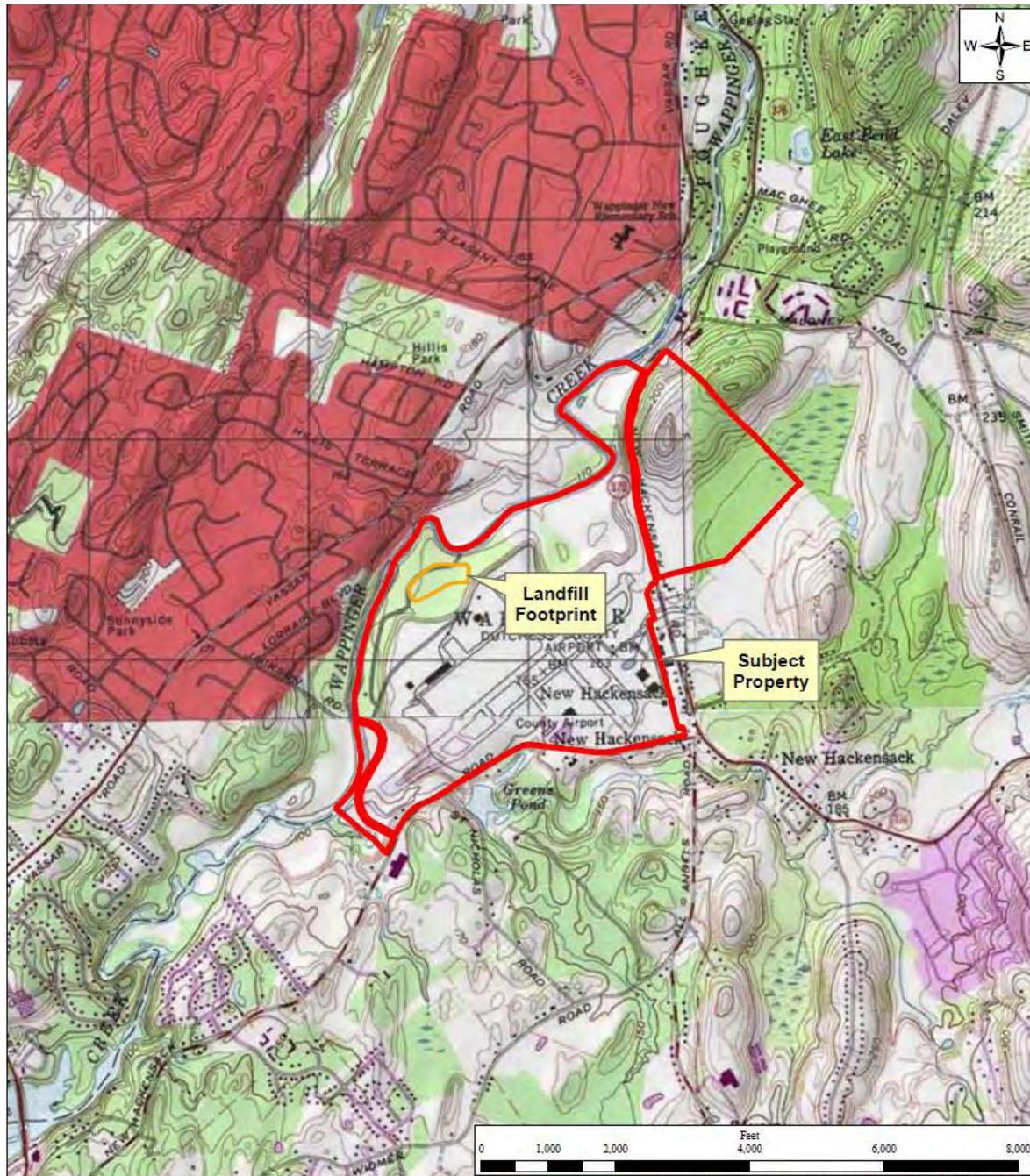
I certify that the information provided in this form is accurate and complete, to the best of my knowledge. I understand, that knowingly providing false information, may be grounds for enforcement action.

Name

Title

Signature

Date



Source: U.S.C.G. Topographic Map of Poughkeepsie 1995, Pleasant Valley 1957 (Photorevised 1981), Hopewell Junction 1957 (Photorevised 1981) and Wappingers Falls, New York 1956 (Photorevised 1981)

Site Location Map
Dutchess County Balefill
Citation Drive
Town of Wappingers Falls
Dutchess County, New York



ESI File: DW13102

February 2014

Figure 1



All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

Monitoring Well Location Map

Dutchess County Balefill
Citation Drive
Town of Wappingers Falls
Dutchess County, New York

Legend:

 monitoring well location

ESI File: DW13102.20

February 2014

Figure 2

TABLE 1: INORGANIC COMPOUND ANALYTICAL RESULTS

DUTCHESS COUNTY BALEFILL - TOTAL HARDNESS, mg/L					
Well ID	MW-1S		MW-2		MW-3S
Position	Upgradient		Downgradient		Downgradient
Formation	Overburden		Overburden		Overburden
11/17/2005	597		215		320
2/23/2006	329		164		597
5/23/2006	57.5		203		549
3/28/2012	375		170		692
6/12/2012	718		172		842
10/1/2012	1,080		286		636
12/5/2012	880		220		809
5/29/2013			153		642
7/1/2013	163		163		668
9/27/2013	356		173		700
12/4/2013	345		140		670
Summary Statistics					
Count	10		11		11
Minimum	58		140		320
Maximum	1,080		286		842
Mean	490.050		187.182		647.727
Std. Deviation	322.446		41.364		137.567
Median	365.500		172.000		668.000
10th Percentile	152.450		153.000		549.000
90th Percentile	900.000		220.000		809.000
Notes: 1. Non-detects are shown as values corresponding to the lab reporting limit followed by the "u" data qualifier. In calculating percentile values, all non-detects were ranked in a separate series below the detected values. 2. The qualifier "J" indicates a value below the laboratory reporting limit but above the method detection limit. The value shown is an approximate value.					

TABLE 1: INORGANIC COMPOUND ANALYTICAL RESULTS

DUTCHESS COUNTY BALEFILL - IRON, mg/L					
Well ID	MW-1S		MW-2		MW-3S
Position	Upgradient		Downgradient		Downgradient
Formation	Overburden		Overburden		Overburden
11/17/2005	0.451		15.3		0.448
2/23/2006	0.207		15.7		0.227
5/23/2006	0.073		21.6		0.365
3/28/2012	1.68		47.8		1.54
6/12/2012	0.01	u	47.1		2.48
10/1/2012	0.0174		26.3		26.3
12/5/2012	0.02	u	65.4		29.0
5/29/2013			48.0		51.8
7/1/2013	53.3		53.1		33.1
9/27/2013	0.998		54.4		31.4
12/4/2013	0.347		49.7		46.8
Summary Statistics					
Count	10		11		11
Minimum	0.01		15.3		0.227
Maximum	53.30		65.4		51.8
Mean	5.710		40.400		20.315
Std. Deviation	16.730		17.374		19.893
Median	0.277		47.800		26.300
10th Percentile	0.017		15.700		0.365
90th Percentile	6.842		54.400		46.800
Notes: 1. Values exceeding the applicable groundwater quality standard (0.300 mg/L) are shown in bold. 2. Non-detects are shown as values corresponding to the lab reporting limit followed by the "u" data qualifier. In calculating percentile values, all non-detects were ranked in a separate series below the detected values. 3. The qualifier "J" indicates a value below the laboratory reporting limit but above the method detection limit. The value shown is an approximate value. 4. Data for MW-1S from June, October and December represent dissolved levels of iron. Dissolved metals analysis was requested due to elevated sample turbidity.					

**Dutchess County Balefill, Iron in Downgradient Locations Exceeding Water Quality Standards
(MW-2, MW-3S)**

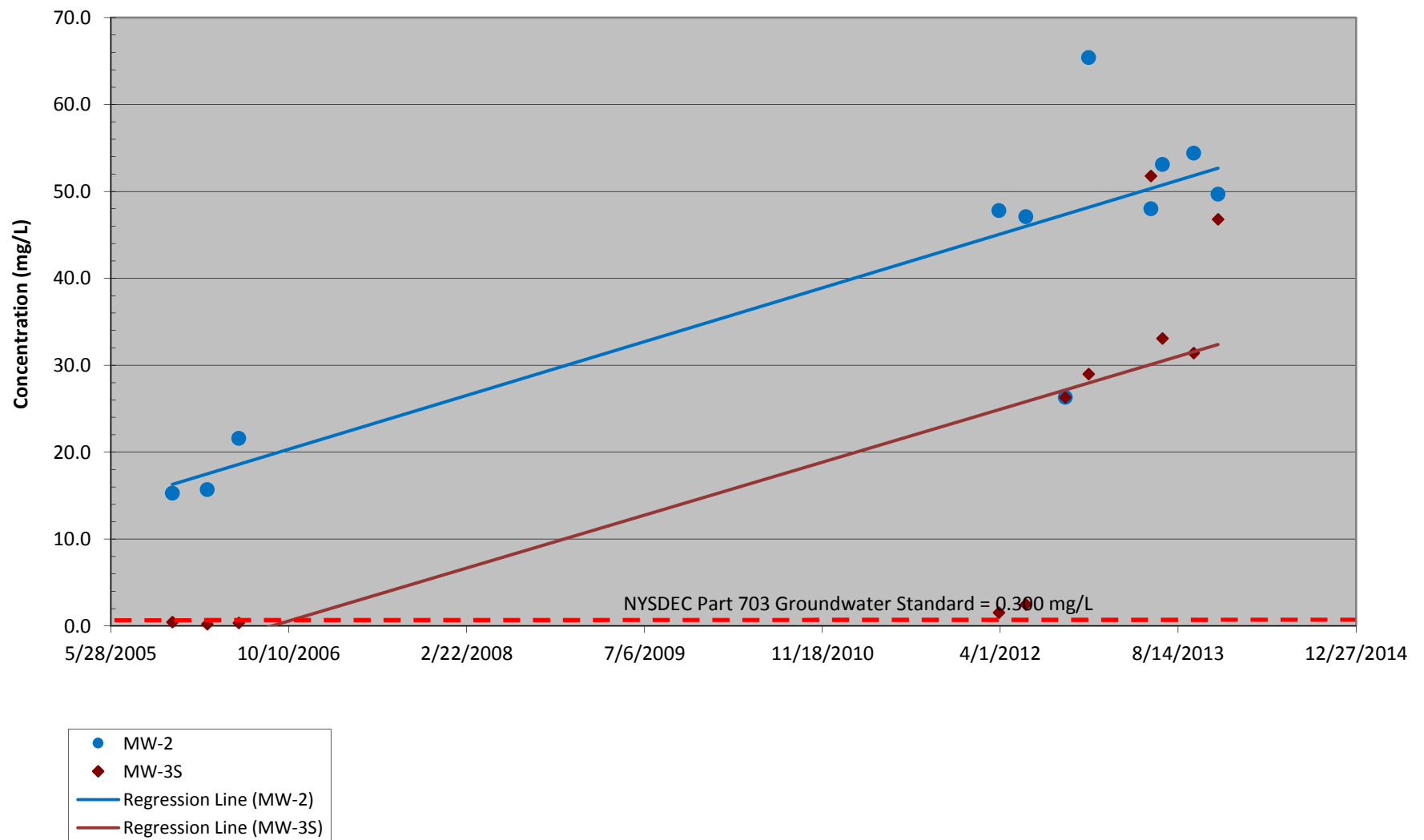


TABLE 1: INORGANIC COMPOUND ANALYTICAL RESULTS

DUTCHESS COUNTY BALEFILL - LEAD, mg/L					
Well ID	MW-1S		MW-2		MW-3S
Position	Upgradient		Downgradient		Downgradient
Formation	Overburden		Overburden		Overburden
11/17/2005	0.003	u	0.006		0.004
2/23/2006	0.005	u	0.005	u	0.005
5/23/2006	0.005	u	0.009		0.005
3/28/2012	0.003	u	0.003	u	0.003
6/12/2012	0.07		0.003	u	0.004
10/1/2012	0.003	u	0.003	u	0.003
12/5/2012	0.003	u	0.003	u	0.00526
5/29/2013			0.003	u	0.003
7/1/2013	0.003	u	0.003	u	0.003
9/27/2013	0.003	u	0.003	u	0.003
12/4/2013	0.003	u	0.004		0.003
Summary Statistics					
Count	10		11		11
Minimum	0.003		0.003		0.003
Maximum	0.07		0.009		0.00526
Mean	0.010		0.004		0.004
Std. Deviation	0.021		0.002		0.001
Median	0.003		0.003		0.004
10th Percentile	0.003		0.003		0.003
90th Percentile	0.012		0.006		0.005
Notes: 1. Values exceeding the applicable groundwater quality standard (0.025 mg/L) are shown in bold. 2. Non-detects are shown as values corresponding to the lab reporting limit followed by the "u" data qualifier. In calculating percentile values, all non-detects were ranked in a separate series below the detected values. 3. The qualifier "J" indicates a value below the laboratory reporting limit but above the method detection limit. The value shown is an approximate value. 4. Data for MW-1S from June, October and December represent dissolved levels of lead. Dissolved metals analysis was requested due to elevated sample turbidity.					

TABLE 1: INORGANIC COMPOUND ANALYTICAL RESULTS

DUTCHESS COUNTY BALEFILL - MANGANESE, mg/L					
Well ID	MW-1S		MW-2		MW-3S
Position	Upgradient		Downgradient		Downgradient
Formation	Overburden		Overburden		Overburden
11/17/2005	0.492		12.3		0.241
2/23/2006	0.195		13		1.68
5/23/2006	0.005	u	13.4		1.57
3/28/2012	0.303		11.4		21.5
6/12/2012	0.726		12.9		17.6
10/1/2012	0.385		10.2		18.6
12/5/2012	0.453		15.5		19.2
5/29/2013			11.8		23.0
7/1/2013	12		12		11.8
9/27/2013	29.6		12.8		54.4
12/4/2013	0.384		11		12.7
Summary Statistics					
Count	10		11		11
Minimum	0.01		10.2		0.241
Maximum	29.600		15.5		54.4
Mean	4.454		12.391		16.572
Std. Deviation	9.564		1.404		15.033
Median	0.419		12.300		17.600
10th Percentile	0.176		11.000		1.570
90th Percentile	13.760		13.400		23.000
Notes: 1. Values exceeding the applicable groundwater quality standard (0.300 mg/L) are shown in bold. 2. Non-detects are shown as values corresponding to the lab reporting limit followed by the "u" data qualifier. In calculating percentile values, all non-detects were ranked in a separate series below the detected values. 3. The qualifier "J" indicates a value below the laboratory reporting limit but above the method detection limit. The value shown is an approximate value. 4. Data for MW-1S from June, October and December represent dissolved levels of manganese. Dissolved metals analysis was requested due to elevated sample turbidity.					

**Dutchess County Balefill, Manganese in Downgradient Locations Exceeding Water Quality Standards
(MW-2, MW-3S)**

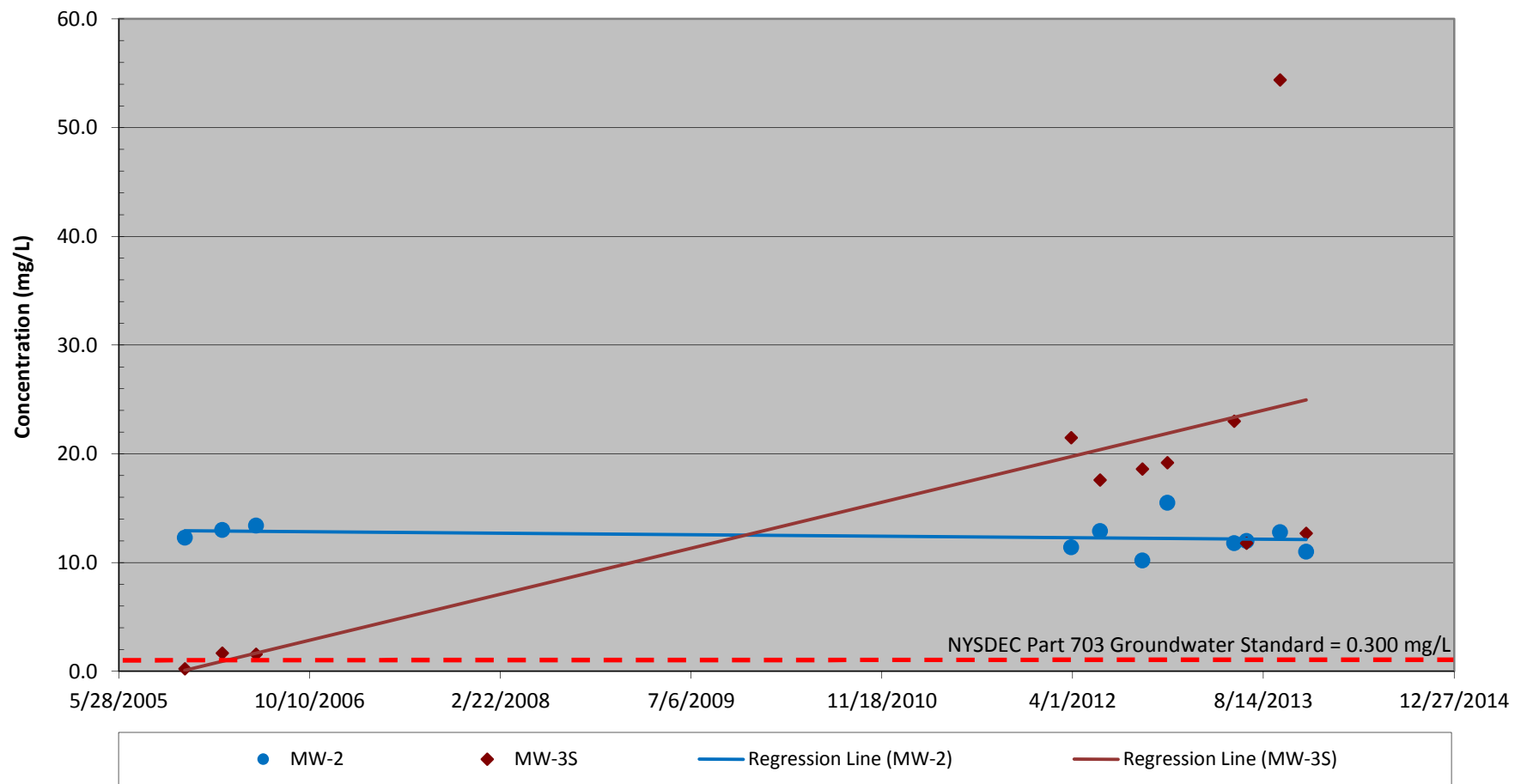


TABLE 1: INORGANIC COMPOUND ANALYTICAL RESULTS

DUTCHESS COUNTY BALEFILL - SODIUM, mg/L					
Well ID	MW-1S		MW-2		MW-3S
Position	Upgradient		Downgradient		Downgradient
Formation	Overburden		Overburden		Overburden
11/17/2005	37.7		17.9		10.9
2/23/2006	10.3		7.17		48.2
5/23/2006	27.3		8.59		41.9
3/28/2012	10.0		9.52		16.5
6/12/2012	11.6		9.69		26.3
10/1/2012	10.7		3.93		7.01
12/5/2012	10.5		12.0		18.3
5/29/2013			7.5		14.9
7/1/2013	9.8		9.76		19.1
9/27/2013	10.8		10.8		23.5
12/4/2013	10.1		5.98		18.1
Summary Statistics					
Count	10		11		11
Minimum	9.8		3.93		7.01
Maximum	37.7		17.9		48.2
Mean	14.884		9.345		22.246
Std. Deviation	9.615		3.636		12.524
Median	10.600		9.520		18.300
10th Percentile	9.984		5.980		10.900
90th Percentile	28.340		12.000		41.900
Notes: 1. Values exceeding the applicable groundwater quality guidance value (20 mg/L) are shown in bold. 2. Non-detects are shown as values corresponding to the lab reporting limit followed by the "u" data qualifier. In calculating percentile values, all non-detects were ranked in a separate series below the detected values. 3. The qualifier "J" indicates a value below the laboratory reporting limit but above the method detection limit. The value shown is an approximate value. 4. Data for MW-1S from October and December represent dissolved levels of sodium. Dissolved metals analysis was requested due to elevated sample turbidity.					

**Dutchess County Balefill, Sodium in Downgradient Locations Exceeding Water Quality Standards
(MW-3S)**

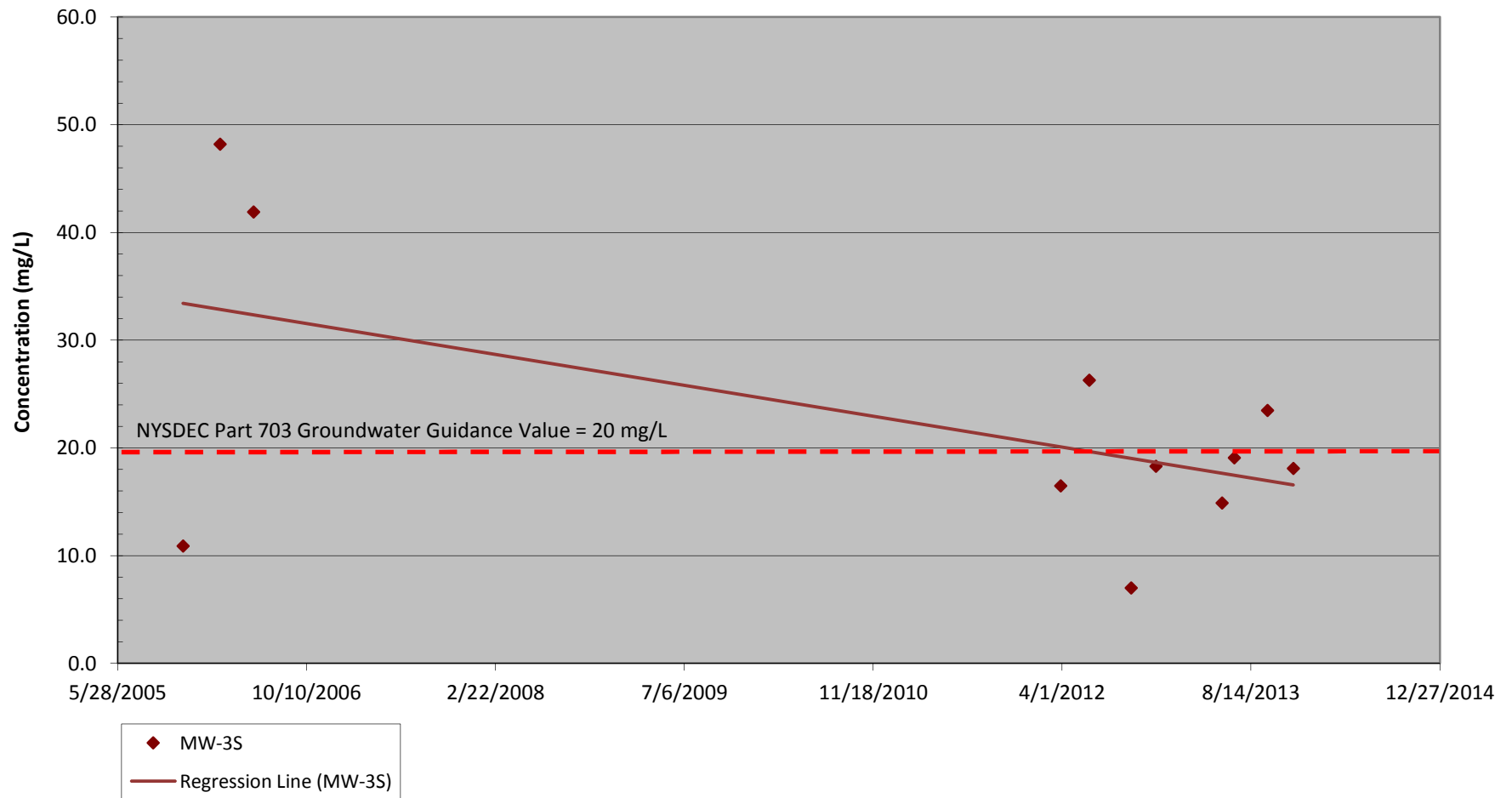


TABLE 1: INORGANIC COMPOUND ANALYTICAL RESULTS

DUTCHESS COUNTY BALEFILL - TOTAL DISSOLVED SOLIDS, mg/L						
Well ID	MW-1S		MW-2		MW-3S	
Position	Upgradient		Downgradient		Downgradient	
Formation	Overburden		Overburden		Overburden	
11/17/2005	782		284		316	
2/23/2006	358		228		777	
5/23/2006	143		232		684	
3/28/2012	348		237		826	
6/12/2012	418		306		948	
10/1/2012	438		379		808	
12/5/2012	451		424		1,040	
5/29/2013			369		776	
7/1/2013	294		273		899	
9/27/2013	464		365		940	
12/4/2013	396		192		756	
Summary Statistics						
Count	10		11		11	
Minimum	143		192		316	
Maximum	782		424		1,040	
Mean	409.200		299.000		797.273	
Std. Deviation	161.696		75.534		189.820	
Median	407.000		284.000		808.000	
10th Percentile	278.900		228.000		684.000	
90th Percentile	495.800		379.000		948.000	
Notes: 1. Values exceeding the applicable groundwater quality standard (500 mg/L) are shown in bold. 2. Non-detects are shown as values corresponding to the lab reporting limit followed by the "u" data qualifier. In calculating percentile values, all non-detects were ranked in a separate series below the detected values. 3. The qualifier "J" indicates a value below the laboratory reporting limit but above the method detection limit. The value shown is an approximate value.						

Dutchess County Balefill, Total Dissolved Solids in Downgradient Locations Exceeding Water Quality Standards (MW-3S)

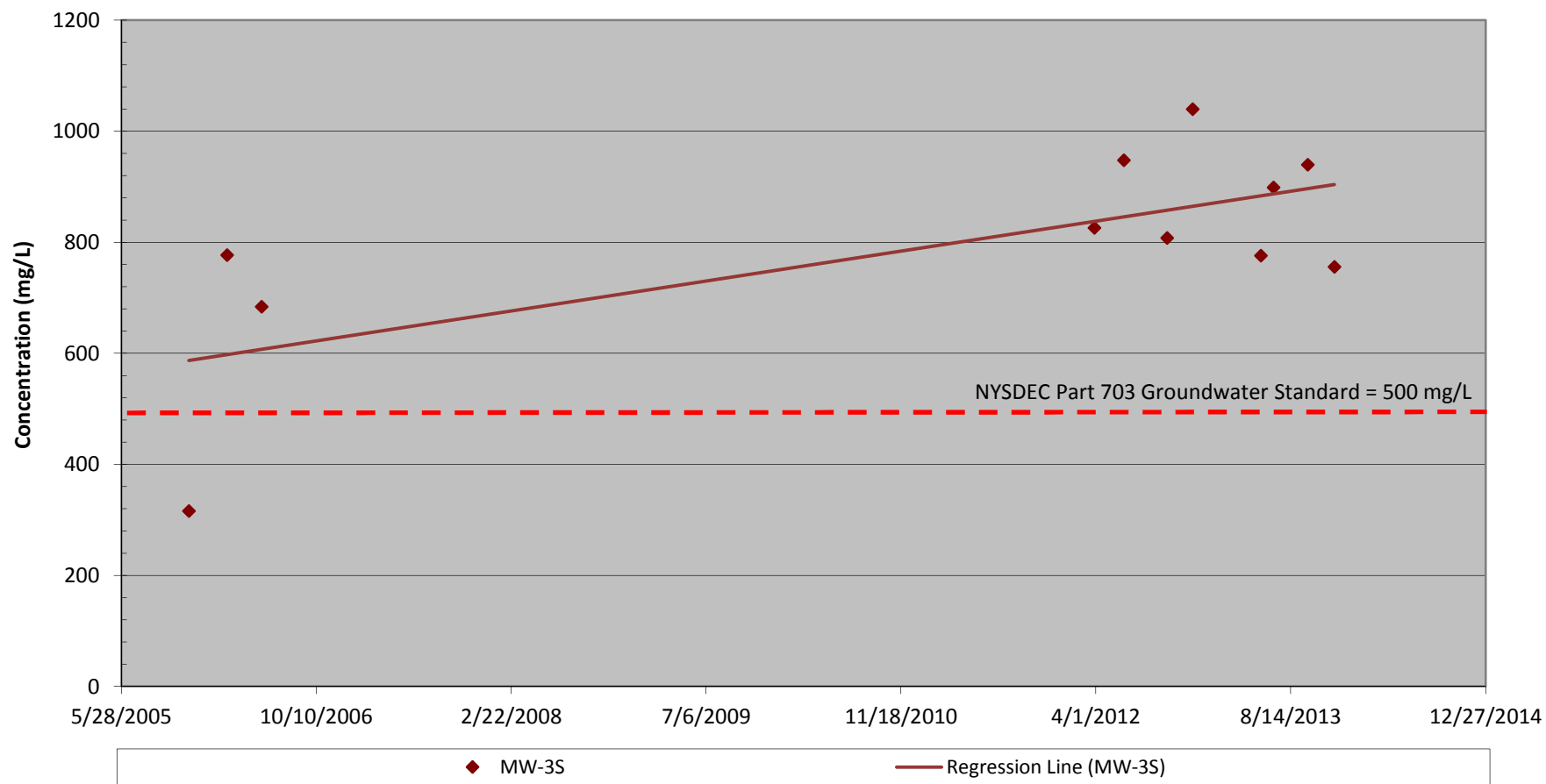


TABLE 1: INORGANIC COMPOUND ANALYTICAL RESULTS

DUTCHESS COUNTY BALEFILL - CHLORIDE, mg/L					
Well ID	MW-1S		MW-2		MW-3S
Position	Upgradient		Downgradient		Downgradient
Formation	Overburden		Overburden		Overburden
11/17/2005	69.2		28.8		3.21
2/23/2006	3.49		13.8		85.1
5/23/2006	0.6		17.2		71.7
3/28/2012	2.47		10.8		19.1
6/12/2012	2.85		10.5		23.5
10/1/2012	2.69		2.39		3.56
12/5/2012	2.60		12.1		19.6
5/29/2013			10.7		13.1
7/1/2013	14.8		15.9		21.4
9/27/2013	2.64		15.1		24.5
12/4/2013	2.52		5.61		12.3
Summary Statistics					
Count	10		11		11
Minimum	0.6		2.39		3.21
Maximum	69.2		28.8		85.1
Mean	12.338		13.286		29.859
Std. Deviation	23.393		7.531		31.045
Median	2.770		11.450		19.350
10th Percentile	1.909		8.067		3.455
90th Percentile	31.120		20.680		75.720
Notes: 1. Values exceeding the applicable groundwater quality standard (250 mg/L) are shown in bold. 2. Non-detects are shown as values corresponding to the lab reporting limit followed by the "u" data qualifier. In calculating percentile values, all non-detects were ranked in a separate series below the detected values. 3. The qualifier "J" indicates a value below the laboratory reporting limit but above the method detection limit. The value shown is an approximate value.					

TABLE 1: INORGANIC COMPOUND ANALYTICAL RESULTS

DUTCHESS COUNTY BALEFILL - SULFATE, mg/L					
Well ID	MW-1S		MW-2		MW-3S
Position	Upgradient		Downgradient		Downgradient
Formation	Overburden		Overburden		Overburden
11/17/2005	55.1		1.19		52
2/23/2006	53.8		3.8		35.3
5/23/2006	2.62		1.99		43.7
3/28/2012	66.9		1.00	u	96.7
6/12/2012	61.5		1.00	u	117
10/1/2012	63.3		4.76		73.7
12/5/2012	63.7		1.00	u	165
5/29/2013			1.00	u	88.8
7/1/2013	1.53		1.18		111
9/27/2013	58.1		1.00	u	94.4
12/4/2013	60.2		4.71		42.7
Summary Statistics					
Count	10		11		11
Minimum	2.62		1.00		35.3
Maximum	66.9		4.76		165
Mean	52.417		2.106		84.025
Std. Deviation	22.461		1.551		43.029
Median	61.500		1.190		81.250
10th Percentile	33.328		1.000		41.180
90th Percentile	64.980		4.184		131.400
Notes: 1. Values exceeding the applicable groundwater quality standard (250 mg/L) are shown in bold. 2. Non-detects are shown as values corresponding to the lab reporting limit followed by the "u" data qualifier. In calculating percentile values, all non-detects were ranked in a separate series below the detected values. 3. The qualifier "J" indicates a value below the laboratory reporting limit but above the method detection limit. The value shown is an approximate value.					

TABLE 1: INORGANIC COMPOUND ANALYTICAL RESULTS

DUTCHESS COUNTY BALEFILL - ALKALINITY (as CaCO₃), mg/L					
Well ID	MW-1S		MW-2		MW-3S
Position	Upgradient		Downgradient		Downgradient
Formation	Overburden		Overburden		Overburden
11/17/2005	765		458		433
2/23/2006	286		223		538
5/23/2006	111		196		402
3/28/2012	280		200		630
6/12/2012	370		270		880
10/1/2012	420		300		630
12/5/2012	530		340		710
5/29/2013			260		630
7/1/2013	280		250		620
9/27/2013	320		310		690
12/4/2013	310		200		740
Summary Statistics					
Count	10		11		11
Minimum	111		196		402
Maximum	765		458		880
Mean	367.200		273.364		627.545
Std. Deviation	176.536		77.849		135.606
Median	315.000		260.000		630.000
10th Percentile	263.100		200.000		433.000
90th Percentile	553.500		340.000		740.000
Notes: 1. Non-detects are shown as values corresponding to the lab reporting limit followed by the "u" data qualifier. In calculating percentile values, all non-detects were ranked in a separate series below the detected values. 2. The qualifier "J" indicates a value below the laboratory reporting limit but above the method detection limit. The value shown is an approximate value.					

TABLE 1: INORGANIC COMPOUND ANALYTICAL RESULTS

DUTCHESS COUNTY BALEFILL - AMMONIA, mg/L					
Well ID	MW-1S		MW-2		MW-3S
Position	Upgradient		Downgradient		Downgradient
Formation	Overburden		Overburden		Overburden
11/17/2005	0.27		4.78		0.08
2/23/2006	0.05	u	4.31		13.2
5/23/2006	0.22		3.75		8.25
3/28/2012	0.520		1.90		2.10
6/12/2012	0.0800		1.70		2.50
10/1/2012	0.0675		1.56		1.86
12/5/2012	0.0840		3.18		1.93
5/29/2013			1.26		1.58
7/1/2013	0.0500	u	1.77		1.63
9/27/2013	0.0500	u	1.40		0.34
12/4/2013	0.0500	u	2.27		1.40
Summary Statistics					
Count	10		11		11
Minimum	0.050		1.260		0.080
Maximum	0.520		4.780		13.200
Mean	0.144		2.535		3.170
Std. Deviation	0.153		1.253		3.960
Median	0.074		1.900		1.860
10th Percentile	0.050		1.400		0.343
90th Percentile	0.295		4.310		8.250
Notes: 1. Values exceeding the applicable groundwater quality standard (2 mg/L) are shown in bold. 2. Non-detects are shown as values corresponding to the lab reporting limit followed by the "u" data qualifier. In calculating percentile values, all non-detects were ranked in a separate series below the detected values. 3. The qualifier "J" indicates a value below the laboratory reporting limit but above the method detection limit. The value shown is an approximate value.					

**Dutchess County Balefill, Ammonia in Downgradient Locations Exceeding Water Quality Standards
(MW-2, MW-3S)**

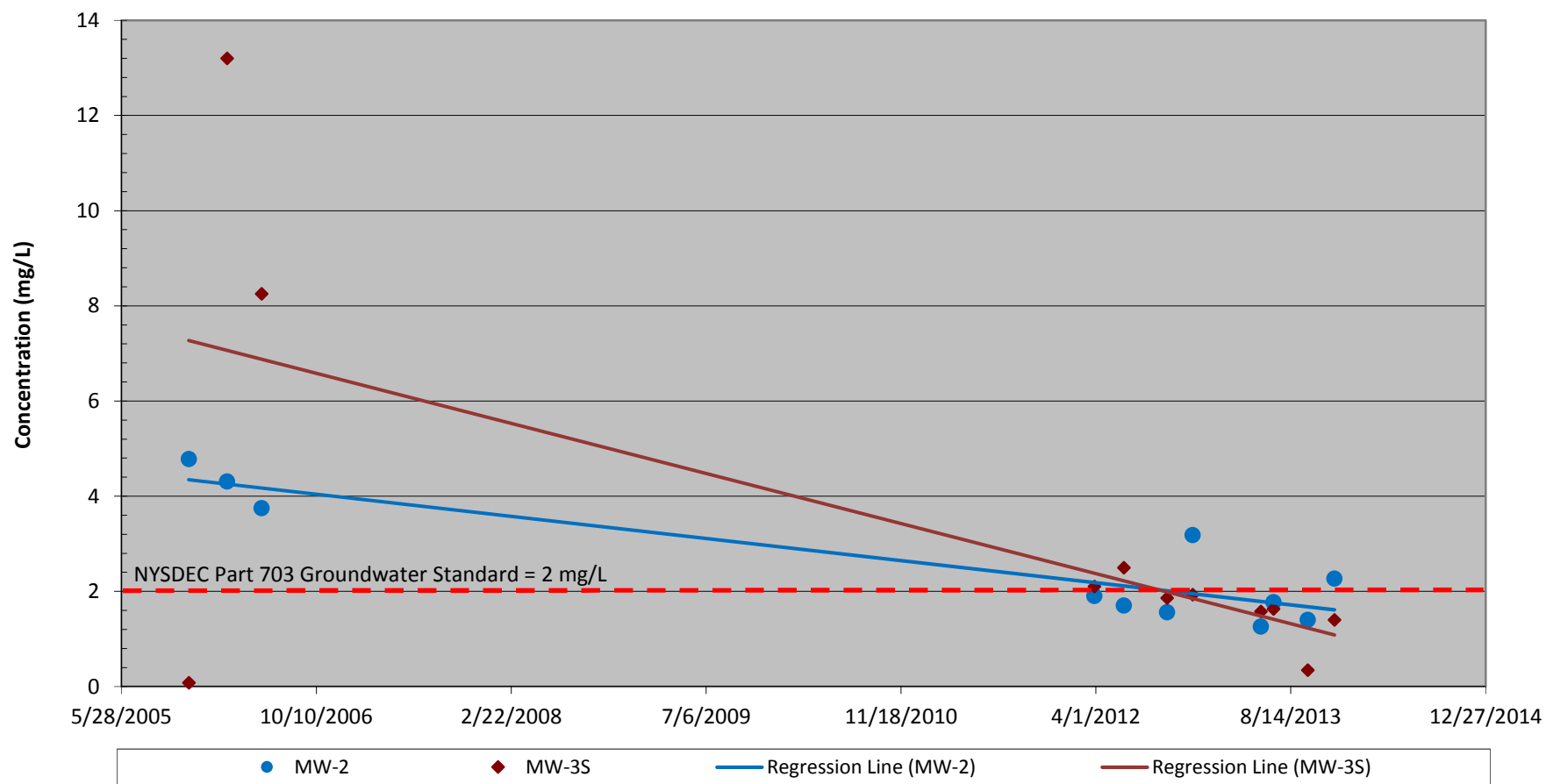


TABLE 1: INORGANIC COMPOUND ANALYTICAL RESULTS

DUTCHESS COUNTY BALEFILL - BIOCHEMICAL OXYGEN DEMAND, mg/L					
Well ID	MW-1S		MW-2		MW-3S
Position	Upgradient		Downgradient		Downgradient
Formation	Overburden		Overburden		Overburden
11/17/2005	1.0	u	17.0		1.0 u
2/23/2006	1.0		5.0		5.0
5/23/2006	1.0	u	9.0		1.0 u
3/28/2012	94.0		22.0		24.0
6/12/2012	1.0	u	16.0		8.0
10/1/2012	3.0		19.0		8.0
12/5/2012	4.5		27.0		14.0
5/29/2013			18.0		10.0
7/1/2013	13.0		13.0		9.0
9/27/2013	8.0		8.0		12.0
12/4/2013	1.0	u	10.0		15.0
Summary Statistics					
Count	10		11		11
Minimum	1		5		1
Maximum	94		27		24
Mean	12.750		14.909		9.727
Std. Deviation	28.824		6.610		6.604
Median	2.000		16.000		9.000
10th Percentile	1.000		8.000		1.000
90th Percentile	21.100		22.000		15.000
Notes: 1. Non-detects are shown as values corresponding to the lab reporting limit followed by the "u" data qualifier. In calculating percentile values, all non-detects were ranked in a separate series below the detected values. 2. The qualifier "J" indicates a value below the laboratory reporting limit but above the method detection limit. The value shown is an approximate value.					

TABLE 1: INORGANIC COMPOUND ANALYTICAL RESULTS

DUTCHESS COUNTY BALEFILL - CHEMICAL OXYGEN DEMAND, mg/L					
Well ID	MW-1S		MW-2		MW-3S
Position	Upgradient		Downgradient		Downgradient
Formation	Overburden		Overburden		Overburden
11/17/2005	18		54.2		10 u
2/23/2006	10	u	20.6		36.1
5/23/2006	10	u	162		32.5
3/28/2012	120		50		91
6/12/2012	160		10	u	10 u
10/1/2012	730		20		30
12/5/2012	430		35		72
5/29/2013			46		72
7/1/2013	53		74		86
9/27/2013	16		58		99
12/4/2013	15		36		55
Summary Statistics					
Count	10		11		11
Minimum	10		10		10
Maximum	730		162		99
Mean	156.200		51.436		53.964
Std. Deviation	239.822		41.207		32.090
Median	35.500		46.000		55.000
10th Percentile	10.000		20.000		10.000
90th Percentile	460.000		74.000		91.000
Notes: 1. Non-detects are shown as values corresponding to the lab reporting limit followed by the "u" data qualifier. In calculating percentile values, all non-detects were ranked in a separate series below the detected values. 2. The qualifier "J" indicates a value below the laboratory reporting limit but above the method detection limit. The value shown is an approximate value.					

TABLE 1: INORGANIC COMPOUND ANALYTICAL RESULTS

DUTCHESS COUNTY BALEFILL - TOTAL PHENOLS, mg/L					
Well ID	MW-1S		MW-2		MW-3S
Position	Upgradient		Downgradient		Downgradient
Formation	Overburden		Overburden		Overburden
11/17/2005	0.05	u	0.19		0.05 u
2/23/2006	0.05	u	0.05	u	0.05 u
5/23/2006	0.05	u	0.05	u	0.05 u
3/28/2012	0.05	u	0.05	u	0.05 u
6/12/2012	0.05	u	0.05	u	0.05 u
10/1/2012	0.05	u	0.05	u	0.05 u
12/5/2012	0.05	u	0.05	u	0.05 u
5/29/2013			0.05	u	0.05 u
7/1/2013	0.05	u	0.05	u	0.05 u
9/27/2013	0.07		0.06		0.06
12/4/2013	0.08		0.06		0.08
Summary Statistics					
Count	10		11		11
Minimum	0.05		0.05		0.05
Maximum	0.08		0.19		0.08
Mean	0.055		0.065		0.054
Std. Deviation	0.011		0.042		0.009
Median	0.050		0.050		0.050
10th Percentile	0.050		0.050		0.050
90th Percentile	0.071		0.060		0.060
Notes: 1. Values exceeding the applicable groundwater quality standard (0.001 mg/L) are shown in bold. 2. Non-detects are shown as values corresponding to the lab reporting limit followed by the "u" data qualifier. In calculating percentile values, all non-detects were ranked in a separate series below the detected values. 3. The qualifier "J" indicates a value below the laboratory reporting limit but above the method detection limit. The value shown is an approximate value.					

TABLE 1: INORGANIC COMPOUND ANALYTICAL RESULTS

DUTCHESS COUNTY BALEFILL - TOTAL ORGANIC CARBON, mg/L					
Well ID	MW-1S		MW-2		MW-3S
Position	Upgradient		Downgradient		Downgradient
Formation	Overburden		Overburden		Overburden
11/17/2005	5.4		11		1.2
2/23/2006	1.0	u	2.6		8.7
5/23/2006	1.0	u	2.1		3.8
3/28/2012	1.00	u	1.46		5.74
6/12/2012	1.32		1.66		8.83
10/1/2012	1.00	u	4.36		8.12
12/5/2012	1.52		3.56		11.6
5/29/2013			2.22		8.97
7/1/2013	1.0	u	2.54		7.67
9/27/2013	1.0	u	2.47		9.89
12/4/2013	1.66		3.06		8.60
Summary Statistics					
Count	10		11		11
Minimum	1.0		1.46		1.2
Maximum	5.4		11		11.6
Mean	1.749		3.620		7.120
Std. Deviation	1.623		3.136		3.336
Median	1.000		2.410		8.410
10th Percentile	1.000		1.600		3.020
90th Percentile	3.072		6.352		9.759
Notes: 1. Non-detects are shown as values corresponding to the lab reporting limit followed by the "u" data qualifier. In calculating percentile values, all non-detects were ranked in a separate series below the detected values. 2. The qualifier "J" indicates a value below the laboratory reporting limit but above the method detection limit. The value shown is an approximate value.					

TABLE 1: INORGANIC COMPOUND ANALYTICAL RESULTS

DUTCHESS COUNTY BALEFILL - ARSENIC, mg/L						
Well ID	MW-1S		MW-2		MW-3S	
Position	Upgradient		Downgradient		Downgradient	
Formation	Overburden		Overburden		Overburden	
11/17/2005	0.004	u	0.004	u	0.004	u
2/23/2006						
5/23/2006						
3/28/2012						
6/12/2012	0.025		0.01	u	0.01	u
10/1/2012						
12/5/2012						
5/29/2013						
7/1/2013						
9/27/2013						
12/4/2013	0.004	u	0.004	u	0.004	u
Summary Statistics						
Count	3		3		3	
Minimum	0.004		0.004		0.004	
Maximum	0.025		0.010		0.010	
Mean	0.011		0.007		0.007	
Std. Deviation	0.012		0.004		0.004	
Median	0.004		0.007		0.007	
10th Percentile	0.004		0.005		0.005	
90th Percentile	0.021		0.009		0.009	
Notes: 1. Values exceeding the applicable groundwater quality standard (0.025 mg/L) are shown in bold. 2. Non-detects are shown as values corresponding to the lab reporting limit followed by the "u" data qualifier. In calculating percentile values, all non-detects were ranked in a separate series below the detected values. 3. The qualifier "J" indicates a value below the laboratory reporting limit but above the method detection limit. The value shown is an approximate value.						

TABLE 1: INORGANIC COMPOUND ANALYTICAL RESULTS

DUTCHESS COUNTY BALEFILL - BORON, mg/L					
Well ID	MW-1S		MW-2		MW-3S
Position	Upgradient		Downgradient		Downgradient
Formation	Overburden		Overburden		Overburden
11/17/2005	0.254		0.166		0.020 u
2/23/2006					
5/23/2006					
3/28/2012					
6/12/2012	0.0101		0.0275		0.230
10/1/2012					
12/5/2012					
5/29/2013					
7/1/2013					
9/27/2013					
12/4/2013	12.9		25.8		244.0
Summary Statistics					
Count	3		3		3
Minimum	0.0101		0.0275		0.020
Maximum	12.900		25.800		244.000
Mean	4.388		8.665		81.417
Std. Deviation	7.373		14.840		140.801
Median	0.254		0.166		0.230
10th Percentile	0.059		0.055		0.062
90th Percentile	10.371		20.673		195.246
Notes: 1. Values exceeding the applicable groundwater quality standard (1.0 mg/L) are shown in bold. 2. Non-detects are shown as values corresponding to the lab reporting limit followed by the "u" data qualifier. In calculating percentile values, all non-detects were ranked in a separate series below the detected values. 3. The qualifier "J" indicates a value below the laboratory reporting limit but above the method detection limit. The value shown is an approximate value.					



Technical Report

prepared for:

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Adam Atkinson

Report Date: 06/06/2013
Client Project ID: DW13102.20
York Project (SDG) No.: 13F0006

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 06/06/2013
Client Project ID: DW13102.20
York Project (SDG) No.: 13F0006

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Adam Atkinson

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 31, 2013 and listed below. The project was identified as your project: **DW13102.20**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13F0006-01	MW-2S	Water	05/29/2013	05/31/2013
13F0006-02	MW-3S	Water	05/29/2013	05/31/2013

General Notes for York Project (SDG) No.: 13F0006

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 06/06/2013

YORK



Sample Information

Client Sample ID: MW-2S

York Sample ID: 13F0006-01

York Project (SDG) No.

13F0006

Client Project ID

DW13102.20

Matrix

Water

Collection Date/Time

May 29, 2013 3:00 pm

Date Received

05/31/2013

Cadmium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		mg/L	0.00190	0.00300	1	EPA SW846-6010B	06/04/2013 15:35	06/04/2013 19:12	MW

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	44.1		mg/L	0.0190	0.0500	1	EPA SW846-6010B	06/04/2013 15:35	06/04/2013 19:12	MW

Iron by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	48.0		mg/L	0.0100	0.0200	1	EPA SW846-6010B	06/04/2013 15:35	06/04/2013 19:12	MW

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:35	06/04/2013 19:12	MW

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	10.4		mg/L	0.0100	0.0500	1	EPA SW846-6010B	06/04/2013 15:35	06/04/2013 19:12	MW

Manganese by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	11.8		mg/L	0.0200	0.0500	10	EPA SW846-6010B	06/04/2013 15:35	06/04/2013 19:12	MW

Potassium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	2.57		mg/L	0.0261	0.0500	1	EPA SW846-6010B	06/04/2013 15:35	06/04/2013 19:12	MW

Sodium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	7.45		mg/L	0.0606	0.100	1	EPA SW846-6010B	06/04/2013 15:35	06/04/2013 19:12	MW



Sample Information

Client Sample ID: MW-2S

York Sample ID: 13F0006-01

York Project (SDG) No.
13F0006

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
May 29, 2013 3:00 pm

Date Received
05/31/2013

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	369		mg/L	1.00	1.00	1	SM 2540C	06/03/2013 13:08	06/04/2013 12:34	ALD

Bromide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24959-67-9	Bromide	ND		mg/L	0.0330	0.200	1	EPA Method 300.0	06/01/2013 05:45	06/01/2013 05:45	AD

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	10.7		mg/L	0.0690	0.500	1	EPA Method 300.0	06/01/2013 05:45	06/01/2013 05:45	AD

Nitrate (as N)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND	HT-02	mg/L	0.0120	0.0500	1	EPA 300	06/01/2013 05:45	06/01/2013 05:45	AD

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	ND		mg/L	0.0860	1.00	1	EPA Method 300.0	06/01/2013 05:45	06/01/2013 05:45	AD

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	260		mg/L	0.90	2.0	1	SM 2320B	06/03/2013 09:04	06/03/2013 13:17	SC

Ammonia (as N)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	Ammonia Nitrogen as N	1.26		mg/L	0.0500	0.0500	1	SM-4500-NH3-G	06/03/2013 11:51	06/03/2013 14:44	ALD

Biochemical Oxygen Demand (BOD) 5-Day

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Biochemical Oxygen Demand (BOD) (5-Day)	18		mg/L	1.0	1.0	1	SM 5210 B	05/31/2013 09:49	06/05/2013 11:02	SC



Sample Information

Client Sample ID: MW-2S

York Sample ID: 13F0006-01

York Project (SDG) No.

13F0006

Client Project ID

DW13102.20

Matrix

Water

Collection Date/Time

May 29, 2013 3:00 pm

Date Received

05/31/2013

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Chemical Oxygen Demand (COD)	46		mg/L	10	10	1	SM 5220 B	06/04/2013 09:13	06/05/2013 14:23	AA

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	153		mg/L	1.00	1.00	1	EPA 200.7	06/04/2013 15:35	06/04/2013 19:12	MW

Phenols, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
64743-03-9	Phenols, total	ND		mg/L	0.0500	0.0500	1	EPA 420.1/2	06/05/2013 09:16	06/06/2013 11:29	AMC

Total Kjeldahl Nitrogen(TKN)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	2.46		mg/L	0.100	0.100	1	SM 4500-N (Org)B	06/03/2013 11:49	06/04/2013 12:16	ALD

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	2.22		mg/L	1.00	1.00	1	SM 5310C	06/04/2013 10:55	06/04/2013 15:59	AMC

Sample Information

Client Sample ID: MW-3S

York Sample ID: 13F0006-02

York Project (SDG) No.

13F0006

Client Project ID

DW13102.20

Matrix

Water

Collection Date/Time

May 29, 2013 3:00 pm

Date Received

05/31/2013

Cadmium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		mg/L	0.00190	0.00300	1	EPA SW846-6010B	06/04/2013 15:35	06/04/2013 19:17	MW

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	181		mg/L	0.0190	0.0500	1	EPA SW846-6010B	06/04/2013 15:35	06/04/2013 19:17	MW



Sample Information

Client Sample ID: MW-3S

York Sample ID: 13F0006-02

York Project (SDG) No.
13F0006

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
May 29, 2013 3:00 pm

Date Received
05/31/2013

Iron by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	51.8		mg/L	0.0100	0.0200	1	EPA SW846-6010B	06/04/2013 15:35	06/04/2013 19:17	MW

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:35	06/04/2013 19:17	MW

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	45.9		mg/L	0.0100	0.0500	1	EPA SW846-6010B	06/04/2013 15:35	06/04/2013 19:17	MW

Manganese by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	23.0		mg/L	0.0200	0.0500	10	EPA SW846-6010B	06/04/2013 15:35	06/04/2013 19:17	MW

Potassium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	9.21		mg/L	0.0261	0.0500	1	EPA SW846-6010B	06/04/2013 15:35	06/04/2013 19:17	MW

Sodium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	14.9		mg/L	0.0606	0.100	1	EPA SW846-6010B	06/04/2013 15:35	06/04/2013 19:17	MW

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	776		mg/L	1.00	1.00	1	SM 2540C	06/03/2013 13:08	06/04/2013 12:34	ALD

Bromide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24959-67-9	Bromide	0.382		mg/L	0.0330	0.200	1	EPA Method 300.0	06/01/2013 06:06	06/01/2013 06:06	AD

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
---------	-----------	--------	------	-------	-----	----	----------	------------------	--------------------	--------------------	---------



Sample Information

Client Sample ID: MW-3S

York Sample ID: 13F0006-02

York Project (SDG) No.

13F0006

Client Project ID

DW13102.20

Matrix

Water

Collection Date/Time

May 29, 2013 3:00 pm

Date Received

05/31/2013

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	13.1		mg/L	0.0690	0.500	1	EPA Method 300.0	06/01/2013 06:06	06/01/2013 06:06	AD

Nitrate (as N)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND	HT-02	mg/L	0.0120	0.0500	1	EPA 300	06/01/2013 06:06	06/01/2013 06:06	AD

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	88.8		mg/L	0.860	10.0	10	EPA Method 300.0	06/03/2013 13:41	06/03/2013 20:42	AMC

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	630		mg/L	0.90	2.0	1	SM 2320B	06/03/2013 09:04	06/03/2013 13:17	SC

Ammonia (as N)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	Ammonia Nitrogen as N	1.58		mg/L	0.0500	0.0500	1	SM-4500-NH3-G	06/03/2013 11:51	06/03/2013 14:44	ALD

Biochemical Oxygen Demand (BOD) 5-Day

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Biochemical Oxygen Demand (BOD) (5-Day)	10		mg/L	1.0	1.0	1	SM 5210 B	05/31/2013 09:49	06/05/2013 11:02	SC

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Chemical Oxygen Demand (COD)	72		mg/L	10	10	1	SM 5220 B	06/04/2013 09:13	06/05/2013 14:23	AA

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	642		mg/L	1.00	1.00	1	EPA 200.7	06/04/2013 15:35	06/04/2013 19:17	MW



Sample Information

Client Sample ID: MW-3S

York Sample ID: 13F0006-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0006

DW13102.20

Water

May 29, 2013 3:00 pm

05/31/2013

Phenols, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
64743-03-9	Phenols, total	ND		mg/L	0.0500	0.0500	1	EPA 420.1/2	06/05/2013 09:16	06/06/2013 11:29	AMC

Total Kjeldahl Nitrogen(TKN)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	3.38		mg/L	0.100	0.100	1	SM 4500-N (Org)B	06/03/2013 11:49	06/04/2013 12:16	ALD

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	8.97		mg/L	1.00	1.00	1	SM 5310C	06/04/2013 10:55	06/04/2013 15:59	AMC



Notes and Definitions

HT-02 NON-COMPLIANT-This sample was received outside the EPA recommended holding time.

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.

This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13F0006

Client Information		Report to:		Invoice To:		Client Project ID		Turn-Around Time		Report Type/Deliverables	
Company: <u>Ecosystems Strategies</u>	Name: <u>SAME</u> ☒	Name: <u>Brenda</u>	Purchase Order no. <u>DW13102.20</u>		RUSH Same Day		Summary		QA/QC Summary		
Address: <u>24 Davis Ave</u>	Company: <u>Poughkeepsie, NY</u>	Company: <u></u>			RUSH Next Day		CT RCP Pkg		CT RCP Pkg		
Phone no.: <u>845-452-1658</u>	Address: <u></u>	Address: <u></u>			RUSH Two Day		ASP A Pkg		ASP A Pkg		
Contact Person: <u>Adam</u>	E-mail: <u></u>	E-mail: <u></u>			RUSH Four Day		ASP B Pkg		ASP B Pkg		
E-mail Addr.: <u></u>	Fax No.: <u></u>	Fax No.: <u></u>			Standard (5-7 days)		Excel		Excel		
FAX No.: <u></u>	Samples from: CT_NY <u>NY</u>		OTHER		OTHER		EDD		EDD		

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.		Matrix Codes		Sample Matrix		Date Sampled		Sample Identification		Special Instructions	
S - soil		S - soil		GW		5-29-13		MW-2S		1 Liter plastic	
Other - specify (soil, etc.)		Other - specify (soil, etc.)		GW		5-29-13		MW-3S		1 Liter plastic	
WW - wastewater		WW - wastewater		GW		5-29-13		MW-3S		250 mL plastic	
GW - groundwater		GW - groundwater		GW		5-29-13		MW-3S		(2) 40 mL vials	
DW - drinking water		DW - drinking water		GW		5-29-13		MW-3S		↓	
Air-A - ambient air		Air-A - ambient air		GW		5-29-13		MW-3S		↓	
Air-SV - soil vapor		Air-SV - soil vapor		GW		5-29-13		MW-3S		↓	

Choose Analyses Needed from the Menu Above and Enter Below		Part 360 Routine Parameters		Temperature on Receipt	
Cool 4°C		HNO3		5-31-13	
H2SO4		NaOH		15-40	
None		None		15-30	
FROZEN		FROZEN		15-30	
Samples Relinquished By		Date/Time		Date/Time	
Samples Relinquished By		Date/Time		Date/Time	



Technical Report

prepared for:

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Adam Atkinson

Report Date: 07/10/2013
Client Project ID: DW13102.20
York Project (SDG) No.: 13G0075

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 07/10/2013
Client Project ID: DW13102.20
York Project (SDG) No.: 13G0075

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Adam Atkinson

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 02, 2013 and listed below. The project was identified as your project: **DW13102.20**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13G0075-01	MW-1S	Water	07/01/2013	07/02/2013
13G0075-02	MW-2S	Water	07/01/2013	07/02/2013
13G0075-03	MW-3S	Water	07/01/2013	07/02/2013

General Notes for York Project (SDG) No.: 13G0075

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 07/10/2013

YORK



Sample Information

Client Sample ID: MW-1S

York Sample ID: 13G0075-01

York Project (SDG) No.

13G0075

Client Project ID

DW13102.20

Matrix

Water

Collection Date/Time

July 1, 2013 3:00 pm

Date Received

07/02/2013

Cadmium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		mg/L	0.00190	0.00300	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:23	MW

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	46.4		mg/L	0.0190	0.0500	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:23	MW

Iron by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	53.3		mg/L	0.0100	0.0200	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:23	MW

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00220	0.00300	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:23	MW

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	11.6		mg/L	0.0100	0.0500	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:23	MW

Manganese by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	12.0		mg/L	0.00200	0.00500	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:23	MW

Potassium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	2.71		mg/L	0.0261	0.0500	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:23	MW

Sodium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	9.84		mg/L	0.0606	0.100	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:23	MW



Sample Information

Client Sample ID: MW-1S

York Sample ID: 13G0075-01

York Project (SDG) No.
13G0075

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
July 1, 2013 3:00 pm

Date Received
07/02/2013

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	294		mg/L	1.00	1.00	1	SM 2540C	07/05/2013 15:24	07/06/2013 08:54	ALD

Bromide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24959-67-9	Bromide	ND		mg/L	0.0330	0.200	1	EPA Method 300.0	07/02/2013 23:34	07/03/2013 06:23	AMC

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	14.8		mg/L	0.0690	0.500	1	EPA Method 300.0	07/02/2013 23:34	07/03/2013 06:23	AMC

Nitrate (as N)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0120	0.0500	1	EPA 300	07/02/2013 23:34	07/03/2013 06:23	AMC

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	1.53		mg/L	0.0860	1.00	1	EPA Method 300.0	07/02/2013 23:34	07/03/2013 06:23	AMC

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	280		mg/L	0.90	2.0	1	SM 2320B	07/08/2013 11:56	07/08/2013 15:11	AMC

Ammonia (as N)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	Ammonia Nitrogen as N	ND		mg/L	0.0500	0.0500	1	SM-4500-NH3-G	07/03/2013 20:09	07/04/2013 01:47	ALD

Biochemical Oxygen Demand (BOD) 5-Day

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Biochemical Oxygen Demand (BOD) (5-Day)	13		mg/L	1.0	1.0	1	SM 5210 B	07/03/2013 07:32	07/08/2013 08:27	SC



Sample Information

Client Sample ID: MW-1S

York Sample ID: 13G0075-01

York Project (SDG) No.
13G0075

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
July 1, 2013 3:00 pm

Date Received
07/02/2013

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Chemical Oxygen Demand (COD)	53		mg/L	10	10	1	SM 5220 B	07/05/2013 09:45	07/05/2013 15:42	AA

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	163		mg/L	1.00	1.00	1	EPA 200.7	07/03/2013 14:43	07/03/2013 19:23	MW

Phenols, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
64743-03-9	Phenols, total	ND		mg/L	0.0500	0.0500	1	EPA 420.1/2	07/10/2013 09:02	07/10/2013 11:06	AMC

Total Kjeldahl Nitrogen(TKN)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	0.274		mg/L	0.100	0.100	1	SM 4500-N (Org)B	07/03/2013 20:07	07/05/2013 15:19	ALD

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	ND		mg/L	1.00	1.00	1	SM 5310C	07/09/2013 13:09	07/10/2013 12:52	AD

Sample Information

Client Sample ID: MW-2S

York Sample ID: 13G0075-02

York Project (SDG) No.
13G0075

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
July 1, 2013 3:00 pm

Date Received
07/02/2013

Cadmium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		mg/L	0.00190	0.00300	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:28	MW

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	46.2		mg/L	0.0190	0.0500	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:28	MW



Sample Information

Client Sample ID: MW-2S

York Sample ID: 13G0075-02

York Project (SDG) No.
13G0075

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
July 1, 2013 3:00 pm

Date Received
07/02/2013

Iron by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	53.1		mg/L	0.0100	0.0200	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:28	MW

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00220	0.00300	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:28	MW

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	11.5		mg/L	0.0100	0.0500	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:28	MW

Manganese by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	12.0		mg/L	0.00200	0.00500	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:28	MW

Potassium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	2.49		mg/L	0.0261	0.0500	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:28	MW

Sodium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	9.76		mg/L	0.0606	0.100	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:28	MW

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	273		mg/L	1.00	1.00	1	SM 2540C	07/05/2013 15:24	07/06/2013 08:54	ALD

Bromide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24959-67-9	Bromide	ND		mg/L	0.0330	0.200	1	EPA Method 300.0	07/02/2013 23:34	07/03/2013 06:44	AMC

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
---------	-----------	--------	------	-------	-----	----	----------	------------------	--------------------	--------------------	---------



Sample Information

Client Sample ID: MW-2S

York Sample ID: 13G0075-02

York Project (SDG) No.
13G0075

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
July 1, 2013 3:00 pm

Date Received
07/02/2013

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	15.9		mg/L	0.0690	0.500	1	EPA Method 300.0	07/02/2013 23:34	07/03/2013 06:44	AMC

Nitrate (as N)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0120	0.0500	1	EPA 300	07/02/2013 23:34	07/03/2013 06:44	AMC

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	1.18		mg/L	0.0860	1.00	1	EPA Method 300.0	07/02/2013 23:34	07/03/2013 06:44	AMC

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	250		mg/L	0.90	2.0	1	SM 2320B	07/08/2013 11:56	07/08/2013 15:11	AMC

Ammonia (as N)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	Ammonia Nitrogen as N	1.77		mg/L	0.0500	0.0500	1	SM-4500-NH3-G	07/03/2013 20:09	07/04/2013 01:47	ALD

Biochemical Oxygen Demand (BOD) 5-Day

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Biochemical Oxygen Demand (BOD) (5-Day)	13		mg/L	1.0	1.0	1	SM 5210 B	07/03/2013 07:32	07/08/2013 08:27	SC

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Chemical Oxygen Demand (COD)	74		mg/L	10	10	1	SM 5220 B	07/05/2013 09:45	07/05/2013 15:42	AA

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	163		mg/L	1.00	1.00	1	EPA 200.7	07/03/2013 14:43	07/03/2013 19:28	MW



Sample Information

Client Sample ID: MW-2S

York Sample ID: 13G0075-02

York Project (SDG) No.
13G0075

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
July 1, 2013 3:00 pm

Date Received
07/02/2013

Phenols, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
64743-03-9	Phenols, total	ND		mg/L	0.0500	0.0500	1	EPA 420.1/2	07/10/2013 09:02	07/10/2013 11:06	AMC

Total Kjeldahl Nitrogen(TKN)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	2.14		mg/L	0.100	0.100	1	SM 4500-N (Org)B	07/03/2013 20:07	07/05/2013 15:19	ALD

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	2.54		mg/L	1.00	1.00	1	SM 5310C	07/09/2013 13:09	07/10/2013 12:52	AD

Sample Information

Client Sample ID: MW-3S

York Sample ID: 13G0075-03

York Project (SDG) No.
13G0075

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
July 1, 2013 3:00 pm

Date Received
07/02/2013

Cadmium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		mg/L	0.00190	0.00300	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:33	MW

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	184		mg/L	0.0190	0.0500	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:33	MW

Iron by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	33.1		mg/L	0.0100	0.0200	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:33	MW

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00220	0.00300	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:33	MW



Sample Information

Client Sample ID: MW-3S

York Sample ID: 13G0075-03

York Project (SDG) No.
13G0075

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
July 1, 2013 3:00 pm

Date Received
07/02/2013

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	50.7		mg/L	0.0100	0.0500	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:33	MW

Manganese by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	11.8		mg/L	0.00200	0.00500	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:33	MW

Potassium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	9.42		mg/L	0.0261	0.0500	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:33	MW

Sodium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	19.1		mg/L	0.0606	0.100	1	EPA SW846-6010B	07/03/2013 14:43	07/03/2013 19:33	MW

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	899		mg/L	1.00	1.00	1	SM 2540C	07/05/2013 15:24	07/06/2013 08:54	ALD

Bromide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24959-67-9	Bromide	0.454		mg/L	0.0330	0.200	1	EPA Method 300.0	07/02/2013 23:34	07/03/2013 07:04	AMC

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	21.4		mg/L	0.0690	0.500	1	EPA Method 300.0	07/02/2013 23:34	07/03/2013 07:04	AMC

Nitrate (as N)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0120	0.0500	1	EPA 300	07/02/2013 23:34	07/03/2013 07:04	AMC

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
---------	-----------	--------	------	-------	-----	----	----------	------------------	--------------------	--------------------	---------



Sample Information

Client Sample ID: MW-3S

York Sample ID: 13G0075-03

York Project (SDG) No.
13G0075

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
July 1, 2013 3:00 pm

Date Received
07/02/2013

Sulfate as SO₄

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	111		mg/L	0.860	10.0	10	EPA Method 300.0	07/10/2013 02:26	07/10/2013 02:26	AD

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	620		mg/L	0.90	2.0	1	SM 2320B	07/08/2013 11:56	07/08/2013 15:11	AMC

Ammonia (as N)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	Ammonia Nitrogen as N	1.63		mg/L	0.0500	0.0500	1	SM-4500-NH ₃ -G	07/03/2013 20:09	07/04/2013 01:47	ALD

Biochemical Oxygen Demand (BOD) 5-Day

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Biochemical Oxygen Demand (BOD) (5-Day)	9.0		mg/L	1.0	1.0	1	SM 5210 B	07/03/2013 07:32	07/08/2013 08:27	SC

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Chemical Oxygen Demand (COD)	86		mg/L	10	10	1	SM 5220 B	07/05/2013 09:45	07/05/2013 15:42	AA

Hardness, total (as CaCO₃)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	668		mg/L	1.00	1.00	1	EPA 200.7	07/03/2013 14:43	07/03/2013 19:33	MW

Phenols, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
64743-03-9	Phenols, total	ND		mg/L	0.0500	0.0500	1	EPA 420.1/2	07/10/2013 09:02	07/10/2013 11:06	AMC

Total Kjeldahl Nitrogen(TKN)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	2.80		mg/L	0.100	0.100	1	SM 4500-N (Org)B	07/03/2013 20:07	07/05/2013 15:19	ALD



Sample Information

Client Sample ID: **MW-3S**

York Sample ID: **13G0075-03**

York Project (SDG) No.

13G0075

Client Project ID

DW13102.20

Matrix

Water

Collection Date/Time

July 1, 2013 3:00 pm

Date Received

07/02/2013

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	7.67		mg/L	1.00	1.00	1	SM 5310C	07/09/2013 13:09	07/10/2013 12:52	AD



Notes and Definitions

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.

For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.



Page 13 of 13



Technical Report

prepared for:

Ecosystems Strategies, Inc.

24 Davis Avenue

Poughkeepsie NY, 12603

Attention: Jerry Bernau

Report Date: 10/07/2013

Client Project ID: DW13102.20

York Project (SDG) No.: 13I1059

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 10/07/2013
Client Project ID: DW13102.20
York Project (SDG) No.: 13I1059

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Jerry Bernau

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on September 30, 2013 and listed below. The project was identified as your project: **DW13102.20**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13I1059-01	MW-2	Water	09/27/2013	09/30/2013
13I1059-02	MW-1S	Water	09/27/2013	09/30/2013
13I1059-03	MW-3S	Water	09/27/2013	09/30/2013

General Notes for York Project (SDG) No.: 13I1059

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 10/07/2013

YORK



Sample Information

Client Sample ID: MW-2

York Sample ID: 1311059-01

York Project (SDG) No.
1311059

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
September 27, 2013 3:00 pm

Date Received
09/30/2013

Cadmium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		mg/L	0.00300	0.00300	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:48	MW

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	49.2		mg/L	0.0500	0.0500	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:48	MW

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	173		mg/L	1.00	1.00	1	EPA 200.7	10/02/2013 14:13	10/02/2013 19:48	MW

Iron by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	54.4		mg/L	0.0200	0.0200	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:48	MW

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	0.00300	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:48	MW

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	12.2		mg/L	0.0500	0.0500	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:48	MW

Manganese by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	12.8		mg/L	0.00500	0.00500	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:48	MW

Potassium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	2.81		mg/L	0.0500	0.0500	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:48	MW



Sample Information

Client Sample ID: MW-2

York Sample ID: 1311059-01

York Project (SDG) No.
1311059

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
September 27, 2013 3:00 pm

Date Received
09/30/2013

Sodium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	11.8		mg/L	0.100	0.100	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:48	MW

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	365		mg/L	10.0	10.0	1	SM 2540C	10/04/2013 12:32	10/04/2013 15:26	BGS

Bromide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24959-67-9	Bromide	ND		mg/L	0.0330	0.200	1	EPA 300.0	09/30/2013 20:27	09/30/2013 20:27	KK

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	15.1		mg/L	0.0690	0.500	1	EPA 300.0	09/30/2013 20:27	09/30/2013 20:27	KK

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	0.202	HT-02	mg/L	0.0120	0.0500	1	EPA 300.0	09/30/2013 20:27	09/30/2013 20:27	KK

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	ND		mg/L	0.0860	1.00	1	EPA 300.0	09/30/2013 20:27	09/30/2013 20:27	KK

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	310		mg/L	0.90	2.0	1	SM 2320B	10/01/2013 07:41	10/01/2013 10:42	SC

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	Ammonia Nitrogen as N	1.40		mg/L	0.0500	0.0500	1	SM 4500-NH3 D	10/01/2013 10:40	10/01/2013 20:50	KK

Biochemical Oxygen Demand (BOD) 5-Day

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
---------	-----------	--------	------	-------	-----	----	----------	------------------	--------------------	--------------------	---------



Sample Information

Client Sample ID: MW-2

York Sample ID: 1311059-01

York Project (SDG) No.
1311059

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
September 27, 2013 3:00 pm

Date Received
09/30/2013

Biochemical Oxygen Demand (BOD) 5-Day

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Biochemical Oxygen Demand (BOD) (5-Day)	8.0	HT-02	mg/L	1.0	1.0	1	SM 5210 B	10/02/2013 07:48	10/07/2013 11:43	SC

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Chemical Oxygen Demand (COD)	58		mg/L	10	10	1	SM 5220 D	10/01/2013 09:26	10/01/2013 14:26	AA

Phenols, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
64743-03-9	Phenols, total	0.0600		mg/L	0.0500	0.0500	1	EPA 420.1/2	10/07/2013 12:49	10/07/2013 15:19	AD

Total Kjeldahl Nitrogen

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	2.68		mg/L	0.100	0.100	1	SM 4500-N Org B	10/01/2013 15:01	10/03/2013 20:04	KK

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	2.47		mg/L	1.00	1.00	1	SM 5310C	10/01/2013 11:35	10/01/2013 16:34	AD

Sample Information

Client Sample ID: MW-1S

York Sample ID: 1311059-02

York Project (SDG) No.
1311059

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
September 27, 2013 3:00 pm

Date Received
09/30/2013

Cadmium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		mg/L	0.00300	0.00300	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:53	MW

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	93.6		mg/L	0.0500	0.0500	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:53	MW



Sample Information

Client Sample ID: MW-1S

York Sample ID: 1311059-02

York Project (SDG) No.
1311059

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
September 27, 2013 3:00 pm

Date Received
09/30/2013

Hardness, total (as CaCO₃)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	356		mg/L	1.00	1.00	1	EPA 200.7	10/02/2013 14:13	10/02/2013 19:53	MW

Iron by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	0.0998		mg/L	0.0200	0.0200	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:53	MW

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	0.00300	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:53	MW

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	29.6		mg/L	0.0500	0.0500	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:53	MW

Manganese by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	0.413		mg/L	0.00500	0.00500	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:53	MW

Potassium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	0.838		mg/L	0.0500	0.0500	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:53	MW

Sodium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	10.8		mg/L	0.100	0.100	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:53	MW

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	464		mg/L	10.0	10.0	1	SM 2540C	10/04/2013 12:32	10/04/2013 15:26	BGS

Bromide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
---------	-----------	--------	------	-------	-----	----	----------	------------------	--------------------	--------------------	---------



Sample Information

Client Sample ID: MW-1S

York Sample ID: 1311059-02

York Project (SDG) No.

1311059

Client Project ID

DW13102.20

Matrix

Water

Collection Date/Time

September 27, 2013 3:00 pm

Date Received

09/30/2013

Bromide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24959-67-9	Bromide	ND		mg/L	0.0330	0.200	1	EPA 300.0	09/30/2013 20:45	09/30/2013 20:45	KK

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	2.64		mg/L	0.0690	0.500	1	EPA 300.0	09/30/2013 20:45	09/30/2013 20:45	KK

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	0.122	HT-02	mg/L	0.0120	0.0500	1	EPA 300.0	09/30/2013 20:45	09/30/2013 20:45	KK

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	58.1		mg/L	0.860	10.0	10	EPA 300.0	10/02/2013 07:23	10/02/2013 07:23	KK

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	320		mg/L	0.90	2.0	1	SM 2320B	10/01/2013 07:41	10/01/2013 10:42	SC

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	Ammonia Nitrogen as N	ND		mg/L	0.0500	0.0500	1	SM 4500-NH3 D	10/01/2013 10:40	10/01/2013 20:50	KK

Biochemical Oxygen Demand (BOD) 5-Day

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Biochemical Oxygen Demand (BOD) (5-Day)	8.0	HT-02	mg/L	1.0	1.0	1	SM 5210 B	10/02/2013 07:48	10/07/2013 11:43	SC

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Chemical Oxygen Demand (COD)	16		mg/L	10	10	1	SM 5220 D	10/01/2013 09:26	10/01/2013 14:26	AA



Sample Information

Client Sample ID: MW-1S

York Sample ID: 1311059-02

York Project (SDG) No.
1311059

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
September 27, 2013 3:00 pm

Date Received
09/30/2013

Phenols, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
64743-03-9	Phenols, total	0.0700		mg/L	0.0500	0.0500	1	EPA 420.1/2	10/07/2013 12:49	10/07/2013 15:19	AD

Total Kjeldahl Nitrogen

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	0.202		mg/L	0.100	0.100	1	SM 4500-N Org B	10/01/2013 15:01	10/03/2013 20:04	KK

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	ND		mg/L	1.00	1.00	1	SM 5310C	10/01/2013 11:35	10/01/2013 16:34	AD

Sample Information

Client Sample ID: MW-3S

York Sample ID: 1311059-03

York Project (SDG) No.
1311059

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
September 27, 2013 3:00 pm

Date Received
09/30/2013

Cadmium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		mg/L	0.00300	0.00300	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:58	MW

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	191		mg/L	0.0500	0.0500	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:58	MW

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	700		mg/L	1.00	1.00	1	EPA 200.7	10/02/2013 14:13	10/02/2013 19:58	MW

Iron by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	31.4		mg/L	0.0200	0.0200	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:58	MW



Sample Information

Client Sample ID: MW-3S

York Sample ID: 1311059-03

York Project (SDG) No.
1311059

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
September 27, 2013 3:00 pm

Date Received
09/30/2013

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	0.00300	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:58	MW

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	54.4		mg/L	0.0500	0.0500	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:58	MW

Manganese by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	9.50		mg/L	0.00500	0.00500	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:58	MW

Potassium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	11.7		mg/L	0.0500	0.0500	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:58	MW

Sodium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	23.5		mg/L	0.100	0.100	1	EPA 6010C	10/02/2013 14:13	10/02/2013 19:58	MW

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	940		mg/L	10.0	10.0	1	SM 2540C	10/04/2013 12:32	10/04/2013 15:26	BGS

Bromide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24959-67-9	Bromide	0.602		mg/L	0.0330	0.200	1	EPA 300.0	09/30/2013 21:03	09/30/2013 21:03	KK

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	24.5		mg/L	0.0690	0.500	1	EPA 300.0	09/30/2013 21:03	09/30/2013 21:03	KK

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
---------	-----------	--------	------	-------	-----	----	----------	------------------	--------------------	--------------------	---------



Sample Information

Client Sample ID: MW-3S

York Sample ID: 1311059-03

York Project (SDG) No.
1311059

Client Project ID
DW13102.20

Matrix
Water

Collection Date/Time
September 27, 2013 3:00 pm

Date Received
09/30/2013

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	0.307	HT-02	mg/L	0.0120	0.0500	1	EPA 300.0	09/30/2013 21:03	09/30/2013 21:03	KK

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	94.4		mg/L	0.860	10.0	10	EPA 300.0	10/02/2013 07:41	10/02/2013 07:41	KK

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	690		mg/L	0.90	2.0	1	SM 2320B	10/01/2013 07:41	10/01/2013 10:42	SC

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	Ammonia Nitrogen as N	0.343		mg/L	0.0500	0.0500	1	SM 4500-NH3 D	10/01/2013 10:40	10/01/2013 20:50	KK

Biochemical Oxygen Demand (BOD) 5-Day

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Biochemical Oxygen Demand (BOD) (5-Day)	12	HT-02	mg/L	1.0	1.0	1	SM 5210 B	10/02/2013 07:48	10/07/2013 11:43	SC

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Chemical Oxygen Demand (COD)	99		mg/L	10	10	1	SM 5220 D	10/01/2013 09:26	10/01/2013 14:26	AA

Phenols, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
64743-03-9	Phenols, total	0.0600		mg/L	0.0500	0.0500	1	EPA 420.1/2	10/07/2013 12:49	10/07/2013 15:19	AD

Total Kjeldahl Nitrogen

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	2.28		mg/L	0.100	0.100	1	SM 4500-N Org B	10/01/2013 15:01	10/03/2013 20:04	KK



Sample Information

Client Sample ID: MW-3S

York Sample ID: 1311059-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1311059

DW13102.20

Water

September 27, 2013 3:00 pm

09/30/2013

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	9.86		mg/L	1.00	1.00	1	SM 5310C	10/01/2013 11:35	10/01/2013 16:34	AD



Notes and Definitions

HT-02 NON-COMPLIANT-This sample was received outside the EPA recommended holding time.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

Corrective Action: Client submitted samples for BOD5 & Nitrate Out of Hold Time - 09/30/2013



YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
Fax (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 1311059

Page 1 of 1

YOUR INFORMATION

Company: Ecosystems Strategy
Address: 24 Davis Ave
Phone No. 845-4152-1158
Contact Person: Jerry
E-Mail Address:

Report To:

Company: Same

Invoice To:

Company: Brenda

Address:

Phone No.

Attention:

E-Mail Address:

Turn-Around Time

RUSH - Same Day ☐
RUSH - Next Day ☐
RUSH - Two Day ☐
RUSH - Three Day ☐
RUSH - Four Day ☐

YOUR Project ID

DW13102.20

Purchase Order No.

Standard(5-7 Days) ☒

Report Type

Summary Report ☒
Summary w/ QA Summary ☐
CT RCP Package ☐
CTRCP DQA/DUE Pkg ☐
NY ASP A Package ☐
NY ASP B Package ☐
NJDEP Red. Deliv. ☐

Electronic Data Deliverables (EDD)

Simple Excel ☐
NYSDEC EQULS ☐
EQULS (std) ☐
EZ-EDD (EQULS) ☐
NJDEP SRP HazSite EDD ☐
GIS/KEY (std) ☐
Other ☐
York Regulatory Comparison ☐
Excel Spreadsheet ☐
Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Samples Collected/Authorized By (Signature)
Terry Bernar
Name (printed)

Choose Analyses Needed from the Menu Above and Enter Below

Container Description(s)

1 Liter Plastic
2 liter amber
250 ml plastic
250 ml plastic (initial)
(3) 40 ml vials
(2 has 1st & 2nd)

Sample Matrix

GW

Date/Time Sampled

9-29-13

Sample Identification

MW-15

Comments

MW-35

Temperature on Receipt

3.0 °C

Samples Relinquished By

9/30/13

Samples Received By

9/30/13

Samples Relinquished By

9/30/13

Samples Received By

9/30/13

Preservation

Check those Applicable

Special Instructions

Field Filtered ☐
Lab to Filter ☐



Technical Report

prepared for:

Ecosystems Strategies, Inc.

24 Davis Avenue

Poughkeepsie NY, 12603

Attention: Jerry Bernau

Report Date: 12/16/2013

Client Project ID: DW13102

York Project (SDG) No.: 13L0181

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 12/16/2013
Client Project ID: DW13102
York Project (SDG) No.: 13L0181

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Jerry Bernau

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 05, 2013 and listed below. The project was identified as your project: **DW13102**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13L0181-01	MW-3S	Water	12/04/2013	12/05/2013
13L0181-02	MW-2	Water	12/04/2013	12/05/2013
13L0181-03	MW-1S	Water	12/04/2013	12/05/2013

General Notes for York Project (SDG) No.: 13L0181

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 12/16/2013





Sample Information

Client Sample ID: MW-3S

York Sample ID: 13L0181-01

York Project (SDG) No.

13L0181

Client Project ID

DW13102

Matrix

Water

Collection Date/Time

December 4, 2013 3:00 pm

Date Received

12/05/2013

Volatile Organics, NYSDEC Part 360 Baseline List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
591-78-6	2-Hexanone	ND		ug/L	1.1	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.86	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
67-64-1	Acetone	ND		ug/L	6.1	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
107-13-1	Acrylonitrile	ND		ug/L	1.3	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
75-15-0	Carbon disulfide	ND		ug/L	0.51	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
108-90-7	Chlorobenzene	1.3	J	ug/L	0.38	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS



Sample Information

Client Sample ID: MW-3S

York Sample ID: 13L0181-01

York Project (SDG) No.

13L0181

Client Project ID

DW13102

Matrix

Water

Collection Date/Time

December 4, 2013 3:00 pm

Date Received

12/05/2013

Volatile Organics, NYSDEC Part 360 Baseline List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
74-88-4	Iodomethane	ND		ug/L	0.84	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.86	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA 8260C	12/13/2013 16:30	12/14/2013 04:45	SS
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	100 %		78-122							
460-00-4	Surrogate: p-Bromofluorobenzene	101 %		87-112							
2037-26-5	Surrogate: Toluene-d8	104 %		91-110							

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	670		mg/L	1.00	1.00	1	EPA 200.7	12/06/2013 13:54	12/06/2013 17:57	MW

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.021		mg/L	0.010	0.010	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW



Sample Information

Client Sample ID: MW-3S

York Sample ID: 13L0181-01

York Project (SDG) No.

13L0181

Client Project ID

DW13102

Matrix

Water

Collection Date/Time

December 4, 2013 3:00 pm

Date Received

12/05/2013

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7440-39-3	Barium	0.175		mg/L	0.010	0.010	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7440-70-2	Calcium	183		mg/L	0.050	0.050	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7440-48-4	Cobalt	0.016		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7439-89-6	Iron	46.8		mg/L	0.020	0.020	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7439-95-4	Magnesium	51.1		mg/L	0.050	0.050	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7439-96-5	Manganese	12.7		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7440-02-0	Nickel	0.022		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7440-09-7	Potassium	9.92		mg/L	0.050	0.050	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7782-49-2	Selenium	0.045		mg/L	0.010	0.010	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7440-23-5	Sodium	18.1		mg/L	0.100	0.100	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW
7440-66-6	Zinc	0.014		mg/L	0.010	0.010	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 17:57	MW

Boron by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-42-8	Boron	244		ug/L	1.00	1.00	1	EPA 6020A	12/06/2013 10:41	12/06/2013 14:28	MW



Sample Information

Client Sample ID: MW-3S

York Sample ID: 13L0181-01

York Project (SDG) No.

13L0181

Client Project ID

DW13102

Matrix

Water

Collection Date/Time

December 4, 2013 3:00 pm

Date Received

12/05/2013

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	12/10/2013 08:43	12/10/2013 15:03	ALD

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	756		mg/L	20.0	20.0	1	SM 2540C	12/11/2013 17:21	12/11/2013 17:21	ALD

Bromide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24959-67-9	Bromide	0.382		mg/L	0.0330	0.200	1	EPA 300.0	12/05/2013 22:57	12/05/2013 22:57	AD

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	12.3		mg/L	0.0690	0.500	1	EPA 300.0	12/05/2013 22:57	12/05/2013 22:57	AD

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	0.128		mg/L	0.0120	0.0500	1	EPA 300.0	12/05/2013 22:57	12/05/2013 22:57	AD

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	42.7		mg/L	0.0860	1.00	1	EPA 300.0	12/05/2013 22:57	12/05/2013 22:57	AD

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	740		mg/L	2.0	2.0	1	SM 2320B	12/12/2013 13:56	12/12/2013 16:30	AD

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: MW-3S

York Sample ID: 13L0181-01

York Project (SDG) No.

13L0181

Client Project ID

DW13102

Matrix

Water

Collection Date/Time

December 4, 2013 3:00 pm

Date Received

12/05/2013

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	Ammonia Nitrogen as N	1.40		mg/L	0.0500	0.0500	1	SM 4500-NH3 D	12/10/2013 11:13	12/12/2013 07:55	MF

Biochemical Oxygen Demand (BOD) 5-Day

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Biochemical Oxygen Demand (BOD) (5-Day)	15		mg/L	1.0	1.0	1	SM 5210 B	12/06/2013 07:29	12/11/2013 14:17	SC

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Chemical Oxygen Demand (COD)	55		mg/L	10	10	1	SM 5220 D	12/12/2013 09:34	12/12/2013 15:16	AA

Color, Apparent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Color	900	HT-02	Color Units (Pt-Co)	100	100	20	SM 2120B	12/12/2013 10:03	12/12/2013 11:43	AD

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E	12/11/2013 08:28	12/11/2013 15:03	AD

Hexavalent Chromium

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.00600	0.0100	1	SM 3500-Cr B	12/05/2013 19:41	12/05/2013 19:41	AD

Phenols, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
64743-03-9	Phenols, total	0.0800		mg/L	0.0500	0.0500	1	EPA 420.1/2	12/05/2013 18:30	12/09/2013 11:06	KK

Total Kjeldahl Nitrogen

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	3.06		mg/L	0.100	0.100	1	SM 4500-N Org B	12/10/2013 07:38	12/12/2013 07:50	MF

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
---------	-----------	--------	------	-------	-----	----	----------	------------------	--------------------	--------------------	---------



Sample Information

Client Sample ID: MW-3S

York Sample ID: 13L0181-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13L0181

DW13102

Water

December 4, 2013 3:00 pm

12/05/2013

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	8.60		mg/L	1.00	1.00	1	SM 5310C	12/10/2013 11:36	12/12/2013 13:53	AD

Sample Information

Client Sample ID: MW-2

York Sample ID: 13L0181-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13L0181

DW13102

Water

December 4, 2013 3:00 pm

12/05/2013

Volatile Organics, NYSDEC Part 360 Baseline List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
591-78-6	2-Hexanone	ND		ug/L	1.1	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.86	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
67-64-1	Acetone	ND		ug/L	6.1	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
107-13-1	Acrylonitrile	ND		ug/L	1.3	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS



Sample Information

Client Sample ID: MW-2

York Sample ID: 13L0181-02

York Project (SDG) No.

13L0181

Client Project ID

DW13102

Matrix

Water

Collection Date/Time

December 4, 2013 3:00 pm

Date Received

12/05/2013

Volatile Organics, NYSDEC Part 360 Baseline List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
75-15-0	Carbon disulfide	ND		ug/L	0.51	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
74-88-4	Iodomethane	ND		ug/L	0.84	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.86	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:20	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %	78-122								
460-00-4	Surrogate: p-Bromofluorobenzene	99.5 %	87-112								



Sample Information

Client Sample ID: MW-2

York Sample ID: 13L0181-02

York Project (SDG) No.

13L0181

Client Project ID

DW13102

Matrix

Water

Collection Date/Time

December 4, 2013 3:00 pm

Date Received

12/05/2013

Volatile Organics, NYSDEC Part 360 Baseline List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	Surrogate: Toluene-d8	105 %			91-110						

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	140		mg/L	1.00	1.00	1	EPA 200.7	12/06/2013 13:54	12/06/2013 18:01	MW

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.310		mg/L	0.010	0.010	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7440-39-3	Barium	0.123		mg/L	0.010	0.010	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7440-70-2	Calcium	44.4		mg/L	0.050	0.050	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7439-89-6	Iron	49.7		mg/L	0.020	0.020	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7439-92-1	Lead	0.004		mg/L	0.003	0.003	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7439-95-4	Magnesium	11.6		mg/L	0.050	0.050	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7439-96-5	Manganese	11.0		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7440-02-0	Nickel	0.014		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7440-09-7	Potassium	2.45		mg/L	0.050	0.050	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7782-49-2	Selenium	0.023		mg/L	0.010	0.010	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7440-23-5	Sodium	5.98		mg/L	0.100	0.100	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW
7440-66-6	Zinc	0.017		mg/L	0.010	0.010	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:01	MW



Sample Information

Client Sample ID: MW-2

York Sample ID: 13L0181-02

York Project (SDG) No.

13L0181

Client Project ID

DW13102

Matrix

Water

Collection Date/Time

December 4, 2013 3:00 pm

Date Received

12/05/2013

Boron by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-42-8	Boron	25.8		ug/L	1.00	1.00	1	EPA 6020A	12/06/2013 10:41	12/06/2013 14:35	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	12/10/2013 08:43	12/10/2013 15:03	ALD

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	192		mg/L	20.0	20.0	1	SM 2540C	12/11/2013 17:21	12/11/2013 17:21	ALD

Bromide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24959-67-9	Bromide	ND		mg/L	0.0330	0.200	1	EPA 300.0	12/05/2013 23:16	12/05/2013 23:16	AD

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	5.61		mg/L	0.0690	0.500	1	EPA 300.0	12/05/2013 23:16	12/05/2013 23:16	AD

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	0.160		mg/L	0.0120	0.0500	1	EPA 300.0	12/05/2013 23:16	12/05/2013 23:16	AD

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	4.71		mg/L	0.0860	1.00	1	EPA 300.0	12/05/2013 23:16	12/05/2013 23:16	AD

Alkalinity, Total

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: MW-2

York Sample ID: 13L0181-02

York Project (SDG) No.

13L0181

Client Project ID

DW13102

Matrix

Water

Collection Date/Time

December 4, 2013 3:00 pm

Date Received

12/05/2013

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	200		mg/L	2.0	2.0	1	SM 2320B	12/12/2013 13:56	12/12/2013 16:30	AD

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	Ammonia Nitrogen as N	2.27		mg/L	0.0500	0.0500	1	SM 4500-NH3 D	12/10/2013 11:13	12/12/2013 07:55	MF

Biochemical Oxygen Demand (BOD) 5-Day

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Biochemical Oxygen Demand (BOD) (5-Day)	10		mg/L	1.0	1.0	1	SM 5210 B	12/06/2013 07:29	12/11/2013 14:17	SC

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Chemical Oxygen Demand (COD)	36		mg/L	10	10	1	SM 5220 D	12/12/2013 09:34	12/12/2013 15:16	AA

Color, Apparent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Color	800	HT-02	Color Units (Pt-Co)	100	100	20	SM 2120B	12/12/2013 10:03	12/12/2013 11:43	AD

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E	12/11/2013 08:28	12/11/2013 15:03	AD

Hexavalent Chromium

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.00600	0.0100	1	SM 3500-Cr B	12/05/2013 19:41	12/05/2013 19:41	AD

Phenols, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
64743-03-9	Phenols, total	0.0600		mg/L	0.0500	0.0500	1	EPA 420.1/2	12/05/2013 18:30	12/09/2013 11:06	KK

Total Kjeldahl Nitrogen

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: MW-2

York Sample ID: 13L0181-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13L0181

DW13102

Water

December 4, 2013 3:00 pm

12/05/2013

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	2.80		mg/L	0.100	0.100	1	SM 4500-N Org B	12/10/2013 07:38	12/12/2013 07:50	MF

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	3.06		mg/L	1.00	1.00	1	SM 5310C	12/10/2013 11:36	12/12/2013 13:53	AD

Sample Information

Client Sample ID: MW-1S

York Sample ID: 13L0181-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13L0181

DW13102

Water

December 4, 2013 3:00 pm

12/05/2013

Volatile Organics, NYSDEC Part 360 Baseline List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
591-78-6	2-Hexanone	ND		ug/L	1.1	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.86	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS



Sample Information

Client Sample ID: MW-1S

York Sample ID: 13L0181-03

York Project (SDG) No.

13L0181

Client Project ID

DW13102

Matrix

Water

Collection Date/Time

December 4, 2013 3:00 pm

Date Received

12/05/2013

Volatile Organics, NYSDEC Part 360 Baseline List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/L	6.1	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
107-13-1	Acrylonitrile	ND		ug/L	1.3	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
75-15-0	Carbon disulfide	ND		ug/L	0.51	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
74-88-4	Iodomethane	ND		ug/L	0.84	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.86	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA 8260C	12/13/2013 16:30	12/14/2013 05:55	SS



Sample Information

Client Sample ID: MW-1S

York Sample ID: 13L0181-03

York Project (SDG) No.

13L0181

Client Project ID

DW13102

Matrix

Water

Collection Date/Time

December 4, 2013 3:00 pm

Date Received

12/05/2013

Volatile Organics, NYSDEC Part 360 Baseline List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %			78-122						
460-00-4	Surrogate: p-Bromofluorobenzene	95.7 %			87-112						
2037-26-5	Surrogate: Toluene-d8	103 %			91-110						

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	345		mg/L	1.00	1.00	1	EPA 200.7	12/06/2013 13:54	12/06/2013 18:06	MW

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.242		mg/L	0.010	0.010	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7440-39-3	Barium	0.025		mg/L	0.010	0.010	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7440-70-2	Calcium	91.9		mg/L	0.050	0.050	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7439-89-6	Iron	0.347		mg/L	0.020	0.020	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7439-95-4	Magnesium	28.0		mg/L	0.050	0.050	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7439-96-5	Manganese	0.384		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7440-09-7	Potassium	0.896		mg/L	0.050	0.050	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7782-49-2	Selenium	0.012		mg/L	0.010	0.010	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7440-23-5	Sodium	10.1		mg/L	0.100	0.100	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW



Sample Information

Client Sample ID: MW-1S

York Sample ID: 13L0181-03

York Project (SDG) No.

13L0181

Client Project ID

DW13102

Matrix

Water

Collection Date/Time

December 4, 2013 3:00 pm

Date Received

12/05/2013

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	0.018		mg/L	0.010	0.010	1	EPA 200.7/6010C	12/06/2013 13:54	12/06/2013 18:06	MW

Boron by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-42-8	Boron	12.9		ug/L	1.00	1.00	1	EPA 6020A	12/06/2013 10:41	12/06/2013 14:41	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	12/10/2013 08:43	12/10/2013 15:03	ALD

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	396		mg/L	20.0	20.0	1	SM 2540C	12/11/2013 17:21	12/11/2013 17:21	ALD

Bromide

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24959-67-9	Bromide	ND		mg/L	0.0330	0.200	1	EPA 300.0	12/05/2013 23:35	12/05/2013 23:35	AD

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	2.52		mg/L	0.0690	0.500	1	EPA 300.0	12/05/2013 23:35	12/05/2013 23:35	AD

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	0.138		mg/L	0.0120	0.0500	1	EPA 300.0	12/05/2013 23:35	12/05/2013 23:35	AD

Sulfate as SO4

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: MW-1S

York Sample ID: 13L0181-03

York Project (SDG) No.

13L0181

Client Project ID

DW13102

Matrix

Water

Collection Date/Time

December 4, 2013 3:00 pm

Date Received

12/05/2013

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	60.2		mg/L	0.860	10.0	10	EPA 300.0	12/09/2013 23:11	12/09/2013 23:11	KK

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	310		mg/L	2.0	2.0	1	SM 2320B	12/12/2013 13:56	12/12/2013 16:30	AD

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	Ammonia Nitrogen as N	ND		mg/L	0.0500	0.0500	1	SM 4500-NH3 D	12/10/2013 11:13	12/12/2013 07:55	MF

Biochemical Oxygen Demand (BOD) 5-Day

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Biochemical Oxygen Demand (BOD) (5-Day)	ND		mg/L	1.0	1.0	1	SM 5210 B	12/06/2013 07:29	12/11/2013 14:17	SC

Chemical Oxygen Demand (COD)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Chemical Oxygen Demand (COD)	15		mg/L	10	10	1	SM 5220 D	12/12/2013 09:34	12/12/2013 15:16	AA

Color, Apparent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Color	20	HT-02	Color Units (Pt-Co)	5.0	5.0	1	SM 2120B	12/12/2013 10:03	12/12/2013 11:43	AD

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E	12/11/2013 08:28	12/11/2013 15:03	AD

Hexavalent Chromium

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-02	mg/L	0.00600	0.0100	1	SM 3500-Cr B	12/05/2013 19:41	12/05/2013 19:41	AD

Phenols, total

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: MW-1S

York Sample ID: 13L0181-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13L0181

DW13102

Water

December 4, 2013 3:00 pm

12/05/2013

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
64743-03-9	Phenols, total	0.0800		mg/L	0.0500	0.0500	1	EPA 420.1/2	12/05/2013 18:30	12/09/2013 11:06	KK

Total Kjeldahl Nitrogen

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Kjeldahl Nitrogen	0.428		mg/L	0.100	0.100	1	SM 4500-N Org B	12/10/2013 07:38	12/12/2013 07:50	MF

Total Organic Carbon

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Organic Carbon (TOC)	1.66		mg/L	1.00	1.00	1	SM 5310C	12/10/2013 11:36	12/12/2013 13:53	AD



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13L0181-01	MW-3S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13L0181-02	MW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13L0181-03	MW-1S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Notes and Definitions

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
HT-02	NON-COMPLIANT-This sample was received outside the EPA recommended holding time.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested. Signature binds you to York's Std. Terms & Conditions.

York Project No. 13LO181

[illegible]