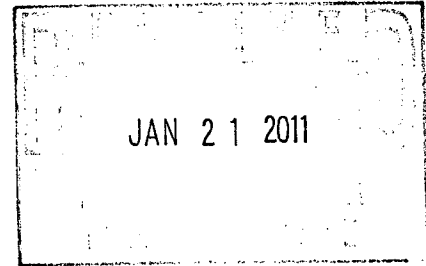


CORNERSTONE

Engineering and Land Surveying, PLLC

90 Crystal Run Road, Suite 201 • Middletown, NY • 10941 • (877) 294-9070 • Fax: (845) 692-5894

January 19, 2011



Michael Mason, P.E.
Bureau of Construction Services
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, New York 12233-7013

Re: Quarterly Progress Report – 4th Quarter 2010
Harriman Inactive Waste Disposal Site #336006

Dear Mr. Mason:

On behalf of the Maybrook and Harriman Environmental Trust (the Trust), this letter and attachments provide the fourth quarter of 2010 project progress report for the Harriman Site, located in Harriman, New York.

Site Remediation Activities Performed (October - December 2010)

- The biosparging system was shut down on September 10, 2008 in accordance with the Supplemental Remedial Action Work Plan approved by the Department on June 18, 2008, and remained off line through the fourth quarter of 2010, per recommendations in prior quarterly reports to the Department. Because the system was off line, no routine operation and maintenance was necessary during the reporting period. The building housing the biosparge system remains locked and in a generally good state of repair.
- Per the approved Supplemental Remedial Action Work Plan, groundwater sampling was performed at 29 wells during the period from October 25 - 27, 2011 and laboratory analyses were completed by TestAmerica, also in accordance with the approved work plan. The October 2010 groundwater sampling and analysis report prepared by R&C Formation, Ltd. is attached for reference. This sampling event was the regularly scheduled semi-annual event that also served the purpose of collecting groundwater analytical data following shut-down of the biosparging system, in accordance with the approved work plan. The data provided in the attached groundwater monitoring report indicates the following:

- After shutdown of the biosparging system, the data continues to demonstrate non-detectable concentrations of site VOCs/SVOCs at the down-gradient property boundary.
- Benzene concentrations within the main plant area, as illustrated in the attached time series graphs, continue to fluctuate since shutdown of the biosparging system and therefore, continue to indicate that conditions are at equilibrium. The increase in concentration observed in October 2010 at locations OW-6, OW-7 and MW-20S are consistent with the fluctuation in concentrations observed during operation of the biosparge system and is attributable to changes in precipitation and groundwater levels over time. For example, groundwater levels within the central portion of the site have been documented to vary by over 6 feet (see Second Quarter 2010 Progress Report). Ongoing fluctuations in both groundwater levels and constituent concentrations are anticipated.
- The data continue to demonstrate that since shut down of the biosparging system, there is no evidence of an expansion of the plume or exceedance of groundwater quality criteria at the down-gradient perimeter.
- Silt fence and interim cover along the West Branch Ramapo River were checked as a part of the routine site inspection performed in December 2010. The silt fence and interim cover remain in good working condition and there have been no signs of erosion. The silt fence is being maintained as necessary based on site inspections.
- The quarterly well inspection report completed by Bigler Associates is also attached for reference and indicates in general that the monitoring well network is in a good state of repair, and also indicates minor repairs that occurred during the inspection, or that will occur during the next quarter.
- As discussed in previous quarterly reports, the analytical data continue to indicate that the groundwater system has reached a new equilibrium since shut down of the biosparge system, and groundwater quality criteria for the Site COCs are being met at the down-gradient perimeter. Consistent with prior recommendations, a continuation of the biosparge system shut down and monitoring for an additional six-month increment of time, as contemplated in the approved Supplemental Remedial Action Work Plan, is recommended. Continued monitoring data will provide additional confirmation of the groundwater system reaching equilibrium and help to corroborate the interpretations of the minor variations in the groundwater quality data. The next semi-annual groundwater sampling event is scheduled for April 2011.

- The IRM groundwater extraction system remains off-line on standby pending the completion of the Supplemental Remedial Action Work Plan, including continued groundwater monitoring, and evaluation of the appropriateness of an ESD.

Parking Lot and Other

As of May 14, 2010, the Trust had concluded all work and information transfer requested by the Department in connection with sampling and delineation of the calcium sulfate material in the Area B parking lot. Discussions are currently ongoing with the Department regarding future actions.

Activities for the 1st Quarter 2011 (January – March 2011)

- Perform the regularly scheduled, quarterly monitoring well and riverbank inspections.
- Prepare for the next semi-annual groundwater sampling event in April 2011 (2nd quarter).

Please do not hesitate to contact us should you have questions or comments on any aspect of this progress report.

Sincerely,

CORNERSTONE ENGINEERING AND LAND SURVEYING, PLLC



Gary J. DiPippo, P.E.
Manager, Hydrogeology and Remediation

Enclosure: Inspection Report
 Semi-Annual Monitoring Report
 Concentration Trend Plots

cc: G. Hollerbach
 S. Levine
 B. Wong
 J. Jones
 K. Might
 M. Robinson

**Groundwater Monitoring Report
Former Nepera Plant
Harriman, New York
October, 2010**

Prepared for:

**Maybrook and Harriman Trust
c/o Mr. George Hollerbach, Trust Representative
Quantum Management Group, Inc.
1187 Main Avenue, Suite 2B
Clifton, NJ 07011**

Prepared by:

**R & C Formation, Ltd.
705 Bedford Ave., Suite 2B
Bellmore, New York 11710**

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Appendices

- Appendix 1. Groundwater Sampling Logs
- Appendix 2. Electronic Water Level Indicator Calibration Procedures
- Appendix 3. Statement of Procedures for the Calibration of Multi-Parameter Water Quality Monitoring System, Horiba U-22XD
- Appendix 4. Laboratory Analytical Data

**Groundwater Monitoring Report
Former Nepera Plant
Harriman, New York
October, 2010**

Introduction

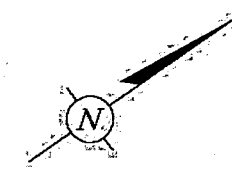
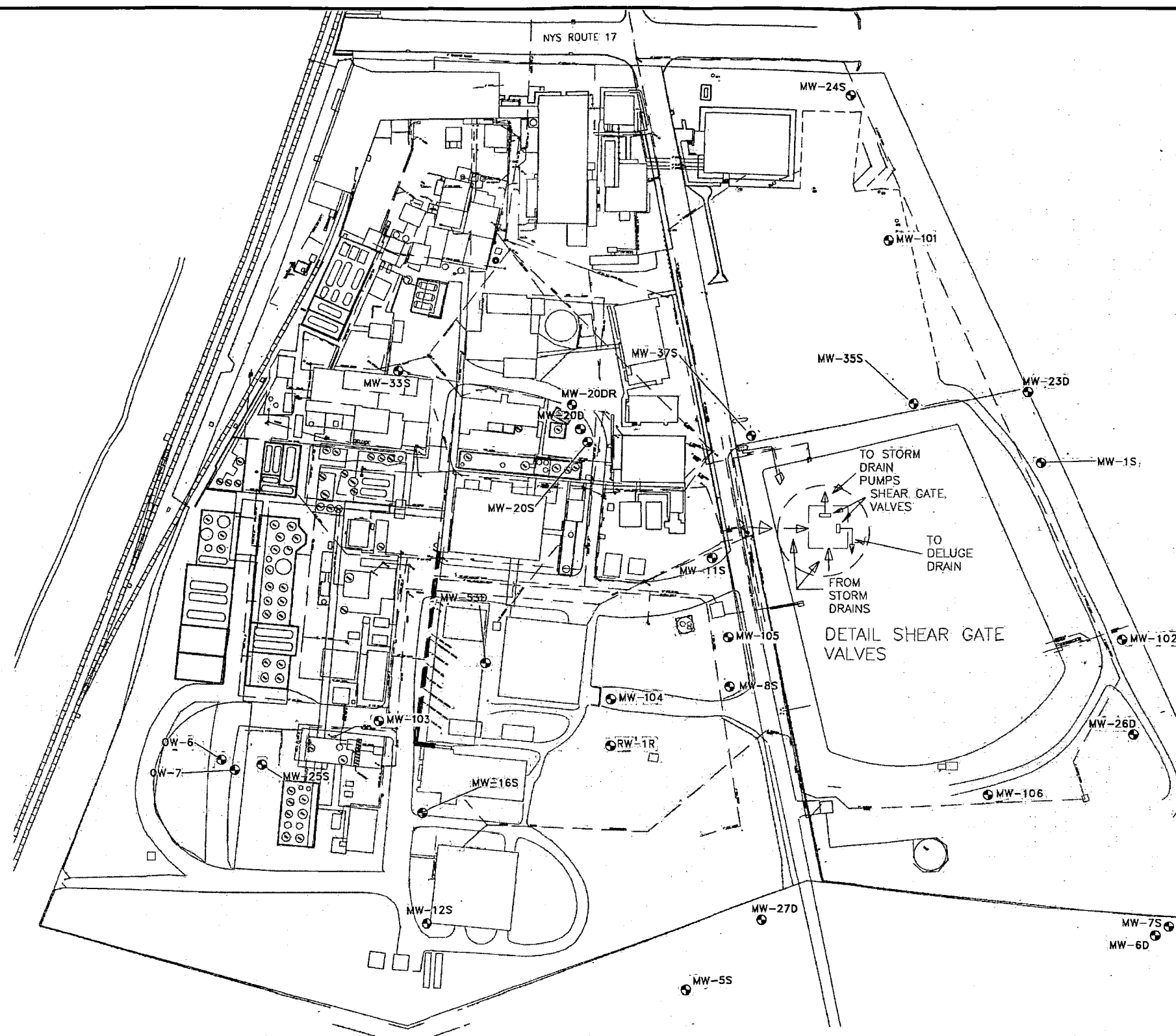
Presented herein are the results of groundwater monitoring activities performed at the Former Nepera Plant, Harriman, New York, October 25-27, 2010. The results of groundwater monitoring activities reported represent the fifth event completed following the shut-down of the onsite biosparge system, as approved by NYSDEC, pursuant to the *Conceptual Site Model and Supplemental Remedial Action Work Plan* (HydroQual, May, 2008). The scope-of-work performed, per an agreement with the Maybrook and Harriman Environmental Trust, is presented below. A description of monitoring procedures, quality assurance/quality control protocols and a summary of analytical results follows.

Scope of Work

The scope-of-work includes performance of the following items:

- 1) Measurement of groundwater levels in 34 select Overburden Aquifer wells.
- 2) Collection of groundwater samples from 29 monitoring wells installed within 2 hydrogeologic units identified beneath the Former Nepera Plant: *Overburden Aquifer* (MW-1S, MW-5S, MW-7S, MW-8S, MW-11S, MW-12S, MW-16S, MW-20S, MW-24S, MW-25S, MW-33S, MW-35S, MW-37S, OW-6, OW-7, RW-1R, MW-53D, MW-101, MW-102, MW-103, MW-104, MW-105 & MW-106); *Bedrock Aquifer* (MW-6D, MW-20D, MW-23D, MW-26D, MW-27D & MW-20DR).
- 3) Analysis of all collected groundwater samples for *volatile organic compounds* (benzene, toluene, ethylbenzene and xylenes) and select ground water samples for *general chemistry* parameters (iron, manganese, sulfate, nitrate, ammonia and mercury).

Monitoring locations are depicted in Figure 1.



Title: Monitoring Well Location Map		
Project: Nepera Inc. Harriman, New York	Date:	11/05/08
	Figure:	1
R & C Formation, Ltd. Professional Groundwater and Environmental Services 705 Bedford Ave., Suite 2B Bellmore, New York 11710	Scale:	As Shown
	Drawing No.:	NI1008-01
	Prepared By:	MAC
	Appr. By:	RNC

Monitoring Procedures

Groundwater Level Measurements

The depth-to-water in 34 select Overburden Aquifer monitoring wells was measured October 25, 2010, between the hours of 0830 and 1015, utilizing an electronic water level indicator accurate to within 0.01 feet. Measurements recorded and correlated to mean sea level (via existing reported measuring point elevations) are presented on Table 1.

Groundwater Sampling

Prior to commencing groundwater sampling activities, the concentration of volatile organic compounds within the head-space of on-site monitoring wells, if any, was measured using a photoionization detector (PID) capable of detecting a vapor-phase concentration to within 1 part per million (ppm).

Groundwater sampling methodology encompasses low-flow purging and the subsequent collection of samples upon the stabilization of measured and recorded field parameters: oxidation-reduction potential, pH, conductivity, temperature, dissolved oxygen and turbidity. A submersible centrifugal pump (Grundfos Redi-Flo2), placed at well-screen (or open borehole) depth with per-well dedicated tubing, was used for both purging and sample collection. Field parameters were measured using a Horiba U-22XD multi-parameter water quality monitoring system and flow-through cell. In addition, all collected samples were field-analyzed for iron+2 via a Hach 1R-18C Test Kit.

As a means to negate the potential for cross-well contamination, the Grundfos Redi-Flo2 was cleaned internally and externally with an Alconox and water solution, followed by a fresh water rinse, between monitoring locations. Furthermore, groundwater samples were collected in the following progression: 1) downgradient (with respect to groundwater flow) perimeter monitoring wells; 2) monitoring wells associated with historically non-detect groundwater analyses; and 3) monitoring wells associated with the historically most impacted groundwater analyses.

Collected samples were submitted under chain-of-custody control to New York State Certified TestAmerica Analytical Laboratories following the completion of each daily sampling event.

Table 1
Basic Hydrologic Data
Nepera Harriman Site, Harriman, NY
Measured October 25, 2010

Well Number	Measuring Point (feet above MSL)	Depth to Water (feet)	Water Level (feet above MSL)	Screen Interval (feet above and below MSL)
MW-1S	522.77	7.44	515.33	507.77-497.77
MW-2S	530.58	6.72	523.86	518.08-508.08
MW-3S	525.70	5.42	520.28	510.70-500.70
MW-4S	524.74	4.31	520.43	482.24-472.24
MW-5S	535.26	13.85	521.41	500.26-490.26
MW-7S	524.69	6.67	518.02	498.69-488.69
MW-8S	526.24	5.06	521.18	461.24-456.24
MW-9S	529.59	5.68	523.91	515.59-508.59
MW-11S	527.44	5.32	522.12	482.44-477.44
MW-12S	530.21	8.32	521.89	505.21-495.21
MW-13S	530.36	8.57	521.79	503.36-493.36
MW-16S	534.71	12.30	522.41	499.71-489.71
MW-20S	528.61	5.44	523.17	511.61-501.61
MW-21S	544.67	19.21	525.46	529.67-519.67
MW-24S	527.86	8.00	519.86	520.36-510.36
MW-25S	535.16	10.89	524.27	512.16-507.16
MW-27S	535.09	13.67	521.42	505.09-500.09
MW-33S	535.74	9.23	526.51	531.74-516.74
MW-35S	524.92	4.21	520.71	499.42-489.42
MW-36S	525.33	5.23	520.10	500.33-490.33
MW-37S	524.99	2.11	522.88	510.99-500.99
OW-6	534.51	9.76	524.75	514.51-504.51
OW-7	534.82	10.29	524.53	514.82-504.82
RW-1R	529.78	8.85	520.93	481.78-473.78
MW-53D	532.31	8.72	523.59	485.31-475.31
PZ-1	544.46	18.86	525.60	517.46-512.46
PZ-2	531.86	6.46	525.40	483.86-478.86
PZ-3	525.49	5.31	520.18	495.49-490.49
MW-101	525.94	6.19	519.75	28.00-33.00
MW-102	522.53	5.66	516.87	10.00-20.00
MW-103	533.52	10.94	522.58	50.00-60.00
MW-104	525.63	4.21	521.42	54.00-64.00
MW-105	528.22	6.74	521.48	63.50-68.50
MW-106	533.68	13.76	519.92	38.00-48.00

Note:

NA: Not Accessible

Observations

The concentration of volatile organic compounds within the head-space of on-site monitoring wells, field parameters measured during well-purging activities and the physical characteristics (e.g., color, odor) of sampled groundwater, are recorded on Groundwater Sampling Logs presented in Appendix 1.

Quality Assurance/Quality Control

Groundwater Level Measurements

Prior to beginning groundwater level measuring activities, the electronic water level indicator utilized was calibrated as shown in *Electronic Water Level Indicator Calibration Procedures* (see Appendix 2).

Groundwater Sampling

Prior to each of the three daily groundwater sampling events, the Horiba U-22XD multi-parameter water quality monitoring system utilized was calibrated, as shown in *Statement of Procedures for the Calibration of Multi-Parameter Water Quality Monitoring System, Horiba U-22XD* (see Appendix 3). In addition, a field blank (FB 10-26) was collected to assure the integrity of sampling equipment and procedures.

Groundwater Analysis

Laboratory analytical reports in relation to each of the three daily groundwater sampling events are presented Appendix 4. Included in the reports are Case Narratives (conformance/nonconformance summary) of QA/QC procedures practiced by TestAmerica Analytical Laboratories; which encompass instrument calibrations, analyses of method blanks, matrix spike blanks, and the percent-recovery of surrogates (system monitoring compounds).

Trip blanks (TB 10-25, TB 10-26 and TB 10-27), collected on a per-day basis, were analyzed for volatile organic compounds as a means to evaluate potential sources of contamination in sample container preparation, method blank water and sample transport. The accuracy of reported analytical results was also assessed via the analysis of a blind duplicate collected from monitoring well MW-106 (MW-DUP).

Summary of Analytical Results

QA/QC Samples

Volatile organic compounds were not detected in any of the aforementioned trip blanks or field blank FB 10-26. General chemistry parameters were also not detected in field blank EB 4-19. Furthermore, analytical results in relation to blind duplicate sample MW-DUP and groundwater sample MW-106 are similar. Subsequently, the results of groundwater analyses summarized below are considered valid.

Volatile Organic Compounds

Analytical results for volatile organic compounds - including comparisons with New York State Department of Environmental Conservation (NYSDEC) Class GA Drinking Water Standards - are presented on Table 2.

General Chemistry

Analytical results for general chemistry parameters - including comparisons with New York State Department of Environmental Conservation (NYSDEC) Class GA Drinking Water Standards - are presented on Table 3.

Conclusions

The results of groundwater monitoring activities summarized above remain similar with those of recent events. Groundwater beneath the central portion of the Former Nepera Plant remains impacted, however, the contaminants of concern (e.g., volatile organic compounds), continue to be confined to the former manufacturing areas and are either not detected, or detected below drinking water standards in groundwater sampled from perimeter wells.

The next semi-annual monitoring event is scheduled for April, 2011.

Table 2
Summary of Analytical Results
Former Nepera Plant, Harriman, NY
Sampled October 25-27, 2010
Volatile Organic Compounds
Reported in Micrograms per Liter (µg/L)

	Benzene	Toluene	Ethylbenzene	Xylenes, (Total)
<i>Overburden Aquifer Wells</i>				
MW-1S	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-5S	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-7S	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-8S	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-11S	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-12S	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-16S	52.00	ND(0.72)	ND(0.87)	ND(2.30)
MW-20S	320.00	100.00	ND(3.50)	ND(9.10)
MW-24S	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-25S	14.00	ND(0.72)	ND(0.87)	ND(2.30)
MW-33S	18.00	1.20 J	ND(0.87)	ND(2.30)
MW-35S	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-37S	3.10 J	ND(0.72)	ND(0.87)	ND(2.30)
OW-6	15,000.00	ND(140.00)	ND(170.00)	ND(450.00)
OW-7	2,800.00	ND(14.00)	ND(17.00)	ND(45.00)
RW-1R	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-53D	370.00	ND(2.90)	ND(3.50)	ND(9.10)
MW-101	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-102	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-103	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-104	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-105	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-106	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
<i>Bedrock Wells</i>				
MW-6D	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-20D	48.00	210.00	ND(1.70)	ND(4.50)
MW-23D	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-26D	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-27D	ND(0.74)	ND(0.72)	ND(0.87)	3.70 J
MW-20DR	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
<i>QA/QC</i>				
TB 10-25	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
TB 10-26	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
TB 10-27	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
FB 10-26	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
MW-DUP	ND(0.74)	ND(0.72)	ND(0.87)	ND(2.30)
NYSDEC Class GA Standard	1.0	5.0	5.0	5.0

Note:

ND(): Compound not detected at the method detection limit

J: Indicates an estimated value

NYSDEC Class GA Standards: New York State Department of Environmental Conservation

Ambient Water Quality Standards for Source of Drinking Water Title 6 Part 703 (per August 1999 Amendment)

Table 3
Summary of Analytical Results
Former Nepera Plant, Harriman, NY
Sampled October 25-27, 2010
General Chemistry

	Iron ($\mu\text{g/L}$)	Manganese ($\mu\text{g/L}$)	Sulfate (mg/L)	Nitrate (mg/L)	Ammonia (mg/L)	Mercury ($\mu\text{g/L}$)
<i>Overburden Aquifer Wells</i>						
MW-1S	12,300.00	979.00	20.50	ND(0.033)	19.90	NA
MW-8S	3,190.00	361.00	628.00	0.490	5.90	NA
MW-11S	2,620.00	557.00	13.40	ND(0.033)	10.40	NA
MW-16S	3,250.00	760.00	8.00	ND(0.033)	15.30	NA
MW-20S	2,040.00	1,010.00	ND(0.33)	ND(0.033)	57.30	NA
MW-24S	NA	NA	NA	NA	NA	0.40
MW-25S	15,400.00	1,950.00	8.20	ND(0.033)	1.70	NA
MW-33S	96,300.00	1,080.00	15.40	ND(0.033)	298.00	NA
MW-35S	6,830.00	8,250.00	1,200.00	ND(0.033)	5.80	NA
MW-37S	6,460.00	927.00	176.00	ND(0.033)	56.00	NA
OW-6	17,600.00	3,270.00	1.50	ND(0.033)	10.10	NA
OW-7	15,600.00	5,260.00	8.70	ND(0.033)	3.40	NA
RW-1R	19,200.00	906.00	35.90	ND(0.033)	7.00	NA
MW-53D	5,090.00	174.00	0.49 J	ND(0.033)	31.90	NA
MW-101	10,400.00	1,500.00	185.00	ND(0.033)	10.60	NA
MW-102	33,200.00	1,410.00	66.40	ND(0.033)	17.90	NA
MW-103	380.00	131.00	23.40	0.330	0.081 J	NA
MW-104	5,130.00	1,170.00	22.40	ND(0.033)	3.30	NA
MW-105	6,590.00	596.00	22.10	ND(0.033)	2.60	NA
MW-106	251.00	597.00	35.60	ND(0.033)	4.70	NA
<i>QA/QC</i>						
FB 10-26	ND(30.00)	ND(0.50)	ND(0.33)	ND(0.033)	ND(0.028)	NA
MW-DUP	366.00	629.00	35.60	ND(0.033)	5.10	NA
NYSDEC Class GA Standard	300.0	300.0	250.0	10.0	2.0	0.7

Note:

ND(): Compound not detected at the method detection limit

J: Indicates an estimated value

NYSDEC Class GA Standards: New York State Department of Environmental Conservation

Ambient Water Quality Standards for Source of Drinking Water Title 6 Part 703 (per August 1999 Amendment)

NS: No NYSDEC Standard Established

NA: Not Applicable

APPENDIX 1

Nepera
Harriman, New York

Meter Number: 511017

Notes:

WELL WATER INFORMATION

Length of Water Column (ft):	33.45
Volume of Water in Well (gal):	21.81
Total Volume Purged (ml):	7,500
Duration of Pumping (min):	30
Odor:	None
Color:	Clear
Fe+ ² (mg/L):	0.0

Purge Method: Low Flow

Pump Off: 11:50

[illegible]

Purge Water Disposition: On Ground

Nepera

Well ID:	MW-8S
Date:	10/26/10
Sampling Personnel:	AJS & DM
Weather:	Sunny - 70°F

Meter Number: 511017

Notes:

WELL WATER INFORMATION

Well Depth (ft):	68.60
Water Level Depth (ft):	5.06
Pumping Water Depth (ft):	5.21
Well Diameter (in):	4.00
Well Condition:	Good
PID Reading (ppm):	33.00

Length of Water Column (ft):	63.54
Volume of Water in Well (gal):	41.43
Total Volume Purged (ml):	7,200
Duration of Pumping (min):	24
Odor:	None
Color:	Clear
Fe+2 (mg/L):	1.5

Purge Method: Low Flow

Pump On: 9:40

Pump Off: 10:04

[illegible]

Purge Water Disposition: On Ground

Nepera
Harriman, New York

Meter Number: 511017

Notes:

WELL WATER INFORMATION

Length of Water Column (ft):	45.32
Volume of Water in Well (gal):	29.55
Total Volume Purged (L):	9,600
Duration of Pumping (min):	24
Odor:	None
Color:	Clear
Fe+ ² (mg/L):	1.2

Purge Method: Low Flow

Pump Off: 8:14

[illegible]

Purge Water Disposition: On Ground

Harriman, New York

Meter Number:	511017
Notes:	

WELL WATER INFORMATION

Length of Water Column (ft):	33.58
Volume of Water in Well (gal):	21.89
Total Volume Purged (ml):	12,000
Duration of Pumping (min):	25
Odor:	None
Color:	Clear
Fe+2 (mg/L):	3.0

Purge Method: Low Flow

Pump Off: 10:40

[illegible]

Purge Water Disposition: On Ground

Nepera
Harriman, New York

Meter Number: 511017

Notes:

WELL WATER INFORMATION

Length of Water Column (ft):	22.44
Volume of Water in Well (gal):	14.63
Total Volume Purged (ml):	7,500
Duration of Pumping (min):	25
Odor:	Pungent
Color:	Clear
Fe ⁺² (mg/L):	1.4

Purge Method: Low Flow

Pump Off: 9:10

[illegible]

Purge Water Disposition: On Ground

Nepera
Harriman, New York

Meter Number: 511017

Notes:

WELL WATER INFORMATION

Length of Water Column (ft):	95.19
Volume of Water in Well (gal):	62.06
Total Volume Purged (ml):	6,400
Duration of Pumping (min):	32
Odor:	None
Color:	Clear
Fe+2 (mg/L):	0.2

Purge Method: Low Flow

Pump Off: 15:20

[illegible]

Purge Water Disposition: On Ground

Nepera

Well ID:	MW-25S
Date:	10/27/10
Sampling Personnel:	AJS & DM
Weather:	Drizzle - 70°F

Notes:

WELL WATER INFORMATION

Length of Water Column (ft):	19.67
Volume of Water in Well (gal):	12.82
Total Volume Purged (ml):	9,200
Duration of Pumping (min):	23
Odor:	Pungent
Color:	Clear
Fe ⁺² (mg/L):	3.2

Purge Method: Low Flow

Pump Off: 11:34

[illegible]

Purge Water Disposition: On Ground

Harriman, New York

Meter Number: 511017

Notes:

WELL WATER INFORMATION

Length of Water Column (ft):	132.14
Volume of Water in Well (gal):	21.54
Total Volume Purged (ml):	10,500
Duration of Pumping (min):	35
Odor:	None
Color:	Clear
Fe ⁺² (mg/L):	0.0

Purge Method: Low Flow

Pump Off: 14:15

[illegible]

Purge Water Disposition: On Ground

Nepera
Harriman, New York

Meter Number: 511017

Notes:

WELL WATER INFORMATION

Length of Water Column (ft):	14.99
Volume of Water in Well (gal):	2.44
Total Volume Purged (ml):	8,750
Duration of Pumping (min):	35
Odor:	None
Color:	Light Grey
Fe+2 (mg/L):	3.0

Purge Method: Low Flow

Pump Off: 14:35

[illegible]

Purge Water Disposition: On Ground

Harriman, New York

Notes:

WELL WATER INFORMATION

Length of Water Column (ft):	19.67
Volume of Water in Well (gal):	3.21
Total Volume Purged (ml):	7,200
Duration of Pumping (min):	24
Odor:	Pungent
Color:	Clear
Fe ⁺² (mg/L):	3.8

EVACUATION INFORMATION

Pump Off: 11:09

[illegible]

Purge Water Disposition: On Ground

Nepera
Harriman, New York

Meter Number: 511017

Notes:

WELL WATER INFORMATION

Length of Water Column (ft):	29.30
Volume of Water in Well (gal):	4.78
Total Volume Purged (ml):	7,500
Duration of Pumping (min):	25
Odor:	Pungent
Color:	Clear
Fe ⁺² (mg/L):	4.2

Purge Method: Low Flow

Pump Off: 12:24

[illegible]

Purge Water Disposition: On Ground

Harriman, New York

Meter Number: 511017

Notes:

WELL WATER INFORMATION

Length of Water Column (ft):	20.47
Volume of Water in Well (gal):	3.34
Total Volume Purged (ml):	6,900
Duration of Pumping (min):	23
Odor:	None
Color:	Cloudy
Fe+ ² (mg/L):	1.8

Purge Method: Low Flow

Pump Ott: 11:58

[illegible]

Purge Water Disposition: On Ground

Nepera
Harriman, New York

Meter Number: 511017

Notes:

WELL WATER INFORMATION

Length of Water Column (ft):	47.35
Volume of Water in Well (gal):	69.46
Total Volume Purged (ml):	9,600
Duration of Pumping (min):	24
Odor:	None
Color:	Clear
Fe+ ² (mg/L):	0.0

Purge Method: ☒ Low Flow

Pump Off: 10:54

[illegible]

Purge Water Disposition: On Ground

Harriman, New York

Meter Number: 511017

Notes:

WELL WATER INFORMATION

Length of Water Column (ft):	45.91
Volume of Water in Well (gal):	29.93
Total Volume Purged (ml):	12,400
Duration of Pumping (min):	31
Odor:	None
Color:	Clear
Fe+ ² (mg/L):	5.0

Purge Method: Low Flow

Pump Off: 10:11

[illegible]

Purge Water Disposition: On Ground

Nepera
Harriman, New York

Meter Number:	511017
Notes:	

WELL WATER INFORMATION

Length of Water Column (ft):	26.71
Volume of Water in Well (gal):	4.35
Total Volume Purged (ml):	9,600
Duration of Pumping (min):	24
Odor:	None
Color:	Grey
Fe ⁺ 2 (mg/L):	3.2

Purge Method: Low-Flow

Pump Off: 11:14

[illegible]

Purge Water Disposition: On Ground

Harriman, New York

Meter Number: 511017

Notes:

WELL WATER INFORMATION

Length of Water Column (ft):	16.44
Volume of Water in Well (gal):	2.68
Total Volume Purged (ml):	8,700
Duration of Pumping (min):	29
Odor:	None
Color:	Light Brown
Fe ⁺ (mg/L):	2.2

Purge Method: Low-Flow

Pump Off: 12:20

[illegible]

Purge Water Disposition: On Ground

Nepera
Harriman, New York

Meter Number: 511017

Notes:

WELL WATER INFORMATION

Length of Water Column (ft):	49.46
Volume of Water in Well (gal):	8.06
Total Volume Purged (ml):	12,500
Duration of Pumping (min):	25
Odor:	None
Color:	Cloudy
Fe+2 (mg/L):	0.0

Purge Method: Low-Flow

Pump Off: 15:35

[illegible]

Purge Water Disposition: On Ground

Harriman, New York

Notes:

WELL WATER INFORMATION

Length of Water Column (ft):	63.91
Volume of Water in Well (gal):	10.42
Total Volume Purged (ml):	7,200
Duration of Pumping (min):	24
Odor:	Pungent
Color:	Clear
Fe ⁺² (mg/L):	

Purge Method: Low-Flow

Pump Ott: 9:39

[illegible]

Purge Water Disposition: On Ground

Harriman, New York

Notes:

WELL WATER INFORMATION

Length of Water Column (ft):	27.14
Volume of Water in Well (gal):	4.42
Total Volume Purged (ml):	12,000
Duration of Pumping (min):	30
Odor:	None
Color:	Clear
Fe+2 (mg/L):	0.8

EVACUATION INFORMATION

Pump Off: 14:58

[illegible]

Purge Water Disposition: On Ground

APPENDIX 2

Electronic Water Level Indicator Calibration Procedures

If using an electronic water level indicator, the device must be calibrated prior to each water level monitoring event and a calibration sticker with date of calibration attached. Electronic water level indicators with stretched electric lines (in whole or in part) spliced, or generally in poor condition shall not be used. A battery check must be performed before use.

1. Calibration is accomplished by comparing the marked intervals of the electronic sounding device with an engineer's tape marked in 0.01 foot intervals. The lower 30 feet of the electronic water level wire, which is most subject to stretching, is to be examined. If any five-foot interval of the wire is stretched more than 0.01 feet, the wire shall be replaced.
2. Calibration/inspection procedures must be documented in a calibration logbook or electronic spreadsheet file (in addition to the calibration date noted on a calibration sticker and affixed to the instrument).
3. When multiple water level devices are used to collect synoptic water levels, verification of instrument calibration and measurement techniques shall be checked by having each field technician measure the depth-to-water in a single designated well. All measurements must be within 0.05 feet of each other. If one or more measurements fall outside of this range, determine whether the discrepancy is due to instrumentation or measurement technique problems and make appropriate repairs, substitutions or corrections.

APPENDIX 3

R & C Formation, Ltd.

Statement of Procedures for the Calibration of Multi-Parameter Water Quality Monitoring System, Horiba U-22XD

Purpose and Scope

This Statement of Procedures (SOP) presents detailed methodology for the measurement of field parameters including *temperature, conductivity, pH, dissolved oxygen, ORP* and *turbidity*. The purpose of this SOP is to ensure the accurate measurement of these water quality parameters through routine checks and periodic calibration of the Horiba U-22XD by sampling personnel.

Responsibilities

It is the responsibility of assigned sampling personnel to calibrate monitoring equipment at the beginning of each month prior to use, or upon completion of all instrument repairs (Span Calibration). Sampling personnel will also perform a daily instrument check (Zero Calibration). Documentation of calibrations, performance checks, inspection/acceptance and maintenance is the responsibility of field personnel. Periodic (e.g., yearly) factory calibration certificates shall be available for review. Any parameters out of calibration are to be documented and all records generated shall be maintained.

Precautions

Handling of Sensor Probe

Do not shock sensor probe. Sensor will be damaged.

Do not remove protective cover from sensor probe.

Slowly lower sensor probe into sample.

Do not immerse sensor probe to a depth in excess of 300 feet. Excessive hydraulic pressure will cause damage.

Replacement of Batteries and Sensors

Do not replace sensor probe batteries or sensors in atmosphere of high temperature or humidity.

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The sensor probe's battery cover is kept waterproof by use of an O-ring. After confirming that there are no foreign bodies adhering to the O-ring, tighten to indicated position. Do not tighten with O-ring twisted or warped.

Handling of Cable

Do not store cable with connector excessively tensed or bent.

When storing, wipe area around connector dry and cover with rubber cap.

Handling of Control Unit

Do not shock control unit. The control unit will be damaged.

Do not expose control unit to ultraviolet rays for long periods. Ultraviolet rays can damage control unit's LCD display.

Do not use a hair dryer to dry control unit. If control unit becomes wet, dry with soft cloth.

Handling of DO Sensor

In the event of breakage of the DO sensor diaphragm, replace whole DO sensor and diaphragm.

Do not touch caustic internal solution.

When removing DO sensor from sensor probe, attach included short socket.

Handling of Cond/Turb Sensor Unit

When cleaning Cond/Turb sensor unit, use a cotton swab to avoid damage.

Handling pH Sensor

The pH sensor is made of very thin glass. Handle carefully to avoid breakage.

Handling during Transportation

Always store Horiba U-22XD in carrying case to prevent damage.

Calibration

The Horiba U-22XD includes an auto calibration mode (see Operations Manual). However, in order to achieve the highest instrument performance and measurement accuracy, manual calibration techniques described below are recommended. Note: In the event the instruments calibration readings do not come within 10% of standard values, a supervisor must be notified. The instrument is not to be used until repairs are made. Designate instrument with a “**DO NOT USE, OUT OF CALIBRATION**” sticker.

Manual pH Calibration

Zero Calibration

1. Wash sensor using distilled water; pour pH standard solution into calibration beaker; immerse sensor.
2. Press **CAL** key twice in the pH measurement mode. When the instrument enters the manual zero calibration mode, **MAN**, **ZERO** and **CAL** light up (measured temperature is displayed).
3. Use the **UP/DOWN** keys to input value of the pH 7 standard solution at the measured temperature (see reference data, page 100 of Operation Manual).
4. Press **ENT** key. The manual zero calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.

Span Calibration

1. Wash sensor using distilled water; pour pH 4 or pH 9 standard solution into calibration beaker; immerse sensor.
2. On the zero calibration of the pH sensor, press **CAL** key to ensure that the control unit is in the manual span calibration mode. **MAN**, **SPAN** and **CAL** light up.
3. Use the **UP/Down** keys to set the value for the pH 4 or pH 9 standard solution at the measured temperature (see reference data, page 100 of Operation Manual).
4. Press the **ENT** key. The manual span calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.
5. Press **MEAS** key to return to the measurement mode.

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Manual Conductivity Calibration

Zero Calibration

1. Wash sensor using distilled water. Completely remove the water on the sensor and calibrate the instrument in the atmosphere
2. Press **Cal** key twice in the conductivity measurement mode. When the instrument enters the manual zero calibration mode, **MAN**, **ZERO** and **CAL** light up.
3. Use the **UP/DOWN** key to set the value to 0.0.
4. Press the **ENT** key. The manual zero calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.

Span Calibration

1. Wash sensor using distilled water; pour standard solution into calibration beaker; immerse sensor.
2. On the zero calibration of the conductivity sensor, press the **CAL** key to ensure that the instrument is in the manual span calibration mode. **MAN**, **SPAN** and **CAL** light up.
3. Use the **UP/Down** keys to set the standard solution value. Note: The sensor automatically identifies the calibration solution and the relevant calibration range (0.90 S/m to 9.99 S/m, 0.090 S/m to 0.999 S/m, 0.0 mS/m to 99.9 mS/m) is displayed via 1, 2 or 3.
4. Press the **ENT** key. The manual span calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.
5. Press **MEAS** key to return to the measurement mode.

Manual Turbidity Calibration

Zero Calibration

1. Wash sensor using distilled water; pour distilled water into calibration beaker; immerse sensor.
2. Press **Cal** key twice in the turbidity measurement mode. When the instrument enters the manual zero calibration mode, **MAN**, **ZERO** and **CAL** light up.
3. Use the **UP/DOWN** key to set the value to 0.0.

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4. Press the **ENT** key. The manual span calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.

Span Calibration

1. Wash sensor using distilled water; pour 100 NTU (or other) solution into calibration beaker; immerse sensor.
2. On the zero calibration of the turbidity sensor, press the **CAL** key to ensure that the instrument is in the manual span calibration mode. **MAN**, **SPAN** and **CAL** light up.
3. Use the **UP/Down** keys to set the value to 100 NTU.
4. Press the **ENT** key. The manual span calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.
5. Press **MEAS** key to return to the measurement mode.

Manual Dissolved Oxygen Calibration

Zero Calibration

1. Wash sensor using distilled water; pour 0.0 oxygen solution into calibration beaker; immerse sensor.
2. Press **Cal** key twice in the dissolved oxygen measurement mode. When the instrument enters the manual zero calibration mode, **MAN**, **ZERO** and **CAL** light up.
3. After the display has stabilized, use the **UP/DOWN** keys to set the value to 0.0.
4. Press the **ENT** key. The manual span calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.
5. After zero calibration, clean sensor with tap water.

Span Calibration

1. Pour 1 – 2 liters of tap water into suitable flask. Using an air pump, feed air into the water and aerate solution.

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2. Wash sensor using distilled water and immerse DO sensor completely into span calibration liquid.
3. On the zero calibration of the DO sensor, press the **CAL** key to ensure that the instrument is in the manual span calibration mode. **MAN**, **SPAN** and **CAL** light up.
4. After the display has stabilized, use the **UP/DOWN** keys to set the amount of saturated dissolved oxygen in water at its water temperature (see reference data, page 56 of Operation Manual for DO value at corresponding temperature).
5. Press the **ENT** key. The manual span calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.
6. Press **MEAS** key to return to the measurement mode.

Manual Temperature Calibration

1. Press **CAL** key in the temperature measurement mode. Select the manual calibration mode.
2. Immerse sensor in water with known temperature (i.e., measured with Nation Institute of Technology approved thermometer).
3. Use the **UP/Down** keys to set the temperature value to that of NIT thermometer.
4. Press the **ENT** key. The manual span calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.
5. Press **MEAS** key to return to the measurement mode.

Manual ORP Calibration

1. Add 250 ml pure (ion exchange) water to one packet of standard solution.
2. Immerse wash and dried ORP electrode in the ORP standard solution and measure mV value
3. If electrode and meter are working correctly, numerical values within 15 mV or less of those listed in Table 1 of Operation Manual are obtained.
4. If measurements within 15 mV of Table 1 values are not obtained, reference electrode is faulty. Replace.

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Implementation and Training

Sampling personnel shall implement this procedure for the calibration and daily performance checks of field monitoring equipment. Staff responsible for implementing this procedure shall be thoroughly familiar with its contents and requirements. It shall be documented by each staff member that they have read and understand the procedure.

APPENDIX 4

ANALYTICAL REPORT

Job Number: 220-13753-1

Job Description: Nepera Maybrook Semi-Annual Sampling

For:

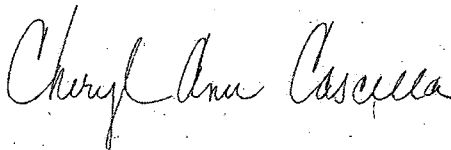
R & C Formation Ltd.

705 Bedford Ave.

Suite 2B

Bellmore, NY 11710

Attention: Mr. Robert Casson



Approved for release.
Cheryl Cascella
Data Review Analyst I
11/15/2010 2:42 PM

Designee for

Johanna Dubauskas

Project Manager I

johanna.dubauskas@testamericainc.com

11/15/2010

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

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Client Chain of Custody	29
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Job Narrative
220-13753-1

Comments

No additional comments.

Receipt

The following volatile sample was received with headspace in 1 of 3 sample vials and was not used for analysis: TB 10-25 (220-13753-9). The container ID is 220-13753-A-9.

The following field QC sample was received at the laboratory without a sample collection time documented on the chain of custody: TB 10-25 (220-13753-9). As a result, a sample collection time of 12:00am, on the date of collection, has been used.

The Chain-of-Custody (COC) was not properly filled out. The coc indicates mercury analysis required for the following samples. The client instructed the laboratory to cancel mercury analysis on October 28, 2010 for the following samples: MW-101 (220-13753-7), MW-102 (220-13753-8), MW-1S (220-13753-1), MW-35S (220-13753-6)

All other samples were received in good condition within temperature requirements.

GC/MS VOA

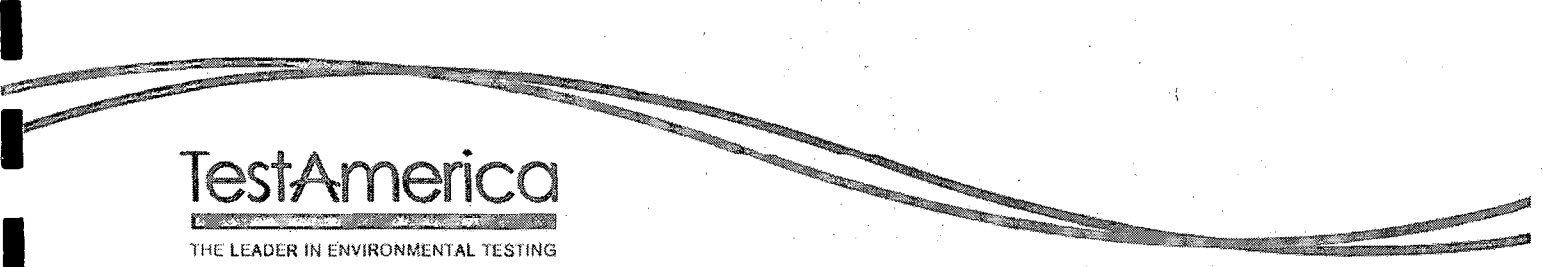
No analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.



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I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.



Scott R. Hall
Laboratory Director

November 15, 2010

Date

EXECUTIVE SUMMARY - Detections

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
220-13753-1	MW-1S				
Iron		12300	250	ug/L	6010B
Manganese		979	16.0	ug/L	6010B
Sulfate		20.5	1.0	mg/L	300.0
Ammonia		19.9	1.0	mg/L	350.1
Alkalinity		483	2.0	mg/L	SM 2320B
220-13753-5	MW-24S				
Mercury		0.40	0.20	ug/L	7470A
220-13753-6	MW-35S				
Iron		6830	250	ug/L	6010B
Manganese		8250	16.0	ug/L	6010B
Sulfate		1200	25.0	mg/L	300.0
Ammonia		5.8	0.50	mg/L	350.1
220-13753-7	MW-101				
Iron		10400	250	ug/L	6010B
Manganese		1500	16.0	ug/L	6010B
Sulfate		185	5.0	mg/L	300.0
Ammonia		10.6	0.50	mg/L	350.1
Alkalinity		383	2.0	mg/L	SM 2320B
220-13753-8	MW-102				
Iron		33200	250	ug/L	6010B
Manganese		1410	16.0	ug/L	6010B
Sulfate		66.4	1.0	mg/L	300.0
Ammonia		17.9	1.0	mg/L	350.1
Alkalinity		418	2.0	mg/L	SM 2320B

METHOD SUMMARY

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Volatile Organic Compounds (GC/MS)		TAL CT	SW846 8260B	
Purge and Trap		TAL CT		SW846 5030B
Metals (ICP)		TAL CT	SW846 6010B	
Preparation, Total Metals		TAL CT		SW846 3010A
Mercury (CVAA)		TAL CT	SW846 7470A	
Preparation, Mercury		TAL CT		SW846 7470A
Anions, Ion Chromatography		TAL CT	MCAWW 300.0	
Nitrate		TAL CT	MCAWW 300.0	
Nitrogen, Ammonia		TAL CT	MCAWW 350.1	
Distillation, Ammonia		TAL CT		Distill/Ammonia
Alkalinity		TAL CT	SM SM 2320B	

Lab References:

TAL CT = TestAmerica Connecticut

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Method	Analyst	Analyst ID
SW846 8260B	Kostrzewska, Barbara	BK
SW846 6010B	Petronchak, Nestor	NP
SW846 7470A	Voytek, Joseph F	JFV
MCAWW 300.0	Madumadu, Dave	DM
MCAWW 350.1	Natoli, Richard A	RN
SM SM 2320B	Keene, Angela H	AHK

SAMPLE SUMMARY

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-13753-1	MW-1S	Water	10/25/2010 1143	10/25/2010 2015
220-13753-2	MW-6D	Water	10/25/2010 1326	10/25/2010 2015
220-13753-3	MW-7S	Water	10/25/2010 1301	10/25/2010 2015
220-13753-4	MW-23D	Water	10/25/2010 1514	10/25/2010 2015
220-13753-5	MW-24S	Water	10/25/2010 1046	10/25/2010 2015
220-13753-6	MW-35S	Water	10/25/2010 1431	10/25/2010 2015
220-13753-7	MW-101	Water	10/25/2010 1111	10/25/2010 2015
220-13753-8	MW-102	Water	10/25/2010 1217	10/25/2010 2015
220-13753-9TB	TB 10-25	Water	10/25/2010 0000	10/25/2010 2015

SAMPLE RESULTS

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Client Sample ID: MW-1S

Lab Sample ID: 220-13753-1

Date Sampled: 10/25/2010 1143

Client Matrix: Water

Date Received: 10/25/2010 2015

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44521

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6447.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 10/29/2010 1816

Final Weight/Volume: 5 mL

Date Prepared: 10/29/2010 1816

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	104		63 - 127
1,2-Dichloroethane-d4 (Surr)	91		65 - 136
4-Bromofluorobenzene	106		51 - 142
Dibromofluoromethane	95		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Client Sample ID: MW-6D

Lab Sample ID: 220-13753-2

Client Matrix: Water

Date Sampled: 10/25/2010 1326

Date Received: 10/25/2010 2015

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44521

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6448.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 10/29/2010 1840

Final Weight/Volume: 5 mL

Date Prepared: 10/29/2010 1840

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		63 - 127
1,2-Dichloroethane-d4 (Surr)	87		65 - 136
4-Bromofluorobenzene	105		51 - 142
Dibromofluoromethane	92		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: - 220-13753-1

Client Sample ID: MW-7S

Lab Sample ID: 220-13753-3

Client Matrix: Water

Date Sampled: 10/25/2010 1301

Date Received: 10/25/2010 2015

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44521

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6449.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 10/29/2010 1904

Final Weight/Volume: 5 mL

Date Prepared: 10/29/2010 1904

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	104		63 - 127
1,2-Dichloroethane-d4 (Surr)	89		65 - 136
4-Bromofluorobenzene	104		51 - 142
Dibromofluoromethane	93		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Client Sample ID: MW-23D

Lab Sample ID: 220-13753-4

Client Matrix: Water

Date Sampled: 10/25/2010 1514

Date Received: 10/25/2010 2015

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44521

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6450.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 10/29/2010 1929

Final Weight/Volume: 5 mL

Date Prepared: 10/29/2010 1929

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	103		63 - 127
1,2-Dichloroethane-d4 (Surr)	84		65 - 136
4-Bromofluorobenzene	105		51 - 142
Dibromofluoromethane	91		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Client Sample ID: MW-24S

Lab Sample ID: 220-13753-5

Date Sampled: 10/25/2010 1046

Client Matrix: Water

Date Received: 10/25/2010 2015

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44521

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6451.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 10/29/2010 1953

Final Weight/Volume: 5 mL

Date Prepared: 10/29/2010 1953

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	95		63 - 127
1,2-Dichloroethane-d4 (Surr)	80		65 - 136
4-Bromofluorobenzene	96		51 - 142
Dibromofluoromethane	85		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Client Sample ID: MW-35S

Lab Sample ID: 220-13753-6

Client Matrix: Water

Date Sampled: 10/25/2010 1431

Date Received: 10/25/2010 2015

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44521

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6452.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 10/29/2010 2018

Final Weight/Volume: 5 mL

Date Prepared: 10/29/2010 2018

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	103		63 - 127
1,2-Dichloroethane-d4 (Surr)	86		65 - 136
4-Bromofluorobenzene	107		51 - 142
Dibromofluoromethane	90		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Client Sample ID: MW-101

Lab Sample ID: 220-13753-7

Client Matrix: Water

Date Sampled: 10/25/2010 1111

Date Received: 10/25/2010 2015

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44521

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6453.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 10/29/2010 2042

Final Weight/Volume: 5 mL

Date Prepared: 10/29/2010 2042

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	105		63 - 127
1,2-Dichloroethane-d4 (Surr)	89		65 - 136
4-Bromofluorobenzene	108		51 - 142
Dibromofluoromethane	93		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Client Sample ID: MW-102

Lab Sample ID: 220-13753-8

Client Matrix: Water

Date Sampled: 10/25/2010 1217

Date Received: 10/25/2010 2015

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44521

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6454.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 10/29/2010 2106

Final Weight/Volume: 5 mL

Date Prepared: 10/29/2010 2106

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		63 - 127
1,2-Dichloroethane-d4 (Surr)	83		65 - 136
4-Bromofluorobenzene	101		51 - 142
Dibromofluoromethane	88		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Client Sample ID: TB 10-25

Lab Sample ID: 220-13753-9TB

Date Sampled: 10/25/2010 0000

Client Matrix: Water

Date Received: 10/25/2010 2015

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44521

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6455.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 10/29/2010 2130

Final Weight/Volume: 5 mL

Date Prepared: 10/29/2010 2130

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	102		63 - 127
1,2-Dichloroethane-d4 (Surr)	86		65 - 136
4-Bromofluorobenzene	103		51 - 142
Dibromofluoromethane	91		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Client Sample ID: MW-1S

Lab Sample ID: 220-13753-1

Client Matrix: Water

Date Sampled: 10/25/2010 1143

Date Received: 10/25/2010 2015

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44983

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44856

Lab File ID: 111110d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/11/2010 1218

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1411

Analyte	Result (ug/L)	Qualifier	MDL	RL
iron	12300		30.0	250
Manganese	979		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Client Sample ID: MW-24S

Lab Sample ID: 220-13753-5

Client Matrix: Water

Date Sampled: 10/25/2010 1046

Date Received: 10/25/2010 2015

7470A Mercury (CVAA)

Method: 7470A

Analysis Batch: 220-44923

Instrument ID: MERC1

Preparation: 7470A

Prep Batch: 220-44896

Lab File ID: CV111010.TXT

Dilution: 1.0

Initial Weight/Volume: 25 mL

Date Analyzed: 11/10/2010 1436

Final Weight/Volume: 50 mL

Date Prepared: 11/10/2010 1016

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.40		0.060	0.20

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Client Sample ID: MW-35S

Lab Sample ID: 220-13753-6

Client Matrix: Water

Date Sampled: 10/25/2010 1431

Date Received: 10/25/2010 2015

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44983

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44856

Lab File ID: 111110d.pm

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/11/2010 1237

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1411

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	6830		30.0	250
Manganese	8250		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Client Sample ID: MW-101

Lab Sample ID: 220-13753-7

Date Sampled: 10/25/2010 1111

Client Matrix: Water

Date Received: 10/25/2010 2015

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44983

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44856

Lab File ID: 111110d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/11/2010 1241

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1411

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	10400		30.0	250
Manganese	1500		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Client Sample ID: MW-102

Lab Sample ID: 220-13753-8

Date Sampled: 10/25/2010 1217

Client Matrix: Water

Date Received: 10/25/2010 2015

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44983

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44856

Lab File ID: 111110d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/11/2010 1244

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1411

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	33200		30.0	250
Manganese	1410		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

General Chemistry

Client Sample ID: MW-1S

Lab Sample ID: 220-13753-1

Date Sampled: 10/25/2010 1143

Client Matrix: Water

Date Received: 10/25/2010 2015

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44606		Date Analyzed: 10/26/2010 1328				
Sulfate	20.5		mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44605		Date Analyzed: 10/26/2010 1328				
Ammonia	19.9		mg/L	0.28	1.0	10	350.1
	Analysis Batch: 220-44396		Date Analyzed: 10/28/2010 1448				
	Prep Batch: 220-44340		Date Prepared: 10/27/2010 1440				
Alkalinity	483		mg/L	0.16	2.0	1.0	SM 2320B
	Analysis Batch: 220-44451		Date Analyzed: 10/29/2010 1842				

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

General Chemistry

Client Sample ID: MW-35S

Lab Sample ID: 220-13753-6

Date Sampled: 10/25/2010 1431

Client Matrix: Water

Date Received: 10/25/2010 2015

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44606	Date Analyzed: 10/26/2010 1341					
Sulfate	1200		mg/L	8.3	25.0	25	300.0
	Analysis Batch: 220-44605	Date Analyzed: 10/26/2010 1610					
Ammonia	5.8		mg/L	0.14	0.50	5.0	350.1
	Analysis Batch: 220-44396	Date Analyzed: 10/28/2010 1358					
	Prep Batch: 220-44340	Date Prepared: 10/27/2010 1440					

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

General Chemistry

Client Sample ID: MW-101

Lab Sample ID: 220-13753-7

Client Matrix: Water

Date Sampled: 10/25/2010 1111

Date Received: 10/25/2010 2015

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44606	Date Analyzed: 10/26/2010 1422					
Sulfate	185		mg/L	1.7	5.0	5.0	300.0
	Analysis Batch: 220-44605	Date Analyzed: 10/26/2010 1557					
Ammonia	10.6		mg/L	0.14	0.50	5.0	350.1
	Analysis Batch: 220-44396	Date Analyzed: 10/28/2010 1358					
	Prep Batch: 220-44340	Date Prepared: 10/27/2010 1440					
Alkalinity	383		mg/L	0.16	2.0	1.0	SM 2320B
	Analysis Batch: 220-44451	Date Analyzed: 10/29/2010 1900					

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13753-1

General Chemistry

Client Sample ID: MW-102

Lab Sample ID: 220-13753-8

Client Matrix: Water

Date Sampled: 10/25/2010 1217

Date Received: 10/25/2010 2015

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44606		Date Analyzed: 10/26/2010 1435				
Sulfate	66.4		mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44605		Date Analyzed: 10/26/2010 1435				
Ammonia	17.9		mg/L	0.28	1.0	10	350.1
	Analysis Batch: 220-44396		Date Analyzed: 10/28/2010 1358				
	Prep Batch: 220-44340		Date Prepared: 10/27/2010 1440				
Alkalinity	418		mg/L	0.16	2.0	1.0	SM 2320B
	Analysis Batch: 220-44451		Date Analyzed: 10/29/2010 1908				

DATA REPORTING QUALIFIERS

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.
Metals	U	Indicates analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
General Chemistry	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL

PC 1347

TestAmerica Connecticut

128 Long Hill Cross Road

Shelton, CT 06484

Phone (203) 929-8140 Fax (203) 929-8142

PASSED RAD SCREEN Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Bob Carson	Field Sampler: AJ Scheff	TAT Required (business days):	Lab PM/Contact:	COC Number: 16153
Company: R+C Formation LTD	Mobile/Field Number: 516 680 9529		Lab Job Number (Lab Use Only): 13753	Page 1 of 1
Address: 705 Bedford Ave Suite 20	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): ☒ Yes ☐ No	Carrier Tracking Notes:
City, State, Zip: Bellmore NY 11710	PO #:	Sample Disposal: ☐ Return to Client ☒ Disposal by Lab ☐ Archive for Months (A fee may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only): 4.90C gun1	
Phone: 516 797-7330	WO #:	State Regulatory QC Criteria Requirements:	Analysis (Attach list if more space is needed)	
Email:	Project #:			
Project Name/Site Location (State): Nepera, Harriman NY	SSOW#:			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions						No. of Containers/Preservatives								BTEX Gen Chem Mercury		Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Relinquished by: 	Date/Time: 10/25/10 1705	Company: R+C	Received by: Richard Z Ford	Date/Time: 10/25/10 1705	Company: TRCT
Relinquished by: Richard Z Ford	Date/Time: 10/25/10 2015	Company: TRCT	Received by: WALK-IN	Date/Time: 10/25/10 2015	Company: TRCT
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Comments: ***= Sulfate, Ammonia, Nitrate, Manganese, Iron**

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

Login Sample Receipt Check List

Client: R & C Formation Ltd.

Job Number: 220-13753-1

Login Number: 13753

List Source: TestAmerica Connecticut

Creator: Ford, Richard

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.9c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	False	#9, 1 vial has headspace.
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 220-13771-1

Job Description: Nepera Maybrook Semi-Annual Sampling

For:

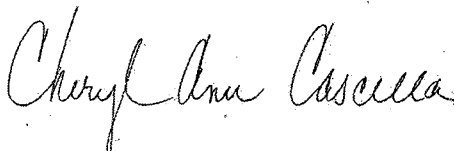
R & C Formation Ltd.

705 Bedford Ave.

Suite 2B

Bellmore, NY 11710

Attention: Mr. Robert Casson



Approved for release.
Cheryl Cascella
Data Review Analyst I
11/15/2010 2:43 PM

Designee for

Johanna Dubauskas

Project Manager I

johanna.dubauskas@testamericainc.com

11/15/2010

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

TestAmerica Laboratories, Inc.

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Job Narrative
220-13771-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.



Scott R. Hall
Laboratory Director

November 15, 2010

Date

EXECUTIVE SUMMARY - Detections

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
220-13771-1	MW-DUP				
Iron		366	250	ug/L	6010B
Manganese		629	16.0	ug/L	6010B
Sulfate		35.6	1.0	mg/L	300.0
Ammonia		5.1	0.50	mg/L	350.1
220-13771-4	RW-1R				
Iron		19200	250	ug/L	6010B
Manganese		906	16.0	ug/L	6010B
Sulfate		35.9	1.0	mg/L	300.0
Ammonia		7.0	0.50	mg/L	350.1
220-13771-6	MW-8S				
Iron		3190	250	ug/L	6010B
Manganese		361	16.0	ug/L	6010B
Sulfate		628	10.0	mg/L	300.0
Nitrate as N		0.49	0.10	mg/L	300.0
Ammonia		5.9	0.50	mg/L	350.1
220-13771-7	MW-11S				
Iron		2620	250	ug/L	6010B
Manganese		557	16.0	ug/L	6010B
Sulfate		13.4	1.0	mg/L	300.0
Ammonia		10.4	0.50	mg/L	350.1
220-13771-9	MW-20S				
Benzene		320	20	ug/L	8260B
Toluene		100	20	ug/L	8260B
Iron		2040	1250	ug/L	6010B
Manganese		1010	80.0	ug/L	6010B
Ammonia		57.3	5.0	mg/L	350.1
220-13771-11	MW-27D				
Xylenes, Total		3.7 J	5.0	ug/L	8260B

EXECUTIVE SUMMARY - Detections

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
220-13771-12	MW-33S				
Benzene		18	5.0	ug/L	8260B
Toluene		1.2 J	5.0	ug/L	8260B
Iron		96300	1250	ug/L	6010B
Manganese		1080	80.0	ug/L	6010B
Sulfate		15.4	1.0	mg/L	300.0
Ammonia		298	10.0	mg/L	350.1
220-13771-13	MW-103				
Iron		380	250	ug/L	6010B
Manganese		131	16.0	ug/L	6010B
Sulfate		23.4	1.0	mg/L	300.0
Nitrate as N		0.33	0.10	mg/L	300.0
Ammonia		0.081 J	0.10	mg/L	350.1
220-13771-14	MW-104				
Iron		5130	250	ug/L	6010B
Manganese		1170	16.0	ug/L	6010B
Sulfate		22.4	1.0	mg/L	300.0
Ammonia		3.3	0.10	mg/L	350.1
220-13771-15	MW-105				
Iron		6590	250	ug/L	6010B
Manganese		596	16.0	ug/L	6010B
Sulfate		22.1	1.0	mg/L	300.0
Ammonia		2.6	0.10	mg/L	350.1
220-13771-16	MW-106				
Iron		251	250	ug/L	6010B
Manganese		597	16.0	ug/L	6010B
Sulfate		35.6	1.0	mg/L	300.0
Ammonia		4.7	0.50	mg/L	350.1

METHOD SUMMARY

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Description	Lab Location	Method	-Preparation Method
Matrix Water			
Volatile Organic Compounds (GC/MS)	TAL CT	SW846 8260B	
Purge and Trap	TAL CT		SW846 5030B
Metals (ICP)	TAL CT	SW846 6010B	
Preparation, Total Metals	TAL CT		SW846 3010A
Nitrate	TAL CT	MCAWW 300.0	
Anions, Ion Chromatography	TAL CT	MCAWW 300.0	
Nitrogen, Ammonia	TAL CT	MCAWW 350.1	
Distillation, Ammonia	TAL CT		Distill/Ammonia

Lab References:

TAL CT = TestAmerica Connecticut

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Method	Analyst	Analyst ID
SW846 8260B	Humbert, Dave	DH
SW846 8260B	Kostrzewska, Barbara	BK
SW846 6010B	Petronchak, Nestor	NP
MCAWW 300.0	Madumadu, Dave	DM
MCAWW 350.1	Natoli, Richard A	RN

SAMPLE SUMMARY

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-13771-1	MW-DUP	Water	10/26/2010 0000	10/26/2010 1820
220-13771-2TB	TB 10-26	Water	10/26/2010 0000	10/26/2010 1820
220-13771-3	FB 10-26	Water	10/26/2010 1515	10/26/2010 1820
220-13771-4	RW-1R	Water	10/26/2010 1051	10/26/2010 1820
220-13771-5	MW-5S	Water	10/26/2010 1146	10/26/2010 1820
220-13771-6	MW-8S	Water	10/26/2010 1001	10/26/2010 1820
220-13771-7	MW-11S	Water	10/26/2010 0811	10/26/2010 1820
220-13771-8	MW-20DR	Water	10/26/2010 0842	10/26/2010 1820
220-13771-9	MW-20S	Water	10/26/2010 0906	10/26/2010 1820
220-13771-10	MW-26D	Water	10/26/2010 1411	10/26/2010 1820
220-13771-11	MW-27D	Water	10/26/2010 1216	10/26/2010 1820
220-13771-12	MW-33S	Water	10/26/2010 1600	10/26/2010 1820
220-13771-13	MW-103	Water	10/26/2010 1531	10/26/2010 1820
220-13771-14	MW-104	Water	10/26/2010 1027	10/26/2010 1820
220-13771-15	MW-105	Water	10/26/2010 0936	10/26/2010 1820
220-13771-16	MW-106	Water	10/26/2010 1454	10/26/2010 1820

SAMPLE RESULTS

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-DUP

Lab Sample ID: 220-13771-1

Client Matrix: Water

Date Sampled: 10/26/2010 0000

Date Received: 10/26/2010 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44563

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6482.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 1529

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 1529

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		63 - 127
1,2-Dichloroethane-d4 (Surr)	87		65 - 136
4-Bromofluorobenzene	105		51 - 142
Dibromofluoromethane	92		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: TB 10-26

Lab Sample ID: 220-13771-2TB

Client Matrix: Water

Date Sampled: 10/26/2010 0000

Date Received: 10/26/2010 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44563

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6483.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 1553

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 1553

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	97		63 - 127
1,2-Dichloroethane-d4 (Surr)	83		65 - 136
4-Bromofluorobenzene	103		51 - 142
Dibromofluoromethane	88		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: FB 10-26

Lab Sample ID: 220-13771-3

Client Matrix: Water

Date Sampled: 10/26/2010 1515

Date Received: 10/26/2010 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44563

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6484.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 1617

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 1617

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	100		63 - 127
1,2-Dichloroethane-d4 (Surr)	86		65 - 136
4-Bromofluorobenzene	104		51 - 142
Dibromofluoromethane	91		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: RW-1R

Lab Sample ID: 220-13771-4

Client Matrix: Water

Date Sampled: 10/26/2010 1051

Date Received: 10/26/2010 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44563

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6496.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 2108

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 2108

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	103		63 - 127
1,2-Dichloroethane-d4 (Surr)	86		65 - 136
4-Bromofluorobenzene	108		51 - 142
Dibromofluoromethane	92		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-5S

Lab Sample ID: 220-13771-5

Date Sampled: 10/26/2010 1146

Client Matrix: Water

Date Received: 10/26/2010 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44563

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6485.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 1641

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 1641

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	100		63 - 127
1,2-Dichloroethane-d4 (Surr)	85		65 - 136
4-Bromofluorobenzene	100		51 - 142
Dibromofluoromethane	89		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-8S

Lab Sample ID: 220-13771-6

Client Matrix: Water

Date Sampled: 10/26/2010 1001

Date Received: 10/26/2010 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44563

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6486.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 1706

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 1706

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		63 - 127
1,2-Dichloroethane-d4 (Surr)	86		65 - 136
4-Bromofluorobenzene	105		51 - 142
Dibromofluoromethane	92		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-11S

Lab Sample ID: 220-13771-7

Date Sampled: 10/26/2010 0811

Client Matrix: Water

Date Received: 10/26/2010 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44563

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6487.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 1730

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 1730

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	99		63 - 127
1,2-Dichloroethane-d4 (Surr)	86		65 - 136
4-Bromofluorobenzene	101		51 - 142
Dibromofluoromethane	89		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-20DR

Lab Sample ID: 220-13771-8

Client Matrix: Water

Date Sampled: 10/26/2010 0842

Date Received: 10/26/2010 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44563

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6488.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 1754

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 1754

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	103		63 - 127
1,2-Dichloroethane-d4 (Surr)	88		65 - 136
4-Bromofluorobenzene	104		51 - 142
Dibromofluoromethane	94		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-20S

Lab Sample ID: 220-13771-9

Date Sampled: 10/26/2010 0906

Client Matrix: Water

Date Received: 10/26/2010 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44721

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6515.D

Dilution: 4.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/03/2010 1241

Final Weight/Volume: 5 mL

Date Prepared: 11/03/2010 1241

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	320		3.0	20
Toluene	100		2.9	20
Ethylbenzene	20	U	3.5	20
Xylenes, Total	20	U	9.1	20

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	99		63 - 127
1,2-Dichloroethane-d4 (Surr)	85		65 - 136
4-Bromofluorobenzene	104		51 - 142
Dibromofluoromethane	90		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-26D

Lab Sample ID: 220-13771-10

Client Matrix: Water

Date Sampled: 10/26/2010 1411

Date Received: 10/26/2010 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44563

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6489.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 1819

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 1819

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	99		63 - 127
1,2-Dichloroethane-d4 (Surr)	83		65 - 136
4-Bromofluorobenzene	106		51 - 142
Dibromofluoromethane	87		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-27D

Lab Sample ID: 220-13771-11

Date Sampled: 10/26/2010 1216

Client Matrix: Water

Date Received: 10/26/2010 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44563

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6490.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 1843

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 1843

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	3.7	J	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	97		63 - 127
1,2-Dichloroethane-d4 (Surr)	82		65 - 136
4-Bromofluorobenzene	101		51 - 142
Dibromofluoromethane	88		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-33S

Lab Sample ID: 220-13771-12

Client Matrix: Water

Date Sampled: 10/26/2010 1600

Date Received: 10/26/2010 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44563

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6497.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 2133

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 2133

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	18		0.74	5.0
Toluene	1.2	J	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U ¹	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		63 - 127
1,2-Dichloroethane-d4 (Surr)	85		65 - 136
4-Bromofluorobenzene	107		51 - 142
Dibromofluoromethane	85		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-103

Lab Sample ID: 220-13771-13

Date Sampled: 10/26/2010 1531

Client Matrix: Water

Date Received: 10/26/2010 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44563

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6491.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 1907

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 1907

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	98		63 - 127
1,2-Dichloroethane-d4 (Surr)	86		65 - 136
4-Bromofluorobenzene	105		51 - 142
Dibromofluoromethane	89		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-104

Lab Sample ID: 220-13771-14

Client Matrix: Water

Date Sampled: 10/26/2010 1027

Date Received: 10/26/2010 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44563

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6492.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 1932

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 1932

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	100		63 - 127
1,2-Dichloroethane-d4 (Surr)	85		65 - 136
4-Bromofluorobenzene	104		51 - 142
Dibromofluoromethane	89		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-105

Lab Sample ID: 220-13771-15

Date Sampled: 10/26/2010 0936

Client Matrix: Water

Date Received: 10/26/2010 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44563

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6493.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 1956

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 1956

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	99		63 - 127
1,2-Dichloroethane-d4 (Surr)	84		65 - 136
4-Bromofluorobenzene	103		51 - 142
Dibromofluoromethane	87		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-106

Lab Sample ID: 220-13771-16

Client Matrix: Water

Date Sampled: 10/26/2010 1454

Date Received: 10/26/2010 1820

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44563

Instrument ID: MSL /

Preparation: 5030B

Lab File ID: L6494.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 2020

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 2020

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	100		63 - 127
1,2-Dichloroethane-d4 (Surr)	86		65 - 136
4-Bromofluorobenzene	103		51 - 142
Dibromofluoromethane	91		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-DUP

Lab Sample ID: 220-13771-1

Client Matrix: Water

Date Sampled: 10/26/2010 0000

Date Received: 10/26/2010 1820

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44983

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44856

Lab File ID: 111110d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/11/2010 1247

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1411

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	366		30.0	250
Manganese	629		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: FB 10-26

Lab Sample ID: 220-13771-3

Client Matrix: Water

Date Sampled: 10/26/2010 1515

Date Received: 10/26/2010 1820

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44983

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44856

Lab File ID: 111110d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/11/2010 1250

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1411

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	250	U	30.0	250
Manganese	16.0	U	0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: RW-1R

Lab Sample ID: 220-13771-4

Client Matrix: Water

Date Sampled: 10/26/2010 1051

Date Received: 10/26/2010 1820

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44983

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44856

Lab File ID: 111110d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/11/2010 1254

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1411

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	19200		30.0	250
Manganese	906		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-8S

Lab Sample ID: 220-13771-6

Client Matrix: Water

Date Sampled: 10/26/2010 1001

Date Received: 10/26/2010 1820

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44983

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44856

Lab File ID: 111110d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/11/2010 1257

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1411

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	3190		30.0	250
Manganese	361		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-11S

Lab Sample ID: 220-13771-7

Client Matrix: Water

Date Sampled: 10/26/2010 0811

Date Received: 10/26/2010 1820

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44983

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44856

Lab File ID: 111110d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/11/2010 1300

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1411

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	2620		30.0	250
Manganese	557		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-20S

Lab Sample ID: 220-13771-9

Date Sampled: 10/26/2010 0906

Client Matrix: Water

Date Received: 10/26/2010 1820

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44983

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44856

Lab File ID: 111110d.prn

Dilution: 5.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/11/2010 1303

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1411

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	2040		150	1250
Manganese	1010		2.5	80.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-33S

Lab Sample ID: 220-13771-12

Date Sampled: 10/26/2010 1600

Client Matrix: Water

Date Received: 10/26/2010 1820

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44983

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44856

Lab File ID: 111110d.pn

Dilution: 5.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/11/2010 1313

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1411

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	96300		150	1250
Manganese	1080		2.5	80.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-103

Lab Sample ID: 220-13771-13

Date Sampled: 10/26/2010 1531

Client Matrix: Water

Date Received: 10/26/2010 1820

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44983

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44856

Lab File ID: 111110d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/11/2010 1316

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1411

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	380		30.0	250
Manganese	131		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-104

Lab Sample ID: 220-13771-14

Client Matrix: Water

Date Sampled: 10/26/2010 1027

Date Received: 10/26/2010 1820

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44983

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44856

Lab File ID: 111110d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/11/2010 1319

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1411

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	5130		30.0	250
Manganese	1170		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-105

Lab Sample ID: 220-13771-15

Client Matrix: Water

Date Sampled: 10/26/2010 0936

Date Received: 10/26/2010 1820

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44983

Instrument ID:

ICAP3

Preparation: 3010A

Prep Batch: 220-44856

Lab File ID:

111110d.prn

Dilution: 1.0

Initial Weight/Volume:

50 mL

Date Analyzed: 11/11/2010 1322

Final Weight/Volume:

50 mL

Date Prepared: 11/09/2010 1411

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	6590		30.0	250
Manganese	596		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Client Sample ID: MW-106

Lab Sample ID: 220-13771-16

Client Matrix: Water

Date Sampled: 10/26/2010 1454

Date Received: 10/26/2010 1820

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44983

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44856

Lab File ID: 111110d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/11/2010 1325

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1411

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	251		30.0	250
Manganese	597		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

General Chemistry

Client Sample ID: MW-DUP

Lab Sample ID: 220-13771-1

Client Matrix: Water

Date Sampled: 10/26/2010 0000

Date Received: 10/26/2010 1820

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44606	Date Analyzed: 10/26/2010 2227					
Sulfate	35.6		mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44605	Date Analyzed: 10/26/2010 2227					
Ammonia	5.1		mg/L	0.14	0.50	5.0	350.1
	Analysis Batch: 220-44396	Date Analyzed: 10/28/2010 1358					
	Prep Batch: 220-44340	Date Prepared: 10/27/2010 1440					

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

General Chemistry

Client Sample ID: FB 10-26

Lab Sample ID: 220-13771-3

Client Matrix: Water

Date Sampled: 10/26/2010 1515

Date Received: 10/26/2010 1820

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44606	Date Analyzed: 10/26/2010 2241					
Sulfate	1.0	U	mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44605	Date Analyzed: 10/26/2010 2241					
Ammonia	0.10	U	mg/L	0.028	0.10	1.0	350.1
	Analysis Batch: 220-44396	Date Analyzed: 10/28/2010 1231					
	Prep Batch: 220-44340	Date Prepared: 10/27/2010 1440					

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

General Chemistry

Client Sample ID: RW-1R

Lab Sample ID: 220-13771-4

Date Sampled: 10/26/2010 1051

Client Matrix: Water

Date Received: 10/26/2010 1820

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44606		Date Analyzed: 10/26/2010 2254				
Sulfate	35.9		mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44605		Date Analyzed: 10/26/2010 2254				
Ammonia	7.0		mg/L	0.14	0.50	5.0	350.1
	Analysis Batch: 220-44396		Date Analyzed: 10/28/2010 1358				
	Prep Batch: 220-44340		Date Prepared: 10/27/2010 1440				

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

General Chemistry

Client Sample ID: MW-8S

Lab Sample ID: 220-13771-6

Date Sampled: 10/26/2010 1001

Client Matrix: Water

Date Received: 10/26/2010 1820

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.49		mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44621	Date Analyzed: 10/26/2010 2308					
Sulfate	628		mg/L	3.3	10.0	10	300.0
	Analysis Batch: 220-44620	Date Analyzed: 10/27/2010 2229					
Ammonia	5.9		mg/L	0.14	0.50	5.0	350.1
	Analysis Batch: 220-44396	Date Analyzed: 10/28/2010 1358					
	Prep Batch: 220-44340	Date Prepared: 10/27/2010 1440					

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

General Chemistry

Client Sample ID: MW-11S

Lab Sample ID: 220-13771-7

Date Sampled: 10/26/2010 0811

Client Matrix: Water

Date Received: 10/26/2010 1820

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44621	Date Analyzed: 10/26/2010 2349					
Sulfate	13.4		mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44620	Date Analyzed: 10/26/2010 2349					
Ammonia	10.4		mg/L	0.14	0.50	5.0	350.1
	Analysis Batch: 220-44396	Date Analyzed: 10/28/2010 1407					
	Prep Batch: 220-44340	Date Prepared: 10/27/2010 1440					

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

General Chemistry

Client Sample ID: MW-20S

Lab Sample ID: 220-13771-9

Client Matrix: Water

Date Sampled: 10/26/2010 0906

Date Received: 10/26/2010 1820

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44621	Date Analyzed: 10/27/2010 0002					
Sulfate	1.0	U	mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44620	Date Analyzed: 10/27/2010 0002					
Ammonia	57.3		mg/L	1.4	5.0	50	350.1
	Analysis Batch: 220-44396	Date Analyzed: 10/28/2010 1407					
	Prep Batch: 220-44340	Date Prepared: 10/27/2010 1440					

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

General Chemistry

Client Sample ID: MW-33S

Lab Sample ID: 220-13771-12

Date Sampled: 10/26/2010 1600

Client Matrix: Water

Date Received: 10/26/2010 1820

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44621	Date Analyzed: 10/27/2010 0043					
Sulfate	15.4		mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44620	Date Analyzed: 10/27/2010 0043					
Ammonia	298		mg/L	2.8	10.0	100	350.1
	Analysis Batch: 220-44396	Date Analyzed: 10/28/2010 1448					
	Prep Batch: 220-44340	Date Prepared: 10/27/2010 1440					

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

General Chemistry

Client Sample ID: MW-103

Lab Sample ID: 220-13771-13

Date Sampled: 10/26/2010 1531

Client Matrix: Water

Date Received: 10/26/2010 1820

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.33		mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44621	Date Analyzed: 10/27/2010 0056					
Sulfate	23.4		mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44620	Date Analyzed: 10/27/2010 0056					
Ammonia	0.081	J	mg/L	0.028	0.10	1.0	350.1
	Analysis Batch: 220-44396	Date Analyzed: 10/28/2010 1407					
	Prep Batch: 220-44340	Date Prepared: 10/27/2010 1440					

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

General Chemistry

Client Sample ID: MW-104

Lab Sample ID: 220-13771-14

Client Matrix: Water

Date Sampled: 10/26/2010 1027

Date Received: 10/26/2010 1820

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44621	Date Analyzed: 10/27/2010 0137					
Sulfate	22.4		mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44620	Date Analyzed: 10/27/2010 0137					
Ammonia	3.3		mg/L	0.028	0.10	1.0	350.1
	Analysis Batch: 220-44396	Date Analyzed: 10/28/2010 1241					
	Prep Batch: 220-44340	Date Prepared: 10/27/2010 1440					

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

General Chemistry

Client Sample ID: MW-105

Lab Sample ID: 220-13771-15

Date Sampled: 10/26/2010 0936

Client Matrix: Water

Date Received: 10/26/2010 1820

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44621	Date Analyzed: 10/27/2010 0151					
Sulfate	22.1		mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44620	Date Analyzed: 10/27/2010 0151					
Ammonia	2.6		mg/L	0.028	0.10	1.0	350.1
	Analysis Batch: 220-44396	Date Analyzed: 10/28/2010 1241					
	Prep Batch: 220-44340	Date Prepared: 10/27/2010 1440					

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13771-1

General Chemistry

Client Sample ID: MW-106

Lab Sample ID: 220-13771-16

Date Sampled: 10/26/2010 1454

Client Matrix: Water

Date Received: 10/26/2010 1820

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44621	Date Analyzed: 10/27/2010 0204					
Sulfate	35.6		mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44620	Date Analyzed: 10/27/2010 0204					
Ammonia	4.7		mg/L	0.14	0.50	5.0	350.1
	Analysis Batch: 220-44396	Date Analyzed: 10/28/2010 1407					
	Prep Batch: 220-44340	Date Prepared: 10/27/2010 1440					

DATA REPORTING QUALIFIERS

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.
	J	Indicates an estimated value.
Metals	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL
General Chemistry	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL

128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Bob Casson	Field Sampler: AS Scott	TAT Required (business days):	Lab PM/Contact:	COC Number: 16409
Company: Rtc Formation LTD	Mobile/Field Number: 516 680 9529		Lab Job Number (Lab Use Only): 13771	Page 1 of 2
Address: 705 Bedford Ave Suite 2B	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): ☒ Yes ☐ No	Carrier Tracking Notes:
City, State, Zip: Baltimore MD 11710	PO #:	Sample Disposal: ☒ Return to Client ☐ Disposal by Lab	Cooler Temperatures (Lab Use Only):	
Phone: 516 797-7330	WO #:	☐ Archive for ___ Months (A fee may be assessed if samples are retained for longer than 1 month)		
Email:	Project #:		Analysis (Attach list if more space is needed)	
Project Name/Site Location (State): NEpera, Harriman NY	SSOW#:	State Regulatory QC Criteria Requirements:	* m	

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

No. of Containers/Preservatives

[illegible]

Relinquished by: 	Date/Time: 10/26/10 1615	Company K&C Form	Received by: 	Date/Time: 10/26/10 1615	Company T.A.
Relinquished by: Richard J. Mc	Date/Time: 10/26/10 1815	Company JHS	Received by: 	Date/Time: 10/26/10 1815	Company JHS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments: SO_4^{2-} sulfate Ammonia Nitrate manganese Iron

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Bob Carson	Field Sampler: As Schoff	TAT Required (business days):	Lab PM/Contact:	COC Number: 16152
Company: Rite Formation LTD	Mobile/Field Number: 516 680 9529		Lab Job Number (Lab Use Only): 13771	Page 2 of 2
Address: 705 Bedford Ave Suite 2F	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): ☒ Yes ☐ No	Carrier Tracking Notes:
City, State, Zip: Bellmore NY 11710	PO #:	Sample Disposal: [] Return to Client ☒ Disposal by Lab [] Archive for ___ Months (A fee may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only):	
Phone: 516-797-7330	WO #:		Analysis (Attach list if more space is needed)	
Email:	Project #:	State Regulatory QC Criteria Requirements:		
Project Name/Site Location (State): Pelica Harriman NY	SSOW#:			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

No. of Containers/Preservatives

[illegible]

Relinquished by: 	Date/Time: 10/26/10 1615	Company: RHC Form	Received by: Richard L. Jones	Date/Time: 10/26/10 1615	Company: T.A.
Relinquished by: Richard L. Jones	Date/Time: 10/26/10 1820	Company: THC	Received by: 	Date/Time: 10/26/10 1820	Company: JART
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Comments: $X =$ Sulfate Ammonia Nitrate Manganese Iron

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

Login Sample Receipt Check List

Client: R & C Formation Ltd.

Job Number: 220-13771-1

Login Number: 13771

List Source: TestAmerica Connecticut

Creator: Teixeira, Maria L

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9C/1.8C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	SEE COC
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 220-13791-1

Job Description: Nepera Maybrook Semi-Annual Sampling

For:

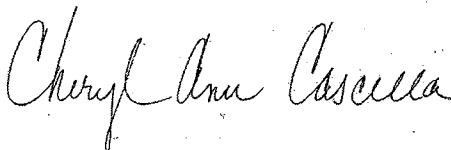
R & C Formation Ltd.

705 Bedford Ave.

Suite 2B

Bellmore, NY 11710

Attention: Mr. Robert Casson



Approved for release.
Cheryl Cascella
Data Review Analyst I
11/15/2010 11:08 AM

Designee for

Johanna Dubauskas

Project Manager I

johanna.dubauskas@testamericainc.com

11/15/2010

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

TestAmerica Laboratories, Inc.

TestAmerica Connecticut 128 Long Hill Cross Road, Shelton, CT 06484

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Job Narrative
220-13791-1

Comments

No additional comments.

Receipt

The Chain-of-Custody (COC) was not properly filled out. The coc did not request nitrate, sulfate, ammonia, iron and manganese analysis for the following samples: MW-16S (220-13791-5), MW-25S (220-13791-7), MW-37S (220-13791-8), MW-53D (220-13791-9), however the laboratory received the appropriate containers to perform these analyses. The client was contacted and instructed the laboratory to proceed with all analyses on October 28, 2010.

All other samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Scott R. Hall

Scott R. Hall
Laboratory Director

November 15, 2010

Date

EXECUTIVE SUMMARY - Detections

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
220-13791-2	OW-6				
Benzene		15000	1000	ug/L	8260B
Iron		17600	250	ug/L	6010B
Manganese		3270	16.0	ug/L	6010B
Sulfate		1.5	1.0	mg/L	300.0
Ammonia		10.1	0.50	mg/L	350.1
220-13791-3	OW-7				
Benzene		2800	100	ug/L	8260B
Iron		15600	250	ug/L	6010B
Manganese		5260	16.0	ug/L	6010B
Sulfate		8.7	1.0	mg/L	300.0
Ammonia		3.4	0.10	mg/L	350.1
220-13791-5	MW-16S				
Benzene		52	5.0	ug/L	8260B
Iron		3250	250	ug/L	6010B
Manganese		760	16.0	ug/L	6010B
Sulfate		8.0	1.0	mg/L	300.0
Ammonia		15.3	0.50	mg/L	350.1
220-13791-6	MW-20D				
Benzene		48	10	ug/L	8260B
Toluene		210	10	ug/L	8260B
220-13791-7	MW-25S				
Benzene		14	5.0	ug/L	8260B
Iron		15400	250	ug/L	6010B
Manganese		1950	16.0	ug/L	6010B
Sulfate		8.2	1.0	mg/L	300.0
Ammonia		1.7	0.10	mg/L	350.1
220-13791-8	MW-37S				
Benzene		3.1	5.0	ug/L	8260B
Iron		6460	250	ug/L	6010B
Manganese		927	16.0	ug/L	6010B
Sulfate		176	5.0	mg/L	300.0
Ammonia		56.0	5.0	mg/L	350.1

EXECUTIVE SUMMARY - Detections

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
220-13791-9	MW-53D				
Benzene		370	20	ug/L	8260B
Iron		5090	250	ug/L	6010B
Manganese		174	16.0	ug/L	6010B
Sulfate		0.49 J	1.0	mg/L	300.0
Ammonia		31.9	5.0	mg/L	350.1

METHOD SUMMARY

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Organic Compounds (GC/MS)	TAL CT	SW846 8260B	
Purge and Trap	TAL CT		SW846 5030B
Metals (ICP)	TAL CT	SW846 6010B	
Preparation, Total Metals	TAL CT		SW846 3010A
Nitrate	TAL CT	MCAWW 300.0	
Anions, Ion Chromatography	TAL CT	MCAWW 300.0	
Nitrogen, Ammonia	TAL CT	MCAWW 350.1	
Distillation, Ammonia	TAL CT		Distill/Ammonia

Lab References:

TAL CT = TestAmerica Connecticut

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Method	Analyst	Analyst ID
SW846 8260B	Humbert, Dave	DH
SW846 6010B	Petronchak, Nestor	NP
MCAWW 300.0	Madumadu, Dave	DM
MCAWW 350.1	Natoli, Richard A	RN

SAMPLE SUMMARY

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-13791-1TB	TB 10-27	Water	10/27/2010 0000	10/27/2010 1815
220-13791-2	OW-6	Water	10/27/2010 1220	10/27/2010 1815
220-13791-3	OW-7	Water	10/27/2010 1156	10/27/2010 1815
220-13791-4	MW-12S	Water	10/27/2010 0851	10/27/2010 1815
220-13791-5	MW-16S	Water	10/27/2010 1036	10/27/2010 1815
220-13791-6	MW-20D	Water	10/27/2010 0931	10/27/2010 1815
220-13791-7	MW-25S	Water	10/27/2010 1132	10/27/2010 1815
220-13791-8	MW-37S	Water	10/27/2010 1106	10/27/2010 1815
220-13791-9	MW-53D	Water	10/27/2010 1006	10/27/2010 1815

SAMPLE RESULTS

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Client Sample ID: TB 10-27

Lab Sample ID: 220-13791-1TB

Client Matrix: Water

Date Sampled: 10/27/2010 0000

Date Received: 10/27/2010 1815

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44721

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6514.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/03/2010 1217

Final Weight/Volume: 5 mL

Date Prepared: 11/03/2010 1217

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	100		63 - 127
1,2-Dichloroethane-d4 (Surr)	82		65 - 136
4-Bromofluorobenzene	103		51 - 142
Dibromofluoromethane	89		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Client Sample ID: OW-6

Lab Sample ID: 220-13791-2

Date Sampled: 10/27/2010 1220

Client Matrix: Water

Date Received: 10/27/2010 1815

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 200
Date Analyzed: 11/03/2010 1306
Date Prepared: 11/03/2010 1306

Analysis Batch: 220-44721

Instrument ID: MSL
Lab File ID: L6516.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	15000		150	1000
Toluene	1000	U	140	1000
Ethylbenzene	1000	U	170	1000
Xylenes, Total	1000	U	450	1000

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		63 - 127
1,2-Dichloroethane-d4 (Surr)	86		65 - 136
4-Bromofluorobenzene	101		51 - 142
Dibromofluoromethane	92		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Client Sample ID: OW-7

Lab Sample ID: 220-13791-3

Client Matrix: Water

Date Sampled: 10/27/2010 1156

Date Received: 10/27/2010 1815

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44721

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6520.D

Dilution: 20

Initial Weight/Volume: 5 mL

Date Analyzed: 11/03/2010 1443

Final Weight/Volume: 5 mL

Date Prepared: 11/03/2010 1443

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	2800		15	100
Toluene	100	U	14	100
Ethylbenzene	100	U	17	100
Xylenes, Total	100	U	45	100

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		63 - 127
1,2-Dichloroethane-d4 (Surr)	87		65 - 136
4-Bromofluorobenzene	103		51 - 142
Dibromofluoromethane	91		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Client Sample ID: MW-12S

Lab Sample ID: 220-13791-4

Client Matrix: Water

Date Sampled: 10/27/2010 0851

Date Received: 10/27/2010 1815

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44776

Instrument ID: MSW

Preparation: 5030B

Lab File ID: W6628.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 1853

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 1853

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	99		63 - 127
1,2-Dichloroethane-d4 (Surr)	93		65 - 136
4-Bromofluorobenzene	115		51 - 142
Dibromofluoromethane	96		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Client Sample ID: MW-16S

Lab Sample ID: 220-13791-5

Date Sampled: 10/27/2010 1036

Client Matrix: Water

Date Received: 10/27/2010 1815

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44776

Instrument ID: MSW

Preparation: 5030B

Lab File ID: W6629.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 1917

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 1917

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	52		0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	105		63 - 127
1,2-Dichloroethane-d4 (Surr)	95		65 - 136
4-Bromofluorobenzene	117		51 - 142
Dibromofluoromethane	96		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Client Sample ID: MW-20D

Lab Sample ID: 220-13791-6

Date Sampled: 10/27/2010 0931

Client Matrix: Water

Date Received: 10/27/2010 1815

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44721

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6521.D

Dilution: 2.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/03/2010 1507

Final Weight/Volume: 5 mL

Date Prepared: 11/03/2010 1507

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	48		1.5	10
Toluene	210		1.4	10
Ethylbenzene	10	U	1.7	10
Xylenes, Total	10	U	4.5	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	98		63 - 127
1,2-Dichloroethane-d4 (Surr)	85		65 - 136
4-Bromofluorobenzene	101		51 - 142
Dibromofluoromethane	89		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Client Sample ID: MW-25S

Lab Sample ID: 220-13791-7

Date Sampled: 10/27/2010 1132

Client Matrix: Water

Date Received: 10/27/2010 1815

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44776

Instrument ID: MSW

Preparation: 5030B

Lab File ID: W6631.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 2006

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 2006

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	14		0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	97		63 - 127
1,2-Dichloroethane-d4 (Surr)	95		65 - 136
4-Bromofluorobenzene	112		51 - 142
Dibromofluoromethane	94		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Client Sample ID: MW-37S

Lab Sample ID: 220-13791-8

Date Sampled: 10/27/2010 1106

Client Matrix: Water

Date Received: 10/27/2010 1815

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44776

Instrument ID: MSW

Preparation: 5030B

Lab File ID: W6632.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/02/2010 2031

Final Weight/Volume: 5 mL

Date Prepared: 11/02/2010 2031

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	3.1	J	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	97		63 - 127
1,2-Dichloroethane-d4 (Surr)	92		65 - 136
4-Bromofluorobenzene	107		51 - 142
Dibromofluoromethane	95		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Client Sample ID: MW-53D

Lab Sample ID: 220-13791-9

Date Sampled: 10/27/2010 1006

Client Matrix: Water

Date Received: 10/27/2010 1815

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 220-44721

Instrument ID: MSL

Preparation: 5030B

Lab File ID: L6519.D

Dilution: 4.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/03/2010 1418

Final Weight/Volume: 5 mL

Date Prepared: 11/03/2010 1418

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	370		3.0	20
Toluene	20	U	2.9	20
Ethylbenzene	20	U	3.5	20
Xylenes, Total	20	U	9.1	20

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	104		63 - 127
1,2-Dichloroethane-d4 (Surr)	90		65 - 136
4-Bromofluorobenzene	105		51 - 142
Dibromofluoromethane	95		68 - 132

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Client Sample ID: OW-6

Lab Sample ID: 220-13791-2

Date Sampled: 10/27/2010 1220

Client Matrix: Water

Date Received: 10/27/2010 1815

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44934

Instrument ID: 1CAP3

Preparation: 3010A

Prep Batch: 220-44857

Lab File ID: 111010d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/10/2010 1233

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1417

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	17600		30.0	250
Manganese	3270		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Client Sample ID: OW-7

Lab Sample ID: 220-13791-3

Date Sampled: 10/27/2010 1156

Client Matrix: Water

Date Received: 10/27/2010 1815

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44934

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44857

Lab File ID: 111010d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/10/2010 1236

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1417

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	15600		30.0	250
Manganese	5260		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Client Sample ID: MW-16S

Lab Sample ID: 220-13791-5

Date Sampled: 10/27/2010 1036

Client Matrix: Water

Date Received: 10/27/2010 1815

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44934

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44857

Lab File ID: 111010d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/10/2010 1239

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1417

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	3250		30.0	250
Manganese	760		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Client Sample ID: MW-25S

Lab Sample ID: 220-13791-7

Client Matrix: Water

Date Sampled: 10/27/2010 1132

Date Received: 10/27/2010 1815

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44934

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44857

Lab File ID: 111010d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/10/2010 1242

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1417

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	15400		30.0	250
Manganese	1950		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Client Sample ID: MW-37S

Lab Sample ID: 220-13791-8

Client Matrix: Water

Date Sampled: 10/27/2010 1106

Date Received: 10/27/2010 1815

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44934

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44857

Lab File ID: 111010d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/10/2010 1245

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1417

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	6460		30.0	250
Manganese	927		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Client Sample ID: MW-53D

Lab Sample ID: 220-13791-9

Client Matrix: Water

Date Sampled: 10/27/2010 1006

Date Received: 10/27/2010 1815

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 220-44934

Instrument ID: ICAP3

Preparation: 3010A

Prep Batch: 220-44857

Lab File ID: 111010d.prn

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 11/10/2010 1255

Final Weight/Volume: 50 mL

Date Prepared: 11/09/2010 1417

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	5090		30.0	250
Manganese	174		0.50	16.0

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

General Chemistry

Client Sample ID: OW-6

Lab Sample ID: 220-13791-2

Date Sampled: 10/27/2010 1220

Client Matrix: Water

Date Received: 10/27/2010 1815

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44621	Date Analyzed: 10/27/2010 2027					
Sulfate	1.5		mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44620	Date Analyzed: 10/27/2010 2027					
Ammonia	10.1		mg/L	0.14	0.50	5.0	350.1
	Analysis Batch: 220-44666	Date Analyzed: 11/04/2010 1437					
	Prep Batch: 220-44586	Date Prepared: 11/03/2010 1151					

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

General Chemistry

Client Sample ID: OW-7

Lab Sample ID: 220-13791-3

Client Matrix: Water

Date Sampled: 10/27/2010 1156

Date Received: 10/27/2010 1815

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44621	Date Analyzed: 10/27/2010 2040					
Sulfate	8.7		mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44620	Date Analyzed: 10/27/2010 2040					
Ammonia	3.4		mg/L	0.028	0.10	1.0	350.1
	Analysis Batch: 220-44666	Date Analyzed: 11/04/2010 1437					
	Prep Batch: 220-44586	Date Prepared: 11/03/2010 1151					

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

General Chemistry

Client Sample ID: MW-16S

Lab Sample ID: 220-13791-5

Client Matrix: Water

Date Sampled: 10/27/2010 1036

Date Received: 10/27/2010 1815

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44621	Date Analyzed: 10/27/2010 2054					
Sulfate	8.0		mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44620	Date Analyzed: 10/27/2010 2054					
Ammonia	15.3		mg/L	0.14	0.50	5.0	350.1
	Analysis Batch: 220-44666	Date Analyzed: 11/04/2010 1437					
	Prep Batch: 220-44586	Date Prepared: 11/03/2010 1151					

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

General Chemistry

Client Sample ID: MW-25S

Lab Sample ID: 220-13791-7

Date Sampled: 10/27/2010 1132

Client Matrix: Water

Date Received: 10/27/2010 1815

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44621	Date Analyzed: 10/27/2010 2107					
Sulfate	8.2		mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44620	Date Analyzed: 10/27/2010 2107					
Ammonia	1.7		mg/L	0.028	0.10	1.0	350.1
	Analysis Batch: 220-44666	Date Analyzed: 11/04/2010 1437					
	Prep Batch: 220-44586	Date Prepared: 11/03/2010 1151					

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

General Chemistry

Client Sample ID: MW-37S

Lab Sample ID: 220-13791-8

Date Sampled: 10/27/2010 1106

Client Matrix: Water

Date Received: 10/27/2010 1815

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44621	Date Analyzed: 10/27/2010 2121					
Sulfate	176		mg/L	1.7	5.0	5.0	300.0
	Analysis Batch: 220-44620	Date Analyzed: 10/28/2010 1407					
Ammonia	56.0		mg/L	1.4	5.0	50	350.1
	Analysis Batch: 220-44666	Date Analyzed: 11/04/2010 1437					
	Prep Batch: 220-44586	Date Prepared: 11/03/2010 1151					

Analytical Data

Client: R & C Formation Ltd.

Job Number: 220-13791-1

General Chemistry

Client Sample ID: MW-53D

Lab Sample ID: 220-13791-9

Date Sampled: 10/27/2010 1006

Client Matrix: Water

Date Received: 10/27/2010 1815

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.10	U	mg/L	0.033	0.10	1.0	300.0
	Analysis Batch: 220-44621		Date Analyzed: 10/27/2010 2134				
Sulfate	0.49	J	mg/L	0.33	1.0	1.0	300.0
	Analysis Batch: 220-44620		Date Analyzed: 10/27/2010 2134				
Ammonia	31.9		mg/L	1.4	5.0	50	350.1
	Analysis Batch: 220-44666		Date Analyzed: 11/04/2010 1437				
	Prep Batch: 220-44586		Date Prepared: 11/03/2010 1151				

DATA REPORTING QUALIFIERS

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.
	J	Indicates an estimated value.
Metals	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL
General Chemistry	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL

QUALITY CONTROL RESULTS

Quality Control Results

Client: R & C Formation Ltd.

Job Number: 220-13791-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:220-44721					
LCS 220-44721/2	Lab Control Sample	T	Water	8260B	
MB 220-44721/3	Method Blank	T	Water	8260B	
220-13791-1TB	TB 10-27	T	Water	8260B	
220-13791-2	OW-6	T	Water	8260B	
220-13791-3	OW-7	T	Water	8260B	
220-13791-6	MW-20D	T	Water	8260B	
220-13791-9	MW-53D	T	Water	8260B	
Analysis Batch:220-44776					
LCS 220-44776/2	Lab Control Sample	T	Water	8260B	
MB 220-44776/3	Method Blank	T	Water	8260B	
220-13791-4	MW-12S	T	Water	8260B	
220-13791-5	MW-16S	T	Water	8260B	
220-13791-7	MW-25S	T	Water	8260B	
220-13791-8	MW-37S	T	Water	8260B	
Report Basis					
T = Total					
Metals					
Prep Batch: 220-44857					
LCS 220-44857/2-A	Lab Control Sample	T	Water	3010A	
MB 220-44857/1-A	Method Blank	T	Water	3010A	
220-13791-2	OW-6	T	Water	3010A	
220-13791-3	OW-7	T	Water	3010A	
220-13791-5	MW-16S	T	Water	3010A	
220-13791-7	MW-25S	T	Water	3010A	
220-13791-8	MW-37S	T	Water	3010A	
220-13791-9	MW-53D	T	Water	3010A	
Analysis Batch:220-44934					
LCS 220-44857/2-A	Lab Control Sample	T	Water	6010B	220-44857
MB 220-44857/1-A	Method Blank	T	Water	6010B	220-44857
220-13791-2	OW-6	T	Water	6010B	220-44857
220-13791-3	OW-7	T	Water	6010B	220-44857
220-13791-5	MW-16S	T	Water	6010B	220-44857
220-13791-7	MW-25S	T	Water	6010B	220-44857
220-13791-8	MW-37S	T	Water	6010B	220-44857
220-13791-9	MW-53D	T	Water	6010B	220-44857
Report Basis					
T = Total					

TestAmerica Connecticut

Quality Control Results

Client: R & C Formation Ltd.

Job Number: 220-13791-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 220-44586					
LCS 220-44586/2-A	Lab Control Sample	T	Water	Distill/Ammonia	
MB 220-44586/1-A	Method Blank	T	Water	Distill/Ammonia	
220-13791-2	OW-6	T	Water	Distill/Ammonia	
220-13791-3	OW-7	T	Water	Distill/Ammonia	
220-13791-5	MW-16S	T	Water	Distill/Ammonia	
220-13791-7	MW-25S	T	Water	Distill/Ammonia	
220-13791-8	MW-37S	T	Water	Distill/Ammonia	
220-13791-9	MW-53D	T	Water	Distill/Ammonia	
Analysis Batch:220-44620					
LCS 220-44620/10	Lab Control Sample	T	Water	300.0	
MSB 220-44620/6	Matrix Spike Blank	T	Water	300.0	
MB 220-44620/11	Method Blank	T	Water	300.0	
220-13791-2	OW-6	T	Water	300.0	
220-13791-3	OW-7	T	Water	300.0	
220-13791-5	MW-16S	T	Water	300.0	
220-13791-7	MW-25S	T	Water	300.0	
220-13791-8	MW-37S	T	Water	300.0	
220-13791-9	MW-53D	T	Water	300.0	
Analysis Batch:220-44621					
LCS 220-44621/10	Lab Control Sample	T	Water	300.0	
MSB 220-44621/6	Matrix Spike Blank	T	Water	300.0	
MB 220-44621/11	Method Blank	T	Water	300.0	
220-13791-2	OW-6	T	Water	300.0	
220-13791-3	OW-7	T	Water	300.0	
220-13791-5	MW-16S	T	Water	300.0	
220-13791-7	MW-25S	T	Water	300.0	
220-13791-8	MW-37S	T	Water	300.0	
220-13791-9	MW-53D	T	Water	300.0	
Analysis Batch:220-44666					
LCS 220-44586/2-A	Lab Control Sample	T	Water	350.1	220-44586
MB 220-44586/1-A	Method Blank	T	Water	350.1	220-44586
220-13791-2	OW-6	T	Water	350.1	220-44586
220-13791-3	OW-7	T	Water	350.1	220-44586
220-13791-5	MW-16S	T	Water	350.1	220-44586
220-13791-7	MW-25S	T	Water	350.1	220-44586
220-13791-8	MW-37S	T	Water	350.1	220-44586
220-13791-9	MW-53D	T	Water	350.1	220-44586

Report Basis

T = Total

TestAmerica Connecticut

Quality Control Results

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TOL %Rec	DCA %Rec	BFB %Rec	DBFM %Rec
220-13791-1	TB 10-27	100	82	103	89
220-13791-2	OW-6	101	86	101	92
220-13791-3	OW-7	101	87	103	91
220-13791-4	MW-12S	99	93	115	96
220-13791-5	MW-16S	105	95	117	96
220-13791-6	MW-20D	98	85	101	89
220-13791-7	MW-25S	97	95	112	94
220-13791-8	MW-37S	97	92	107	95
220-13791-9	MW-53D	104	90	105	95
MB 220-44721/3		99	84	103	90
MB 220-44776/3		100	96	116	99
LCS 220-44721/2		99	83	102	89
LCS 220-44776/2		102	94	120	90

Surrogate	Acceptance Limits
TOL = Toluene-d8 (Surr)	63-127
DCA = 1,2-Dichloroethane-d4 (Surr)	65-136
BFB = 4-Bromofluorobenzene	51-142
DBFM = Dibromofluoromethane	68-132

Quality Control Results

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Method Blank - Batch: 220-44721

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-44721/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/03/2010 1131
Date Prepared: 11/03/2010 1131

Analysis Batch: 220-44721
Prep Batch: N/A
Units: ug/L

Instrument ID: MSL
Lab File ID: L6513.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	99	63 - 127
1,2-Dichloroethane-d4 (Surr)	84	65 - 136
4-Bromofluorobenzene	103	51 - 142
Dibromofluoromethane	90	68 - 132

Lab Control Sample - Batch: 220-44721

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-44721/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/03/2010 1032
Date Prepared: 11/03/2010 1032

Analysis Batch: 220-44721
Prep Batch: N/A
Units: ug/L

Instrument ID: MSL
Lab File ID: L6511.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	20.0	22.4	112	66 - 131	
Toluene	20.0	20.8	104	66 - 120	
Ethylbenzene	20.0	22.0	110	62 - 120	
Xylenes, Total	60.0	64.3	107	58 - 120	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	99	63 - 127
1,2-Dichloroethane-d4 (Surr)	83	65 - 136
4-Bromofluorobenzene	102	51 - 142
Dibromofluoromethane	89	68 - 132

Quality Control Results

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Method Blank - Batch: 220-44776

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 220-44776/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/02/2010 1421
Date Prepared: 11/02/2010 1421

Analysis Batch: 220-44776
Prep Batch: N/A
Units: ug/L

Instrument ID: MSW
Lab File ID: W6618.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	5.0	U	0.74	5.0
Toluene	5.0	U	0.72	5.0
Ethylbenzene	5.0	U	0.87	5.0
Xylenes, Total	5.0	U	2.3	5.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	100	63 - 127
1,2-Dichloroethane-d4 (Surr)	96	65 - 136
4-Bromofluorobenzene	116	51 - 142
Dibromofluoromethane	99	68 - 132

Lab Control Sample - Batch: 220-44776

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 220-44776/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/02/2010 1222
Date Prepared: 11/02/2010 1222

Analysis Batch: 220-44776
Prep Batch: N/A
Units: ug/L

Instrument ID: MSW
Lab File ID: W6614.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	10.0	10.1	101	66 - 131	
Toluene	10.0	11.0	110	66 - 120	
Ethylbenzene	10.0	9.93	99	62 - 120	
Xylenes, Total	30.0	31.8	106	58 - 120	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	102	63 - 127
1,2-Dichloroethane-d4 (Surr)	94	65 - 136
4-Bromofluorobenzene	120	51 - 142
Dibromofluoromethane	90	68 - 132

Quality Control Results

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Method Blank - Batch: 220-44857

Method: 6010B
Preparation: 3010A

Lab Sample ID: MB 220-44857/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2010 1139
Date Prepared: 11/09/2010 1417

Analysis Batch: 220-44934
Prep Batch: 220-44857
Units: ug/L

Instrument ID: ICAP3
Lab File ID: 111010d.pm
Initial Weight/Volume: 100 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Iron	125	U	15.0	125
Manganese	8.0	U	0.25	8.0

Lab Control Sample - Batch: 220-44857

Method: 6010B
Preparation: 3010A

Lab Sample ID: LCS 220-44857/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2010 1142
Date Prepared: 11/09/2010 1417

Analysis Batch: 220-44934
Prep Batch: 220-44857
Units: ug/L

Instrument ID: ICAP3
Lab File ID: 111010d.pm
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	3330	3379	101	80 - 120	
Manganese	200	202.9	101	80 - 120	

Quality Control Results

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Method Blank - Batch: 220-44620

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 220-44620/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/26/2010 2335
Date Prepared: N/A

Analysis Batch: 220-44620
Prep Batch: N/A
Units: mg/L

Instrument ID: IC Lachet
Lab File ID: IC101026b.omn
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Sulfate	1.0	U	0.33	1.0

Matrix Spike Blank - Batch: 220-44620

Method: 300.0
Preparation: N/A

Lab Sample ID: MSB 220-44620/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/22/2010 1047
Date Prepared: N/A

Analysis Batch: 220-44620
Prep Batch: N/A
Units: mg/L

Instrument ID: IC Lachet
Lab File ID: IC101022.omn
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	19.9	19.17	96	80 - 120	

Lab Control Sample - Batch: 220-44620

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 220-44620/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/26/2010 2321
Date Prepared: N/A

Analysis Batch: 220-44620
Prep Batch: N/A
Units: mg/L

Instrument ID: IC Lachet
Lab File ID: IC101026b.omn
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	7.93	7.76	98	90 - 110	

Quality Control Results

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Method Blank - Batch: 220-44621

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 220-44621/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/26/2010 2335
Date Prepared: N/A

Analysis Batch: 220-44621
Prep Batch: N/A
Units: mg/L

Instrument ID: IC Lachet
Lab File ID: IC101026b.omn
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Nitrate as N	0.10	U	0.033	0.10

Matrix Spike Blank - Batch: 220-44621

Method: 300.0
Preparation: N/A

Lab Sample ID: MSB 220-44621/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/22/2010 1047
Date Prepared: N/A

Analysis Batch: 220-44621
Prep Batch: N/A
Units: mg/L

Instrument ID: IC Lachet
Lab File ID: IC101022.omn
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	2.01	1.90	94	80 - 120	

Lab Control Sample - Batch: 220-44621

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 220-44621/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/26/2010 2321
Date Prepared: N/A

Analysis Batch: 220-44621
Prep Batch: N/A
Units: mg/L

Instrument ID: IC Lachet
Lab File ID: IC101026b.omn
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	5.97	5.76	96	90 - 110	

Quality Control Results

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Method Blank - Batch: 220-44586

Method: 350.1

Preparation: Distill/Ammonia

Lab Sample ID: MB 220-44586/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/04/2010 1426
Date Prepared: 11/03/2010 1151

Analysis Batch: 220-44666
Prep Batch: 220-44586
Units: mg/L

Instrument ID: KLAB
Lab File ID: INH101104.xls
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Ammonia	0.10	U	0.028	0.10

Lab Control Sample - Batch: 220-44586

Method: 350.1

Preparation: Distill/Ammonia

Lab Sample ID: LCS 220-44586/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/04/2010 1426
Date Prepared: 11/03/2010 1151

Analysis Batch: 220-44666
Prep Batch: 220-44586
Units: mg/L

Instrument ID: KLAB
Lab File ID: INH101104.xls
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia	3.50	3.26	93	51 - 149	

TestAmerica Connecticut

128 Long Hill Cross Road

Shelton, CT 06484

Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: BOB Casson	Field Sampler: AS Schuff	TAT Required (business days):	Lab PM/Contact:	COC Number: 16410
Company: B+C Formation LTD	Mobile/Field Number: 516 680 9529		Lab Job Number (Lab Use Only): 13791	Page 1 of 1
Address: 705 Bedford Ave Suite 200	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): ☒ Yes ☐ No	Carrier Tracking Notes:
City, State, Zip: Vellmar NY 11710	PO #:	Sample Disposal: ☐ Return to Client ☒ Disposal by Lab ☐ Archive for ___ Months (A fee, may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only): ENV # 3 30°C	
Phone: 516 797 7330	WO #:	State Regulatory QC Criteria Requirements:	Analysis (Attach list if more space is needed)	
Email:	Project #:			
Project Name/Site Location (State): NEPCA Harriman NY	SSOW#:			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

No. of Containers/Preservatives

Page #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	STEX	Gen Chem.	Comments
Page 43 of 44	TB 10-27 (1)	10/27/10	1220	AQ	NO				3				X		
	OW-6 (2)		1220										X	X	
	OW-7 (3)		1156										X	X	
	MW-125 (4)		0851										X		
	MW-165 (5)		1036										X		
	MW-200 (6)		0931										X		
	MW-255 (7)		1132										X		3.0
	MW-375 (8)		1106										X		
	MW-530 (9)		1006										X		

Relinquished by: [Signature]	Date/Time: 10/27/10 1220	Company: B+C Form	Received by: Richard L. [Signature]	Date/Time: 10/27/10 1220	Company: T.A.
Relinquished by: Richard L. [Signature]	Date/Time: 10/27/10 1815	Company: T.A.	Received by: [Signature]	Date/Time: 10/27/10 1815	Company: V.H.T.
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Comments: * = Sulfate Ammonia Nitrate Manganese Iron

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy.

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

Login Sample Receipt Check List

Client: R & C Formation Ltd.

Job Number: 220-13791-1

Login Number: 13791

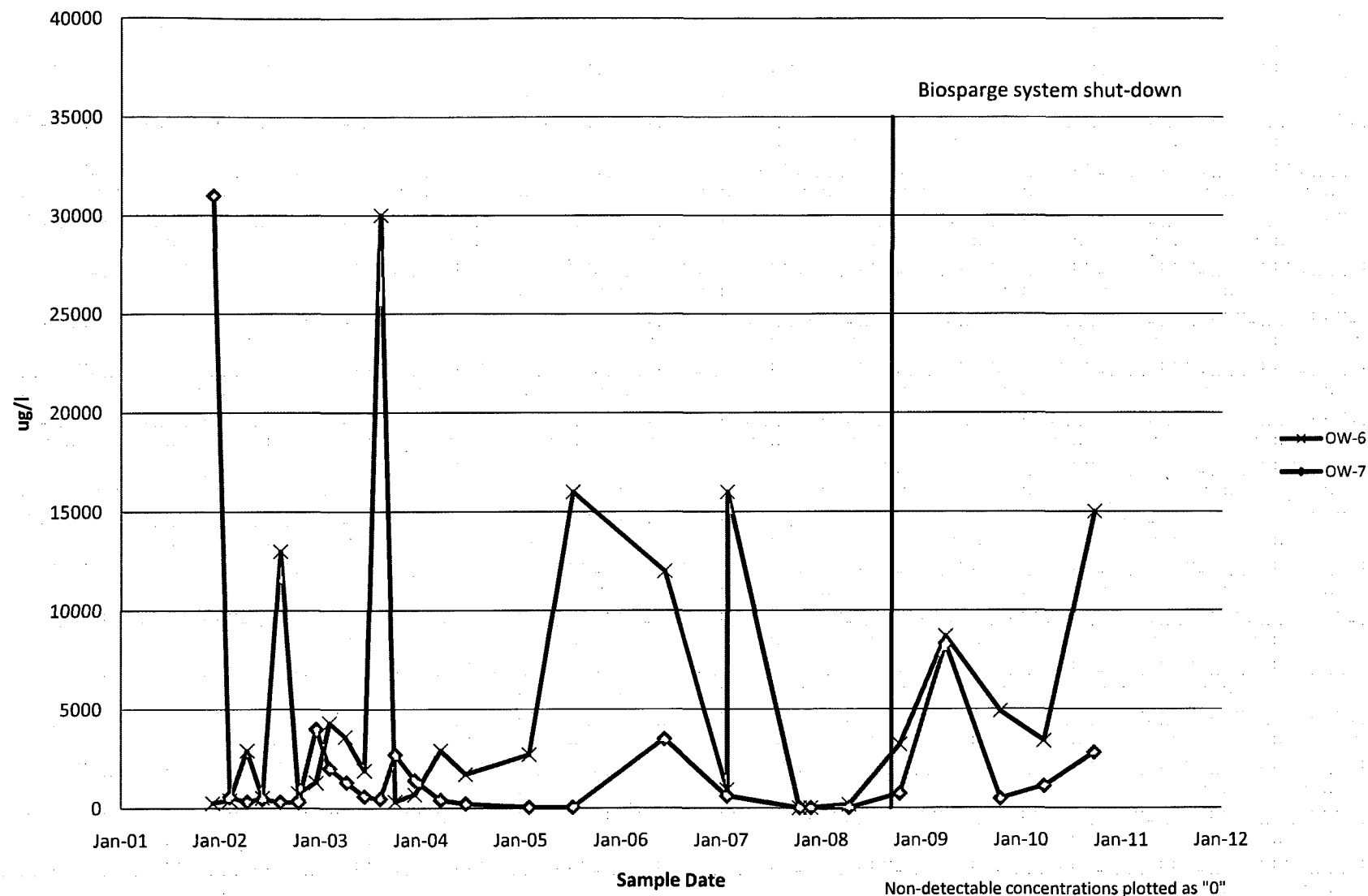
List Source: TestAmerica Connecticut

Creator: Teixeira, Maria L

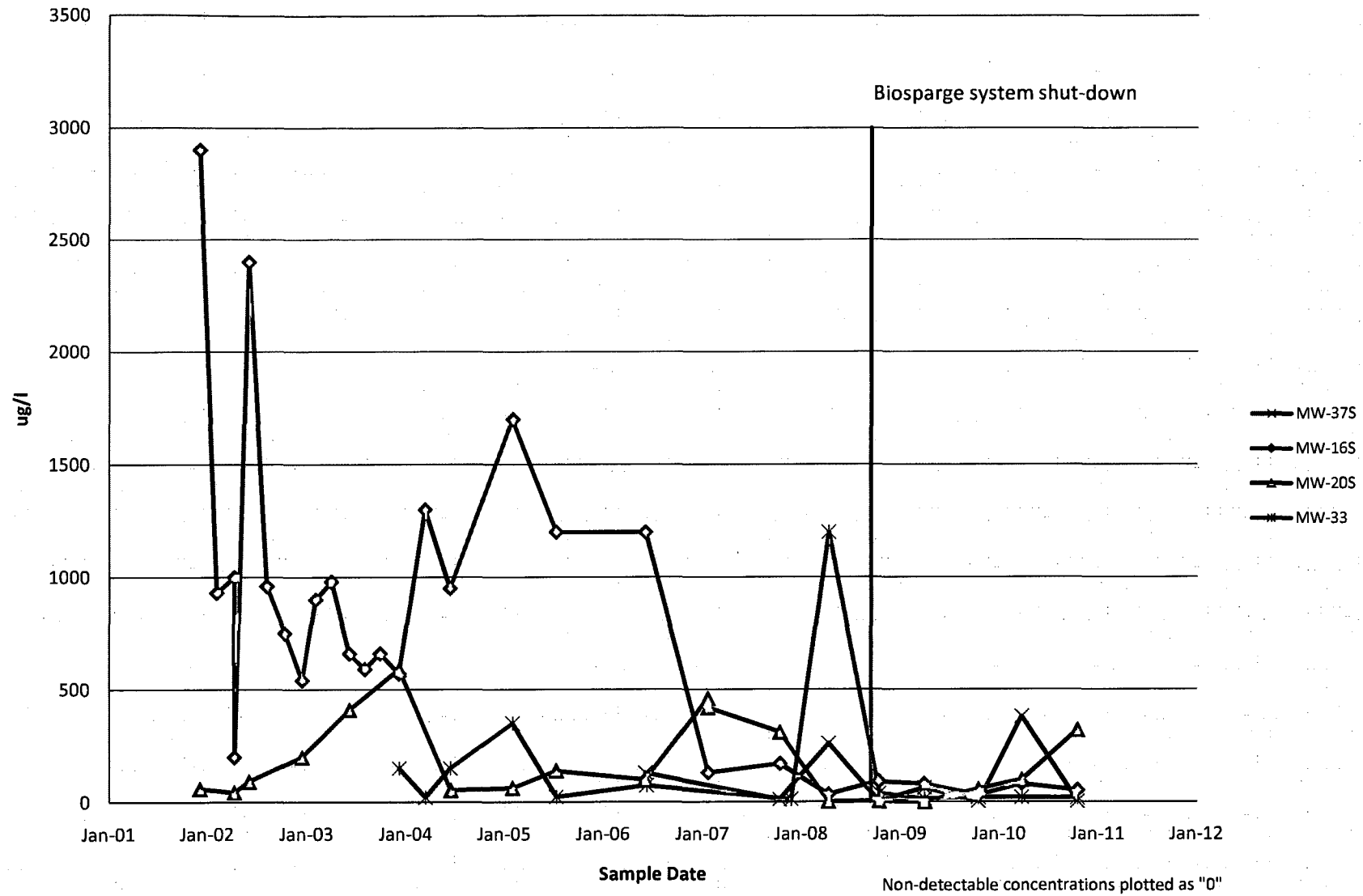
List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Benzene Concentration with Time



Benzene Concentration with Time



RIVERBANK INSPECTION FORM
WEST BRANCH OF THE RAMAPO RIVER
MAYBROOK AND HARRIMAN TRUST
HARRIMAN, NEW YORK

DATE: 10-Dec-10

INSPECTION (Check): ANNUAL

INSPECTOR: D. Crim

SEMI-ANNUAL ④

ITEM	ADEQUATE	COMMENTS
I. IRM COVER AND SILT FENCE		
A. General condition of cover material	<u>Yes</u>	<u>Riverbank cover in good condition, no signs of erosion</u>
B. Settlement of covered area	<u>Yes</u>	<u>Some minor depressions in pavement - parking lot area</u>
C. General condition of silt fence	<u>Yes</u>	<u>Good condition</u>

Former Nepera Plant - Harriman, NY: Quarterly Well Inspection Report

Date 12/10/2010

Monitoring Well	Diameter Inches	Finish	Collar	Lid	Plug	Lock	Tag	Casing	Comments	Action Items
MW-1S	6	Stickup	OK	OK	OK	OK	X	OK	Well casing is PVC, could not weld, installed 6" locking plug	Replace tag
MW-2S	4	Stickup	OK	OK	OK	OK	OK	D	Casing is sheared off a few feet below top of ground.	
MW-3S	4	Stickup	OK	OK	OK	OK	OK	OK	Cleared Vegetation	
MW-4S	4	Stickup	OK	OK	OK	OK	OK	OK	Cleared Vegetation	
MW-5S	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-7S	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-8S	4	Stickup	OK	OK	OK	OK	OK	OK	Twist on cap.	
MW-9S	4	Stickup	OK	OK	OK	OK	X	OK	Twist on cap.	Replace tag
MW-11S	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-12S	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-13S	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-16S	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-20S	4	Flushmount	OK	OK	OK	OK	OK	OK		
MW-21S	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-24S	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-25S	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-27S	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-33S	2	Flushmount	OK	OK	OK	OK	OK	OK	internal threads may need to be repaired in the future	
MW-35S	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-36S	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-37S	2	Flushmount	OK	OK	OK	OK	OK	OK		
OW-6	2	Stickup	OK	OK	OK	OK	OK	OK		
OW-7	2	Stickup	OK	OK	OK	OK	OK	D	PVC inside well casing is detached	
R-1	6		NI	NI	NI	NI	NI	NI	Well no longer exists	
RW-1**	6	Vault	NI	NI	NI	NI	NI	NI		
RW-1R	6	Vault	OK	OK	OK	OK	OK	OK		
MW-53D	4	Flushmount	OK	OK	OK	OK	OK	OK		
PZ-1	2	Stickup	OK	OK	OK	OK	OK	OK		

Former Nepera Plant - Harriman, NY: Quarterly Well Inspection Report

Date 12/10/2010

Monitoring Well	Diameter Inches	Finish	Collar	Lid	Plug	Lock	Tag	Casing	Comments	Action Items
PZ-2	2	Flushmount	OK	OK	OK	OK	OK	OK	Well inspected and everything is okay. Well is covered by steel plate.	
PZ-3	2	Flushmount	D	OK	OK	OK	OK	OK	Only one bolt holds, other has broken tab. Unable to repair.	Install new collar & cover
MW-15S	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-17S	4	Stickup	OK	OK	OK	OK	OK	D	Casing is sheared off a few feet below top of ground. Broken PVC pipe inside casing.	
MW-19S	4	Stickup	OK	OK	OK	OK	OK	D	Casing is damaged/bent.	
MW-22S(1)	4	Stickup	OK	OK	OK	OK	OK	OK	Installed 4" plug	
MW-23S(1)	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-26S	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-28S(2)	2	Stickup	OK	OK	OK	OK	OK	OK		
MW-29S(2)	2	Stickup	OK	OK	OK	OK	OK	OK	Adjusted so casing lid now closes. Installed new tag.	
MW-34	2	Flushmount	OK	OK	OK	OK	OK	OK	Internal threads may need to be repaired in the future.	
MW-35AQ	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-36AQ	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-37AQ	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-53S	4	Flushmount	OK	OK	OK	OK	OK	OK		
PZ-4	2	Stickup	OK	OK	OK	OK	OK	OK		
MW-6D	4	Stickup	OK	OK	OK	OK	OK	OK	Well is behind a chain link fence that leads upto the river bank. Cleared vegetation	
MW-10D	6	Stickup	OK	OK	X	OK	OK	OK	No plug, tubing is tied off inside of well, Inner casing too far down to plug.	
MW-18D	6	Stickup	OK	OK	X	OK	OK	OK	Inner casing too far down to plug.	
MW-20D	3.9	Flushmount	OK	OK	OK	OK	OK	OK		
MW-21D	3.9	Stickup	OK	OK	OK	OK	OK	OK		
MW-23D(1)	3.9	Stickup	OK	OK	OK	OK	OK	OK		
MW-25D	3.9	Stickup	OK	OK	OK	OK	OK	OK		

Former Nepera Plant - Harriman, NY: Quarterly Well Inspection Report

Date 12/10/2010

Monitoring Well	Diameter Inches	Finish	Collar	Lid	Plug	Lock	Tag	Casing	Comments	Action Items
MW-26D	2	Stickup	OK	OK	OK	OK	OK	OK	Welded on hasp to accept lock and installed lock.	
MW-27D	6	Stickup	OK	OK	OK	OK	OK	OK		
R-2D	10	Stickup	NI	NI	NI	NI	NI	NI	Well in shed connected to pump motor.	
R-3D	10	Stickup	OK	OK	X	X	OK	OK	Large metal plate covering well	
MW-101	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-102	2	Stickup	OK	OK	OK	OK	OK	OK		
MW-103	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-104	2	Flushmount	OK	OK	OK	OK	OK	OK	Replaced tag	
MW-105	2	Stickup	OK	OK	OK	OK	OK	OK		
MW-106	2	Stickup	OK	OK	OK	OK	OK	OK		
20 DR	2	Flushmount	OK	OK	OK	OK	OK	OK		
Field Technician:									D. Crim	

(1) Off-Site Wells.

(2) Erosion Evaluation Wells

** RW-1 was replaced by RW-1R

X = Item Missing

B = Bolts Missing

NI = NOT INSPECTED

D = Damaged

OK = Acceptable Condition