Bi-Annual 2010 Monitoring Event Letter Report and Remedy Review Report for Site No. 932001 Airco Properties, Inc., Airco Parcel Niagara Falls, New York

Prepared for

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Prepared by

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13 June 2011

Mr. Brian Thiesse
Head of US SHEQ Operations
Linde, LLC
575 Mountain Avenue
Murray Hill, New Jersey 07974

RE: Second 2010 Bi-Annual Monitoring Event Letter Report and Remedy Review Report, Site No. 932001, Airco Properties Inc., Airco Parcel, Niagara Falls, New York

Dear Mr. Thiesse:

Greenstar Environmental Solutions, LLC (Greenstar) is pleased to provide the second 2010 Bi-Annual Monitoring Event Letter Report summarizing the operation and maintenance activities at the Airco Parcel (Site), Niagara Falls, New York, for the period 1 July 2010 to 31 December 2010. The post-closure monitoring and facility maintenance program was initiated at the Airco Parcel during December 2000. Post-closure monitoring and facility maintenance is required by New York State Solid Waste Management Facilities Regulations (6 NYCRR Part 360-2.15[k][4]) and stipulated in Order on Consent No. B9-0470-94-12. The purpose of this Bi-Annual Monitoring Event Letter Report is to summarize the analytical results of the second bi-annual 2010 groundwater monitoring event that was conducted in September 2010, and operations and maintenance activities conducted at the Site from July through December 2010.

OBJECTIVES

In accordance with the Revised Final Post-Closure Monitoring and Facility Maintenance Plan for the Airco Parcel, prepared by EA Engineering, PC and its affiliate EA Science and Technology (EA 2004)[1], environmental monitoring points will be maintained and sampled during the post-closure monitoring period, including the collection of appropriate groundwater, surface water, and groundwater collection treatment system (GCTS) samples. The Post-Closure Monitoring and Facility Maintenance Plan specifies sampling locations, sampling parameters and analytical methods, in addition to other required maintenance activities, such as landfill cap inspections and the operations and maintenance plan for the GCTS. Following completion of the first five years of post-closure monitoring, the original Revised Final Post-Closure Monitoring and Facility Maintenance Plan, which was included as Appendix A in the Interim Remedial Measure Report (EA 2001a)[2], was re-evaluated and revised based on the data collected at the site so that the monitoring plan is more focused to address site-specific issues that were identified during the first five years of post-closure monitoring. The second 5-year remedy review period is summarized in the Remedy Review Report contained in Attachment H. It summarizes the last 5 years of data collected, and provides recommendations for modifications to the Post-Closure

1. EA Engineering, P.C. and its Affiliate EA Science and Technology. 2004. Revised Final Post-Closure Monitoring and Facility Maintenance Plan for the Airco Parcel, Niagara Falls, New York. September.
2. EA Engineering, P.C. and its Affiliate EA Science and Technology. 2001a. Interim Remedial Measure Report Documenting Closure of the Witmer Road Landfill, Niagara Falls, New York. Appendix A – Revised Final Post-Closure Monitoring and Facility Maintenance Plan. January.

Monitoring and Facility Maintenance Plan, and discusses additional investigations and pilot studies to explore alternative solutions to the groundwater collection and treatment system.

In accordance with the Revised Post-Closure Monitoring and Facility Maintenance Program the following activities are being completed:

- Environmental monitoring points are being maintained and sampled during the post-closure period.
- Bi-annual summary reports are submitted to site stakeholders including the New York State Department of Environmental Conservation (NYSDEC) Division of Solid and Hazardous Materials, Region 9; the New York State Department of Health, Albany, New York; Linde, Inc.; and the document repository located at the Town of Niagara Clerk's Office.
- Routine inspections of the sediment ponds and the engineered wetlands are conducted to assess the presence of mosquito larvae.
- Drainage structures and ditches are maintained to prevent ponding of water and erosion of the landfill soil cap.
- Soil cover integrity, slopes, cover vegetation, drainage structures, and the perimeter road are maintained during the post-closure monitoring and maintenance period.
- A vegetative cover is maintained on all exposed final cover material, and adequate measures are taken to ensure the integrity of the final vegetated cover, topsoil layer, and underlying barrier protection layer.
- The GCTS is being operated and maintained to effectively mitigate the discharge of groundwater to surface water in the southwest corner of the Airco Parcel.
- Records are maintained of sample analytical results.

BACKGROUND

The Airco Parcel is part of the Vanadium Corporation of America site that is located in the Town of Niagara Falls, New York (Figure 1). The entire Vanadium site is approximately 150 acres in size, with the Airco Parcel encompassing approximately 25 acres. The 25-acre Airco parcel is the focus of this bi-annual sampling event letter report. The site contains waste material from the historic operations of onsite and nearby production facilities.

An Immediate Investigative Work Assignment (IIWA) investigation was conducted by NYSDEC for a portion of the 150-acre parcel in August 1997, and included investigation of the 70 acre parcel owned by Niagara Mohawk Power Corporation and New York Power Authority. During the investigation, NYSDEC determined that the site had been used by Vanadium Corporation of America (the owners of the site from 1924 to 1964) to dispose of wood, brick, ash, lime slag, ferrochromium silicon slag, and ferrochromium silicon dust. Based on results of the IIWA investigation NYSDEC determined that much of the surface material consisted of fill, including fly ash, dust, slag, and cinder materials.

Analytical results of groundwater samples collected at the site during the IIWA investigation indicated that surface water and groundwater standards were exceeded for hexavalent chromium

and pH. The Vanadium site, including the Airco Parcel, has been listed as a Class 2 Hazardous Waste Site in the New York State Registry of Inactive Hazardous Waste Sites (Site No. 932001).

Remedial measures at the Airco Parcel were completed in 2000 when the landfill was capped as part of an Interim Remedial Measure (IRM) implemented at the Site. A complete description of the history of the site, and the construction details of the landfill capping system, can be found in the Interim Remedial Measure Report (EA 2001b)[3]. During cap construction a relief pipe system was installed to allow perched water to exit from under the cap without causing slope instability. Flow monitoring and sampling were initiated as part the monitoring program. The data collected indicated that the leachate was actually groundwater recharging to surface water and elevated hexavalent chromium concentrations and pH in groundwater remained in excess of the ambient water quality criteria after mixing with surface water.

Therefore, the IRM was augmented in 2003 with the design and implementation of the GCTS, which was determined to be necessary to meet the goals of the interim remedial measures program. The GCTS was designed to prevent the uncontrolled discharge of impacted groundwater from the Airco Parcel and includes pH adjustment via carbon dioxide aeration, settling for precipitate removal, oxidation/reduction via zero valence iron, and final clarification via an engineered wetland. The main portion of the GCTS is located at the northwest corner of the site and contains the main control panel, carbon dioxide storage tank, carbon dioxide aeration system, sedimentation tanks, pump stations, zero valence iron reaction tanks, and an engineered wetland. An influent pump station is located at the southwest corner of the site.

MONITORING EVENT FIELD ACTIVITIES

The second monitoring event for 2010 was completed 28 - 29 September 2010. The sections below provide a summary of data collected as part of this Monitoring event.

Monitoring Well Gauging

The site monitoring wells, Figure 2, were gauged on 28 September 2010 prior to sampling. Gauging data are summarized in the table below:

Monitoring Well	Depth to Water (ft TOC)	Well Elevation (ft AMSL)	Water Elevation (ft AMSL)
MW-1B	14.15	617.77	603.62
MW-2B	16.75	615.88	599.13
MW-3B	12.79	611.22	598.43
MW-4B	14.38	606.68	592.30
MW-5B	12.89	605.48	592.59
MW-6B	5.27	603.47	598.20
MW-7B	13.45	609.48	596.03
MW-8B	9.50	611.62	602.12

NOTE: TOC = Top of casing.
AMSL = Above mean sea level.

3. EA Engineering, Science, and Technology. 2001b. Interim Remedial Measure Report Documenting Closure of the Witmer Road Landfill, Niagara Falls, New York. January.

Figure 3 shows the inferred groundwater flow direction at the site, based on the September 2010 gauging data.

LABORATORY ANALYSIS

Groundwater and surface water samples were submitted to TestAmerica Laboratories of Amherst, New York for analysis of phenolics by U.S. Environmental Protection Agency (EPA) Method 420.2, sulfate by EPA Method 375.3, ammonia (expressed as nitrogen) by EPA Method 350.2, and Target Analyte List metals by EPA Series 6010/6020, including hexavalent chromium.

Regulatory Criteria

Groundwater sampling results were compared to NYSDEC Ambient Water Quality Standards (AWQS) (NYSDEC 1999) and guidance values for Class GA waters. Class GA groundwater is used as a source of drinking water. Surface water samples were compared to NYSDEC AWQS for Class D surface waters. Class D waters are used for fishing but are not conducive to fish propagation. If no Class D standards were applicable for a particular compound, analytical results were compared to the more stringent Class C standards. Class C waters are suitable for fishing and fish propagation.

Groundwater Sampling

Monitoring wells were sampled on 28 – 29 September 2011. Eight monitoring wells are present at the site. Groundwater samples were collected from seven monitoring wells during this sampling event. One monitoring well (MW-4B) had insufficient well volume to purge and sample. Monitoring wells MW-3B, MW-5B, and MW-8B were purged using dedicated bailers due to slow recharge and limited well volume. Consistent with previous sampling, these wells yield very little groundwater and were bailed dry and allowed to recharge prior to sample collection. Monitoring wells MW-1B, MW-2B, MW-6B and MW-7B had adequate groundwater yield for low flow sampling utilizing a peristaltic pump. Water quality readings were allowed to stabilize prior to sample collection.

Surface Water Sampling

Surface water samples were collected from the drainage swales in the southwest corner of the site. These samples were collected from the eastern swale approximately 80 feet east of the pump station (SS-02); the confluence of the two swales where they discharge from the property (SS-01); and upstream of the confluence (SS-03). The surface water sample locations are shown on Figures 2 and 4.

ANALYTICAL RESULTS

Analytical results are summarized on the table provided in Attachment A. Copies of the well gauging, purging, and sampling forms are provided in Attachment B. Laboratory chain of-custody records are provided in Attachment C. A copy of the laboratory data package for groundwater and surface water sampling is included in Attachment D.

Summary tables listing analytical results compared to applicable NYSDEC AWQS are included in Attachment A, and a tag map illustrating analytical results is provided as Figure 4.

Metals

Unfiltered groundwater samples were collected from the 7 monitoring wells for metals analyses. Significant results included the following:

- Chromium, hexavalent chromium, iron, lead, magnesium, manganese, and sodium were detected in one or more of the groundwater samples at concentrations in excess of NYSDEC AWQS.
- Chromium was detected in excess of the NYSDEC AWQS in MW-2B, and MW-8B at concentrations ranging from 0.0962 milligram per liter (mg/L) (MW-8B) to 0.574 mg/L (MW-2B).
- Hexavalent chromium was detected in excess of the NYSDEC AWQS in MW-2B and MW-8B at concentrations of 0.271 mg/L and 0.0985 mg/L, respectively.
- Iron was detected in excess of the NYSDEC AWQS in MW-2B, MW-5B and MW-8B at concentrations ranging from 2.76 mg/L (MW-5B) to 8.64 mg/L (MW-8B).
- Lead was detected slightly above the NYSDEC AWQS (.025 mg/L) in MW-8at a concentrations of .00253 mg/L.
- Magnesium was detected in excess of the NYSDEC AWQS in MW-1B, MW-5B, MW-6B and MW-8B at concentrations ranging from 61.3 mg/L (MW-1B) to 95.4 mg/L (MW-5B).
- Manganese was detected in excess of the NYSDEC AWQS in MW-1B and MW-8B at concentration of 0.684 mg/L and 0.586 mg/L, respectively.
- Sodium was detected in excess of the NYSDEC AWQS in all 7 monitoring wells at concentrations ranging from 44 mg/L (MW-5B) to 118 mg/L (MW-1B).

Unfiltered surface water samples were collected from 3 surface water locations for metals analyses. Iron was detected at concentration above the NYSDEC AWQS for Class D surface waters in SS-02 (0.971 mg/L). No other metals exceeded their respective NYSDEC AWQS for Class D surface waters.

Water Quality Parameters

Water quality parameters, including pH, temperature, conductivity, dissolved oxygen, turbidity, and salinity, were collected in the field. In addition, water quality parameters, including ammonia (expressed as N), phenolics, and sulfate, were analyzed by the laboratory. Notable results included the following:

- Sulfate was detected in excess of the NYSDEC AWQS in MW-6B at a concentration of 392 mg/L.
- pH measurements were measured outside the NYSDEC AWQS of 6.5-8.5 standard pH units in monitoring wells MW-2B (13.06), MW-3B (9.69), and MW-7B (8.56).

LANDFILL INSPECTION

Landfill cap inspections were conducted on 24 August and 29 December 2010. The completed Landfill Cap Inspection Checklists are provided as Attachment E. No deterioration, damage, or erosion to the landfill cap was noted during the engineering inspections. The noted deficiencies identified during the 1st, 2nd and 3rd quarters were addressed during the 4th quarter. They included:

- Repair of areas of disturbance around the T-7 pond. The top of the T-7 berm in some areas was as much as 1.5' lower than other areas. Fill was added and topsoil placed to raise the berm elevation.
- The T-7 outlet pipe was excavated and repaired to prevent blockages from forming.
- Culverts were installed under the access road in the southwest corner to aid in the prevention of water backing up and flooding the drywell.
- The damaged T-3A tank cover was replaced.

GCTS OPERATIONS AND MAINTENANCE MONITORING ACTIVITIES

Routine operations and maintenance of the GCTS is preformed during site visits twice per month. Activities performed include data collection, cleaning and calibration of pH probes, cleaning of pressure transmitters, operational parameter adjustments based on observed site conditions, and general housekeeping tasks. The replacement of system components, including pumps, pressure transmitters, and pH probes is also scheduled and performed during the routine visits when practicable.

System Operations and Maintenance (July – December 2010)

The GCTS was operated throughout the 6-month period of 1 July – 31 December 2010. System monitoring was conducted throughout the operation period. Attachment G provides details of the problems encountered, and the implemented solutions.

During the reporting period, the GCTS operated for 4,416 hours (100 percent) at an average flow rate of 11.4 gallons per minute (gpm). The GCTS sampling occurred bi-weekly during the operation period. Samples were collected at various locations within the system to evaluate treatment system performance and compliance with discharge criteria. Bi-weekly samples were collected from the system at T3B after CO_2 aeration; T6B after treatment via the zero valence iron tank; after the engineered wetland (EWE); and at the point where the drainage swale exits the site in the southwest corner, when accessible. The samples were analyzed in the field for total chromium and hexavalent chromium using a HACH DR4000® spectrophotometer. The HACH DR4000® spectrophotometer field method is EPA approved for reporting water and wastewater analyses within a detection limit of 0.006 and 0.005 mg/L for hexavalent chromium, and 0.003 mg/L for total chromium.

The engineered wetland discharge samples were analyzed in the field, and separate quarterly samples were also collected for off-site laboratory analysis at Test America Laboratories of Amherst, New York for a full list of discharge criteria. During the report period, field analysis on 14 September 2010 noted a hexavalent chromium concentration of 50 micrograms per liter (μg/L), which is in excess of the NYSDEC discharge guidance value (11 μg/L), in the surface water where it exits the site in the southwest corner. A confirmatory sample was collected and submitted to TestAmerica for analysis. The results indicated that no hexavalent chromium was present in the discharge. In addition, samples were collected on 8 July 2010 and 18 July 2010 and sent for offsite analysis for Total and hexavalent chromium as the Hach DR4000 Spectrophotometer was sent to the manufacturer for routine repairs and calibration.

Field sampling results for total and hexavalent chromium can be found in Table 1, and results of the quarterly engineered wetland discharge samples can be found in Table 2. Analytical results for the quarterly discharge sampling indicated full compliance with the NYSDEC discharge guidance values for the August 2010 discharge sampling. A chain of custody error occurred during the 4th Quarter sampling event, and the surface water sample was analyzed for only a portion of the guidance value parameters. The sample was analyzed for Ammonia, Total and hexavalent chromium, Iron, Selenium, thallium and zinc. For this partial list, no results exceeded the guidance values. The Laboratory data package for the GCTS discharge sampling can be found in Attachment F.

GCTS Modifications (July – December 2010)

No major modifications to the GCTS were performed during the report period. Site activities were limited to routine operations and maintenance, including repairs to pumps, VFDs, and pH probes, routine tank and line cleaning, and replacement of the T-1 influent valve actuator. Routine site maintenance to address deficiencies noted in the engineering inspections was performed. Attachment G summarizes monthly operation and maintenance details for the period July through December 2010, as well as provides details of any proposed operation and maintenance projects and modification improvements to be implemented in the near future.

If you have any questions regarding the results of this Bi-Annual 2010 Monitoring Event Letter Report, please do not hesitate to contact the undersigned at (845) 223-9944.

Sincerely,

GREENSTAR ENVIRONMENTAL SOLUTIONS

Charles E. McLeod, Jr., P.E.
Project Manager

Peter L. Nimmer, P.G.
Senior Geologist

Attachment

cc: M. Hinton (NYSDEC)
M. Forcucci (NYSDOH)
Town of Niagara Falls (Town Clerk)

TABLE 1 SUMMARY OF GCTS FIELD SAMPLING RESULTS
1 JULY – 31 DECEMBER 2010, AIRCO PARCEL, NIAGARA FALLS, NEW YORK

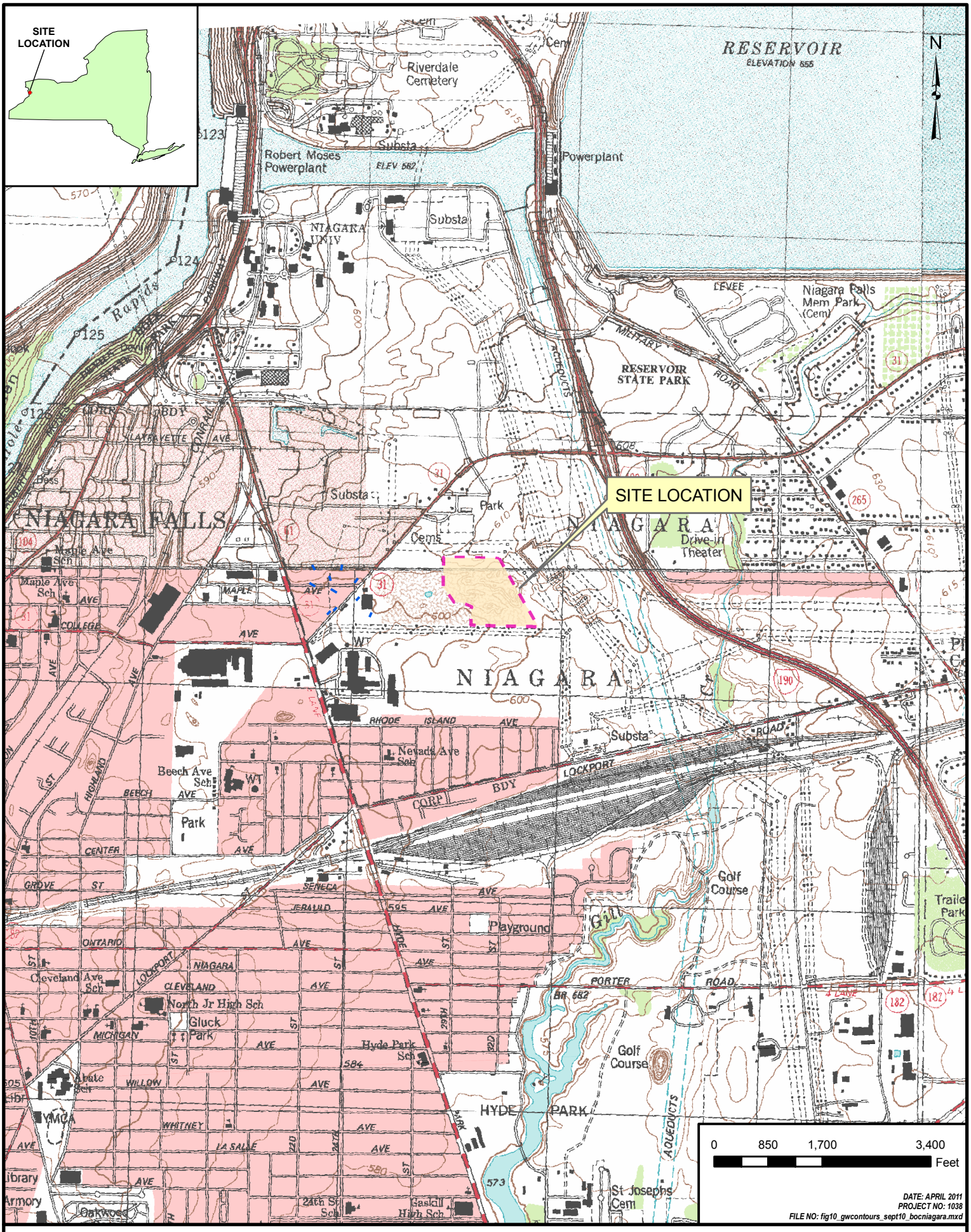
	Chromium Tank 3B		Iron Tank 6B		Engineered Wetland		Southwest Corner	
Date	Total Chromium	Hexavalent Chromium	Total Chromium	Hexavalent Chromium	Total Chromium	Hexavalent Chromium	Total Chromium	Hexavalent Chromium
7/8/10[(1)]	134 µg/L	39 µg/L	NS	NS	NS	NS	<4U µg/L	<10U µg/L
7/18/10[(2)]	138 µg/L	26 µg/L	NS	NS	NS	NS	<4U µg/L	<10U µg/L
8/2/10	61 µg/L	21 µg/L	<3U µg/L	<3U µg/L	11 µg/L	22 µg/L	11 µg/L	5 µg/L
8/24/10	38 µg/L	7 µg/L	15 µg/L	<3U µg/L	38 µg/L	23 µg/L	17 µg/L	8 µg/L
9/3/10	35 µg/L	8 µg/L	28 µg/L	<3U µg/L	42 µg/L	26 µg/L	14 µg/L	4 µg/L
9/14/10	30 µg/L	8 µg/L	50 µg/L	<3U µg/L	35 µg/L	29 µg/L	50 µg/L	**46 µg/L**
9/14/10[(3)]	NS	NS	NS	NS	NS	NS	<4U µg/L	<10U µg/L
10/13/10[(4)]	26 µg/L	52 µg/L	47 µg/L	8 µg/L	17 µg/L	6 µg/L	NS	NS
10/22/10	90 µg/L	10 µg/L	49 µg/L	51 µg/L	84 µg/L	7 µg/L	18 µg/L	8 µg/L
11/15/10	99 µg/L	46 µg/L	4 µg/L	41 µg/L	7 µg/L	39 µg/L	16 µg/L	7 µg/L
11/30/10	74 µg/L	79 µg/L	<3U µg/L	29 µg/L	35 µg/L	48 µg/L	16 µg/L	10 µg/L
12/13/10	82 µg/L	50 µg/L	18 µg/L	<3U µg/L	7 µg/L	<3U µg/L	15 µg/L	7 µg/L
12/29/10	118 µg/L	58 µg/L	12 µg/L	26 µg/L	18 µg/L	<3U µg/L	19 µg/L	5 µg/L

NOTE: NS = Not Sampled
NS – Ice = Not Sampled due to winter weather conditions.
Bold field sample results were in excess of SPDES discharge guidance values.
(1) DR4000 Spectrophotometer failed. Packaged and sent to the manufacturer for repairs. Sample collected and sent to TestAmerica for analysis.
(2) Sample collected and sent to TestAmerica for analysis.
(3) Confirmation sample sent to TestAmerica for analysis. Sample was ND for hexavalent and total chrome.
(4) No sample collected as there was no water due to dry conditions.
Field samples analyzed using a HACH DR4000® Spectrophotometer.
Hach Methods 8023 for Hexavalent Chromium and Hach Method 8084 for Total Chromium.

TABLE 2 SUMMARY OF QUARTERLY GCTS DISCHARGE SAMPLING 25 AUGUST AND 29 SEPTEMBER 2010, AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Parameter	25 August 2010	29 September 2010	New York State Department of Environmental Conservation Discharge Criteria
pH	7.90	NS	6-8
Total suspended solids	<10U	NS	10 mg/L
Dissolved Oxygen	8.24	NS	7 mg/L
Ammonia as N	<9.2U	<9.2U	9.2 mg/L
Total Kjeldahl nitrogen	<1.0U	NS	Monitor (mg/L)
Total Recoverable Phenolics	<0.008U	NS	.008 mg/L
Biochemical oxygen demand	<5U	NS	5.0 mg/L
1,1-Dichloroethane	<5U	NS	5.0 µg/L
Trichloroethene	<5U	NS	5.0 µg/L
Nickel	<0.07U	NS	0.07 mg/L
Copper	<0.0147U	NS	0.0147 mg/L
Barium	<2U	NS	2 mg/L
Total chromium	<0.1U	<0.1U	0.1 mg/L
Hexavalent chromium	<0.011U	<0.011U	0.011 mg/L
Iron	<0.3U	<0.3U	0.3 mg/L
Selenium	<0.0046U	<0.0046U	0.0046 mg/L
Thallium	<0.004U	<0.004U	0.004 mg/L
Zinc	<0.115U	<0.115U	0.115 mg/L
Nitrate as N	0.543	NS	Monitor (mg/L-N)
Nitrite as N	<0.05U	NS	Monitor (mg/L-N)
Chemical oxygen demand	<40U	NS	40 mg/L
Total dissolved solids	526	NS	Monitor (mg/L)

Values in bold exceeded discharge guidance values.
NS = Not Sampled. Chain of Custody Did not properly state the required Analyses.



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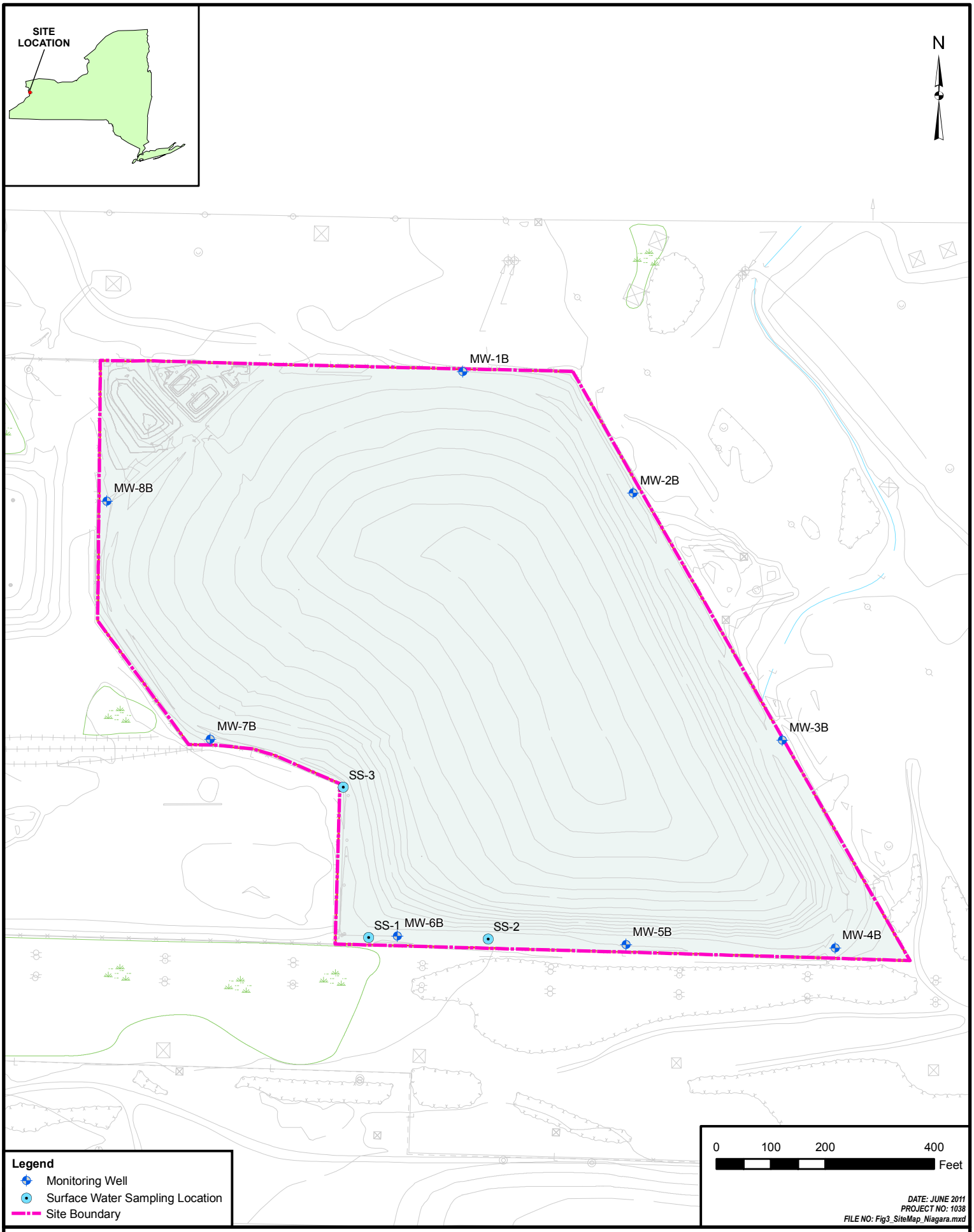
NIAGARA FALLS, NEW YORK

FIGURE 1
SITE LOCATION



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NIAGARA FALLS, NEW YORK

FIGURE 2
SITE MAP

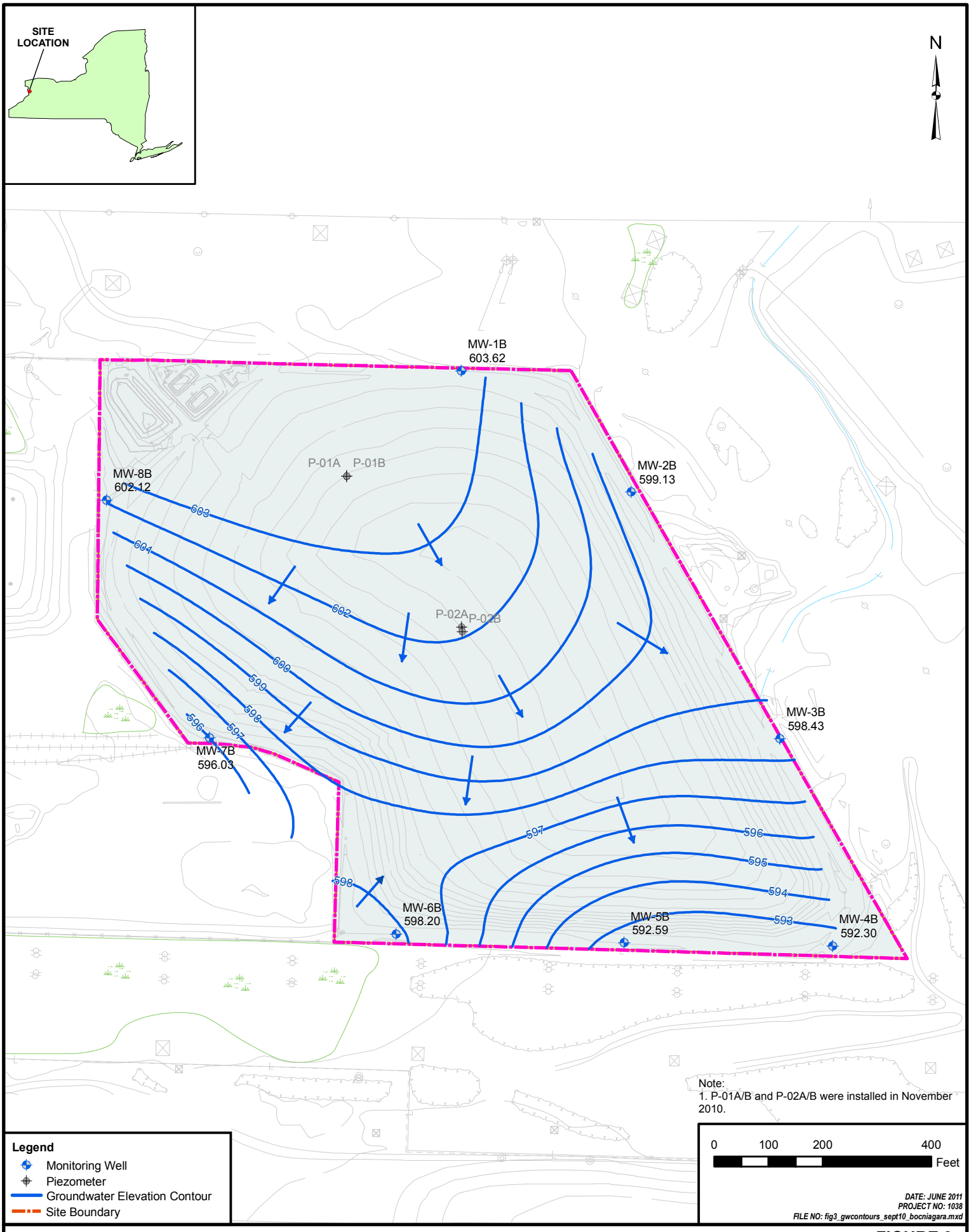

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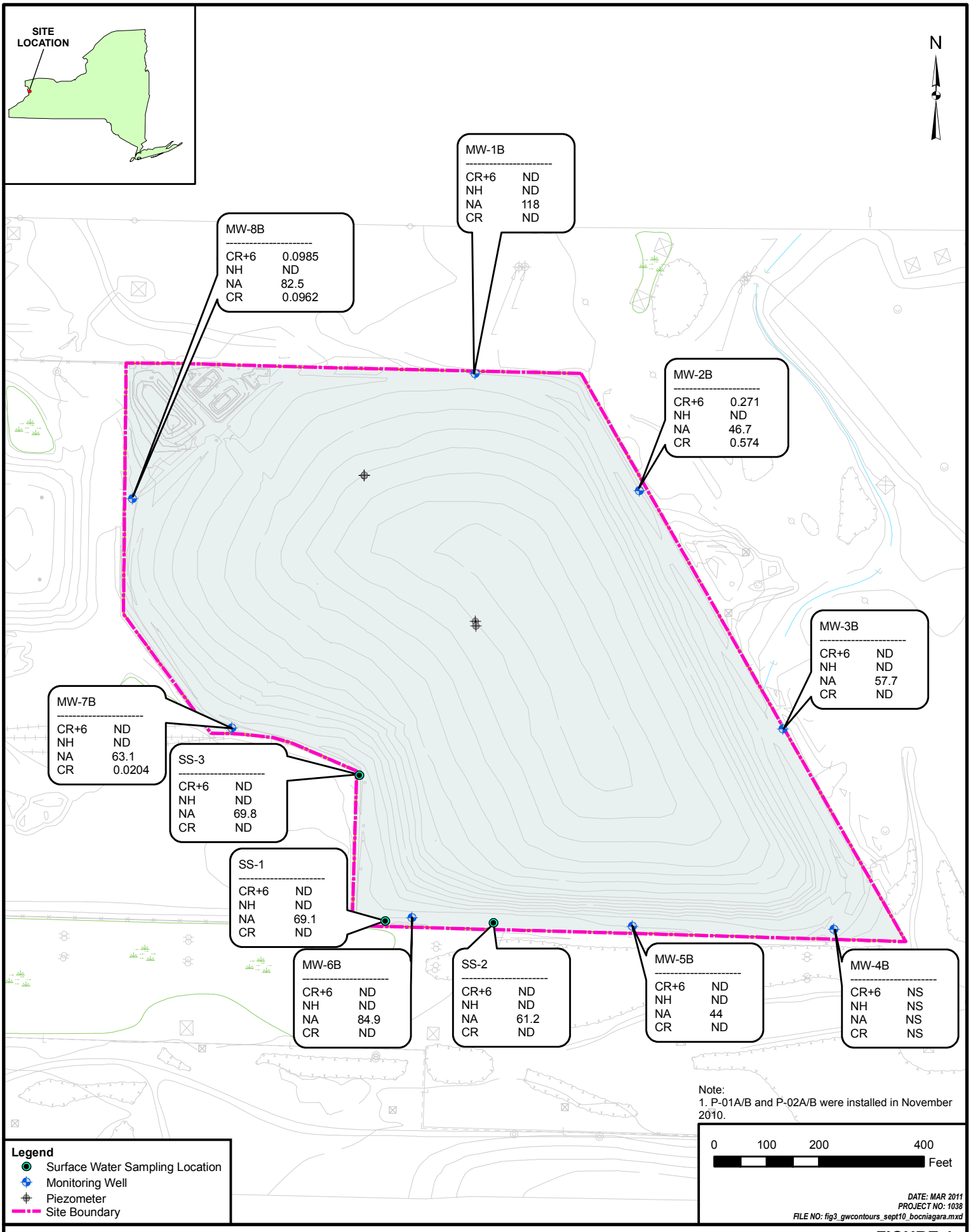
FIGURE 3
GROUNDWATER ELEVATION MAP
SEPTEMBER 2010



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NIAGARA FALLS, NEW YORK

FIGURE 4
SAMPLE RESULTS
SEPTEMBER 2010

Attachment A

Summary of Analytical Results
Groundwater and Surface Water Samples
September 2010

ATTACHMENT A
SUMMARY OF ANALYTICAL RESULTS OF SURFACE WATER AND GROUNDWATER SAMPLES COLLECTED IN SEPTEMBER 2010,
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Groundwater

Baseline Metals by EPA Method 200.7 (mg/L)

Total (Unfiltered)

		MW-1B	MW-2B	MW-2B (Dup)	MW-3B	MW-5B	MW-6B	MW-7B	MW-8B
Analyte	**AWQS**								
Cadmium	0.005	(<0.001U)	(<0.001U)	0.0011	(<0.001U)	0.001	(<0.001U)	(<0.001U)	0.0016
Chromium	0.05	(<0.004U)	**0.574**	**0.573**	(<0.004U)	0.0053	(<0.004U)	0.0204	**0.0962**
Chromium, Hexavalent	0.05	(<0.011U)	**0.271**	**0.248**	(<0.011U)	(<0.011U)	(<0.011U)	(<0.011U)	**0.0985**
Iron	0.3	0.1	**2.89**	**1.93**	(<0.05U)	**2.76**	0.155	0.189	**8.64**
Lead	0.025	(<0.005U)	0.0097	0.0076	(<0.005U)	0.0129	(<0.005U)	(<0.005U)	**0.0253**
Magnesium	35*	**61.3**	1.49	0.898	8.14	**95.4**	**78**	11.3	**80.2**
Manganese	0.3	**0.684**	0.123	0.0927	0.0064	0.119	0.152	0.049	**0.586**
Selenium	0.01	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	**0.0244**
Silica	---	6.86	1.09	0.892	7.31	11.1	6.18	8.46	27
Sodium	20	**118**	**46.7**	**45.9**	**57.7**	**44**	**84.9**	**63.1**	**82.5**
Thallium	0.0005*	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)
Zinc	2*	0.561	0.0312	0.0203	(<0.01U)	0.138	(<0.01U)	(<0.01U)	0.256

Water Quality Parameters (mg/L)

		MW-1B	MW-2B	MW-2B (Dup)	MW-3B	MW-5B	MW-6B	MW-7B	MW-8B
Analyte	**AWQS**								
Ammonia (expressed as N)	2	(<9.2U)	(<9.2U)	(<9.2U)	(<9.2U)	(<9.2U)	(<9.2U)	(<9.2U)	(<9.2U)
Phenolics	0.001	(<0.01U)	(<0.01U)	(<0.01U)	(<0.01U)	(<0.01U)	(<0.01U)	(<0.01U)	(<0.01U)
Sulfate	250	194	22.4	22.3	58.7	160	**392**	35	225

Surface Water

Baseline Metals by EPA Method 200.7 (mg/L)

Total (Unfiltered)

		SS-01	SS-02	SS-03
Analyte	**AWQS**			
Cadmium	---	(<0.001U)	(<0.001U)	(<0.001U)
Chromium	---	(<0.004U)	(<0.004U)	(<0.004U)
Chromium, Hexavalent	0.016	(<0.011U)	(<0.011U)	(<0.011U)
Iron	0.3	(<0.05U)	**0.971**	0.092
Lead	---	(<0.005U)	(<0.005U)	(<0.005U)
Magnesium	---	2.14	4.72	2.12
Manganese	---	(<0.003U)	0.592	0.0059
Selenium	0.0046	(<0.015U)	(<0.015U)	(<0.015U)
Silica	---	1.33	4.14	1.25
Sodium	---	69.1	61.2	69.8
Thallium	0.02	(<0.02U)	(<0.02U)	(<0.02U)
Zinc	---	(<0.01U)	(<0.01U)	(<0.01U)

Water Quality Parameters (mg/L)

		SS-01	SS-02	SS-03
Analyte	**AWQS**			
Ammonia (expressed as N)	---	(<9.2U)	(<9.2U)	(<9.2U)
Phenolics	---	(<0.01U)	(<0.01U)	(<0.01U)
Sulfate	---	22.5	22.1	21.3

QA/QC

Baseline Metals by EPA Method 200.7 (mg/L)

Total (Unfiltered)

		RB-01	SWB-01
Analyte	**AWQS**		
Cadmium	---	(<0.001U)	(<0.001U)
Chromium	---	(<0.004U)	(<0.004U)
Chromium, Hexavalent	---	(<0.011U)	(<0.011U)
Iron	---	(<0.05U)	(<0.05U)
Lead	---	(<0.005U)	(<0.005U)
Magnesium	---	0.925	0.875
Manganese	---	0.003	(<0.003U)
Selenium	---	(<0.015U)	(<0.015U)
Silica	---	2.28	2.32
Sodium	---	(<1U)	(<1U)
Thallium	---	(<0.02U)	(<0.02U)
Zinc	---	(<0.01U)	(<0.01U)

Water Quality Parameters (mg/L)

		RB-01	SWB-01
Analyte	**AWQS**		
Ammonia (expressed as N)	---	(<9.2U)	(<9.2U)
Phenolics	---	(<0.01U)	(<0.01U)
Sulfate	---	(<10U)	(<10U)

TABLE NOTES

AWQS	=	New York State Ambient Water Quality Standards and Guidance Values from Water Quality Regulations, Title 6, Chapter X Parts 700-706 August 1999.
*	=	Indicates guidance value.
U	=	Not detected. Sample quantitation limits shown as (<__U).

Only those analytes detected in at least one of the samples is shown on this table.
Results shaded and in boldface indicate concentrations in excess of New York State Ambient Water Quality Standards or Guidance Values.

Analytical Methods for Water Quality Parameters

Ammonia (expressed as Nitrogen)	=	EPA 350.2
Phenolics	=	EPA 420.2
Silica	=	EPA 6010
Sulfate	=	EPA 375.3

Attachment B

Well Gauging, Purging, and Sampling Forms
September 2010

GREENSTAR
Environmental Solutions, LLC

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW1B	**Personnel:** SB/NM	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Good; Locked	**Weather:** Cloudy, 66°
Sounding Method: WLI	**Gauge Date:** 9/28/2010	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 15:40	**Well Diameter (in):** 2"

Purge Date: 9/29/2010	**Purge Time:** 7:57
Purge Method: Low-Flow	**Greenstar Personnel:** SB/NM

Well Volume

A. Well Depth (ft): 27.83	**D. Well Volume (ft^3):** 0.30	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 14.15	**E. Well Volume (L)** 8.5	**Pump Type:** Peristaltic
C. Liquid Depth (ft) (A-B): 13.68		**Pump Designation:** N/A

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	Conduct. (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (° C)	ORP (mv)
8:09	14.62	1	0.20	7.05	1.51	7.1	0.00	12.55	154
8:14	14.67	2	0.20	7.08	1.50	5.6	0.00	12.35	109
8:20	14.70	3	0.20	7.09	1.52	4.8	0.00	11.84	77
8:25	14.74	4	0.20	7.13	1.51	2.9	0.00	11.77	56
8:29	14.72	5	0.20	7.10	1.51	1.9	0.00	11.78	52
8:34	14.72	6	0.20	7.07	1.51	1.3	0.00	11.80	47

Total Quantity of Water Removed: ~6L
Samplers: SB/NM
Sampling Date: 29-Sep-10
Sampling Time: 8:35
Split Sample With: N/A
Sample Type: GRAB

COMMENTS AND OBSERVATIONS: Lock lubed with WD40.

GREENSTAR
Environmental Solutions, LLC

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW2B	**Personnel:** SB/NM	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Good; Locked	**Weather:** Cloudy, 66°
Sounding Method: WLI	**Gauge Date:** 9/28/2010	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 15:50	**Well Diameter (in):** 2"

Purge Date: 9/29/2010	**Purge Time:** 9:04
Purge Method: Low-Flow	**Greenstar Personnel:** SB/NM

Well Volume

A. Well Depth (ft): 27.31	**D. Well Volume (ft^3):** 0.23	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 16.75	**E. Well Volume (L):** 6.5	**Pump Type:** Peristaltic
C. Liquid Depth (ft) (A-B): 10.56		**Pump Designation:** N/A

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	Conduct. (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (° C)	ORP (mv)
9:09	19.98	1	0.20	13.15	4.45	1.5	0.86	12.09	-108
9:14	21.30	2	0.20	13.18	4.49	3.6	0.55	12.20	-110
9:22	22.71	3	0.20	13.14	4.44	1.8	0.17	12.93	-105
9:32	23.68	4	0.20	13.14	4.47	2.3	0.26	13.24	-101
9:44	24.91	5	0.20	13.06	4.49	2.5	0.19	13.38	-99

Total Quantity of Water Removed: ~5L
Samplers: SB/NM
Sampling Date: 9/29/2010
Sampling Time: 9:45
Split Sample With: N/A
Sample Type: GRAB

COMMENTS AND OBSERVATIONS: Lock lubed with WD40.
AP-DUP-01 Collected from AP-MW-2B
***Always take DUP from AP-MW-2B

GREENSTAR
Environmental Solutions, LLC

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW3B	**Personnel:** SB/NM	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Good; Locked	**Weather:** Cloudy, 66°
Sounding Method: WLI	**Gauge Date:** 9/28/2010	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 15:55	**Well Diameter (in):** 2"

Purge Date: 9/29/2010	**Purge Time:** 10:22
Purge Method: Hand-Bail	**Greenstar Personnel:** SB/NM

Well Volume

A. Well Depth (ft): 18.41	**D. Well Volume (ft^3):** 0.12	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 12.79	**E. Well Volume (L):** 3.5	**Pump Type:** 3' Poly Bailer
C. Liquid Depth (ft) (A-B): 5.62		**Pump Designation:** N/A

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	Conduct. (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (° C)	ORP (mv)
16:00	15.32	1	-	9.40	0.344	0.2	0.57	15.81	140
16:08	Dry	7	-	9.37	0.366	4.8	1.87	14.50	-43
10:22	12.91	-	-	9.69	0.363	1.1	0.20	14.31	79

Total Quantity of Water Removed: ~7L
Samplers: SB/NM
Sampling Date: 9/29/2010
Sampling Time:
Split Sample With: N/A
Sample Type: GRAB

COMMENTS AND OBSERVATIONS: Lock lubed with WD40. Well purged dry and sampled the following day.
Replace bailer for next sampling event.

GREENSTAR
Environmental Solutions, LLC

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW4B	**Personnel:** SB/NM	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Good; Locked	**Weather:** Cloudy, 66°
Sounding Method: WLI	**Gauge Date:** 9/28/2010	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:**	**Well Diameter (in):** 2"

Purge Date: 9/28/2010	**Purge Time:** 16:18
Purge Method: Hand Bail	**Greenstar Personnel:** SB/NM

Well Volume

A. Well Depth (ft): 15.08	**D. Well Volume (ft^3):** 0.02	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 14.38	**E. Well Volume (L):** 0.4	**Pump Type:** 3' Poly Bailer
C. Liquid Depth (ft) (A-B): 0.70		**Pump Designation:** N/A

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	Conduct. (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (° C)	ORP (mv)
16:18	Dry	-	-	-	-	-	-	-	-
10:39	Dry	-	-	-	-	-	-	-	-

Total Quantity of Water Removed:
Samplers: SB/NM
Sampling Date: 9/29/2010
Sampling Time:
Split Sample With: N/A
Sample Type: GRAB

COMMENTS AND OBSERVATIONS: Lock lubed with WD40.
Not enough water to purge or record WQ parameters. Sample not taken as well was DRY.

GREENSTAR
Environmental Solutions, LLC

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW5B	**Personnel:** SB/NM	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Good; Locked	**Weather:** Cloudy, 66°
Sounding Method: WLI	**Gauge Date:** 9/28/2010	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 16:24	**Well Diameter (in):** 2"

Purge Date: 9/28/2010	**Purge Time:** 16:27
Purge Method: Hand Bail	**Greenstar Personnel:** SB/NM

Well Volume

A. Well Depth (ft): 14.22	**D. Well Volume (ft^3):** 0.03	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 12.89	**E. Well Volume (L):** 0.8	**Pump Type:** 3' Poly Bailer
C. Liquid Depth (ft) (A-B): 1.33		**Pump Designation:** N/A

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	Conduct. (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (° C)	ORP (mv)
16:27	Dry	1	-	7.23	0.953	262.0	1.16	15.92	-55

Total Quantity of Water Removed: ~1L
Samplers: SB/NM
Sampling Date: 9/29/2010
Sampling Time: 10:45
Split Sample With: N/A
Sample Type: GRAB

COMMENTS AND OBSERVATIONS: Lock lubed with WD40. Well purged dry and sampled the following day.
Wasn't adequate water to take WQ readings at time of sampling.
Replace bailer next sampling event.

GREENSTAR
Environmental Solutions, LLC

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW6B	**Personnel:** SB/NM	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Good; Locked	**Weather:** Cloudy, 66°
Sounding Method: WLI	**Gauge Date:** 9/28/2010	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 16:36	**Well Diameter (in):** 2"

Purge Date: 9/29/2010	**Purge Time:** 11:03
Purge Method: Low-Flow	**Greenstar Personnel:** SB/NM

Well Volume

A. Well Depth (ft): 23.02	**D. Well Volume (ft^3):** 0.39	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 5.27	**E. Well Volume (L):** 11.0	**Pump Type:** Peristaltic
C. Liquid Depth (ft) (A-B): 17.75		**Pump Designation:** N/A

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	Conduct. (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (° C)	ORP (mv)
11:03	7.72	1	0.20	7.63	0.98	1.4	0.00	14.88	-140
11:08	8.89	2	0.20	7.55	0.98	1.1	0.00	15.12	-122
11:13	9.95	3	0.20	7.56	0.97	0.8	0.00	15.23	-115
11:18	10.50	4	0.20	7.42	0.97	0.7	0.00	15.26	-103
11:23	11.21	5	0.20	7.49	0.97	0.7	0.00	15.54	-103
11:28	11.89	6	0.20	7.54	0.97	0.7	0.00	15.64	-105
11:33	12.40	7	0.20	7.54	0.97	0.8	0.00	15.69	-106

Total Quantity of Water Removed: ~7L
Samplers: SB/NM
Sampling Date: 9/29/2010
Sampling Time: 11:35
Split Sample With: N/A
Sample Type: GRAB

COMMENTS AND OBSERVATIONS: Lock lubed with WD40.

GREENSTAR
Environmental Solutions, LLC

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW7B	**Personnel:** SB/NM	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Good; Locked	**Weather:** Cloudy, 66°
Sounding Method: WLI	**Gauge Date:** 9/28/2010	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 16:48	**Well Diameter (in):** 2"

Purge Date: 9/29/2010	**Purge Time:** 12:30
Purge Method: Low-Flow	**Greenstar Personnel:** SB/NM

Well Volume

A. Well Depth (ft): 21.79	**D. Well Volume (ft^3):** 0.18	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 13.45	**E. Well Volume (L):** 5.2	**Pump Type:** Peristaltic
C. Liquid Depth (ft) (A-B): 8.34		**Pump Designation:** N/A

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	Conduct. (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (° C)	ORP (mv)
12:38	15.75	1	0.10	-	-	-	-	-	-
12:48	16.46	2	0.10	8.36	0.313	0.1	2.79	18.23	-72
12:58	18.30	3	0.10	8.61	0.344	74.5	0.00	15.98	-99
13:08	18.42	4	0.10	8.81	0.347	11.1	0.00	16.55	-115
13:18	18.48	5	0.10	8.57	0.345	11.1	0.00	16.58	-110
13:28	18.57	6	0.10	8.56	0.345	11.0	0.00	16.63	-111

Total Quantity of Water Removed:	~6L	**Sampling Time:**	13:30
Samplers:	SB/NM	**Split Sample With:**	N/A
Sampling Date:	9/29/2010	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Lock lubed with WD40.

Horiba malfunctioning during first reading.

GREENSTAR
Environmental Solutions, LLC

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW8B	**Personnel:** SB/NM	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Good; Locked	**Weather:** Cloudy, 66°
Sounding Method: WLI	**Gauge Date:** 9/28/2010	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 16:53	**Well Diameter (in):** 2"

Purge Date: 9/28/2010	**Purge Time:** 16:57
Purge Method: Hand Bail	**Greenstar Personnel:** SB/NM

Well Volume

A. Well Depth (ft): 15.51	**D. Well Volume (ft^3):** 0.13	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 9.50	**E. Well Volume (L):** 3.7	**Pump Type:** 3' Poly Bailer
C. Liquid Depth (ft) (A-B): 6.01		**Pump Designation:** N/A

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	Conduct. (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (° C)	ORP (mv)
16:57	12.14	1	-	7.21	1.09	337.0	4.01	14.97	174
17:05	Dry	4.5	-	-	-	-	-	-	-
14:25	9.61	-	-	7.57	1.09	59.8	5.86	15.02	173

Total Quantity of Water Removed:	~4.5L	**Sampling Time:**	
Samplers:	SB/NM	**Split Sample With:**	N/A
Sampling Date:	9/29/2010	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Lock lubed with WD40. Well purged dry and sampled the following day.

Attachment C

Chain-of-Custody Records

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL

Client Information	Sampler: Steve Bazilus	Lab PM: Peggy Gray-Erdmann	Carrier Tracking No(s):	COC No: 09272010 10:02_1
Client Contact: Charles E. McLeod, Jr.	Phone: 908-358-9768	E-Mail: peggy.gray-erdmann@testamericainc.com		Page: 1
Company: Greenstar Environmental Solutions, LLC		Parameter(s) Requested		Job #:
Address: 8 Gellatly Drive	Due Date Requested:			Preservation Codes: A=HCL, B=NaOH, C=Zn Acetate, D=Nitric Acid, E=Ice, F=MeOH, G=Amchlor, H=Ascorbic Acid, I=Ice, J=DI Water, K=EDTA, L=EDA, M=Hexane, N=None, O=AsNaO2, P=Na2O4S, Q=Na2SO3, R=Na2S2O3, S=H2SO4, T=TSP Dodecahydrate, U=Acetone, V=MCAA, W=pH 4-5, Z=Z
City: Wappinger Falls	TAT Requested (Business Days): 10			
State, Zip: NY, 12590				
Phone: (845) 223-9844	PO #: 150C265-1005-01			Container Codes: A=Amber, B=Bottle, C=Glass, D=Vial, E=Poly/Plastic, F=Summa
Email: cmcleod@greenstarsolutions.com	WO #: RT1588			
Project Name: Semi-Annual GW Monitoring - NYSA9582AE04818	Project #: Semi-Annual GW Monitoring			
Site: Airco - Niagara Falls - NYSA9582	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	HexCr	Tphenols	Ammonia	T-Metals	SO4	T-Metals (TSP)	Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				I-P	S-G	S-P	D-P	I-A	D-P		
AP-MW-DUP-01	9/29/10	N/A	G	W			1	1	1	1	1	1	6	
AP-MW-1B	9/29/10	0835	G	W			1	1	1	1	1	1	6	
AP-MW-2B	9/29/10	0945	G	W			1	1	1	1	1	1	6	
AP-MW-3B	9/29/10	1020	G	W			1	1	1	1	1	1	6	
~~AP-MW-4B~~			G	W			1	1	1	1	1	1	6	NOT SAMPLED
AP-MW-5B	9/29/10	1045	G	W			1	1	1	1	1	1	6	Limited Volume in 2 HNO3 Bottles
AP-MW-6B	9/29/10	1135	G	W			1	1	1	1	1	1	6	
AP-MW-7B	9/29/10	1330	G	W			1	1	1	1	1	1	6	
AP-MW-8B	9/29/10	1425	G	W			1	1	1	1	1	1	6	
AP-RB-01	9/29/10	1500	G	W			1	1	1	1	1	1	6	
AP-SS-01	9/29/10	1100	G	W			1	1	1	1	1	1	6	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): [ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	9/29/10 1730	GES	[signature]	9/29/10 1730	TAL
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: [ ] Yes [ ] No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.4°C

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

VA-4124-1007

Client: Greenstar Environmental

Project Manager:

Date: 7/8/10

Chain of Custody Number: 159639

Address: 6 Gellatly Dr.

Telephone Number (Area Code)/Fax Number: (845) 223-9944

Lab Number:

Page 1 of 1

City: Wappingers Falls | State: NY | Zip Code: 12590

Site Contact: Chip McLeod | Lab Contact:

Project Name and Location (State): Airco Parcel

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	$ZnAc/NaOH$	8 CR + 6 Total Chrom
T-3B SW corner (AP-SS-01)	7/8/10	16:40		1		1	1						1

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	7/8/10	17:20	1. Received By	7/8/10	1720
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments:

15.0°C, ND ICE

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

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Greenstar Environmental		7-19-10	159640
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page**
6 Gellatly Dr.	(845) 223-9944		Page 1 of 1
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	**Analysis (Attach list if more space is needed)**
Wappingers Falls NY / 12590	Chip McLeod		
Project Name and Location (State)	**Carrier/Waybill Number**		
Airco Parcel Niagara Falls N.Y.			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Water	Soil	Sed	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	CR+6	Total chrom	Pb	Special Instructions/ Conditions of Receipt
T-3B	7-19-10	11:00		X			X						X	X	X	
AP_SS-01	7-19-10	11:00		X			X						X	X	X	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	7-19	12:17	1. Received By	7/19/10	1217
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

16.0°C, NO ICE

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

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Greenstar Environmental	Project Manager	Date	Chain of Custody Number: 125500
Address: 6 Gellatly Dr.	Telephone Number (Area Code)/Fax Number: (845) 223-9944	Lab Number	Page _____ of _____
City: Wappingers Falls / State: NY / Zip Code: 12590	Site Contact: Chip McLeod / Lab Contact	Analysis (Attach list if more space is needed)	
Project Name and Location (State): Airco Parcel	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Cr+6	Total Chrom	Special Instructions/ Conditions of Receipt
[redacted] AP-SS-01	9-14-10	18:30		X									X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	9-14-10	19:15	1. Received By	9.14.10	1915
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

8.0 °C

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Steve Bazilus	Lab PM: Peggy Gray-Erdmann	Carrier Tracking No(s):	COC No: 09272010 10:02_2
Client Contact: Charles E. McLeod, Jr	Phone: 908-358-9768	E-Mail: peggy.gray-erdmann@testamericainc.com		Page: 2
Company: Greenstar Environmental Solutions, LLC				Job #:
Address: 6 Gellatly Drive	Due Date Requested:			
City: Wappinger Falls	TAT Requested (Business Days): 10			
State, Zip: NY, 12590				
Phone: (845) 223-9944	PO #: 150C265-1005-01			
Email: cmcleod@greenstarsolutions.com	WO #: RTI1588			
Project Name: Semi-Annual GW Monitoring - NY5A9582AE04818	Project #: Semi-Annual GW Monitoring			
Site: Airco - Niagara Falls - NY5A9582	SSOW#:			

Parameter(s) Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Hex Cr	Tphenols	Ammonia	T-Metals	SO4	T-Metals (TSI)	Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				I-P	S-G	S-P	D-P	I-A	D-P		
AP-SS-02	9/29/10	1110	G	W			1	1	1	1	1	1	6	
AP-SS-03	9/29/10	1200	G	W			1	1	1	1	1	1	6	
AP-SWB-01	9/29/10	1445	G	W			1	1	1	1	1	1	6	

Preservation Codes:
A=HCL Z=Z
B=NaOH
C=Zn Acetate
D=Nitric Acid
E=Ice
N=None
S=H2SO4
V=MCAA

Container Codes:
A=Amber T=Tedlar
G=Glass V=Vial
P=Poly/Plastic
S=Summa

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/29/10 1730	GES		9/29/10 1730	TMC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2 @ 3.4°

Attachment D

Laboratory Analytical Results for Groundwater and Surface Water Sampling September 2010

Analytical Report

Work Order: RTI1732

Project Description

Semi-Annual GW Monitoring

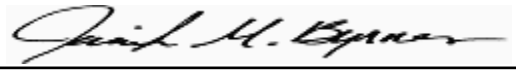
For:

Charles E. McLeod, Jr.

Greenstar Environmental Solutions, LLC

6 Gellatly Drive

Wappinger Falls, NY 12590



Jennifer Byrnes For Peggy Gray-Erdmann

Project Manager

jennifer.byrnes@testamericainc.com

Friday, October 15, 2010

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
Reported: 10/15/10 16:06

TestAmerica Buffalo
Current Certifications

As of 08/16/2010

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA	10026
North Dakota	CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Oregon*	CWA,RCRA	NY200003
Pennsylvania*	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington*	NELAP CWA,RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA,RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parame ters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
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CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

There are pertinent documents appended to this report, 29 pages, are included and are an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
Reported: 10/15/10 16:06

DATA QUALIFIERS AND DEFINITIONS

B	Compound was found in the blank and sample.
CF6	Results confirmed by reanalysis.
D08	Dilution required due to high concentration of target analyte(s)
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
M11	The MS and/or MSD were above the acceptance limits.
MHA	Due to high levels of analyte in the sample, the MS and /or MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
Reported: 10/15/10 16:06

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-01 (AP-MW-DUP-01 - Water)					**Sampled: 09/29/10**			**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Cadmium	**0.0011**		0.0010	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
Chromium	**0.573**		0.0040	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
Iron	**1.93**		0.050	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
Lead	**0.0076**		0.0050	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
Magnesium	**0.898**		0.200	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
Manganese	**0.0927**		0.0030	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
Sodium	**45.9**		1.0	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
Zinc	**0.0203**		0.0100	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
General Chemistry Parameters										
Chromium, Hexavalent	**248**		11.0	NR	ug/L	1.00	09/29/10 20:00	JFR	10I2180	7196A
Anions by EPA Method 300.0										
Sulfate	**22.3**		10.0	NR	mg/L	1.00	09/30/10 15:34	RMM	10I2214	300
Metals (ICP)										
Silicon	**892**	B	100	8.1	ug/L	1.00	10/13/10 23:08	BAA	7872	6010B RTN
Sample ID: RTI1732-02 (AP-MW-1B - Water)					**Sampled: 09/29/10 08:35**			**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Iron	**0.100**		0.050	NR	mg/L	1.00	09/30/10 21:19	AMH	10I2189	200.7
Magnesium	**61.3**		0.200	NR	mg/L	1.00	09/30/10 21:19	AMH	10I2189	200.7
Manganese	**0.684**		0.0030	NR	mg/L	1.00	09/30/10 21:19	AMH	10I2189	200.7
Sodium	**118**		1.0	NR	mg/L	1.00	09/30/10 21:19	AMH	10I2189	200.7
Zinc	**0.561**		0.0100	NR	mg/L	1.00	09/30/10 21:19	AMH	10I2189	200.7
Anions by EPA Method 300.0										
Sulfate	**194**	D08	10.0	NR	mg/L	5.00	09/30/10 15:45	RMM	10I2214	300
Metals (ICP)										
Silicon	**6860**	B	100	8.1	ug/L	1.00	10/13/10 23:16	BAA	7872	6010B RTN
Sample ID: RTI1732-03 (AP-MW-2B - Water)					**Sampled: 09/29/10 09:45**			**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Chromium	**0.574**		0.0040	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
Iron	**2.89**	CF6	0.050	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
Lead	**0.0097**	CF6	0.0050	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
Magnesium	**1.49**	CF6	0.200	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
Manganese	**0.123**	CF6	0.0030	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
Sodium	**46.7**		1.0	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
Zinc	**0.0312**	CF6	0.0100	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
General Chemistry Parameters										
Chromium, Hexavalent	**271**		11.0	NR	ug/L	1.00	09/29/10 20:00	JFR	10I2180	7196A
Anions by EPA Method 300.0										

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
Reported: 10/15/10 16:06

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-03 (AP-MW-2B - Water) - cont.						**Sampled: 09/29/10 09:45**		**Recvd: 09/29/10 17:30**		
Anions by EPA Method 300.0 - cont.										
Sulfate	**22.4**		10.0	NR	mg/L	1.00	09/30/10 16:35	RMM	10I2215	300
Metals (ICP)										
Silicon	**1090**	B	100	8.1	ug/L	1.00	10/13/10 23:19	BAA	7872	6010B RTN
Sample ID: RTI1732-04 (AP-MW-3B - Water)						**Sampled: 09/29/10 10:20**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Magnesium	**8.14**		0.200	NR	mg/L	1.00	09/30/10 21:37	AMH	10I2189	200.7
Manganese	**0.0064**		0.0030	NR	mg/L	1.00	09/30/10 21:37	AMH	10I2189	200.7
Sodium	**57.7**		1.0	NR	mg/L	1.00	09/30/10 21:37	AMH	10I2189	200.7
Anions by EPA Method 300.0										
Sulfate	**58.7**		10.0	NR	mg/L	1.00	09/30/10 16:45	RMM	10I2215	300
Metals (ICP)										
Silicon	**7310**	B	100	8.1	ug/L	1.00	10/13/10 23:23	BAA	7872	6010B RTN
Sample ID: RTI1732-05 (AP-MW-5B - Water)						**Sampled: 09/29/10 10:45**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Cadmium	**0.0010**		0.0010	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Chromium	**0.0053**		0.0040	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Iron	**2.76**	CF6	0.050	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Lead	**0.0129**	CF6	0.0050	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Magnesium	**95.4**		0.200	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Manganese	**0.119**	CF6	0.0030	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Sodium	**44.0**		1.0	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Zinc	**0.138**		0.0100	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Anions by EPA Method 300.0										
Sulfate	**160**	D08	10.0	NR	mg/L	2.00	09/30/10 16:55	RMM	10I2215	300
Metals (ICP)										
Silicon	**11100**	B	100	8.1	ug/L	1.00	10/13/10 23:27	BAA	7872	6010B RTN
Sample ID: RTI1732-06 (AP-MW-6B - Water)						**Sampled: 09/29/10 11:35**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Iron	**0.155**		0.050	NR	mg/L	1.00	09/30/10 21:41	AMH	10I2189	200.7
Magnesium	**78.0**		0.200	NR	mg/L	1.00	09/30/10 21:41	AMH	10I2189	200.7
Manganese	**0.152**		0.0030	NR	mg/L	1.00	09/30/10 21:41	AMH	10I2189	200.7
Sodium	**84.9**		1.0	NR	mg/L	1.00	09/30/10 21:41	AMH	10I2189	200.7
Anions by EPA Method 300.0										
Sulfate	**392**	D08	10.0	NR	mg/L	5.00	09/30/10 17:06	RMM	10I2215	300
Metals (ICP)										
Silicon	**6180**	B	100	8.1	ug/L	1.00	10/13/10 23:31	BAA	7872	6010B RTN

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
Reported: 10/15/10 16:06

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-07 (AP-MW-7B - Water)					**Sampled: 09/29/10 13:30**			**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Chromium	**0.0204**		0.0040	NR	mg/L	1.00	09/30/10 21:43	AMH	10I2189	200.7
Iron	**0.189**		0.050	NR	mg/L	1.00	09/30/10 21:43	AMH	10I2189	200.7
Magnesium	**11.3**		0.200	NR	mg/L	1.00	09/30/10 21:43	AMH	10I2189	200.7
Manganese	**0.0490**		0.0030	NR	mg/L	1.00	09/30/10 21:43	AMH	10I2189	200.7
Sodium	**63.1**		1.0	NR	mg/L	1.00	09/30/10 21:43	AMH	10I2189	200.7
Anions by EPA Method 300.0										
Sulfate	**35.0**		10.0	NR	mg/L	1.00	09/30/10 17:16	RMM	10I2215	300
Metals (ICP)										
Silicon	**8460**	B	100	8.1	ug/L	1.00	10/13/10 23:35	BAA	7872	6010B RTN
Sample ID: RTI1732-08 (AP-MW-8B - Water)					**Sampled: 09/29/10 14:25**			**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Cadmium	**0.0016**		0.0010	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Chromium	**0.0962**		0.0040	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Iron	**8.64**		0.050	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Lead	**0.0253**		0.0050	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Magnesium	**80.2**		0.200	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Manganese	**0.586**		0.0030	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Selenium	**0.0244**		0.0150	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Sodium	**82.5**		1.0	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Zinc	**0.256**		0.0100	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
General Chemistry Parameters										
Chromium, Hexavalent	**98.5**		11.0	NR	ug/L	1.00	09/29/10 20:00	JFR	10I2180	7196A
Anions by EPA Method 300.0										
Sulfate	**225**	D08	10.0	NR	mg/L	5.00	09/30/10 17:26	RMM	10I2215	300
Metals (ICP)										
Silicon	**27000**	B	100	8.1	ug/L	1.00	10/13/10 23:47	BAA	7872	6010B RTN
Sample ID: RTI1732-09 (AP-RB-01 - Water)					**Sampled: 09/29/10 15:00**			**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Magnesium	**0.925**		0.200	NR	mg/L	1.00	09/30/10 21:48	AMH	10I2189	200.7
Manganese	**0.0030**		0.0030	NR	mg/L	1.00	09/30/10 21:48	AMH	10I2189	200.7
Metals (ICP)										
Silicon	**2280**	B	100	8.1	ug/L	1.00	10/13/10 23:51	BAA	7872	6010B RTN
Sample ID: RTI1732-10 (AP-SS-01 - Water)					**Sampled: 09/29/10 11:00**			**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Magnesium	**2.14**		0.200	NR	mg/L	1.00	09/30/10 21:50	AMH	10I2189	200.7
Sodium	**69.1**		1.0	NR	mg/L	1.00	09/30/10 21:50	AMH	10I2189	200.7

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
Reported: 10/15/10 16:06

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-10 (AP-SS-01 - Water) - cont.						**Sampled: 09/29/10 11:00**		**Recvd: 09/29/10 17:30**		
Anions by EPA Method 300.0										
Sulfate	**22.5**		10.0	NR	mg/L	1.00	09/30/10 17:46	RMM	10I2215	300
Metals (ICP)										
Silicon	**1330**	B	100	8.1	ug/L	1.00	10/13/10 23:55	BAA	7872	6010B RTN
Sample ID: RTI1732-11 (AP-SS-02 - Water)						**Sampled: 09/29/10 11:10**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Iron	**0.971**	CF6	0.050	NR	mg/L	1.00	09/30/10 21:52	AMH	10I2189	200.7
Magnesium	**4.72**		0.200	NR	mg/L	1.00	09/30/10 21:52	AMH	10I2189	200.7
Manganese	**0.592**	CF6	0.0030	NR	mg/L	1.00	09/30/10 21:52	AMH	10I2189	200.7
Sodium	**61.2**		1.0	NR	mg/L	1.00	09/30/10 21:52	AMH	10I2189	200.7
Anions by EPA Method 300.0										
Sulfate	**22.1**		10.0	NR	mg/L	1.00	09/30/10 17:56	RMM	10I2215	300
Metals (ICP)										
Silicon	**4140**	B	100	8.1	ug/L	1.00	10/13/10 23:59	BAA	7872	6010B RTN
Sample ID: RTI1732-12 (AP-SS-03 - Water)						**Sampled: 09/29/10 12:00**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Iron	**0.092**	CF6	0.050	NR	mg/L	1.00	09/30/10 21:54	AMH	10I2189	200.7
Magnesium	**2.12**		0.200	NR	mg/L	1.00	09/30/10 21:54	AMH	10I2189	200.7
Manganese	**0.0059**		0.0030	NR	mg/L	1.00	09/30/10 21:54	AMH	10I2189	200.7
Sodium	**69.8**		1.0	NR	mg/L	1.00	09/30/10 21:54	AMH	10I2189	200.7
Anions by EPA Method 300.0										
Sulfate	**21.3**		10.0	NR	mg/L	1.00	09/30/10 18:37	RMM	10I2215	300
Metals (ICP)										
Silicon	**1250**	B	100	8.1	ug/L	1.00	10/14/10 00:03	BAA	7872	6010B RTN
Sample ID: RTI1732-13 (AP-SWB-01 - Water)						**Sampled: 09/29/10 14:45**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Magnesium	**0.875**		0.200	NR	mg/L	1.00	09/30/10 22:00	AMH	10I2189	200.7
Metals (ICP)										
Silicon	**2320**	B	100	8.1	ug/L	1.00	10/14/10 00:07	BAA	7872	6010B RTN

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Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
Reported: 10/15/10 16:06

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
AP-MW-DUP-01	RTI1732-01	Water	09/29/10	09/29/10 17:30	
AP-MW-1B	RTI1732-02	Water	09/29/10 08:35	09/29/10 17:30	
AP-MW-2B	RTI1732-03	Water	09/29/10 09:45	09/29/10 17:30	
AP-MW-3B	RTI1732-04	Water	09/29/10 10:20	09/29/10 17:30	
AP-MW-5B	RTI1732-05	Water	09/29/10 10:45	09/29/10 17:30	
AP-MW-6B	RTI1732-06	Water	09/29/10 11:35	09/29/10 17:30	
AP-MW-7B	RTI1732-07	Water	09/29/10 13:30	09/29/10 17:30	
AP-MW-8B	RTI1732-08	Water	09/29/10 14:25	09/29/10 17:30	
AP-RB-01	RTI1732-09	Water	09/29/10 15:00	09/29/10 17:30	
AP-SS-01	RTI1732-10	Water	09/29/10 11:00	09/29/10 17:30	
AP-SS-02	RTI1732-11	Water	09/29/10 11:10	09/29/10 17:30	
AP-SS-03	RTI1732-12	Water	09/29/10 12:00	09/29/10 17:30	
AP-SWB-01	RTI1732-13	Water	09/29/10 14:45	09/29/10 17:30	

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-01 (AP-MW-DUP-01 - Water)						**Sampled: 09/29/10**			**Recvd: 09/29/10 17:30**	
Total Metals by EPA 200 Series Methods										
Cadmium	**0.0011**		0.0010	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
Chromium	**0.573**		0.0040	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
Iron	**1.93**		0.050	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
Lead	**0.0076**		0.0050	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
Magnesium	**0.898**		0.200	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
Manganese	**0.0927**		0.0030	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
Sodium	**45.9**		1.0	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
Zinc	**0.0203**		0.0100	NR	mg/L	1.00	09/30/10 21:17	AMH	10I2189	200.7
General Chemistry Parameters										
Ammonia as N	ND	D08	9.20	NR	mg/L as N	5.00	09/30/10 12:31	jmm	10I2198	350.1
Chromium, Hexavalent	**248**		11.0	NR	ug/L	1.00	09/29/10 20:00	JFR	10I2180	7196A
Phenolics, Total Recoverable	ND		10.0	NR	ug/L	1.00	10/08/10 11:22	KLD	10J0483	420.4
Anions by EPA Method 300.0										
Sulfate	**22.3**		10.0	NR	mg/L	1.00	09/30/10 15:34	RMM	10I2214	300
Metals (ICP)										
Silicon	**892**	B	100	8.1	ug/L	1.00	10/13/10 23:08	BAA	7872	6010B RTN

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-02 (AP-MW-1B - Water)						**Sampled: 09/29/10 08:35**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	09/30/10 21:19	AMH	10I2189	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	09/30/10 21:19	AMH	10I2189	200.7
Iron	**0.100**		0.050	NR	mg/L	1.00	09/30/10 21:19	AMH	10I2189	200.7
Lead	ND		0.0050	NR	mg/L	1.00	09/30/10 21:19	AMH	10I2189	200.7
Magnesium	**61.3**		0.200	NR	mg/L	1.00	09/30/10 21:19	AMH	10I2189	200.7
Manganese	**0.684**		0.0030	NR	mg/L	1.00	09/30/10 21:19	AMH	10I2189	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	09/30/10 21:19	AMH	10I2189	200.7
Sodium	**118**		1.0	NR	mg/L	1.00	09/30/10 21:19	AMH	10I2189	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	09/30/10 21:19	AMH	10I2189	200.7
Zinc	**0.561**		0.0100	NR	mg/L	1.00	09/30/10 21:19	AMH	10I2189	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	09/30/10 11:50	jmm	10I2198	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	09/29/10 20:00	JFR	10I2180	7196A
Phenolics, Total Recoverable	ND		10.0	NR	ug/L	1.00	10/06/10 14:25	KLD	10J0384	420.4
Anions by EPA Method 300.0										
Sulfate	**194**	D08	10.0	NR	mg/L	5.00	09/30/10 15:45	RMM	10I2214	300
Metals (ICP)										
Silicon	**6860**	B	100	8.1	ug/L	1.00	10/13/10 23:16	BAA	7872	6010B RTN

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-03 (AP-MW-2B - Water)						**Sampled: 09/29/10 09:45**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
Chromium	**0.574**		0.0040	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
Iron	**2.89**	CF6	0.050	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
Lead	**0.0097**	CF6	0.0050	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
Magnesium	**1.49**	CF6	0.200	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
Manganese	**0.123**	CF6	0.0030	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
Sodium	**46.7**		1.0	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
Zinc	**0.0312**	CF6	0.0100	NR	mg/L	1.00	09/30/10 21:22	AMH	10I2189	200.7
General Chemistry Parameters										
Ammonia as N	ND	D08	9.20	NR	mg/L as N	5.00	09/30/10 12:32	jmm	10I2198	350.1
Chromium, Hexavalent	**271**		11.0	NR	ug/L	1.00	09/29/10 20:00	JFR	10I2180	7196A
Phenolics, Total Recoverable	ND		10.0	NR	ug/L	1.00	10/08/10 11:22	KLD	10J0483	420.4
Anions by EPA Method 300.0										
Sulfate	**22.4**		10.0	NR	mg/L	1.00	09/30/10 16:35	RMM	10I2215	300
Metals (ICP)										
Silicon	**1090**	B	100	8.1	ug/L	1.00	10/13/10 23:19	BAA	7872	6010B RTN

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-04 (AP-MW-3B - Water)						**Sampled: 09/29/10 10:20**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	09/30/10 21:37	AMH	10I2189	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	09/30/10 21:37	AMH	10I2189	200.7
Iron	ND		0.050	NR	mg/L	1.00	09/30/10 21:37	AMH	10I2189	200.7
Lead	ND		0.0050	NR	mg/L	1.00	09/30/10 21:37	AMH	10I2189	200.7
Magnesium	**8.14**		0.200	NR	mg/L	1.00	09/30/10 21:37	AMH	10I2189	200.7
Manganese	**0.0064**		0.0030	NR	mg/L	1.00	09/30/10 21:37	AMH	10I2189	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	09/30/10 21:37	AMH	10I2189	200.7
Sodium	**57.7**		1.0	NR	mg/L	1.00	09/30/10 21:37	AMH	10I2189	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	09/30/10 21:37	AMH	10I2189	200.7
Zinc	ND		0.0100	NR	mg/L	1.00	09/30/10 21:37	AMH	10I2189	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	09/30/10 11:52	jmm	10I2198	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	09/29/10 20:00	JFR	10I2180	7196A
Phenolics, Total Recoverable	ND		10.0	NR	ug/L	1.00	10/06/10 14:25	KLD	10J0384	420.4
Anions by EPA Method 300.0										
Sulfate	**58.7**		10.0	NR	mg/L	1.00	09/30/10 16:45	RMM	10I2215	300
Metals (ICP)										
Silicon	**7310**	B	100	8.1	ug/L	1.00	10/13/10 23:23	BAA	7872	6010B RTN

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-05 (AP-MW-5B - Water)						**Sampled: 09/29/10 10:45**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Cadmium	**0.0010**		0.0010	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Chromium	**0.0053**		0.0040	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Iron	**2.76**	CF6	0.050	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Lead	**0.0129**	CF6	0.0050	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Magnesium	**95.4**		0.200	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Manganese	**0.119**	CF6	0.0030	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Sodium	**44.0**		1.0	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
Zinc	**0.138**		0.0100	NR	mg/L	1.00	09/30/10 21:39	AMH	10I2189	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	09/30/10 11:55	jmm	10I2198	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	09/29/10 20:00	JFR	10I2180	7196A
Phenolics, Total Recoverable	ND		10.0	NR	ug/L	1.00	10/08/10 11:09	KLD	10J0463	420.4
Anions by EPA Method 300.0										
Sulfate	**160**	D08	10.0	NR	mg/L	2.00	09/30/10 16:55	RMM	10I2215	300
Metals (ICP)										
Silicon	**11100**	B	100	8.1	ug/L	1.00	10/13/10 23:27	BAA	7872	6010B RTN

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-06 (AP-MW-6B - Water)						**Sampled: 09/29/10 11:35**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	09/30/10 21:41	AMH	10I2189	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	09/30/10 21:41	AMH	10I2189	200.7
Iron	**0.155**		0.050	NR	mg/L	1.00	09/30/10 21:41	AMH	10I2189	200.7
Lead	ND		0.0050	NR	mg/L	1.00	09/30/10 21:41	AMH	10I2189	200.7
Magnesium	**78.0**		0.200	NR	mg/L	1.00	09/30/10 21:41	AMH	10I2189	200.7
Manganese	**0.152**		0.0030	NR	mg/L	1.00	09/30/10 21:41	AMH	10I2189	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	09/30/10 21:41	AMH	10I2189	200.7
Sodium	**84.9**		1.0	NR	mg/L	1.00	09/30/10 21:41	AMH	10I2189	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	09/30/10 21:41	AMH	10I2189	200.7
Zinc	ND		0.0100	NR	mg/L	1.00	09/30/10 21:41	AMH	10I2189	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	09/30/10 11:56	jmm	10I2198	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	09/29/10 20:00	JFR	10I2180	7196A
Phenolics, Total Recoverable	ND		10.0	NR	ug/L	1.00	10/08/10 11:09	KLD	10J0463	420.4
Anions by EPA Method 300.0										
Sulfate	**392**	D08	10.0	NR	mg/L	5.00	09/30/10 17:06	RMM	10I2215	300
Metals (ICP)										
Silicon	**6180**	B	100	8.1	ug/L	1.00	10/13/10 23:31	BAA	7872	6010B RTN

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Project: Semi-Annual GW Monitoring
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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-07 (AP-MW-7B - Water)						**Sampled: 09/29/10 13:30**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	09/30/10 21:43	AMH	10I2189	200.7
Chromium	**0.0204**		0.0040	NR	mg/L	1.00	09/30/10 21:43	AMH	10I2189	200.7
Iron	**0.189**		0.050	NR	mg/L	1.00	09/30/10 21:43	AMH	10I2189	200.7
Lead	ND		0.0050	NR	mg/L	1.00	09/30/10 21:43	AMH	10I2189	200.7
Magnesium	**11.3**		0.200	NR	mg/L	1.00	09/30/10 21:43	AMH	10I2189	200.7
Manganese	**0.0490**		0.0030	NR	mg/L	1.00	09/30/10 21:43	AMH	10I2189	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	09/30/10 21:43	AMH	10I2189	200.7
Sodium	**63.1**		1.0	NR	mg/L	1.00	09/30/10 21:43	AMH	10I2189	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	09/30/10 21:43	AMH	10I2189	200.7
Zinc	ND		0.0100	NR	mg/L	1.00	09/30/10 21:43	AMH	10I2189	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	09/30/10 11:57	jmm	10I2198	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	09/29/10 20:00	JFR	10I2180	7196A
Phenolics, Total Recoverable	ND		10.0	NR	ug/L	1.00	10/08/10 11:09	KLD	10J0463	420.4
Anions by EPA Method 300.0										
Sulfate	**35.0**		10.0	NR	mg/L	1.00	09/30/10 17:16	RMM	10I2215	300
Metals (ICP)										
Silicon	**8460**	B	100	8.1	ug/L	1.00	10/13/10 23:35	BAA	7872	6010B RTN

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-08 (AP-MW-8B - Water)						**Sampled: 09/29/10 14:25**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Cadmium	**0.0016**		0.0010	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Chromium	**0.0962**		0.0040	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Iron	**8.64**		0.050	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Lead	**0.0253**		0.0050	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Magnesium	**80.2**		0.200	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Manganese	**0.586**		0.0030	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Selenium	**0.0244**		0.0150	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Sodium	**82.5**		1.0	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
Zinc	**0.256**		0.0100	NR	mg/L	1.00	09/30/10 21:45	AMH	10I2189	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	09/30/10 11:58	jmm	10I2198	350.1
Chromium, Hexavalent	**98.5**		11.0	NR	ug/L	1.00	09/29/10 20:00	JFR	10I2180	7196A
Phenolics, Total Recoverable	ND		10.0	NR	ug/L	1.00	10/08/10 11:09	KLD	10J0463	420.4
Anions by EPA Method 300.0										
Sulfate	**225**	D08	10.0	NR	mg/L	5.00	09/30/10 17:26	RMM	10I2215	300
Metals (ICP)										
Silicon	**27000**	B	100	8.1	ug/L	1.00	10/13/10 23:47	BAA	7872	6010B RTN

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
Reported: 10/15/10 16:06

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-09 (AP-RB-01 - Water)						**Sampled: 09/29/10 15:00**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	09/30/10 21:48	AMH	10I2189	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	09/30/10 21:48	AMH	10I2189	200.7
Iron	ND		0.050	NR	mg/L	1.00	09/30/10 21:48	AMH	10I2189	200.7
Lead	ND		0.0050	NR	mg/L	1.00	09/30/10 21:48	AMH	10I2189	200.7
Magnesium	**0.925**		0.200	NR	mg/L	1.00	09/30/10 21:48	AMH	10I2189	200.7
Manganese	**0.0030**		0.0030	NR	mg/L	1.00	09/30/10 21:48	AMH	10I2189	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	09/30/10 21:48	AMH	10I2189	200.7
Sodium	ND		1.0	NR	mg/L	1.00	09/30/10 21:48	AMH	10I2189	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	09/30/10 21:48	AMH	10I2189	200.7
Zinc	ND		0.0100	NR	mg/L	1.00	09/30/10 21:48	AMH	10I2189	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	09/30/10 11:59	jmm	10I2198	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	09/29/10 20:00	JFR	10I2180	7196A
Phenolics, Total Recoverable	ND		10.0	NR	ug/L	1.00	10/08/10 11:09	KLD	10J0463	420.4
Anions by EPA Method 300.0										
Sulfate	ND		10.0	NR	mg/L	1.00	09/30/10 17:36	RMM	10I2215	300
Metals (ICP)										
Silicon	**2280**	B	100	8.1	ug/L	1.00	10/13/10 23:51	BAA	7872	6010B RTN

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Work Order: RTI1732

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Project Number: GES

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-10 (AP-SS-01 - Water)						**Sampled: 09/29/10 11:00**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	09/30/10 21:50	AMH	10I2189	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	09/30/10 21:50	AMH	10I2189	200.7
Iron	ND		0.050	NR	mg/L	1.00	09/30/10 21:50	AMH	10I2189	200.7
Lead	ND		0.0050	NR	mg/L	1.00	09/30/10 21:50	AMH	10I2189	200.7
Magnesium	**2.14**		0.200	NR	mg/L	1.00	09/30/10 21:50	AMH	10I2189	200.7
Manganese	ND		0.0030	NR	mg/L	1.00	09/30/10 21:50	AMH	10I2189	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	09/30/10 21:50	AMH	10I2189	200.7
Sodium	**69.1**		1.0	NR	mg/L	1.00	09/30/10 21:50	AMH	10I2189	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	09/30/10 21:50	AMH	10I2189	200.7
Zinc	ND		0.0100	NR	mg/L	1.00	09/30/10 21:50	AMH	10I2189	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	09/30/10 12:00	jmm	10I2198	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	09/29/10 20:00	JFR	10I2180	7196A
Phenolics, Total Recoverable	ND		10.0	NR	ug/L	1.00	10/08/10 11:09	KLD	10J0463	420.4
Anions by EPA Method 300.0										
Sulfate	**22.5**		10.0	NR	mg/L	1.00	09/30/10 17:46	RMM	10I2215	300
Metals (ICP)										
Silicon	**1330**	B	100	8.1	ug/L	1.00	10/13/10 23:55	BAA	7872	6010B RTN

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Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-11 (AP-SS-02 - Water)						**Sampled: 09/29/10 11:10**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	09/30/10 21:52	AMH	10I2189	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	09/30/10 21:52	AMH	10I2189	200.7
Iron	**0.971**	CF6	0.050	NR	mg/L	1.00	09/30/10 21:52	AMH	10I2189	200.7
Lead	ND		0.0050	NR	mg/L	1.00	09/30/10 21:52	AMH	10I2189	200.7
Magnesium	**4.72**		0.200	NR	mg/L	1.00	09/30/10 21:52	AMH	10I2189	200.7
Manganese	**0.592**	CF6	0.0030	NR	mg/L	1.00	09/30/10 21:52	AMH	10I2189	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	09/30/10 21:52	AMH	10I2189	200.7
Sodium	**61.2**		1.0	NR	mg/L	1.00	09/30/10 21:52	AMH	10I2189	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	09/30/10 21:52	AMH	10I2189	200.7
Zinc	ND		0.0100	NR	mg/L	1.00	09/30/10 21:52	AMH	10I2189	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	09/30/10 12:01	jmm	10I2198	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	09/29/10 20:00	JFR	10I2180	7196A
Phenolics, Total Recoverable	ND		10.0	NR	ug/L	1.00	10/12/10 12:21	KLD	10J0784	420.4
Anions by EPA Method 300.0										
Sulfate	**22.1**		10.0	NR	mg/L	1.00	09/30/10 17:56	RMM	10I2215	300
Metals (ICP)										
Silicon	**4140**	B	100	8.1	ug/L	1.00	10/13/10 23:59	BAA	7872	6010B RTN

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Work Order: RTI1732

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-12 (AP-SS-03 - Water)						**Sampled: 09/29/10 12:00**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	09/30/10 21:54	AMH	10I2189	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	09/30/10 21:54	AMH	10I2189	200.7
Iron	**0.092**	CF6	0.050	NR	mg/L	1.00	09/30/10 21:54	AMH	10I2189	200.7
Lead	ND		0.0050	NR	mg/L	1.00	09/30/10 21:54	AMH	10I2189	200.7
Magnesium	**2.12**		0.200	NR	mg/L	1.00	09/30/10 21:54	AMH	10I2189	200.7
Manganese	**0.0059**		0.0030	NR	mg/L	1.00	09/30/10 21:54	AMH	10I2189	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	09/30/10 21:54	AMH	10I2189	200.7
Sodium	**69.8**		1.0	NR	mg/L	1.00	09/30/10 21:54	AMH	10I2189	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	09/30/10 21:54	AMH	10I2189	200.7
Zinc	ND		0.0100	NR	mg/L	1.00	09/30/10 21:54	AMH	10I2189	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	09/30/10 12:02	jmm	10I2198	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	09/29/10 20:00	JFR	10I2180	7196A
Phenolics, Total Recoverable	ND		10.0	NR	ug/L	1.00	10/08/10 11:15	KLD	10J0463	420.4
Anions by EPA Method 300.0										
Sulfate	**21.3**		10.0	NR	mg/L	1.00	09/30/10 18:37	RMM	10I2215	300
Metals (ICP)										
Silicon	**1250**	B	100	8.1	ug/L	1.00	10/14/10 00:03	BAA	7872	6010B RTN

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI1732-13 (AP-SWB-01 - Water)						**Sampled: 09/29/10 14:45**		**Recvd: 09/29/10 17:30**		
Total Metals by EPA 200 Series Methods										
Cadmium	ND		0.0010	NR	mg/L	1.00	09/30/10 22:00	AMH	10I2189	200.7
Chromium	ND		0.0040	NR	mg/L	1.00	09/30/10 22:00	AMH	10I2189	200.7
Iron	ND		0.050	NR	mg/L	1.00	09/30/10 22:00	AMH	10I2189	200.7
Lead	ND		0.0050	NR	mg/L	1.00	09/30/10 22:00	AMH	10I2189	200.7
Magnesium	**0.875**		0.200	NR	mg/L	1.00	09/30/10 22:00	AMH	10I2189	200.7
Manganese	ND		0.0030	NR	mg/L	1.00	09/30/10 22:00	AMH	10I2189	200.7
Selenium	ND		0.0150	NR	mg/L	1.00	09/30/10 22:00	AMH	10I2189	200.7
Sodium	ND		1.0	NR	mg/L	1.00	09/30/10 22:00	AMH	10I2189	200.7
Thallium	ND		0.0200	NR	mg/L	1.00	09/30/10 22:00	AMH	10I2189	200.7
Zinc	ND		0.0100	NR	mg/L	1.00	09/30/10 22:00	AMH	10I2189	200.7
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	09/30/10 12:07	jmm	10I2199	350.1
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	09/29/10 20:00	JFR	10I2180	7196A
Phenolics, Total Recoverable	ND		10.0	NR	ug/L	1.00	10/08/10 11:15	KLD	10J0463	420.4
Anions by EPA Method 300.0										
Sulfate	ND		10.0	NR	mg/L	1.00	09/30/10 18:47	RMM	10I2215	300
Metals (ICP)										
Silicon	**2320**	B	100	8.1	ug/L	1.00	10/14/10 00:07	BAA	7872	6010B RTN

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Wappinger Falls, NY 12590

Work Order: RTI1732

Project: Semi-Annual GW Monitoring
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SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
Anions by EPA Method 300.0									
300	10I2214	RTI1732-01	5.00	mL	5.00	mL	09/30/10 11:17	RMM	Direct Injection - Anions
300	10I2214	RTI1732-02	5.00	mL	5.00	mL	09/30/10 11:17	RMM	Direct Injection - Anions
300	10I2215	RTI1732-03	5.00	mL	5.00	mL	09/30/10 11:18	RMM	Direct Injection - Anions
300	10I2215	RTI1732-04	5.00	mL	5.00	mL	09/30/10 11:18	RMM	Direct Injection - Anions
300	10I2215	RTI1732-05	5.00	mL	5.00	mL	09/30/10 11:18	RMM	Direct Injection - Anions
300	10I2215	RTI1732-06	5.00	mL	5.00	mL	09/30/10 11:18	RMM	Direct Injection - Anions
300	10I2215	RTI1732-07	5.00	mL	5.00	mL	09/30/10 11:18	RMM	Direct Injection - Anions
300	10I2215	RTI1732-08	5.00	mL	5.00	mL	09/30/10 11:18	RMM	Direct Injection - Anions
300	10I2215	RTI1732-09	5.00	mL	5.00	mL	09/30/10 11:18	RMM	Direct Injection - Anions
300	10I2215	RTI1732-10	5.00	mL	5.00	mL	09/30/10 11:18	RMM	Direct Injection - Anions
300	10I2215	RTI1732-11	5.00	mL	5.00	mL	09/30/10 11:18	RMM	Direct Injection - Anions
300	10I2215	RTI1732-12	5.00	mL	5.00	mL	09/30/10 11:18	RMM	Direct Injection - Anions
300	10I2215	RTI1732-13	5.00	mL	5.00	mL	09/30/10 11:18	RMM	Direct Injection - Anions
General Chemistry Parameters									
350.1	10I2198	RTI1732-01	5.00	mL	5.00	mL	09/30/10 07:53	JMM	No prep Ammonia
350.1	10I2198	RTI1732-02	5.00	mL	5.00	mL	09/30/10 07:53	JMM	No prep Ammonia
350.1	10I2198	RTI1732-03	5.00	mL	5.00	mL	09/30/10 07:53	JMM	No prep Ammonia
350.1	10I2198	RTI1732-04	5.00	mL	5.00	mL	09/30/10 07:53	JMM	No prep Ammonia
350.1	10I2198	RTI1732-05	5.00	mL	5.00	mL	09/30/10 07:53	JMM	No prep Ammonia
350.1	10I2198	RTI1732-06	5.00	mL	5.00	mL	09/30/10 07:53	JMM	No prep Ammonia
350.1	10I2198	RTI1732-07	5.00	mL	5.00	mL	09/30/10 07:53	JMM	No prep Ammonia
350.1	10I2198	RTI1732-08	5.00	mL	5.00	mL	09/30/10 07:53	JMM	No prep Ammonia
350.1	10I2198	RTI1732-09	5.00	mL	5.00	mL	09/30/10 07:53	JMM	No prep Ammonia
350.1	10I2198	RTI1732-10	5.00	mL	5.00	mL	09/30/10 07:53	JMM	No prep Ammonia
350.1	10I2198	RTI1732-11	5.00	mL	5.00	mL	09/30/10 07:53	JMM	No prep Ammonia
350.1	10I2198	RTI1732-12	5.00	mL	5.00	mL	09/30/10 07:53	JMM	No prep Ammonia
350.1	10I2199	RTI1732-13	5.00	mL	5.00	mL	09/30/10 07:54	JMM	No prep Ammonia
420.4	10J0784	RTI1732-11	50.00	mL	50.00	mL	10/09/10 18:38	AMP	TRP Distillation
420.4	10J0384	RTI1732-02	50.00	mL	50.00	mL	10/06/10 08:30	JME	TRP Distillation
420.4	10J0384	RTI1732-04	50.00	mL	50.00	mL	10/06/10 08:30	JME	TRP Distillation
420.4	10J0483	RTI1732-01	50.00	mL	50.00	mL	10/07/10 08:13	JMM	TRP Distillation
420.4	10J0483	RTI1732-03	50.00	mL	50.00	mL	10/07/10 08:13	JMM	TRP Distillation
420.4	10J0463	RTI1732-05	50.00	mL	50.00	mL	10/06/10 15:00	KLD	TRP Distillation
420.4	10J0463	RTI1732-06	50.00	mL	50.00	mL	10/06/10 15:00	KLD	TRP Distillation
420.4	10J0463	RTI1732-07	50.00	mL	50.00	mL	10/06/10 15:00	KLD	TRP Distillation
420.4	10J0463	RTI1732-08	50.00	mL	50.00	mL	10/06/10 15:00	KLD	TRP Distillation

Greenstar Environmental Solutions, LLC
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Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
Reported: 10/15/10 16:06

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
420.4	10J0463	RTI1732-09	50.00	mL	50.00	mL	10/06/10 15:00	KLD	TRP Distillation
420.4	10J0463	RTI1732-10	50.00	mL	50.00	mL	10/06/10 15:00	KLD	TRP Distillation
420.4	10J0463	RTI1732-12	50.00	mL	50.00	mL	10/06/10 15:00	KLD	TRP Distillation
420.4	10J0463	RTI1732-13	50.00	mL	50.00	mL	10/06/10 15:00	KLD	TRP Distillation
7196A	10I2180	RTI1732-01	25.00	mL	25.00	mL	09/29/10 20:00	JFR	Hex Digestion
7196A	10I2180	RTI1732-02	25.00	mL	25.00	mL	09/29/10 20:00	JFR	Hex Digestion
7196A	10I2180	RTI1732-03	25.00	mL	25.00	mL	09/29/10 20:00	JFR	Hex Digestion
7196A	10I2180	RTI1732-04	25.00	mL	25.00	mL	09/29/10 20:00	JFR	Hex Digestion
7196A	10I2180	RTI1732-05	25.00	mL	25.00	mL	09/29/10 20:00	JFR	Hex Digestion
7196A	10I2180	RTI1732-06	25.00	mL	25.00	mL	09/29/10 20:00	JFR	Hex Digestion
7196A	10I2180	RTI1732-07	25.00	mL	25.00	mL	09/29/10 20:00	JFR	Hex Digestion
7196A	10I2180	RTI1732-08	25.00	mL	25.00	mL	09/29/10 20:00	JFR	Hex Digestion
7196A	10I2180	RTI1732-09	25.00	mL	25.00	mL	09/29/10 20:00	JFR	Hex Digestion
7196A	10I2180	RTI1732-10	25.00	mL	25.00	mL	09/29/10 20:00	JFR	Hex Digestion
7196A	10I2180	RTI1732-11	25.00	mL	25.00	mL	09/29/10 20:00	JFR	Hex Digestion
7196A	10I2180	RTI1732-12	25.00	mL	25.00	mL	09/29/10 20:00	JFR	Hex Digestion
7196A	10I2180	RTI1732-13	25.00	mL	25.00	mL	09/29/10 20:00	JFR	Hex Digestion
Total Metals by EPA 200 Series Methods									
200.7	10I2189	RTI1732-01	50.00	mL	50.00	mL	09/30/10 09:45	JRK	3005A
200.7	10I2189	RTI1732-02	50.00	mL	50.00	mL	09/30/10 09:45	JRK	3005A
200.7	10I2189	RTI1732-03	50.00	mL	50.00	mL	09/30/10 09:45	JRK	3005A
200.7	10I2189	RTI1732-04	50.00	mL	50.00	mL	09/30/10 09:45	JRK	3005A
200.7	10I2189	RTI1732-05	50.00	mL	50.00	mL	09/30/10 09:45	JRK	3005A
200.7	10I2189	RTI1732-06	50.00	mL	50.00	mL	09/30/10 09:45	JRK	3005A
200.7	10I2189	RTI1732-07	50.00	mL	50.00	mL	09/30/10 09:45	JRK	3005A
200.7	10I2189	RTI1732-08	50.00	mL	50.00	mL	09/30/10 09:45	JRK	3005A
200.7	10I2189	RTI1732-09	50.00	mL	50.00	mL	09/30/10 09:45	JRK	3005A
200.7	10I2189	RTI1732-10	50.00	mL	50.00	mL	09/30/10 09:45	JRK	3005A
200.7	10I2189	RTI1732-11	50.00	mL	50.00	mL	09/30/10 09:45	JRK	3005A
200.7	10I2189	RTI1732-12	50.00	mL	50.00	mL	09/30/10 09:45	JRK	3005A
200.7	10I2189	RTI1732-13	50.00	mL	50.00	mL	09/30/10 09:45	JRK	3005A

Greenstar Environmental Solutions, LLC
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Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by EPA 200 Series Methods											
Blank Analyzed: 09/30/10 (Lab Number:10I2189-BLK1, Batch: 10I2189)											
Cadmium			0.0010	NR	mg/L	ND					
Chromium			0.0040	NR	mg/L	ND					
Iron			0.050	NR	mg/L	ND					
Lead			0.0050	NR	mg/L	ND					
Magnesium			0.200	NR	mg/L	ND					
Manganese			0.0030	NR	mg/L	ND					
Selenium			0.0150	NR	mg/L	ND					
Sodium			1.0	NR	mg/L	ND					
Thallium			0.0200	NR	mg/L	ND					
Zinc			0.0100	NR	mg/L	ND					
LCS Analyzed: 09/30/10 (Lab Number:10I2189-BS1, Batch: 10I2189)											
Cadmium		0.200	0.0010	NR	mg/L	0.199	99	85-115			
Chromium		0.200	0.0040	NR	mg/L	0.197	98	85-115			
Iron		10.0	0.050	NR	mg/L	9.59	96	85-115			
Lead		0.200	0.0050	NR	mg/L	0.202	101	85-115			
Magnesium		10.0	0.200	NR	mg/L	10.2	102	85-115			
Manganese		0.200	0.0030	NR	mg/L	0.202	101	85-115			
Selenium		0.200	0.0150	NR	mg/L	0.207	103	85-115			
Sodium		10.0	1.0	NR	mg/L	10.2	102	85-115			
Thallium		0.200	0.0200	NR	mg/L	0.202	101	85-115			
Zinc		0.200	0.0100	NR	mg/L	0.195	98	85-115			
Matrix Spike Analyzed: 09/30/10 (Lab Number:10I2189-MS1, Batch: 10I2189)											
QC Source Sample: RTI1732-03											
Cadmium	0.000550	0.200	0.0010	NR	mg/L	0.200	100	70-130			
Chromium	0.574	0.200	0.0040	NR	mg/L	0.780	103	70-130			
Iron	2.89	10.0	0.050	NR	mg/L	12.0	91	70-130			
Lead	0.00973	0.200	0.0050	NR	mg/L	0.212	101	70-130			
Magnesium	1.49	10.0	0.200	NR	mg/L	11.1	96	70-130			
Manganese	0.123	0.200	0.0030	NR	mg/L	0.310	94	70-130			
Selenium	0.00920	0.200	0.0150	NR	mg/L	0.217	104	70-130			
Sodium	46.7	10.0	1.0	NR	mg/L	60.2	135	70-130			MHA
Thallium	ND	0.200	0.0200	NR	mg/L	0.197	99	70-130			
Zinc	0.0312	0.200	0.0100	NR	mg/L	0.222	95	70-130			
Matrix Spike Dup Analyzed: 09/30/10 (Lab Number:10I2189-MSD1, Batch: 10I2189)											
QC Source Sample: RTI1732-03											
Cadmium	0.000550	0.200	0.0010	NR	mg/L	0.205	102	70-130	2	20	
Chromium	0.574	0.200	0.0040	NR	mg/L	0.780	103	70-130	0.02	20	

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
Reported: 10/15/10 16:06

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by EPA 200 Series Methods											
Matrix Spike Dup Analyzed: 09/30/10 (Lab Number:10I2189-MSD1, Batch: 10I2189)											
QC Source Sample: RTI1732-03											
Iron	2.89	10.0	0.050	NR	mg/L	12.2	93	70-130	1	20	
Lead	0.00973	0.200	0.0050	NR	mg/L	0.217	103	70-130	2	20	
Magnesium	1.49	10.0	0.200	NR	mg/L	11.2	97	70-130	0.9	20	
Manganese	0.123	0.200	0.0030	NR	mg/L	0.308	93	70-130	0.5	20	
Selenium	0.00920	0.200	0.0150	NR	mg/L	0.223	107	70-130	2	20	
Sodium	46.7	10.0	1.0	NR	mg/L	59.7	130	70-130	0.9	20	
Thallium	ND	0.200	0.0200	NR	mg/L	0.204	102	70-130	3	20	
Zinc	0.0312	0.200	0.0100	NR	mg/L	0.225	97	70-130	1	20	

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Work Order: RTI1732

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Blank Analyzed: 09/29/10 (Lab Number:10I2180-BLK1, Batch: 10I2180)											
Chromium, Hexavalent			11.0	NR	ug/L	ND					
LCS Analyzed: 09/29/10 (Lab Number:10I2180-BS1, Batch: 10I2180)											
Chromium, Hexavalent		50.0	10.0	NR	ug/L	49.0	98	85-115			
Duplicate Analyzed: 09/29/10 (Lab Number:10I2180-DUP1, Batch: 10I2180)											
QC Source Sample: RTI1732-06											
Chromium, Hexavalent	ND		10.0	NR	ug/L	ND				15	
Duplicate Analyzed: 09/29/10 (Lab Number:10I2180-DUP2, Batch: 10I2180)											
QC Source Sample: RTI1732-12											
Chromium, Hexavalent	ND		10.0	NR	ug/L	ND				15	
Matrix Spike Analyzed: 09/29/10 (Lab Number:10I2180-MS1, Batch: 10I2180)											
QC Source Sample: RTI1732-07											
Chromium, Hexavalent	ND	50.0	10.0	NR	ug/L	64.6	129	85-115			M11
Matrix Spike Analyzed: 09/29/10 (Lab Number:10I2180-MS2, Batch: 10I2180)											
QC Source Sample: RTI1732-13											
Chromium, Hexavalent	ND	50.0	10.0	NR	ug/L	56.3	113	85-115			
General Chemistry Parameters											
Blank Analyzed: 09/30/10 (Lab Number:10I2198-BLK1, Batch: 10I2198)											
Ammonia as N			9.20	NR	mg/L as N	ND					
LCS Analyzed: 09/30/10 (Lab Number:10I2198-BS1, Batch: 10I2198)											
Ammonia as N		0.500	9.20	NR	mg/L as N	0.515	103	90-110			
Duplicate Analyzed: 09/30/10 (Lab Number:10I2198-DUP1, Batch: 10I2198)											
QC Source Sample: RTI1732-12											
Ammonia as N	0.0209		9.20	NR	mg/L as N	0.0206			1	20	
Matrix Spike Analyzed: 09/30/10 (Lab Number:10I2198-MS1, Batch: 10I2198)											
QC Source Sample: RTI1732-12											
Ammonia as N	0.0209	0.200	9.20	NR	mg/L as N	0.184	82	54-150			
General Chemistry Parameters											
Blank Analyzed: 09/30/10 (Lab Number:10I2199-BLK1, Batch: 10I2199)											
Ammonia as N			9.20	NR	mg/L as N	ND					
LCS Analyzed: 09/30/10 (Lab Number:10I2199-BS1, Batch: 10I2199)											
Ammonia as N		0.500	9.20	NR	mg/L as N	0.523	105	90-110			

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Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
Reported: 10/15/10 16:06

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Duplicate Analyzed: 09/30/10 (Lab Number:10I2199-DUP1, Batch: 10I2199)											
QC Source Sample: RTI1732-13											
Ammonia as N	0.0304		9.20	NR	mg/L as N	0.0328			8	20	
Matrix Spike Analyzed: 09/30/10 (Lab Number:10I2199-MS1, Batch: 10I2199)											
QC Source Sample: RTI1732-13											
Ammonia as N	0.0304	0.200	9.20	NR	mg/L as N	0.241	105	54-150			
General Chemistry Parameters											
Blank Analyzed: 10/06/10 (Lab Number:10J0384-BLK1, Batch: 10J0384)											
Phenolics, Total Recoverable			10.0	NR	ug/L	ND					
LCS Analyzed: 10/06/10 (Lab Number:10J0384-BS1, Batch: 10J0384)											
Phenolics, Total Recoverable		100	10.0	NR	ug/L	103	103	90-110			
Matrix Spike Analyzed: 10/06/10 (Lab Number:10J0384-MS1, Batch: 10J0384)											
QC Source Sample: RTI1732-04											
Phenolics, Total Recoverable	ND	100	10.0	NR	ug/L	100	100	60-143			
General Chemistry Parameters											
Blank Analyzed: 10/08/10 (Lab Number:10J0463-BLK1, Batch: 10J0463)											
Phenolics, Total Recoverable			10.0	NR	ug/L	ND					
LCS Analyzed: 10/08/10 (Lab Number:10J0463-BS1, Batch: 10J0463)											
Phenolics, Total Recoverable		100	10.0	NR	ug/L	99.8	100	90-110			
Duplicate Analyzed: 10/08/10 (Lab Number:10J0463-DUP1, Batch: 10J0463)											
QC Source Sample: RTI1732-13											
Phenolics, Total Recoverable	ND		10.0	NR	ug/L	ND				20	
General Chemistry Parameters											
Blank Analyzed: 10/08/10 (Lab Number:10J0483-BLK1, Batch: 10J0483)											
Phenolics, Total Recoverable			10.0	NR	ug/L	ND					
LCS Analyzed: 10/08/10 (Lab Number:10J0483-BS1, Batch: 10J0483)											
Phenolics, Total Recoverable		100	10.0	NR	ug/L	98.1	98	90-110			

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Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
Reported: 10/15/10 16:06

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Blank Analyzed: 10/12/10 (Lab Number:10J0784-BLK1, Batch: 10J0784)											
Phenolics, Total Recoverable			10.0	NR	ug/L	ND					
LCS Analyzed: 10/12/10 (Lab Number:10J0784-BS1, Batch: 10J0784)											
Phenolics, Total Recoverable		100	10.0	NR	ug/L	105	105	90-110			

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6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Anions by EPA Method 300.0											
Blank Analyzed: 10/01/10 (Lab Number:10I2214-BLK1, Batch: 10I2214)											
Sulfate			10.0	NR	mg/L	ND					
LCS Analyzed: 10/01/10 (Lab Number:10I2214-BS1, Batch: 10I2214)											
Sulfate		20.0	2.00	NR	mg/L	19.6	98	90-110			
Matrix Spike Analyzed: 10/01/10 (Lab Number:10I2214-MS1, Batch: 10I2214)											
QC Source Sample: RTI1732-02											
Sulfate	194	125	10.0	NR	mg/L	330	108	75-125			
Matrix Spike Dup Analyzed: 10/01/10 (Lab Number:10I2214-MSD1, Batch: 10I2214)											
QC Source Sample: RTI1732-02											
Sulfate	194	125	10.0	NR	mg/L	332	110	75-125	0.5	20	
Anions by EPA Method 300.0											
Blank Analyzed: 10/01/10 (Lab Number:10I2215-BLK1, Batch: 10I2215)											
Sulfate			10.0	NR	mg/L	ND					
LCS Analyzed: 10/01/10 (Lab Number:10I2215-BS1, Batch: 10I2215)											
Sulfate		20.0	2.00	NR	mg/L	20.4	102	90-110			
Matrix Spike Analyzed: 10/01/10 (Lab Number:10I2215-MS1, Batch: 10I2215)											
QC Source Sample: RTI1732-13											
Sulfate	1.37	25.0	2.00	NR	mg/L	27.8	106	75-125			
Matrix Spike Analyzed: 10/01/10 (Lab Number:10I2215-MS2, Batch: 10I2215)											
QC Source Sample: RTI1732-11											
Sulfate	22.1	25.0	2.00	NR	mg/L	48.4	105	75-125			
Matrix Spike Dup Analyzed: 10/01/10 (Lab Number:10I2215-MSD1, Batch: 10I2215)											
QC Source Sample: RTI1732-13											
Sulfate	1.37	25.0	2.00	NR	mg/L	28.0	106	75-125	0.5	20	

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTI1732

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 09/29/10
Reported: 10/15/10 16:06

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Metals (ICP)											
Blank Analyzed: 10/13/10 (Lab Number:200-7872-13, Batch: 7872)											
Silicon			100	8.1	ug/L	16.05		-			J
LCS Analyzed: 10/13/10 (Lab Number:200-7872-14, Batch: 7872)											
Silicon		1000	100	8.1	ug/L	992.2	99	80-120			

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL

Client Information	Sampler: Steve Bazilus	Lab PM: Peggy Gray-Erdmann	Carrier Tracking No(s):	COC No: 09272010 10:02_1
Client Contact: Charles E. McLeod, Jr.	Phone: 908-358-9768	E-Mail: peggy.gray-erdmann@testamericainc.com		Page: 1
Company: Greenstar Environmental Solutions, LLC		Parameter(s) Requested		Job #:
Address: 8 Gellatly Drive	Due Date Requested:			Preservation Codes: A=HCL, B=NaOH, C=Zn Acetate, D=Nitric Acid, E=Ice, F=MeOH, G=Amchlor, H=Ascorbic Acid, I=Ice, J=DI Water, K=EDTA, L=EDA, M=Hexane, N=None, O=AsNaO2, P=Na2O4S, Q=Na2SO3, R=Na2S2O3, S=H2SO4, T=TSP Dodecahydrate, U=Acetone, V=MCAA, W=pH 4-5, Z=Z
City: Wappinger Falls	TAT Requested (Business Days): 10			
State, Zip: NY, 12590				
Phone: (845) 223-9844	PO #: 150C265-1005-01			Container Codes: A=Amber, B=Bottle, C=Glass, D=Vial, E=Poly/Plastic, F=Summa
Email: cmcleod@greenstarsolutions.com	WO #: RT1588			
Project Name: Semi-Annual GW Monitoring - NYSA9582AE04818	Project #: Semi-Annual GW Monitoring			
Site: Airco - Niagara Falls - NYSA9582	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	HexCr	Tphenols	Ammonia	T-Metals	SO4	T-Metals (TSP)	Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				I-P	S-G	S-P	D-P	I-A	D-P		
AP-MW-DUP-01	9/29/10	N/A	G	W			1	1	1	1	1	1	6	
AP-MW-1B	9/29/10	0835	G	W			1	1	1	1	1	1	6	
AP-MW-2B	9/29/10	0945	G	W			1	1	1	1	1	1	6	
AP-MW-3B	9/29/10	1020	G	W			1	1	1	1	1	1	6	
~~AP-MW-4B~~			G	W			1	1	1	1	1	1	6	NOT SAMPLED
AP-MW-5B	9/29/10	1045	G	W			1	1	1	1	1	1	6	Limited Volume in 2 HNO3 Bottles
AP-MW-6B	9/29/10	1135	G	W			1	1	1	1	1	1	6	
AP-MW-7B	9/29/10	1330	G	W			1	1	1	1	1	1	6	
AP-MW-8B	9/29/10	1425	G	W			1	1	1	1	1	1	6	
AP-RB-01	9/29/10	1500	G	W			1	1	1	1	1	1	6	
AP-SS-01	9/29/10	1100	G	W			1	1	1	1	1	1	6	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): [ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	9/29/10 1730	GES	[signature]	9/29/10 1730	TAL
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: [ ] Yes [ ] No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.4°C

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Steve Bazilus	Lab PM: Peggy Gray-Erdmann	Carrier Tracking No(s):	COC No: 09272010 10:02_2
Client Contact: Charles E. McLeod, Jr	Phone: 908-358-9768	E-Mail: peggy.gray-erdmann@testamericainc.com		Page: 2
Company: Greenstar Environmental Solutions, LLC				Job #:
Address: 6 Gellatly Drive	Due Date Requested:			
City: Wappinger Falls	TAT Requested (Business Days): 10			
State, Zip: NY, 12590				
Phone: (845) 223-9944	PO #: 150C265-1005-01			
Email: cmcleod@greenstarsolutions.com	WO #: RTI1588			
Project Name: Semi-Annual GW Monitoring - NY5A9582AE04818	Project #: Semi-Annual GW Monitoring			
Site: Airco - Niagara Falls - NY5A9582	SSOW#:			

Parameter(s) Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Hex Cr	Tphenols	Ammonia	T-Metals	SO4	T-Metals (TSI)	Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				I-P	S-G	S-P	D-P	I-A	D-P		
AP-SS-02	9/29/10	1110	G	W			1	1	1	1	1	1	6	
AP-SS-03	9/29/10	1200	G	W			1	1	1	1	1	1	6	
AP-SWB-01	9/29/10	1445	G	W			1	1	1	1	1	1	6	

Preservation Codes:
A=HCL Z=Z
B=NaOH
C=Zn Acetate
D=Nitric Acid
E=Ice
N=None
S=H2SO4
V=MCAA

Container Codes:
A=Amber T=Tedlar
G=Glass V=Vial
P=Poly/Plastic
S=Summa

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/29/10 1730	GES		9/29/10 1730	TMC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2 @ 3.4°

ANALYTICAL REPORT

Job Number: 200-1784-1

SDG Number: RTI1732

Job Description: Greenstar Environmental Solutions, LLC

For:
TestAmerica Laboratories, Inc.
10 Hazelwood Drive
Amherst, NY 14228-2298

Attention: Peggy Gray-Erdmann

Approved for release.
Joseph Carabillo
Project Manager I
10/14/2010 3:06 PM

Joseph Carabillo
Project Manager I
joseph.carabillo@testamericainc.com
10/14/2010

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

CASE NARRATIVE

Client: TestAmerica Laboratories, Inc.

Project: Greenstar Environmental Solutions, LLC

Report Number: 200-1784-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/01/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 18.7 C.

TOTAL METALS (ICP)

Samples RTI1732-01, RTI1732-02, RTI1732-03, RTI1732-04, RTI1732-05, RTI1732-06, RTI1732-07, RTI1732-08, RTI1732-09, RTI1732-10, RTI1732-11, RTI1732-12 and RTI1732-13 were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 10/04/2010 and analyzed on 10/13/2010 and 10/14/2010.

Silicon was detected in method blank MB 200-7355/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

METHOD SUMMARY

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL BUR	SW846 6010B	
Preparation, Total Metals	TAL BUR		SW846 3010A

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

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

METHOD / ANALYST SUMMARY

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Method	Analyst	Analyst ID
SW846 6010B	Ames, Bennye A	BAA

SAMPLE SUMMARY

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-1784-1	RTI1732-01	Water	09/29/2010 0000	10/01/2010 1030
200-1784-2	RTI1732-02	Water	09/29/2010 0835	10/01/2010 1030
200-1784-3	RTI1732-03	Water	09/29/2010 0945	10/01/2010 1030
200-1784-4	RTI1732-04	Water	09/29/2010 1020	10/01/2010 1030
200-1784-5	RTI1732-05	Water	09/29/2010 1045	10/01/2010 1030
200-1784-6	RTI1732-06	Water	09/29/2010 1135	10/01/2010 1030
200-1784-7	RTI1732-07	Water	09/29/2010 1330	10/01/2010 1030
200-1784-8	RTI1732-08	Water	09/29/2010 1425	10/01/2010 1030
200-1784-9	RTI1732-09	Water	09/29/2010 1500	10/01/2010 1030
200-1784-10	RTI1732-10	Water	09/29/2010 1100	10/01/2010 1030
200-1784-11	RTI1732-11	Water	09/29/2010 1110	10/01/2010 1030
200-1784-12	RTI1732-12	Water	09/29/2010 1200	10/01/2010 1030
200-1784-13	RTI1732-13	Water	09/29/2010 1445	10/01/2010 1030

SAMPLE RESULTS

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Client Sample ID: **RTI1732-01**

Lab Sample ID: 200-1784-1
Client Matrix: Water

Date Sampled: 09/29/2010 0000
Date Received: 10/01/2010 1030

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 200-7872		Instrument ID:	METICP7
Preparation:	3010A	Prep Batch: 200-7355		Lab File ID:	101310-05.ttx
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	10/13/2010 2308			Final Weight/Volume:	100 mL
Date Prepared:	10/04/2010 0714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silicon	892	B	8.1	100

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Client Sample ID: **RTI1732-02**

Lab Sample ID: 200-1784-2
Client Matrix: Water

Date Sampled: 09/29/2010 0835
Date Received: 10/01/2010 1030

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 200-7872		Instrument ID:	METICP7
Preparation:	3010A	Prep Batch: 200-7355		Lab File ID:	101310-05.ttx
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	10/13/2010 2316			Final Weight/Volume:	100 mL
Date Prepared:	10/04/2010 0714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silicon	6860	B	8.1	100

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Client Sample ID: **RTI1732-03**

Lab Sample ID: 200-1784-3
Client Matrix: Water

Date Sampled: 09/29/2010 0945
Date Received: 10/01/2010 1030

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 200-7872		Instrument ID:	METICP7
Preparation:	3010A	Prep Batch: 200-7355		Lab File ID:	101310-05.ttx
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	10/13/2010 2319			Final Weight/Volume:	100 mL
Date Prepared:	10/04/2010 0714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silicon	1090	B	8.1	100

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Client Sample ID: **RTI1732-04**

Lab Sample ID: 200-1784-4
Client Matrix: Water

Date Sampled: 09/29/2010 1020
Date Received: 10/01/2010 1030

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 200-7872		Instrument ID:	METICP7
Preparation:	3010A	Prep Batch: 200-7355		Lab File ID:	101310-05.ttx
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	10/13/2010 2323			Final Weight/Volume:	100 mL
Date Prepared:	10/04/2010 0714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silicon	7310	B	8.1	100

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Client Sample ID: **RTI1732-05**

Lab Sample ID: 200-1784-5
Client Matrix: Water

Date Sampled: 09/29/2010 1045
Date Received: 10/01/2010 1030

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 200-7872		Instrument ID:	METICP7
Preparation:	3010A	Prep Batch: 200-7355		Lab File ID:	101310-05.ttx
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	10/13/2010 2327			Final Weight/Volume:	100 mL
Date Prepared:	10/04/2010 0714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silicon	11100	B	8.1	100

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Client Sample ID: **RTI1732-06**

Lab Sample ID: 200-1784-6
Client Matrix: Water

Date Sampled: 09/29/2010 1135
Date Received: 10/01/2010 1030

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 200-7872		Instrument ID:	METICP7
Preparation:	3010A	Prep Batch: 200-7355		Lab File ID:	101310-05.ttx
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	10/13/2010 2331			Final Weight/Volume:	100 mL
Date Prepared:	10/04/2010 0714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silicon	6180	B	8.1	100

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Client Sample ID: **RTI1732-07**

Lab Sample ID: 200-1784-7
Client Matrix: Water

Date Sampled: 09/29/2010 1330
Date Received: 10/01/2010 1030

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 200-7872		Instrument ID:	METICP7
Preparation:	3010A	Prep Batch: 200-7355		Lab File ID:	101310-05.ttx
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	10/13/2010 2335			Final Weight/Volume:	100 mL
Date Prepared:	10/04/2010 0714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silicon	8460	B	8.1	100

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Client Sample ID: **RTI1732-08**

Lab Sample ID: 200-1784-8
Client Matrix: Water

Date Sampled: 09/29/2010 1425
Date Received: 10/01/2010 1030

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 200-7872		Instrument ID:	METICP7
Preparation:	3010A	Prep Batch: 200-7355		Lab File ID:	101310-05.ttx
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	10/13/2010 2347			Final Weight/Volume:	100 mL
Date Prepared:	10/04/2010 0714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silicon	27000	B	8.1	100

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Client Sample ID: **RTI1732-09**

Lab Sample ID: 200-1784-9
Client Matrix: Water

Date Sampled: 09/29/2010 1500
Date Received: 10/01/2010 1030

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 200-7872		Instrument ID:	METICP7
Preparation:	3010A	Prep Batch: 200-7355		Lab File ID:	101310-05.ttx
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	10/13/2010 2351			Final Weight/Volume:	100 mL
Date Prepared:	10/04/2010 0714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silicon	2280	B	8.1	100

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Client Sample ID: **RTI1732-10**

Lab Sample ID: 200-1784-10
Client Matrix: Water

Date Sampled: 09/29/2010 1100
Date Received: 10/01/2010 1030

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 200-7872		Instrument ID:	METICP7
Preparation:	3010A	Prep Batch: 200-7355		Lab File ID:	101310-05.ttx
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	10/13/2010 2355			Final Weight/Volume:	100 mL
Date Prepared:	10/04/2010 0714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silicon	1330	B	8.1	100

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Client Sample ID: **RTI1732-11**

Lab Sample ID: 200-1784-11
Client Matrix: Water

Date Sampled: 09/29/2010 1110
Date Received: 10/01/2010 1030

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 200-7872		Instrument ID:	METICP7
Preparation:	3010A	Prep Batch: 200-7355		Lab File ID:	101310-05.ttx
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	10/13/2010 2359			Final Weight/Volume:	100 mL
Date Prepared:	10/04/2010 0714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silicon	4140	B	8.1	100

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Client Sample ID: **RTI1732-12**

Lab Sample ID: 200-1784-12
Client Matrix: Water

Date Sampled: 09/29/2010 1200
Date Received: 10/01/2010 1030

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 200-7872		Instrument ID:	METICP7
Preparation:	3010A	Prep Batch: 200-7355		Lab File ID:	101310-05.ttx
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	10/14/2010 0003			Final Weight/Volume:	100 mL
Date Prepared:	10/04/2010 0714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silicon	1250	B	8.1	100

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Client Sample ID: **RTI1732-13**

Lab Sample ID: 200-1784-13
Client Matrix: Water

Date Sampled: 09/29/2010 1445
Date Received: 10/01/2010 1030

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 200-7872		Instrument ID:	METICP7
Preparation:	3010A	Prep Batch: 200-7355		Lab File ID:	101310-05.ttx
Dilution:	1.0			Initial Weight/Volume:	100 mL
Date Analyzed:	10/14/2010 0007			Final Weight/Volume:	100 mL
Date Prepared:	10/04/2010 0714				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silicon	2320	B	8.1	100

DATA REPORTING QUALIFIERS

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Lab Section	Qualifier	Description
Metals		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 200-7355					
LCS 200-7355/2-A	Lab Control Sample	T	Water	3010A	
MB 200-7355/1-A	Method Blank	T	Water	3010A	
200-1784-1	RTI1732-01	T	Water	3010A	
200-1784-2	RTI1732-02	T	Water	3010A	
200-1784-3	RTI1732-03	T	Water	3010A	
200-1784-4	RTI1732-04	T	Water	3010A	
200-1784-5	RTI1732-05	T	Water	3010A	
200-1784-6	RTI1732-06	T	Water	3010A	
200-1784-7	RTI1732-07	T	Water	3010A	
200-1784-8	RTI1732-08	T	Water	3010A	
200-1784-9	RTI1732-09	T	Water	3010A	
200-1784-10	RTI1732-10	T	Water	3010A	
200-1784-11	RTI1732-11	T	Water	3010A	
200-1784-12	RTI1732-12	T	Water	3010A	
200-1784-13	RTI1732-13	T	Water	3010A	
Analysis Batch:200-7872					
LCS 200-7355/2-A	Lab Control Sample	T	Water	6010B	200-7355
MB 200-7355/1-A	Method Blank	T	Water	6010B	200-7355
200-1784-1	RTI1732-01	T	Water	6010B	200-7355
200-1784-2	RTI1732-02	T	Water	6010B	200-7355
200-1784-3	RTI1732-03	T	Water	6010B	200-7355
200-1784-4	RTI1732-04	T	Water	6010B	200-7355
200-1784-5	RTI1732-05	T	Water	6010B	200-7355
200-1784-6	RTI1732-06	T	Water	6010B	200-7355
200-1784-7	RTI1732-07	T	Water	6010B	200-7355
200-1784-8	RTI1732-08	T	Water	6010B	200-7355
200-1784-9	RTI1732-09	T	Water	6010B	200-7355
200-1784-10	RTI1732-10	T	Water	6010B	200-7355
200-1784-11	RTI1732-11	T	Water	6010B	200-7355
200-1784-12	RTI1732-12	T	Water	6010B	200-7355
200-1784-13	RTI1732-13	T	Water	6010B	200-7355

Report Basis
T = Total

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
Sdg Number: RTI1732

Method Blank - Batch: 200-7355

Method: 6010B
Preparation: 3010A

Lab Sample ID: MB 200-7355/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/13/2010 2300
Date Prepared: 10/04/2010 0714

Analysis Batch: 200-7872
Prep Batch: 200-7355
Units: ug/L

Instrument ID: METICP7
Lab File ID: 101310-05.ttx
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Silicon	16.05	J	8.1	100

Lab Control Sample - Batch: 200-7355

Method: 6010B
Preparation: 3010A

Lab Sample ID: LCS 200-7355/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/13/2010 2304
Date Prepared: 10/04/2010 0714

Analysis Batch: 200-7872
Prep Batch: 200-7355
Units: ug/L

Instrument ID: METICP7
Lab File ID: 101310-05.ttx
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silicon	1000	992.2	99	80 - 120	

ORIGIN ID: DKKA (716) 691-2600
KEN KINECKI
TESTAMERICA
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

SHIP DATE: 30SEP10
ACTWGT: 15.0 LB MAN
CAD: 735603/CAFE2468
DIMS: 19x15x10 IN

BILL RECIPIENT

TO DON DAWICKI
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(518) 640-6018
DEPT: METALS
REF: METALS

FedEx
Express

E

J101010072229124

FRI - 01 OCT AA
PRIORITY OVERNIGHT

TRK# 4485 0254 7953
0201

05403
VT-US
BTV

XH BTVA

Part # 154254-354 NTT2 06/10

505C3/9292/DA47

SUBCONTRACT ORDER
TestAmerica Buffalo

RTI1732

SENDING LABORATORY:

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716-691-2600
Fax: 716-691-7991
Project Manager: Peggy Gray-Erdmann
Client: Greenstar Environmental Solutions, LLC

RECEIVING LABORATORY:

TestAmerica Burlington
30 Community Drive; Suite 11
S. Burlington, VT 05403
Phone :(802) 655-1203
Fax: (802) 655-1248
Project Location: _UNKNOWN
Receipt Temperature: 18.7 °C Ice: Y / (N)

Report: Level 2 Report

Copy/Relog from RTI1588. Added via Bottle Orders by PJG 09/27/10 10:01

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: RTI1732-01 (AP-MW-DUP-01 - Water)			Sampled: **09/29/10 00:00**			
SUB - 6010B Tot - Silicon	mg/L	10/12/10	03/28/11 00:00	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTI1732-02 (AP-MW-1B - Water)			Sampled: **09/29/10 08:35**			
SUB - 6010B Tot - Silicon	mg/L	10/12/10	03/28/11 08:35	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTI1732-03 (AP-MW-2B - Water)			Sampled: **09/29/10 09:45**			
SUB - 6010B Tot - Silicon	mg/L	10/12/10	03/28/11 09:45	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTI1732-04 (AP-MW-3B - Water)			Sampled: **09/29/10 10:20**			
SUB - 6010B Tot - Silicon	mg/L	10/12/10	03/28/11 10:20	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTI1732-05 (AP-MW-5B - Water)			Sampled: **09/29/10 10:45**			
SUB - 6010B Tot - Silicon	mg/L	10/12/10	03/28/11 10:45	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTI1732-06 (AP-MW-6B - Water)			Sampled: **09/29/10 11:35**			
SUB - 6010B Tot - Silicon	mg/L	10/12/10	03/28/11 11:35	$30.00	0%	NONE,
Containers Supplied:						

Released By	Date/Time	Received By	Date/Time
[signature]	9/30/10 1700	[signature]	10/1/10 1030

SUBCONTRACT ORDER
TestAmerica Buffalo

RTI1732

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: RTI1732-07 (AP-MW-7B - Water)			Sampled: **09/29/10 13:30**			
SUB - 6010B Tot - Silicon	mg/L	10/12/10	03/28/11 13:30	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTI1732-08 (AP-MW-8B - Water)			Sampled: **09/29/10 14:25**			
SUB - 6010B Tot - Silicon	mg/L	10/12/10	03/28/11 14:25	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTI1732-09 (AP-RB-01 - Water)			Sampled: **09/29/10 15:00**			
SUB - 6010B Tot - Silicon	mg/L	10/12/10	03/28/11 15:00	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTI1732-10 (AP-SS-01 - Water)			Sampled: **09/29/10 11:00**			
SUB - 6010B Tot - Silicon	mg/L	10/12/10	03/28/11 11:00	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTI1732-11 (AP-SS-02 - Water)			Sampled: **09/29/10 11:10**			
SUB - 6010B Tot - Silicon	mg/L	10/12/10	03/28/11 11:10	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTI1732-12 (AP-SS-03 - Water)			Sampled: **09/29/10 12:00**			
SUB - 6010B Tot - Silicon	mg/L	10/12/10	03/28/11 12:00	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTI1732-13 (AP-SWB-01 - Water)			Sampled: **09/29/10 14:45**			
SUB - 6010B Tot - Silicon	mg/L	10/12/10	03/28/11 14:45	$30.00	0%	NONE,
Containers Supplied:						

Login Sample Receipt Check List

Client: TestAmerica Laboratories, Inc.

Job Number: 200-1784-1
SDG Number: RTI1732

Login Number: 1784
List Source: TestAmerica Burlington
Creator: Keeton, Jamie
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	619611
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	18.7ºC, IR GUN ID 96, CF -1
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?	N/A	
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.	N/A	
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	

Attachment E

Landfill Cap Inspection Checklists
August and December 2010

LANDFILL CAP INSPECTION CHECKLIST
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Personnel:	Bruce Vinal - Greenstar Environmental Solutions, LLC
Date:	3rd Quarter Inspection 8/24/10
Weather:	Sun 80 degrees

1. **Inspection of ground surface for exposure of geotextile cover (cap erosion):** None noted.

2. **Inspection of ground surface for differential settlement resulting in soil cracking or ponded water:** The slopes around T-7 still require additional fill to level out top of slope.

3. **Identification of stressed vegetation:** Re-seeded areas in the South West corner appear to be well established and require no further monitoring other than normal.

4. **Identification of seeps, rooted vegetation (trees), and/or animal burrows:** Vegetation has gotten high around sheds and tanks as well as the roads. Ground clear has been applied around sheds and tanks, Roads will be addressed during Fall mowing.

5. **Identification of deteriorating equipment (i.e., monitoring wells, fencing, or drainage structures):** Tearing of the tarp on the T-3 has gotten worse, recommend replacement./ The outlet pipe to T-8 has 45 degree bends and is prone to blockages, recommend replacement with one solid piece.

6. **Inspection of stormwater drainage swales for erosion, sloughing, or flow-through:** Still recommend the addition of pipes under the stone "Bridge" in the South West corner.

7. **Inspection of east side of the landfill (Niagara Mohawk Power Corporation parcel) along the intermittent stream for the presence of erosion or sloughing:** None noted

8. **Inspection of access roads:** Roads are heavily overgrown and require mowing

LANDFILL CAP INSPECTION CHECKLIST
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Personnel: Bruce Vinal - Greenstar Environmental Solutions, LLC

Date: 4th Quarter Inspection 12/29/10

Weather: Overcast 30 degrees

1. **Inspection of ground surface for exposure of geotextile cover (cap erosion):** None noted.

2. **Inspection of ground surface for differential settlement resulting in soil cracking or ponded water:** The slopes around T-7 have been raised and re-seeded.

3. **Identification of stressed vegetation:** Re-seeded areas around T-7 are not yet established and will be monitored.

4. **Identification of seeps, rooted vegetation (trees), and/or animal burrows:** All overgrown vegetation was taken care of during the Fall mowing.

5. **Identification of deteriorating equipment (i.e., monitoring wells, fencing, or drainage structures):** The tarp on T-3 has been replaced / Entrance gate was hit by snowplow contractor, new gate was installed. New gate appears to be of equal quality to the original./ Two new monitoring wells are currently painted black, both will be painted "Safety Blue" in the spring with left over stock./ The outlet pipe to T-7 has been replaced.

6. **Inspection of stormwater drainage swales for erosion, sloughing, or flow-through:** None noted/ Pipes have been added under the stone bridge in the South West corner.

7. **Inspection of east side of the landfill (Niagara Mohawk Power Corporation parcel) along the intermittent stream for the presence of erosion or sloughing:** None noted

8. **Inspection of access roads:** Roads are in acceptable condition.

Attachment F

Laboratory Analytical Results for GCTS Discharge Sampling

Analytical Report

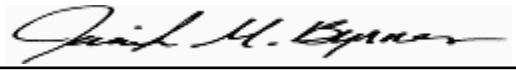
Work Order: RTH1280

Project Description
Quarterly Discharge Monitoring

For:

Charles E. McLeod, Jr.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590



Jennifer Byrnes For Peggy Gray-Erdmann
Project Manager
jennifer.byrnes@testamericainc.com

Thursday, September 9, 2010

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTH1280

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 08/25/10
Reported: 09/09/10 14:31

TestAmerica Buffalo
Current Certifications

As of 08/16/2010

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA	10026
North Dakota	CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Oregon*	CWA,RCRA	NY200003
Pennsylvania*	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington*	NELAP CWA,RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA,RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parame ters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTH1280

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 08/25/10
Reported: 09/09/10 14:31

CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Biochemical Oxygen Demand sample RTH1280-01 was bracketed by a compliant Method Blank and a non-compliant CCB which was above acceptance limits. The sample was non-detect for Biochemical Oxygen Demand, therefore no corrective action was necessary.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

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The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to the lab MDL. It must be noted that results reported below lab standard quantitation limits (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

SpecificMethod	Analyte	Units	Client RL	Lab PQL
2540C	Total Dissolved Solids	mg/L	4.0	10.0

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DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
HFT	The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
N1	See case narrative.
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

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Work Order: RTH1280

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Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1280-01 (AP-EWE-01 - Water)						**Sampled: 08/25/10 12:30**		**Recvd: 08/25/10 14:05**		
General Chemistry Parameters										
pH	**7.90**	HFT	0.100	NR	SU	1.00	08/25/10 19:42	RMB	10H1829	9040
Oxygen, Dissolved	**8.24**		7.00	NR	mg/L	1.00	08/26/10 09:40	KLD	10H1885	4500-O G
Nitrate	**0.543**		0.050	NR	mg/L as N	1.00	08/25/10 16:15	JFR	10H1786	353.2
Total Dissolved Solids	**526**	B	4.0	NR	mg/L	1.00	08/26/10 09:09	KLD	10H1851	2540C

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Received: 08/25/10
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Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
AP-EWE-01	RTH1280-01	Water	08/25/10 12:30	08/25/10 14:05	

Greenstar Environmental Solutions, LLC
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Work Order: RTH1280

Project: Quarterly Discharge Monitoring
Project Number: GES

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1280-01 (AP-EWE-01 - Water)						**Sampled: 08/25/10 12:30**		**Recvd: 08/25/10 14:05**		
Volatile Organic Compounds										
1,1-Dichloroethane	ND		5.0	0.59	ug/L	1.00	08/26/10 14:20	TRB	10H1859	624
Trichloroethene	ND		5.0	0.60	ug/L	1.00	08/26/10 14:20	TRB	10H1859	624
1,2-Dichloroethane-d4	*102 %*		*Surr Limits: (88-132%)*				*08/26/10 14:20*	*TRB*	*10H1859*	*624*
4-Bromofluorobenzene	*100 %*		*Surr Limits: (78-122%)*				*08/26/10 14:20*	*TRB*	*10H1859*	*624*
Toluene-d8	*92 %*		*Surr Limits: (87-110%)*				*08/26/10 14:20*	*TRB*	*10H1859*	*624*
Total Metals by EPA 200 Series Methods										
Barium	ND		2000	NR	ug/L	1.00	09/04/10 21:12	MxM	10H1898	200.7
Chromium	ND		100	NR	ug/L	1.00	09/04/10 21:12	MxM	10H1898	200.7
Copper	ND		14.7	NR	ug/L	1.00	09/04/10 21:12	MxM	10H1898	200.7
Iron	ND		300	NR	ug/L	1.00	09/04/10 21:12	MxM	10H1898	200.7
Nickel	ND		70.0	NR	ug/L	1.00	09/04/10 21:12	MxM	10H1898	200.7
Zinc	ND		115	NR	ug/L	1.00	09/04/10 21:12	MxM	10H1898	200.7
Selenium	ND		4.6	NR	ug/L	1.00	08/30/10 13:38	ESW	10H1929	200.8
Thallium	ND		4.0	NR	ug/L	1.00	08/30/10 13:38	ESW	10H1929	200.8
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	08/26/10 14:27	jmm	10H1838	350.1
Biochemical Oxygen Demand	ND	N1	5.0	NR	mg/L	1.00	08/26/10 15:35	AMP	10H1915	5210B
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	08/25/10 19:15	RMB	10H1823	7196A
Chemical Oxygen Demand	ND		40.0	NR	mg/L	1.00	08/27/10 09:55	JMM	10H1970	410.4
pH	**7.90**	HFT	0.100	NR	SU	1.00	08/25/10 19:42	RMB	10H1829	9040
Oxygen, Dissolved	**8.24**		7.00	NR	mg/L	1.00	08/26/10 09:40	KLD	10H1885	4500-O G
Nitrate	**0.543**		0.050	NR	mg/L as N	1.00	08/25/10 16:15	JFR	10H1786	353.2
Nitrite	ND		0.050	NR	mg/L as N	1.00	08/25/10 16:44	JFR	10H1787	353.2
Phenolics, Total Recoverable	ND	L	10.0	NR	ug/L	1.00	09/04/10 11:37	RJF	10I0130	420.4
Total Dissolved Solids	**526**	B	4.0	NR	mg/L	1.00	08/26/10 09:09	KLD	10H1851	2540C
Total Suspended Solids	ND		10.0	NR	mg/L	1.00	08/27/10 10:20	KLD	10H2024	2540D
Total Kjeldahl Nitrogen	ND		1.00	NR	mg/L as N	1.00	09/01/10 08:55	JMM	10H2255	351.2

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Work Order: RTH1280

Project: Quarterly Discharge Monitoring
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SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
2540C	10H1851	RTH1280-01	100.00	mL	100.00	mL	08/26/10 09:09	AMP	No prep solids
2540D	10H2024	RTH1280-01	250.00	mL	250.00	mL	08/27/10 10:20	KLD	No prep solids
350.1	10H1838	RTH1280-01	5.00	mL	5.00	mL	08/26/10 12:24	JMM	No prep Ammonia
351.2	10H2255	RTH1280-01	25.00	mL	25.00	mL	08/31/10 09:30	JME	TKN Digestion
353.2	10H1786	RTH1280-01	5.00	mL	5.00	mL	08/25/10 15:28	RMB	Nitrate/Nitrite
353.2	10H1787	RTH1280-01	5.00	mL	5.00	mL	08/25/10 15:28	RMB	Nitrate/Nitrite
410.4	10H1970	RTH1280-01	2.00	mL	2.00	mL	08/27/10 09:55	JMM	No prep Chemical Oxygen Demand
420.4	10I0130	RTH1280-01	50.00	mL	50.00	mL	09/02/10 15:48	JLN	TRP Distillation
4500-O G	10H1885	RTH1280-01	1.00	mL	1.00	mL	08/26/10 09:40	KLD	No prep Biochemical Oxygen Demand
5210B	10H1915	RTH1280-01	300.00	mL	300.00	mL	08/26/10 15:35	JLN	No prep Biochemical Oxygen Demand
7196A	10H1823	RTH1280-01	25.00	mL	25.00	mL	08/25/10 19:15	RMB	Hex Digestion
9040	10H1829	RTH1280-01	1.00	mL	1.00	mL	08/25/10 19:42	RMB	pH
Total Metals by EPA 200 Series Methods									
200.7	10H1898	RTH1280-01	50.00	mL	50.00	mL	08/27/10 12:30	JRK	3005A
200.8	10H1929	RTH1280-01	50.00	mL	50.00	mL	08/27/10 12:15	JRK	3020A
Volatile Organic Compounds									
624	10H1859	RTH1280-01	5.00	mL	5.00	mL	08/26/10 14:02	TRB	5030B MS

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds											
Blank Analyzed: 08/26/10 (Lab Number:10H1859-BLK1, Batch: 10H1859)											
1,1-Dichloroethane			5.0	0.59	ug/L	ND					
Trichloroethene			5.0	0.60	ug/L	ND					
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*100*	*88-132*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*100*	*78-122*			
Surrogate: Toluene-d8					*ug/L*		*92*	*87-110*			
LCS Analyzed: 08/26/10 (Lab Number:10H1859-BS1, Batch: 10H1859)											
1,1-Dichloroethane		20.0	5.0	0.59	ug/L	22.9	115	73-128			
Trichloroethene		20.0	5.0	0.60	ug/L	22.3	111	67-134			
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*96*	*88-132*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*102*	*78-122*			
Surrogate: Toluene-d8					*ug/L*		*94*	*87-110*			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by EPA 200 Series Methods											
Blank Analyzed: 09/04/10 (Lab Number:10H1898-BLK1, Batch: 10H1898)											
Barium			2000	NR	ug/L	ND					
Chromium			100	NR	ug/L	ND					
Copper			14.7	NR	ug/L	ND					
Iron			300	NR	ug/L	ND					
Nickel			70.0	NR	ug/L	ND					
Zinc			115	NR	ug/L	ND					
LCS Analyzed: 09/04/10 (Lab Number:10H1898-BS1, Batch: 10H1898)											
Barium		200	2000	NR	ug/L	203	102	85-115			
Chromium		200	100	NR	ug/L	203	102	85-115			
Copper		200	14.7	NR	ug/L	200	100	85-115			
Iron		10000	300	NR	ug/L	10100	101	85-115			
Nickel		200	70.0	NR	ug/L	205	102	85-115			
Zinc		200	115	NR	ug/L	202	101	85-115			
Total Metals by EPA 200 Series Methods											
Blank Analyzed: 08/30/10 (Lab Number:10H1929-BLK1, Batch: 10H1929)											
Selenium			4.6	NR	ug/L	ND					
Thallium			4.0	NR	ug/L	ND					B
LCS Analyzed: 08/30/10 (Lab Number:10H1929-BS1, Batch: 10H1929)											
Selenium		20.0	1.0	NR	ug/L	19.0	95	85-115			
Thallium		20.0	0.2	NR	ug/L	20.0	100	85-115			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Blank Analyzed: 08/25/10 (Lab Number:10H1786-BLK1, Batch: 10H1786)											
Nitrate			0.050	NR	mg/L as N	ND					
LCS Analyzed: 08/25/10 (Lab Number:10H1786-BS1, Batch: 10H1786)											
Nitrate		1.50	0.050	NR	mg/L as N	1.42	95	90-110			
Duplicate Analyzed: 08/25/10 (Lab Number:10H1786-DUP1, Batch: 10H1786)											
QC Source Sample: RTH1280-01											
Nitrate	0.543		0.050	NR	mg/L as N	0.554			2	20	
Matrix Spike Analyzed: 08/25/10 (Lab Number:10H1786-MS1, Batch: 10H1786)											
QC Source Sample: RTH1280-01											
Nitrate	0.543	1.00	0.050	NR	mg/L as N	1.65	110	77-123			
General Chemistry Parameters											
Blank Analyzed: 08/25/10 (Lab Number:10H1787-BLK1, Batch: 10H1787)											
Nitrite			0.050	NR	mg/L as N	ND					
LCS Analyzed: 08/25/10 (Lab Number:10H1787-BS1, Batch: 10H1787)											
Nitrite		1.50	0.050	NR	mg/L as N	1.62	108	90-110			
General Chemistry Parameters											
Blank Analyzed: 08/25/10 (Lab Number:10H1823-BLK1, Batch: 10H1823)											
Chromium, Hexavalent			11.0	NR	ug/L	ND					
LCS Analyzed: 08/25/10 (Lab Number:10H1823-BS1, Batch: 10H1823)											
Chromium, Hexavalent		50.0	10.0	NR	ug/L	49.0	98	85-115			
Duplicate Analyzed: 08/25/10 (Lab Number:10H1823-DUP1, Batch: 10H1823)											
QC Source Sample: RTH1280-01											
Chromium, Hexavalent	ND		10.0	NR	ug/L	ND				20	
Matrix Spike Analyzed: 08/25/10 (Lab Number:10H1823-MS1, Batch: 10H1823)											
QC Source Sample: RTH1280-01											
Chromium, Hexavalent	ND	50.0	10.0	NR	ug/L	53.6	107	75-120			
General Chemistry Parameters											
LCS Analyzed: 08/25/10 (Lab Number:10H1829-BS1, Batch: 10H1829)											
pH		7.00	NA	NR	SU	6.99	100	99.3-100.8			
General Chemistry Parameters											

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Blank Analyzed: 08/26/10 (Lab Number:10H1838-BLK1, Batch: 10H1838)											
Ammonia as N			9.20	NR	mg/L as N	ND					
LCS Analyzed: 08/26/10 (Lab Number:10H1838-BS1, Batch: 10H1838)											
Ammonia as N		0.750	0.020	NR	mg/L as N	0.805	107	90-110			
General Chemistry Parameters											
Blank Analyzed: 08/26/10 (Lab Number:10H1851-BLK1, Batch: 10H1851)											
Total Dissolved Solids			4.0	NR	mg/L	9.0					
LCS Analyzed: 08/26/10 (Lab Number:10H1851-BS1, Batch: 10H1851)											
Total Dissolved Solids		500	4.0	NR	mg/L	470	94	85-115			B
General Chemistry Parameters											
Duplicate Analyzed: 08/26/10 (Lab Number:10H1885-DUP1, Batch: 10H1885)											
QC Source Sample: RTH1280-01											
Oxygen, Dissolved	8.24		0.05	NR	mg/L	8.37			2		
General Chemistry Parameters											
Blank Analyzed: 08/26/10 (Lab Number:10H1915-BLK1, Batch: 10H1915)											
Biochemical Oxygen Demand			5.0	NR	mg/L	ND					
LCS Analyzed: 08/26/10 (Lab Number:10H1915-BS1, Batch: 10H1915)											
Biochemical Oxygen Demand		198	2.0	NR	mg/L	213	108	85-115			
General Chemistry Parameters											
Blank Analyzed: 08/27/10 (Lab Number:10H1970-BLK1, Batch: 10H1970)											
Chemical Oxygen Demand			40.0	NR	mg/L	ND					
LCS Analyzed: 08/27/10 (Lab Number:10H1970-BS1, Batch: 10H1970)											
Chemical Oxygen Demand		75.0	10.0	NR	mg/L	80.6	107	90-110			
General Chemistry Parameters											
Blank Analyzed: 08/27/10 (Lab Number:10H2024-BLK1, Batch: 10H2024)											
Total Suspended Solids			10.0	NR	mg/L	ND					
LCS Analyzed: 08/27/10 (Lab Number:10H2024-BS1, Batch: 10H2024)											

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Work Order: RTH1280

Project: Quarterly Discharge Monitoring
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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
LCS Analyzed: 08/27/10 (Lab Number:10H2024-BS1, Batch: 10H2024)											
Total Suspended Solids		880	4.0	NR	mg/L	838	95	88-110			
General Chemistry Parameters											
Blank Analyzed: 09/01/10 (Lab Number:10H2255-BLK1, Batch: 10H2255)											
Total Kjeldahl Nitrogen			1.00	NR	mg/L as N	ND					
LCS Analyzed: 09/01/10 (Lab Number:10H2255-BS1, Batch: 10H2255)											
Total Kjeldahl Nitrogen		2.50	0.20	NR	mg/L as N	2.43	97	90-110			
General Chemistry Parameters											
Blank Analyzed: 09/04/10 (Lab Number:10I0130-BLK1, Batch: 10I0130)											
Phenolics, Total Recoverable			10.0	NR	ug/L	ND					L
LCS Analyzed: 09/04/10 (Lab Number:10I0130-BS1, Batch: 10I0130)											
Phenolics, Total Recoverable		100	10.0	NR	ug/L	116	116	90-110			L

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Greenstar Environmental Solutions	Project Manager: Peggy	Date:	Chain of Custody Number: 178547
Address: 6 Gellatly Dr.	Telephone Number (Area Code)/Fax Number: (845) 223-9944	Lab Number:	Page _ of _
City: Wappingers Falls / State: NY / Zip Code: 12590	Site Contact: Chip McLeod	Lab Contact:	
Project Name and Location (State): Airco Parcel Niagara Falls	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: Quarterly Discharge Mon.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	BOD	Hex Cr	Nitrite Nitrate	LPH	Phenols	Ammonia	COD TKN	T-metals	DO	TDS	TSS	624 VOAs	Special Instructions/ Conditions of Receipt
AP-EWE-01	8/25/10	12:30		14			8	2	1	3			1	1	1	1	1	1	1	1	1	1	1	3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	8-25	14:05	1. Received By: [signature] TABUFFARO	8/25/10	14:05
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

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

Analytical Report

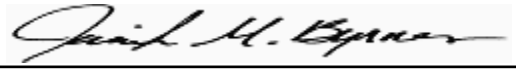
Work Order: RTG1241

Project Description
one time event

For:

Charles E. McLeod, Jr.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590



Jennifer Byrnes For Peggy Gray-Erdmann

Project Manager

jennifer.byrnes@testamericainc.com

Friday, July 23, 2010

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG1241

Project: one time event
Project Number: GES

Received: 07/19/10
Reported: 07/23/10 08:20

TestAmerica Buffalo
Current Certifications

As of 06/17/2010

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire *	NELAP SDWA, CWA	233701
New Jersey *	NELAP,SDWA, CWA, RCRA,	NY455
New York *	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
North Dakota	CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Oregon*	CWA,RCRA	NY200003
Pennsylvania*	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington*	NELAP CWA,RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA,RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG1241

Project: one time event
Project Number: GES

Received: 07/19/10
Reported: 07/23/10 08:20

CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG1241

Project: one time event
Project Number: GES

Received: 07/19/10
Reported: 07/23/10 08:20

DATA QUALIFIERS AND DEFINITIONS

CF6	Results confirmed by reanalysis.
P	The sample, as received, was not preserved in accordance to the referenced analytical method.
P15	Volume was poured off and preserved using ESS LOT # 032610 .
P3	Sample was received above recommended temperature.
P4	Sample received in inappropriate sample container.
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG1241

Project: one time event
Project Number: GES

Received: 07/19/10
Reported: 07/23/10 08:20

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTG1241-01 (T-3B - Water)					**Sampled: 07/19/10 11:00**		**Recvd: 07/19/10 12:17**		
Total Metals by EPA 200 Series Methods									
Chromium	**0.138**		0.0040	mg/L	1.00	07/21/10 20:51	LMH	10G1373	200.7
General Chemistry Parameters									
Chromium, Hexavalent	**0.0260**	CF6	0.0100	mg/L	1.00	07/19/10 21:23	RMB	10G1288	7196A

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG1241

Project: one time event
Project Number: GES

Received: 07/19/10
Reported: 07/23/10 08:20

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
T-3B	RTG1241-01	Water	07/19/10 11:00	07/19/10 12:17	P, P15, P4, P3
AP-SS-01	RTG1241-02	Water	07/19/10 11:00	07/19/10 12:17	P, P15, P4, P3

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG1241

Project: one time event
Project Number: GES

Received: 07/19/10
Reported: 07/23/10 08:20

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTG1241-01 (T-3B - Water)					**Sampled: 07/19/10 11:00**		**Recvd: 07/19/10 12:17**		
Total Metals by EPA 200 Series Methods									
Chromium	**0.138**		0.0040	mg/L	1.00	07/21/10 20:51	LMH	10G1373	200.7
Lead	ND		0.0050	mg/L	1.00	07/21/10 20:51	LMH	10G1373	200.7
General Chemistry Parameters									
Chromium, Hexavalent	**0.0260**	CF6	0.0100	mg/L	1.00	07/19/10 21:23	RMB	10G1288	7196A

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG1241

Project: one time event
Project Number: GES

Received: 07/19/10
Reported: 07/23/10 08:20

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTG1241-02 (AP-SS-01 - Water)					**Sampled: 07/19/10 11:00**		**Recvd: 07/19/10 12:17**		
Total Metals by EPA 200 Series Methods									
Chromium	ND		0.0040	mg/L	1.00	07/21/10 20:56	LMH	10G1373	200.7
Lead	ND		0.0050	mg/L	1.00	07/21/10 20:56	LMH	10G1373	200.7
General Chemistry Parameters									
Chromium, Hexavalent	ND		0.0100	mg/L	1.00	07/19/10 21:23	RMB	10G1288	7196A

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG1241

Project: one time event
Project Number: GES

Received: 07/19/10
Reported: 07/23/10 08:20

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
7196A	10G1288	RTG1241-01	25.00	mL	25.00	mL	07/19/10 21:23	RMB	Hex Digestion
7196A	10G1288	RTG1241-02	25.00	mL	25.00	mL	07/19/10 21:23	RMB	Hex Digestion
Total Metals by EPA 200 Series Methods									
200.7	10G1373	RTG1241-01	50.00	mL	50.00	mL	07/21/10 09:30	JRK	3005A
200.7	10G1373	RTG1241-02	50.00	mL	50.00	mL	07/21/10 09:30	JRK	3005A

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG1241

Project: one time event
Project Number: GES

Received: 07/19/10
Reported: 07/23/10 08:20

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by EPA 200 Series Methods										
Blank Analyzed: 07/21/10 (Lab Number:10G1373-BLK1, Batch: 10G1373)										
Chromium			0.0040	mg/L	ND					
Lead			0.0050	mg/L	ND					
LCS Analyzed: 07/21/10 (Lab Number:10G1373-BS1, Batch: 10G1373)										
Chromium		0.200	0.0040	mg/L	0.201	101	85-115			
Lead		0.200	0.0050	mg/L	0.201	100	85-115			

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG1241

Project: one time event
Project Number: GES

Received: 07/19/10
Reported: 07/23/10 08:20

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters										
Blank Analyzed: 07/19/10 (Lab Number:10G1288-BLK1, Batch: 10G1288)										
Chromium, Hexavalent			0.0100	mg/L	ND					
LCS Analyzed: 07/19/10 (Lab Number:10G1288-BS1, Batch: 10G1288)										
Chromium, Hexavalent		0.0500	0.0100	mg/L	0.0523	105	85-115			
Duplicate Analyzed: 07/19/10 (Lab Number:10G1288-DUP1, Batch: 10G1288)										
QC Source Sample: RTG1241-01										
Chromium, Hexavalent	0.0260		0.0100	mg/L	0.0279			7	15	
Matrix Spike Analyzed: 07/19/10 (Lab Number:10G1288-MS1, Batch: 10G1288)										
QC Source Sample: RTG1241-01										
Chromium, Hexavalent	0.0260	0.0500	0.0100	mg/L	0.0796	107	85-115			

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Greenstar Environmental		7-19-10	159640
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page**
6 Gellatly Dr.	(845) 223-9944		Page 1 of 1
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	**Analysis (Attach list if more space is needed)**
Wappingers Falls NY / 12590	Chip McLeod		
Project Name and Location (State)	**Carrier/Waybill Number**		
Airco Parcel Niagara Falls N.Y.			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Water	Soil	Sed	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	CR+6	Total chrom	Pb	Special Instructions/ Conditions of Receipt
T-3B	7-19-10	11:00		X			X						X	X	X	
AP_SS-01	7-19-10	11:00		X			X						X	X	X	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	7-19	12:17	1. Received By	7/19/10	1217
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

16.0°C, NO ICE

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Analytical Report

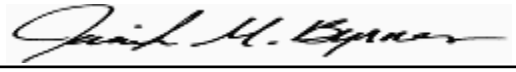
Work Order: RTG0719

Project Description
one time event

For:

Charles E. McLeod, Jr.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590



Jennifer Byrnes For Peggy Gray-Erdmann

Project Manager

jennifer.byrnes@testamericainc.com

Monday, July 19, 2010

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG0719

Project: one time event
Project Number: GES

Received: 07/08/10
Reported: 07/19/10 14:33

TestAmerica Buffalo
Current Certifications

As of 06/17/2010

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire *	NELAP SDWA, CWA	233701
New Jersey *	NELAP,SDWA, CWA, RCRA,	NY455
New York *	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
North Dakota	CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Oregon*	CWA,RCRA	NY200003
Pennsylvania*	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington*	NELAP CWA,RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA,RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG0719

Project: one time event
Project Number: GES

Received: 07/08/10
Reported: 07/19/10 14:33

CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG0719

Project: one time event
Project Number: GES

Received: 07/08/10
Reported: 07/19/10 14:33

DATA QUALIFIERS AND DEFINITIONS

P3 Sample was received above recommended temperature.

NR Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG0719

Project: one time event
Project Number: GES

Received: 07/08/10
Reported: 07/19/10 14:33

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTG0719-01 (T-3B - Water)					**Sampled: 07/08/10 16:40**		**Recvd: 07/08/10 17:20**		
Total Metals by EPA 200 Series Methods									
Chromium	**0.134**		0.0040	mg/L	1.00	07/12/10 22:54	DAN	10G0551	200.7
General Chemistry Parameters									
Chromium, Hexavalent	**0.0387**		0.0100	mg/L	1.00	07/09/10 01:35	JLN	10G0496	7196A

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG0719

Project: one time event
Project Number: GES

Received: 07/08/10
Reported: 07/19/10 14:33

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
T-3B	RTG0719-01	Water	07/08/10 16:40	07/08/10 17:20	P3
SW CORNER (AP-SS-01)	RTG0719-02	Water	07/08/10 16:40	07/08/10 17:20	P3

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG0719

Project: one time event
Project Number: GES

Received: 07/08/10
Reported: 07/19/10 14:33

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTG0719-01 (T-3B - Water)					**Sampled: 07/08/10 16:40**		**Recvd: 07/08/10 17:20**		
Total Metals by EPA 200 Series Methods									
Chromium	**0.134**		0.0040	mg/L	1.00	07/12/10 22:54	DAN	10G0551	200.7
General Chemistry Parameters									
Chromium, Hexavalent	**0.0387**		0.0100	mg/L	1.00	07/09/10 01:35	JLN	10G0496	7196A

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG0719

Project: one time event
Project Number: GES

Received: 07/08/10
Reported: 07/19/10 14:33

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTG0719-02 (SW CORNER (AP-SS-01) - Water)					**Sampled: 07/08/10 16:40**		**Recvd: 07/08/10 17:20**		
Total Metals by EPA 200 Series Methods									
Chromium	ND		0.0040	mg/L	1.00	07/12/10 22:59	DAN	10G0551	200.7
General Chemistry Parameters									
Chromium, Hexavalent	ND		0.0100	mg/L	1.00	07/09/10 01:35	JLN	10G0496	7196A

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG0719

Project: one time event
Project Number: GES

Received: 07/08/10
Reported: 07/19/10 14:33

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
7196A	10G0496	RTG0719-01	25.00	mL	25.00	mL	07/09/10 01:35	JLN	Hex Digestion
7196A	10G0496	RTG0719-02	25.00	mL	25.00	mL	07/09/10 01:35	JLN	Hex Digestion
Total Metals by EPA 200 Series Methods									
200.7	10G0551	RTG0719-01	50.00	mL	50.00	mL	07/12/10 08:10	KCW	3005A
200.7	10G0551	RTG0719-02	50.00	mL	50.00	mL	07/12/10 08:10	KCW	3005A

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG0719

Project: one time event
Project Number: GES

Received: 07/08/10
Reported: 07/19/10 14:33

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by EPA 200 Series Methods										
Blank Analyzed: 07/12/10 (Lab Number:10G0551-BLK1, Batch: 10G0551)										
Chromium			0.0040	mg/L	ND					
LCS Analyzed: 07/12/10 (Lab Number:10G0551-BS1, Batch: 10G0551)										
Chromium		0.200	0.0100	mg/L	0.196	98	85-115			

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTG0719

Project: one time event
Project Number: GES

Received: 07/08/10
Reported: 07/19/10 14:33

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters										
Blank Analyzed: 07/09/10 (Lab Number:10G0496-BLK1, Batch: 10G0496)										
Chromium, Hexavalent			0.0100	mg/L	ND					
LCS Analyzed: 07/09/10 (Lab Number:10G0496-BS1, Batch: 10G0496)										
Chromium, Hexavalent		0.0500	0.0100	mg/L	0.0464	93	85-115			
Duplicate Analyzed: 07/09/10 (Lab Number:10G0496-DUP1, Batch: 10G0496)										
QC Source Sample: RTG0719-01										
Chromium, Hexavalent	0.0387		0.0100	mg/L	0.0377			3	15	
Matrix Spike Analyzed: 07/09/10 (Lab Number:10G0496-MS1, Batch: 10G0496)										
QC Source Sample: RTG0719-02										
Chromium, Hexavalent	ND	0.0500	0.0100	mg/L	0.0464	93	85-115			

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

VA-4124-1007

Client: Greenstar Environmental

Project Manager:

Date: 7/8/10

Chain of Custody Number: 159639

Address: 6 Gellatly Dr.

Telephone Number (Area Code)/Fax Number: (845) 223-9944

Lab Number:

Page 1 of 1

City: Wappingers Falls | State: NY | Zip Code: 12590

Site Contact: Chip McLeod | Lab Contact:

Project Name and Location (State): Airco Parcel

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	$ZnAc/NaOH$	8 CR + 6 Total Chrom
T-3B SW corner (AP-SS-01)	7/8/10	16:40		1		1	1						1

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	7/8/10	17:20	1. Received By	7/8/10	1720
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments:

15.0°C, ND ICE

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

Analytical Report

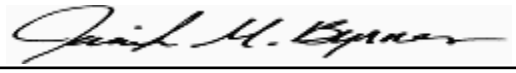
Work Order: RTI0954

Project Description
one time event

For:

Charles E. McLeod, Jr.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590



Jennifer Byrnes For Peggy Gray-Erdmann

Project Manager

jennifer.byrnes@testamericainc.com

Thursday, September 16, 2010

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTI0954

Project: one time event
Project Number: GES

Received: 09/14/10
Reported: 09/16/10 15:41

TestAmerica Buffalo
Current Certifications

As of 08/16/2010

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA	10026
North Dakota	CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Oregon*	CWA,RCRA	NY200003
Pennsylvania*	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington*	NELAP CWA,RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA,RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parame ters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTI0954

Project: one time event
Project Number: GES

Received: 09/14/10
Reported: 09/16/10 15:41

CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappinger Falls, NY 12590

Work Order: RTI0954

Project: one time event
Project Number: GES

Received: 09/14/10
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DATA QUALIFIERS AND DEFINITIONS

NR Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

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Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
			Sampled:			**Recvd:**		

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Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
AP-SS-01	RTI0954-01	Water	09/14/10 18:30	09/14/10 19:15	

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTI0954-01 (AP-SS-01 - Water)					**Sampled: 09/14/10 18:30**		**Recvd: 09/14/10 19:15**		
Total Metals by EPA 200 Series Methods									
Chromium	ND		0.0040	mg/L	1.00	09/15/10 14:48	DAN	10I0896	200.7
General Chemistry Parameters									
Chromium, Hexavalent	ND		0.0100	mg/L	1.00	09/14/10 22:31	JFR	10I0889	7196A

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SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
7196A	10I0889	RTI0954-01	25.00	mL	25.00	mL	09/14/10 22:31	JFR	Hex Digestion
Total Metals by EPA 200 Series Methods									
200.7	10I0896	RTI0954-01	50.00	mL	50.00	mL	09/15/10 07:15	JRK	3005A

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by EPA 200 Series Methods										
Blank Analyzed: 09/15/10 (Lab Number:10I0896-BLK1, Batch: 10I0896)										
Chromium			0.0040	mg/L	ND					
LCS Analyzed: 09/15/10 (Lab Number:10I0896-BS1, Batch: 10I0896)										
Chromium		0.200	0.0040	mg/L	0.199	99	85-115			
Matrix Spike Analyzed: 09/15/10 (Lab Number:10I0896-MS1, Batch: 10I0896)										
QC Source Sample: RTI0954-01										
Chromium	ND	0.200	0.0040	mg/L	0.202	101	70-130			
Matrix Spike Dup Analyzed: 09/15/10 (Lab Number:10I0896-MSD1, Batch: 10I0896)										
QC Source Sample: RTI0954-01										
Chromium	ND	0.200	0.0040	mg/L	0.200	100	70-130	1	20	

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters										
Blank Analyzed: 09/14/10 (Lab Number:10I0889-BLK1, Batch: 10I0889)										
Chromium, Hexavalent			0.0100	mg/L	ND					
LCS Analyzed: 09/14/10 (Lab Number:10I0889-BS1, Batch: 10I0889)										
Chromium, Hexavalent		0.0500	0.0100	mg/L	0.0508	102	85-115			
Duplicate Analyzed: 09/14/10 (Lab Number:10I0889-DUP1, Batch: 10I0889)										
QC Source Sample: RTI0954-01										
Chromium, Hexavalent	ND		0.0100	mg/L	ND				15	

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Greenstar Environmental	Project Manager	Date	Chain of Custody Number: 125500
Address: 6 Gellatly Dr.	Telephone Number (Area Code)/Fax Number: (845) 223-9944	Lab Number	Page _____ of _____
City: Wappingers Falls / State: NY / Zip Code: 12590	Site Contact: Chip McLeod / Lab Contact	Analysis (Attach list if more space is needed)	
Project Name and Location (State): Airco Parcel	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Cr+6	Total Chrom	Special Instructions/ Conditions of Receipt
[redacted] AP-SS-01	9-14-10	18:30		X									X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	9-14-10	19:15	1. Received By	9.14.10	1915
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

8.0 °C

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

Attachment G

Monthly Operation and Maintenance Details
July – December 2010

1. INTRODUCTION

This report presents a summary of the ongoing operation and maintenance activities for the Airco Parcel, Niagara Falls, New York, from 1 July to 31 December 2010. It includes a summary of ongoing operations, system repairs, corrective actions, improvements, and an evaluation of the groundwater collection and treatment system (GCTS) performance.

2. ROUTINE OPERATION AND MAINTENANCE

A revision to the discharge limit was requested in the 1st 2010 Bi-Annual report. The increase was requested from 21,600 gallons per day (gpd) discharge to 36,000 gpd. The increase was granted in a letter dated 14 June 2010. Comparing the discharge flow rates to the revised value, the system did not exceed the 36,000 gpd threshold. During this report period, the overall system average flow rate was 11.4 gallons per minute (gpm).

Table 2 of the second 2010 Bi-Annual Monitoring Event Letter Report provides a summary of the quarterly effluent analytical data from the August and September 2010 sampling events. Routine operation and maintenance was completed throughout the monitoring period. Field tasks included system checks, data collection, and field analysis of treatment water at various stages of the treatment process, transducer cleanings, and general site maintenance.

3. SYSTEM OPERATIONS AND EFFICIENCY

During this monitoring period, 3,013,310 gal of groundwater were treated and discharged to the stormwater swale adjacent to the engineered wetlands. The system average flow rate was 11.4 gpm during the reporting period. The treatment system was operational for 100 percent of the reporting period. The emergency overflow pond (T8) was utilized while the tank and line cleaning was performed during the reporting period. No releases to the environment occurred during the reporting period.

The completed System Monitoring Checklists are provided in Attachment G.1. Monthly GCTS flow calculations are provided in Attachment G.2. During the reporting period, an estimated 2 pounds (lb) of total chromium was treated by the GCTS, of which an estimated 1 lb was hexavalent chromium. These values are based on the total gallons treated and the average influent and effluent concentrations observed from the bi-weekly field sampling.

3.1 SYNOPSIS OF THE BI-ANNUAL ACTIVITIES

July 2010

The system was operational for all 31 days in July. No alarm conditions were reported during the month of July. No scheduled or unscheduled shut downs or system bypasses occurred. The following details the activities which were performed during July:

- 7 July 2010 – Routine site visit. Cleaned and calibrated pH probes in T3B and T6B. DR4000 will not calibrate. Shipped back to Hach for service. Mowed grass around T-7.
- 18 July 2010 – Routine site visit. DR4000 not back from Hach. Collected compliance sample for fixed laboratory analysis. Cut grass around T-7 and T-8. Resolved Generator communication issues. Cleaned T-3 crossover pipes. Picked up rebuilt hydromatic pump. Cleaned T-7 discharge pipe.

August 2010

The system was operational for all 31 days in August. No alarm conditions were reported during the month of August. No scheduled or unscheduled shut downs or system bypasses occurred. The following details the activities which were performed during August:

- 2 August 2010 – Routine site visit. Clean and calibrate pH probes. Pumped down T-3A and cleared blockage on inlet from T-1. Cut grass around T-7 and T-8. DR4000 returned from Hach. Cleared crossover pipes in T-3A.
- 24 August 2010 – Routine site visit. Clean and calibrate pH probes. Quarterly EWE effluent sample collected. Gauged wells for groundwater model. Cut grass around T-7 and T-8. Cleaned and calibrated pH probes. NYSDEC Mike Hinton on site for visit.

September 2010

The system was operational for all 30 days in September. No alarm conditions were reported during the month of September. No scheduled or unscheduled shut downs or system bypasses occurred. The following details the activities which were performed during September:

- 3 September 2010 – Routine site visit. Clean and calibrate pH probes. Suspended T-3A PT to get it out of sediment. Cut grass around T-7 and T-8. Cleaned crossover pipes in T3A.
- 14 September 2010 – Routine site visit. Gauged wells for groundwater model. Confirmatory sample sent to fixed lab due to high chrome level in field tests. Cleaned and calibrated pH probes.
- 27 September 2010 – Mobilized to the site to complete the system cleaning of tanks and lines.
- 28 September 2010 – Mobilized to the site to complete the second 2010 bi-annual sampling event.

October 2010

The system was operational for 31 days in October. One alarm condition was reported during the month of October. A P-1B pump fail to start condition occurred. Mobilization to the site was combined with a routine site visit. No scheduled or unscheduled shut downs or system bypasses occurred. The following details the activities which were performed during October:

- 1 October 2010 – System cleaning completed.
- 13 October 2010 – Routine site visit. Clean and calibrate pH probes. Could not sample EWE at SS-01 due to no flow as a result of T-7 outfall work. Deficiencies noted in the engineering inspections being repaired.
- 22 October 2010 – Mobilized to the site to perform a routine site visit and to evaluate the P-1B pump fail to start alarm condition. Rest the VFD. No other abnormalities noted.

November 2010

The system was operational for 30 days in November. One alarm condition was reported during the month of November. A P-6B high level alarm condition was reported. Mobilization to the site was combined with a routine site visit. No scheduled or unscheduled shut downs or system bypasses occurred. The following details the activities which were performed during November:

- 14 November 2010 – Emergency response combined with a routine site visit. Mowed the grass around T7 and T8. Unable to sample EWE at SS-01 due to low system flow. Removed mouse nest in trough box in main panel. Alarm condition found to be caused by faulty pressure transducer in T-6B. Swapped with T-8 pressure transducer, ordered 2 pressure transducers, one for parts inventory.
- 30 November 2010 – Routine site visit. Clean and calibrate pH probes. Replaced T-3A tank cover on first row of tanks. Installed recently ordered pressure transducer into T-6B and moved borrowed one back to T-8.

December 2010

The system was operational for 31 days in December. No alarm conditions were reported during the month of December. No scheduled or unscheduled shut downs or system bypasses occurred. The following details the activities which were performed during December:

- 13 December 2010 – Routine site visit. Cleaned and calibrated pH probes. Replaced locks (2) on entry gates. Noticed liquid Flocculent (Sodium Aluminate) leaking from cracked line to pump, spill confined to secondary containment vessel. Closed main valve-leak stopped.
- 29 December 2010 – Competed the engineer's inspection. Calibrated pH probes. Put Combination locks on 2 new wells, need to order new keyed alike locks.

4. MODIFICATIONS/IMPROVEMENTS AND RECOMMENDATIONS

4.1 SYSTEM MODIFICATION/IMPROVEMENTS

No system modifications to the GCTS were performed during the report period. The following site maintenance activities were performed to address deficiencies noted during the engineering inspections:

- Areas of disturbance around the T-7 pond required repair. The top of the T-7 berm in some areas is as much as 1.5' lower than other areas. Fill was added and topsoil placed to raise the berm elevation.
- The T-7 outlet pipe was excavated and repaired to prevent blockages from forming.
- Culverts were installed under the access road in the southwest corner to aid in the prevention of water backing up and flooding the drywell.
- The damaged T-3A tank cover was replaced.

5. PROJECTED OPERATION AND MAINTENACE

5.1 JANUARY – JULY 2011

During the first bi-annual report period of 2011, Greenstar anticipates performing routine operation and maintenance activities. Routine activities during the second report period will include routine cleaning and calibration, pump replacements, and other activities as required.

6. SYSTEM MONITORING

6.1 ENVIRONMENTAL SAMPLING

Routine system sampling with field analysis will continue on an as needed basis to ensure chromium removal efficiency is maintained and no short circuiting is occurring in the zero valence iron beds. Quarterly discharge samples are anticipated to be collected in March and June 2011 from the GCTS to monitor the New York State Department of Environmental Conservation discharge permit guidelines. The next groundwater monitoring event for 2011 is anticipated to occur in June 2010.

Attachment G.1

Airco Parcel Bi-Weekly System Monitoring Checklists July – December 2010

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 7/8/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Sun 85		
READING		*ITEM*
233		Carbon Dioxide Storage Tank Pressure (220-235 psi)
5,300		Carbon Dioxide Tank Liquid Level
2.9		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.0		T3A Water Elevation
6.3		T3B pH Reading
613.9		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
611.5		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.5		T6B pH
613.9		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.5		T7 Water Level Reading
6.7		T7 pH
2.3		T8 Water Elevation
27,949,990		Flow Meter Reading
18.7		Average System Flow
30.8		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
		Calcium Settling Pond Effluent (T3)
		Iron Settling Pond Effluent (T6)
		Engineered Wetland Effluent (T7)
		Southwest Corner Effluent (SS-1)
Notes: DR/4000 won't calibrate. Shipped to Hach for Service. EWE sample taken to TestAmerica for analysis. Cut grass around T-7. Cleaned and calibrated pH probes.		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 7/18/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Sun 85		
READING		*ITEM*
230		Carbon Dioxide Storage Tank Pressure (220-235 psi)
7,300		Carbon Dioxide Tank Liquid Level
3.2		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.1		T3A Water Elevation
6.4		T3B pH Reading
613.4		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
611.8		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.5		T6B pH
613.3		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.5		T7 Water Level Reading
6.8		T7 pH
2.1		T8 Water Elevation
28,220,314		Flow Meter Reading
17.8		Average System Flow
31.0		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
X	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
X	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
X	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
X	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
X	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
X	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
X	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
X	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.35		Calcium Settling Pond Effluent (T3)
6.35		Iron Settling Pond Effluent (T6)
6.8		Engineered Wetland Effluent (T7)
7.42		Southwest Corner Effluent (SS-1)
Notes: Due to DR/4000 out for repairs, EWE sample taken to TestAmerica for analysis. Cut grass around T-7 and T-8. Resolved Generator communication issues. Cleaned T-3 crossover pipes. Picked up rebuilt hydromatic pump. Cleaned T-7 discharge pipe.		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 8/2/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Sun 82 degrees		
READING		*ITEM*
234		Carbon Dioxide Storage Tank Pressure (220-235 psi)
7,100		Carbon Dioxide Tank Liquid Level
3.1		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.1		T3A Water Elevation
6.3		T3B pH Reading
614.4		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
613.1		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.4		T6B pH
613.8		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.4		T7 Water Level Reading
6.5		T7 pH
2.4		T8 Water Elevation
28,588,166		Flow Meter Reading
16.0		Average System Flow
31.4		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.021	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.061	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
ND	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
ND	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.022	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.011	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.005	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.011	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.38		Calcium Settling Pond Effluent (T3)
6.43		Iron Settling Pond Effluent (T6)
6.78		Engineered Wetland Effluent (T7)
7.27		Southwest Corner Effluent (SS-1)
Notes: Pumped down T-3A and cleared blockage on inlet from T-1. Cut grass around T-7 & T-8. DR4000 returned from Hach. Cleared crossover pipes in T-3A. Cleaned and calibrated pH probes.		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 8/24/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Sun 80 Degrees		
READING		*ITEM*
248		Carbon Dioxide Storage Tank Pressure (220-235 psi)
12,900		Carbon Dioxide Tank Liquid Level
2.9		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.2		T3A Water Elevation
6.4		T3B pH Reading
614.1		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
612.2		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.5		T6B pH
613.6		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.4		T7 Water Level Reading
6.7		T7 pH
2.5		T8 Water Elevation
29,092,120		Flow Meter Reading
13.7		Average System Flow
31.9		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.007	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.038	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
ND	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.015	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.023	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.038	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.008	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.017	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.20		Calcium Settling Pond Effluent (T3)
6.30		Iron Settling Pond Effluent (T6)
6.70		Engineered Wetland Effluent (T7)
7.26		Southwest Corner Effluent (SS-1)
Notes: Quarterly sampling. Gauge wells for GW Model. Cut grass. Cleaned and calibrated pH probes. NYSDEC Mike Hinton on site for visit.		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 9/3/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Cloudy 90 Degrees		
READING		*ITEM*
229		Carbon Dioxide Storage Tank Pressure (220-235 psi)
7,300		Carbon Dioxide Tank Liquid Level
2.9		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.7		T3A Water Elevation
6.11		T3B pH Reading
613.0		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
613.4		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.25		T6B pH
613.0		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.4		T7 Water Level Reading
6.9		T7 pH
2.4		T8 Water Elevation
29,286,598		Flow Meter Reading
13.3		Average System Flow
32.3		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.008	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.035	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
ND	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.028	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.026	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.042	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.004	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.014	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.22		Calcium Settling Pond Effluent (T3)
6.17		Iron Settling Pond Effluent (T6)
6.70		Engineered Wetland Effluent (T7)
7.30		Southwest Corner Effluent (SS-1)
Notes: Suspended T-3A PT to get it out of sediment. Cleaned and calibrated pH probes. Cut lawn. Cleaned crossover pipes in T3A.		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 9/14/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather:		
READING		*ITEM*
233		Carbon Dioxide Storage Tank Pressure (220-235 psi)
10,600		Carbon Dioxide Tank Liquid Level
2.9		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.2		T3A Water Elevation
6.2		T3B pH Reading
614.3		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
613.5		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.5		T6B pH
614.0		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.4		T7 Water Level Reading
6.5		T7 pH
2.5		T8 Water Elevation
29,477,234		Flow Meter Reading
10.4		Average System Flow
		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.008	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.030	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
ND	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.050	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.029	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.035	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.046	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.050	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.34		Calcium Settling Pond Effluent (T3)
6.43		Iron Settling Pond Effluent (T6)
6.95		Engineered Wetland Effluent (T7)
7.48		Southwest Corner Effluent (SS-1)
Notes: Gauge wells. Confirmatory sample to lab for high chrome levels in field tests. Cleaned and calibrated pH probes.		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 10/13/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Sun 60 degrees		
READING		*ITEM*
234		Carbon Dioxide Storage Tank Pressure (220-235 psi)
9,200		Carbon Dioxide Tank Liquid Level
2.9		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.1		T3A Water Elevation
6.3		T3B pH Reading
614.3		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
613.3		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.5		T6B pH
613.7		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.4		T7 Water Level Reading
6.4		T7 pH
2.3		T8 Water Elevation
29,745,308		Flow Meter Reading
2.7		Average System Flow
33.1		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.052	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.026	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.008	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.047	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.006	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.017	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
N/A	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
N/A	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.06		Calcium Settling Pond Effluent (T3)
6.27		Iron Settling Pond Effluent (T6)
6.86		Engineered Wetland Effluent (T7)
N/A		Southwest Corner Effluent (SS-1)
Notes: Could not sample EWE at SS-01 due to low flow caused by T-7 outfall work. Contractor onsite addressing deficiencies noted in engineering inspections.		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 10/22/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Sun 45 degrees		
READING		*ITEM*
230		Carbon Dioxide Storage Tank Pressure (220-235 psi)
4,500		Carbon Dioxide Tank Liquid Level
2.6		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.2		T3A Water Elevation
6.0		T3B pH Reading
613.2		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
613.2		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.5		T6B pH
612.6		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.4		T7 Water Level Reading
6.6		T7 pH
2.8		T8 Water Elevation
29,796,916		Flow Meter Reading
3.7		Average System Flow
33.5		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.010	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.090	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.051	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.049	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.007	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.084	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.008	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.018	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.23		Calcium Settling Pond Effluent (T3)
6.31		Iron Settling Pond Effluent (T6)
6.90		Engineered Wetland Effluent (T7)
7.39		Southwest Corner Effluent (SS-1)
Notes: Emergency response for P-1B failure. Reset VFD. Cleaned and calibrated pH probes.		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 11/15/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Sun 48 degrees		
READING		*ITEM*
232		Carbon Dioxide Storage Tank Pressure (220-235 psi)
9,500		Carbon Dioxide Tank Liquid Level
2.8		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.1		T3A Water Elevation
6.0		T3B pH Reading
614.0		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
611.5		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.4		T6B pH
N/A		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.5		T7 Water Level Reading
6.8		T7 pH
N/A		T8 Water Elevation
29,880,362		Flow Meter Reading
2.2		Average System Flow
34.0		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.046	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.099	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.041	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.004	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.039	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.007	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
N/A	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
N/A	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.03		Calcium Settling Pond Effluent (T3)
6.25		Iron Settling Pond Effluent (T6)
6.70		Engineered Wetland Effluent (T7)
N/A		Southwest Corner Effluent (SS-1)
Notes: Unable to sample EWE at SS-01 due to low system flow. Removed mouse nest in trough box in main panel. Trouble with pressure transducer in T-6B. Swapped with T-8 PT until replacement is ordered.		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 11/30/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Rain 40 degrees		
READING		*ITEM*
234		Carbon Dioxide Storage Tank Pressure (220-235 psi)
7,700		Carbon Dioxide Tank Liquid Level
2.7		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.2		T3A Water Elevation
6.1		T3B pH Reading
614.1		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
612.2		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
612.2		T6A Water Elevation
6.6		T6B pH
613.4		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.6		T7 Water Level Reading
6.8		T7 pH
3.6		T8 Water Elevation
30,080,784		Flow Meter Reading
13.5		Average System Flow
34.4		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.079	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.074	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.029	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
ND	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.048	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.035	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.010	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.016	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.01		Calcium Settling Pond Effluent (T3)
6.18		Iron Settling Pond Effluent (T6)
6.55		Engineered Wetland Effluent (T7)
7.14		Southwest Corner Effluent (SS-1)
Notes: Replaced pressure transducer in T-6B. Replaced tarp on first tank of T-3A.		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 12/13/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Snow 8 Degrees		
READING		*ITEM*
9,000		Carbon Dioxide Storage Tank Pressure (220-235 psi)
234		Carbon Dioxide Tank Liquid Level
2.7		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.2		T3A Water Elevation
6.3		T3B pH Reading
614.1		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
611.5		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.5		T6B pH
613.9		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.5		T7 Water Level Reading
6.8		T7 pH
3.7		T8 Water Elevation
30,357,790		Flow Meter Reading
11.9		Average System Flow
34.7		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.050	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.082	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
ND	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.018	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
ND	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.007	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.007	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.015	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.30		Calcium Settling Pond Effluent (T3)
6.26		Iron Settling Pond Effluent (T6)
6.52		Engineered Wetland Effluent (T7)
7.13		Southwest Corner Effluent (SS-1)
Notes: Cleaned and calibrated pH probes. Replaced locks (2) on entry gates. Noticed liquid Flocculent (Sodium Aluminate) leaking from cracked line to pump, spill confined to secondary containment vessel. Closed main valve-leak stopped.		

GCTS DATA RECORDING SHEET
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Date: 12/29/30	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Overcast 30 Degrees		
READING		*ITEM*
232		Carbon Dioxide Storage Tank Pressure (220-235 psi)
5,800		Carbon Dioxide Tank Liquid Level
3.4		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.2		T3A Water Elevation
6.4		T3B pH Reading
614.5		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
612.6		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.2		T6A Water Elevation
6.5		T6B pH
613.3		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.5		T7 Water Level Reading
6.6		T7 pH
3.6		T8 Water Elevation
30,714,626		Flow Meter Reading
16.8		Average System Flow
35.1		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.058	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.118	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.026	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.012	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.001	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.018	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.005	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.019	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.36		Calcium Settling Pond Effluent (T3)
6.30		Iron Settling Pond Effluent (T6)
6.55		Engineered Wetland Effluent (T7)
7.04		Southwest Corner Effluent (SS-1)
Notes: Competed the engineer's inspection. Recalibrated pH probe in T6-B. Put Combination locks on 2 new wells, need to order new keyed alike locks.		

Attachment G.2

Airco Parcel GCTS
Monthly Flow Calculations
July – December 2010

Monthly Airco Parcel GCTS
Flow Calculations
July 2011

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
7/1/2010	41	20	28,524	27,765,016	24	0
7/2/2010	41	20	28,434	27,793,450	24	0
7/3/2010	40	20	28,318	27,821,768	24	0
7/4/2010	40	20	28,090	27,849,858	24	0
7/5/2010	40	19	27,792	27,877,650	24	0
7/6/2010	40	19	27,598	27,905,248	24	0
7/7/2010	40	19	27,194	27,932,442	24	0
7/8/2010	40	19	26,706	27,959,148	24	0
7/9/2010	40	20	28,802	27,987,950	24	0
7/10/2010	40	20	28,300	28,016,250	24	0
7/11/2010	40	19	27,514	28,043,764	24	0
7/12/2010	40	19	27,202	28,070,966	24	0
7/13/2010	40	19	27,104	28,098,070	24	0
7/14/2010	40	19	26,854	28,124,924	24	0
7/15/2010	39	19	26,928	28,151,852	24	0
7/16/2010	39	18	26,466	28,178,318	24	0
7/17/2010	39	18	26,122	28,204,440	24	0
7/18/2010	39	18	25,774	28,230,214	24	0
7/19/2010	39	18	25,780	28,255,994	24	0
7/20/2010	39	18	25,650	28,281,644	24	0
7/21/2010	39	18	25,260	28,306,904	24	0
7/22/2010	39	17	24,818	28,331,722	24	0
7/23/2010	39	18	25,882	28,357,604	24	0
7/24/2010	39	18	25,616	28,383,220	24	0
7/25/2010	39	17	25,196	28,408,416	24	0
7/26/2010	39	17	24,228	28,432,644	24	0
7/27/2010	39	17	23,926	28,456,570	24	0
7/28/2010	39	17	24,592	28,481,162	24	0
7/29/2010	39	17	24,054	28,505,216	24	0
7/30/2010	39	17	23,918	28,529,134	24	0
7/31/2010	39	16	23,100	28,552,234	24	0
Sample Measurement	**41**	**18**	**815,742**	**28,552,234**	**31**	**100%**
	Daily Maximum (GPM)	Monitoring Period Average (GPM)	Monitoring Period Total (GAL)	Cumulative Total (GAL)	Runtime (Days)	Operational Percentage

Monthly Airco Parcel GCTS
Flow Calculations
August 2011

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
8/1/2010	39	16	23,328	28,575,562	24	0
8/2/2010	40	18	26,420	28,601,982	24	0
8/3/2010	39	14	20,058	28,622,040	24	0
8/4/2010	39	16	23,158	28,645,198	24	0
8/5/2010	39	16	23,184	28,668,382	24	0
8/6/2010	39	16	22,620	28,691,002	24	0
8/7/2010	39	15	22,130	28,713,132	24	0
8/8/2010	39	15	22,030	28,735,162	24	0
8/9/2010	39	16	22,320	28,757,482	24	0
8/10/2010	39	19	27,880	28,785,362	24	0
8/11/2010	39	17	25,114	28,810,476	24	0
8/12/2010	39	17	23,998	28,834,474	24	0
8/13/2010	39	17	23,798	28,858,272	24	0
8/14/2010	39	16	23,542	28,881,814	24	0
8/15/2010	39	17	23,914	28,905,728	24	0
8/16/2010	39	16	23,314	28,929,044	24	0
8/17/2010	39	16	22,650	28,951,694	24	0
8/18/2010	39	15	22,226	28,973,920	24	0
8/19/2010	39	15	21,794	28,995,714	24	0
8/20/2010	39	15	21,172	29,016,886	24	0
8/21/2010	39	15	21,040	29,037,926	24	0
8/22/2010	40	16	22,860	29,060,786	24	0
8/23/2010	40	14	20,318	29,081,104	24	0
8/24/2010	39	14	20,068	29,101,172	24	0
8/25/2010	40	15	21,248	29,122,420	24	0
8/26/2010	40	14	19,638	29,142,058	24	0
8/27/2010	39	13	19,400	29,161,458	24	0
8/28/2010	39	13	19,342	29,180,800	24	0
8/29/2010	40	13	19,076	29,199,876	24	0
8/30/2010	39	13	19,406	29,219,282	24	0
8/31/2010	39	13	18,968	29,238,250	24	0
Sample Measurement	**40**	**15**	**680,614**	**29,238,250**	**31**	**100%**
	Daily Maximum (GPM)	Monitoring Period Average (GPM)	Monitoring Period Total (GAL)	Cumulative Total (GAL)	Runtime (Days)	Operational Percentage

Monthly Airco Parcel GCTS
Flow Calculations
September 2011

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
9/1/2010	39	13	19,280	29,257,530	24	0
9/2/2010	39	13	19,040	29,276,570	24	0
9/3/2010	40	13	18,696	29,295,266	24	0
9/4/2010	40	13	18,032	29,313,298	24	0
9/5/2010	40	12	16,572	29,329,870	24	0
9/6/2010	40	12	16,938	29,346,808	24	0
9/7/2010	40	12	17,200	29,364,008	24	0
9/8/2010	40	11	16,446	29,380,454	24	0
9/9/2010	40	11	15,778	29,396,232	24	0
9/10/2010	40	11	15,484	29,411,716	24	0
9/11/2010	40	11	15,566	29,427,282	24	0
9/12/2010	40	11	15,290	29,442,572	24	0
9/13/2010	40	11	15,156	29,457,728	24	0
9/14/2010	40	10	14,904	29,472,632	24	0
9/15/2010	40	10	14,638	29,487,270	24	0
9/16/2010	40	11	15,686	29,502,956	24	0
9/17/2010	40	10	13,826	29,516,782	24	0
9/18/2010	40	10	13,858	29,530,640	24	0
9/19/2010	40	10	14,946	29,545,586	24	0
9/20/2010	40	9	13,630	29,559,216	24	0
9/21/2010	40	10	13,714	29,572,930	24	0
9/22/2010	40	10	13,986	29,586,916	24	0
9/23/2010	40	9	13,638	29,600,554	24	0
9/24/2010	40	10	14,696	29,615,250	24	0
9/25/2010	40	9	13,418	29,628,668	24	0
9/26/2010	40	9	12,948	29,641,616	24	0
9/27/2010	40	9	12,780	29,654,396	24	0
9/28/2010	40	19	26,852	29,681,248	24	0
9/29/2010	40	6	8,476	29,689,724	24	0
9/30/2010	39	3	4,110	29,693,834	24	0
Sample Measurement	**40**	**11**	**455,584**	**29,693,834**	**30**	**100%**
	Daily Maximum (GPM)	Monitoring Period Average (GPM)	Monitoring Period Total (GAL)	Cumulative Total (GAL)	Runtime (Days)	Operational Percentage

Monthly Airco Parcel GCTS
Flow Calculations
October 2011

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
10/1/2010	0	0	0	29,693,834	24	0
10/2/2010	40	4	5,654	29,699,488	24	0
10/3/2010	40	6	8,344	29,707,832	24	0
10/4/2010	40	5	7,784	29,715,616	24	0
10/5/2010	40	6	8,230	29,723,846	24	0
10/6/2010	40	4	6,298	29,730,144	24	0
10/7/2010	40	3	5,018	29,735,162	24	0
10/8/2010	40	1	1,302	29,736,464	24	0
10/9/2010	5	0	0	29,736,464	24	0
10/10/2010	40	0	350	29,736,814	24	0
10/11/2010	40	2	2,430	29,739,244	24	0
10/12/2010	40	3	3,866	29,743,110	24	0
10/13/2010	40	3	4,268	29,747,378	24	0
10/14/2010	40	5	6,628	29,754,006	24	0
10/15/2010	40	4	6,234	29,760,240	24	0
10/16/2010	40	4	5,540	29,765,780	24	0
10/17/2010	40	4	5,950	29,771,730	24	0
10/18/2010	40	4	5,202	29,776,932	24	0
10/19/2010	40	3	3,650	29,780,582	24	0
10/20/2010	40	4	5,516	29,786,098	24	0
10/21/2010	40	5	7,036	29,793,134	24	0
10/22/2010	40	4	5,152	29,798,286	24	0
10/23/2010	40	4	6,164	29,804,450	24	0
10/24/2010	40	5	7,414	29,811,864	24	0
10/25/2010	40	4	5,666	29,817,530	24	0
10/26/2010	40	6	8,066	29,825,596	24	0
10/27/2010	40	4	6,384	29,831,980	24	0
10/28/2010	40	4	5,800	29,837,780	24	0
10/29/2010	40	4	6,244	29,844,024	24	0
10/30/2010	40	4	5,748	29,849,772	24	0
10/31/2010	40	4	5,612	29,855,384	24	0
Sample Measurement	**40**	**4**	**161,550**	**29,855,384**	**31**	**100%**
	Daily Maximum (GPM)	Monitoring Period Average (GPM)	Monitoring Period Total (GAL)	Cumulative Total (GAL)	Runtime (Days)	Operational Percentage

Monthly Airco Parcel GCTS
Flow Calculations
November 2011

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
11/1/2010	40	4	5,118	29860502	24	0
11/2/2010	40	3	4,652	29865154	24	0
11/3/2010	40	1	1,308	29866462	24	0
11/4/2010	6	0	0	29866462	24	0
11/5/2010	40	1	1,658	29868120	24	0
11/6/2010	40	4	5,374	29873494	24	0
11/7/2010	6	0	0	29873494	24	0
11/8/2010	6	0	0	29873494	24	0
11/9/2010	6	0	0	29873494	24	0
11/10/2010	6	0	0	29873494	24	0
11/11/2010	6	0	0	29873494	24	0
11/12/2010	7	0	0	29873494	24	0
11/13/2010	40	2	2,286	29875780	24	0
11/14/2010	39	2	2,534	29878314	24	0
11/15/2010	39	4	5,196	29883510	24	0
11/16/2010	39	9	12,284	29895794	24	0
11/17/2010	39	8	11,348	29907142	24	0
11/18/2010	39	8	11,112	29918254	24	0
11/19/2010	39	8	11,344	29929598	24	0
11/20/2010	39	8	11,378	29940976	24	0
11/21/2010	39	8	11,786	29952762	24	0
11/22/2010	39	10	14,896	29967658	24	0
11/23/2010	39	11	15,662	29983320	24	0
11/24/2010	39	9	13,550	29996870	24	0
11/25/2010	39	9	13,618	30010488	24	0
11/26/2010	39	12	16,844	30027332	24	0
11/27/2010	38	10	14,266	30041598	24	0
11/28/2010	38	10	14,756	30056354	24	0
11/29/2010	38	11	15,180	30071534	24	0
11/30/2010	39	15	21,870	30093404	24	0
Sample Measurement	**40**	**5**	**240,306**	**30,093,404**	**30**	**100%**
	Daily Maximum (GPM)	Monitoring Period Average (GPM)	Monitoring Period Total (GAL)	Cumulative Total (GAL)	Runtime (Days)	Operational Percentage

Monthly Airco Parcel GCTS
Flow Calculations
December 2011

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
12/1/2010	39	17	25,194	30,118,598	24	0
12/2/2010	38	12	17,268	30,135,866	24	0
12/3/2010	38	13	18,874	30,154,740	24	0
12/4/2010	38	13	19,420	30,174,160	24	0
12/5/2010	38	14	19,828	30,193,988	24	0
12/6/2010	38	13	19,394	30,213,382	24	0
12/7/2010	38	14	19,452	30,232,834	24	0
12/8/2010	38	14	19,594	30,252,428	24	0
12/9/2010	38	14	20,356	30,272,784	24	0
12/10/2010	38	15	22,002	30,294,786	24	0
12/11/2010	38	15	21,952	30,316,738	24	0
12/12/2010	38	21	30,438	30,347,176	24	0
12/13/2010	38	12	17,136	30,364,312	24	0
12/14/2010	38	13	18,042	30,382,354	24	0
12/15/2010	37	14	19,472	30,401,826	24	0
12/16/2010	37	14	20,178	30,422,004	24	0
12/17/2010	37	14	20,656	30,442,660	24	0
12/18/2010	37	15	22,100	30,464,760	24	0
12/19/2010	37	15	22,264	30,487,024	24	0
12/20/2010	37	16	22,522	30,509,546	24	0
12/21/2010	37	16	23,482	30,533,028	24	0
12/22/2010	37	16	23,014	30,556,042	24	0
12/23/2010	37	16	23,566	30,579,608	24	0
12/24/2010	37	17	23,932	30,603,540	24	0
12/25/2010	37	17	24,340	30,627,880	24	0
12/26/2010	37	17	23,904	30,651,784	24	0
12/27/2010	37	17	24,588	30,676,372	24	0
12/28/2010	36	17	24,314	30,700,686	24	0
12/28/2010	36	17	24,314	30,700,686	24	0
12/29/2010	36	17	24,588	30,725,274	24	0
12/30/2010	36	17	24,528	30,749,802	24	0
	39	**15**	**708,158**	**30,749,802**	**31**	**100%**
Sample Measurement	Daily Maximum (GPM)	Monitoring Period Average (GPM)	Monitoring Period Total (GAL)	Cumulative Total (GAL)	Runtime (Days)	Operational Percentage

Attachment H

Remedy Review Report