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

LETTER OF TRANSMITTAL

TO Mr. Brian Thiesse
Head of US SHEQ Operations
Linde North America, Inc.
575 Mountain Avenue
Murray Hill, New Jersey 07974

DATE: 9/8/10	JOB NO.: 150C265.1038
ATTENTION: Mr. Brian Thiesse	
RE: First 2010 Bi-Annual Monitoring Event Letter Report, Site No. 932001, Airco Properties Inc., Airco Parcel, Niagara Falls, New York	

WE ARE SENDING YOU [X] Attached [ ] Under separate cover via _____ the following items:

[ ] Shop drawings [ ] Prints [ ] Plans [ ] Samples [ ] Specifications

[ ] Copy of letter [ ] Change order [ ] _____

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1	9/8/10	First 2010 Bi-Annual Monitoring Event Letter, Site No. 932001, Airco Properties Inc., Airco Parcel, Niagara Falls, New York

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REMARKS Greenstar is pleased to provide you with the above listed document in PDF format on a DVD. Should you have any questions or comments regarding this report, please do not hesitate to contact me at (845) 223-9944.

COPY TO: M. Hinton, NYSDEC (1 copy)
M. Forcucci (NYSDOH) (1 copy)
Town of Niagara Falls, Town Clerk (1 copy)

SIGNED Charles E. McLeod, Project Manager

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

Prepared for

Linde North America, Inc.
575 Mountain Avenue
Murray Hill, New Jersey 07974

Prepared by

Greenstar Environmental Solutions, LLC
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(845) 223-9944

September 2010
Revision: 0
Project No.: 150C265.1038

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

8 September 2010

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

RE: First 2010 Bi-Annual Monitoring Event Letter 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 first 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 January 2010 to 30 June 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 first bi-annual 2010 groundwater monitoring event that was conducted in April 2010, and operations and maintenance activities conducted at the Site from January through June 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.

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

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.

- 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 construction of the capping system a relief pipe system was installed to allow perched water to exit from under the cap without causing slope instability. Flow monitoring and quarterly sampling were initiated as part of post-closure operations and facility maintenance. The data collected since December 2000 indicated that the leachate was actually shallow groundwater discharging to surface water, groundwater discharge was seasonal, and elevated hexavalent chromium (Cr^{6+}) concentrations and pH in groundwater remained in excess of the ambient water quality criteria after mixing with surface water.

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 Bi-Annual Monitoring Event was completed 13 - 14 April 2010. The sections below provide a summary of data collected as part of this sampling event.

Monitoring Well Gauging

The site monitoring wells, Figure 2, were gauged on 13 April 2010 prior to sampling. Gauging data are summarized in the table below:

Monitoring Well	Depth to Water (ft btoc)	Well Elevation (ft AMSL)	Water Elevation (ft AMSL)
MW-1B	8.81	617.77	608.96
MW-2B	11.27	615.88	604.61
MW-3B	7.77	611.22	603.45
MW-4B	5.19	606.68	601.49
MW-5B	4.54	605.48	600.94
MW-6B	3.73	603.47	599.74
MW-7B	9.62	609.48	599.86
MW-8B	3.07	611.62	608.55

NOTE: btoc = Below top of casing.
AMSL = Above mean sea level.

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

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

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 13 – 14 April 2010. Eight groundwater samples were collected from the site monitoring wells. Monitoring wells MW-3B, MW-4B, 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. 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 8 monitoring wells for metals analyses. Significant results included the following:

- Chromium, hexavalent chromium, iron, magnesium, manganese, selenium 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, MW-4B and MW-8B at concentrations ranging from 0.155 milligram per liter (mg/L) (MW-8B) to 0.551 mg/L (MW-2B).
- Hexavalent chromium was detected in excess of the NYSDEC AWQS in MW-4B and MW-8B at concentrations of 0.239 mg/L and 0.135 mg/L, respectively. Hexavalent chromium was not detected in MW-2B in excess of the NYSDEC AWQS, but was in excess in the duplicate sample collected at this location at a concentration of 0.0953 mg/L.
- Iron was detected in excess of the NYSDEC AWQS in MW-4B and MW-8B at concentrations of 0.933 mg/L and 1.25 mg/L, respectively.
- Magnesium was detected in excess of the NYSDEC AWQS in MW-1B, MW-4B, MW-5B, MW-6B and MW-8B at concentrations ranging from 56 mg/L (MW-4B) to 90.8 mg/L (MW-5B).
- Manganese was detected in excess of the NYSDEC AWQS in MW-1B at a concentration of 0.681 mg/L.
- Selenium was detected in excess of the NYSDEC AWQS in MW-8B at a concentration of 0.0062 mg/L.
- Sodium was detected in excess of the NYSDEC AWQS in all 8 monitoring wells at concentrations ranging from 32.1 mg/L (MW-5B) to 119 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 (0.633 mg/L).

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 400 mg/L.
- pH measurements were measured outside the NYSDEC AWQS of 6.5-8.5 standard pH units in monitoring wells MW-2B (13.57), MW-3B (9.05), MW-6B (8.75) and MW-7B (8.58)

LANDFILL INSPECTION

Landfill cap inspections were conducted on 20 March and 22 May 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 and 2nd quarters included:

- Areas of disturbance around the T-7 pond require repair. The top of the T-7 berm in some areas is as much as 1.5' lower than other areas. Recommend adding fill and topsoil to avoid a potential breach should the outlet become obstructed again.
- During a heavy rain/thaw event in January, runoff water was slowed by the stone road over the drainage swale in the SW corner and flooded the T-1 drywell damaging the actuator. Recommend installing two 8" x 20' pipes under the road to convey the water.
- Damage to fence in the vicinity of MW-1B is cosmetic and does not affect the integrity of the fence. Expensive repairs not deemed necessary.
- One of the T-3A tank covers has a tear in it from contact around the tanks opening. The tears are small but the tarp will need to be replaced.

These items will be reviewed for repair during the next report period.

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 (January – June 2010)

The GCTS was operated throughout the 6-month period of 1 January – 30 June 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 4,344 hours (100 percent) at an average flow rate of 21.3 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 22 May 2010 noted a hexavalent chromium concentration of 14 micrograms per liter (µg/L), slightly higher than the NYSDEC discharge guidance value in the surface water where it exits the site in the southwest corner. No confirmatory sample was collected since the site visit was conducted on a weekend and the laboratory was not open to receive the sample. The field value leaving the engineered wetland was in compliance, and the slightly elevated concentration was attributed to suspended solids. The field values prior to and immediately following the 22 May 2010 field sampling were within acceptable limits.

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 noted that pH (8.06 s.u.) slightly exceeded the NYSDEC discharge guidance value (6-8 s.u.) for the March 2010 discharge sampling, and selenium (0.0054 mg/L) slightly exceeded the NYSDEC discharge guidance value (0.0046 mg/L) for the May 2010 discharge sampling. No other values exceed the guidance values. The Laboratory data package for the GCTS discharge sampling can be found in Attachment F.

A significant snow melt and rainfall event in late January resulted in the flooding of the SW corner. The floodwater exceeded the height of the rim elevation of the drywell, and submerged the flow control valve damaging it beyond repair. As part of repairs, the drywell was pumped down and dried out, and the actuator removed and replaced. A 100 gpm sump pump was installed to prevent this problem in future storms. System flowrates for the end of January exceeded the discharge guidance values in order to maintain localized water levels below the ground surface. No apparent seeps were observed. The system remained fully operational during the storm event.

GCTS Modifications (January – June 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 system cleaning, and replacement of the T-1 influent valve actuator. Attachment G summarizes monthly operation and maintenance details for the period January through June 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 2009 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 2009, AIRCO PARCEL, NIAGARA FALLS, NEW YORK

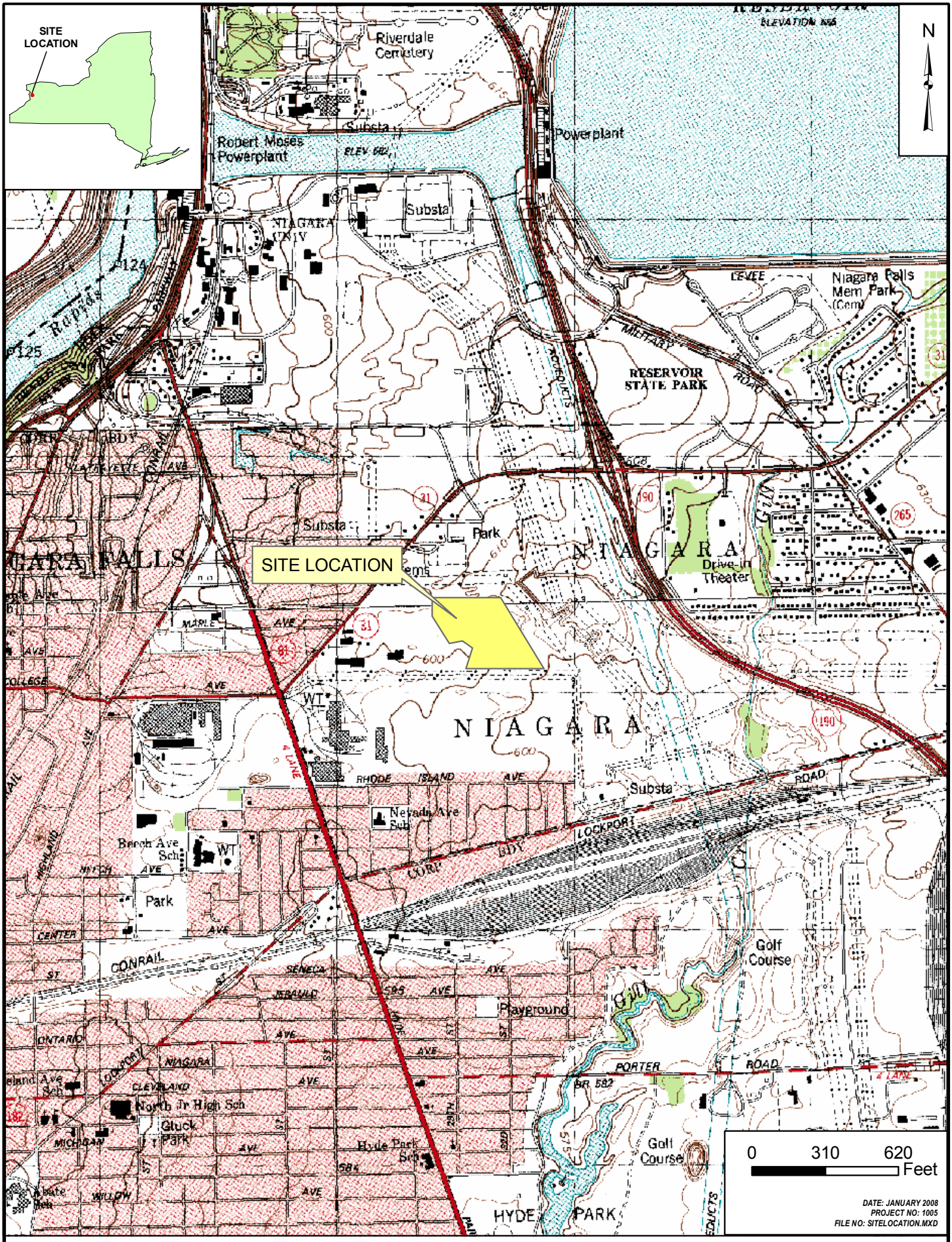
	Chromium Tank 3B		Iron Tank 6B		Engineered Wetland		Southwest Corner	
Date	Total Chromium	Hexavalent Chromium	Total Chromium	Hexavalent Chromium	Total Chromium	Hexavalent Chromium	Total Chromium	Hexavalent Chromium
1/7/10	75 µg/L	127 µg/L	20 µg/L	<3U µg/L	7 µg/L	7 µg/L	NS – Ice	NS – Ice
1/24/10	82 µg/L	8 µg/L	27 µg/L	<3U µg/L	23 µg/L	3 µg/L	NS – Ice	NS – Ice
2/9/10	142 µg/L	153 µg/L	50 µg/L	4 µg/L	30 µg/L	4 µg/L	NS – Ice	NS – Ice
2/22/10	161 µg/L	39 µg/L	52 µg/L	10 µg/L	42 µg/L	<3U µg/L	NS – Ice	NS – Ice
3/6/10	88 µg/L	151 µg/L	54 µg/L	<3U µg/L	27 µg/L	<3U µg/L	20 µg/L	10 µg/L
3/20/10	94 µg/L	154 µg/L	78 µg/L	14 µg/L	27 µg/L	<3U µg/L	13 µg/L	6 µg/L
4/12/10	92 µg/L	92 µg/L	20 µg/L	21 µg/L	19 µg/L	5 µg/L	10 µg/L	9 µg/L
4/24/10	47 µg/L	96 µg/L	42 µg/L	9 µg/L	35 µg/L	4 µg/L	16 µg/L	10 µg/L
5/10/10	119 µg/L	31 µg/L	30 µg/L	16 µg/L	29 µg/L	10 µg/L	27 µg/L	6 µg/L
5/22/10	109 µg/L	134 µg/L	55 µg/L	3 µg/L	40 µg/L	7 µg/L	18 µg/L	**14 µg/L***
6/1/10	131 µg/L	129 µg/L	46 µg/L	7 µg/L	13 µg/L	21 µg/L	31 µg/L	6 µg/L
6/23/10	124 µg/L	81 µg/L	58 µg/L	3 µg/L	38 µg/L	<3U µg/L	24 µg/L	2 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.
*Unable to collect confirmation sample for laboratory analysis. System check completed on a weekend and the laboratory was closed.
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 29 MARCH AND 12 MAY 2010, AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Parameter	29 March 2010	12 May 2010	New York State Department of Environmental Conservation Discharge Criteria
pH	**8.06**	7.67	6-8
Total suspended solids	<10U	<10U	10 mg/L
Dissolved Oxygen	12.6	8.92	7 mg/L
Ammonia as N	<9.2U	<9.2U	9.2 mg/L
Total Kjeldahl nitrogen	<1.0U	<1.0U	Monitor (mg/L)
Total Recoverable Phenolics	<0.008U	<0.008U	.008 mg/L
Biochemical oxygen demand	<5U	<5U	5.0 mg/L
1,1-Dichloroethane	<5U	<5U	5.0 µg/L
Trichloroethene	<5U	<5U	5.0 µg/L
Nickel	<0.07U	<0.07U	0.07 mg/L
Copper	<0.0147U	<0.0147U	0.0147 mg/L
Barium	<2U	<2U	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	**0.0054**	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	2.43	2.77	Monitor (mg/L-N)
Nitrite as N	<0.05U	2.30	Monitor (mg/L-N)
Chemical oxygen demand	<40U	<40U	40 mg/L
Total dissolved solids	574	542	Monitor (mg/L)

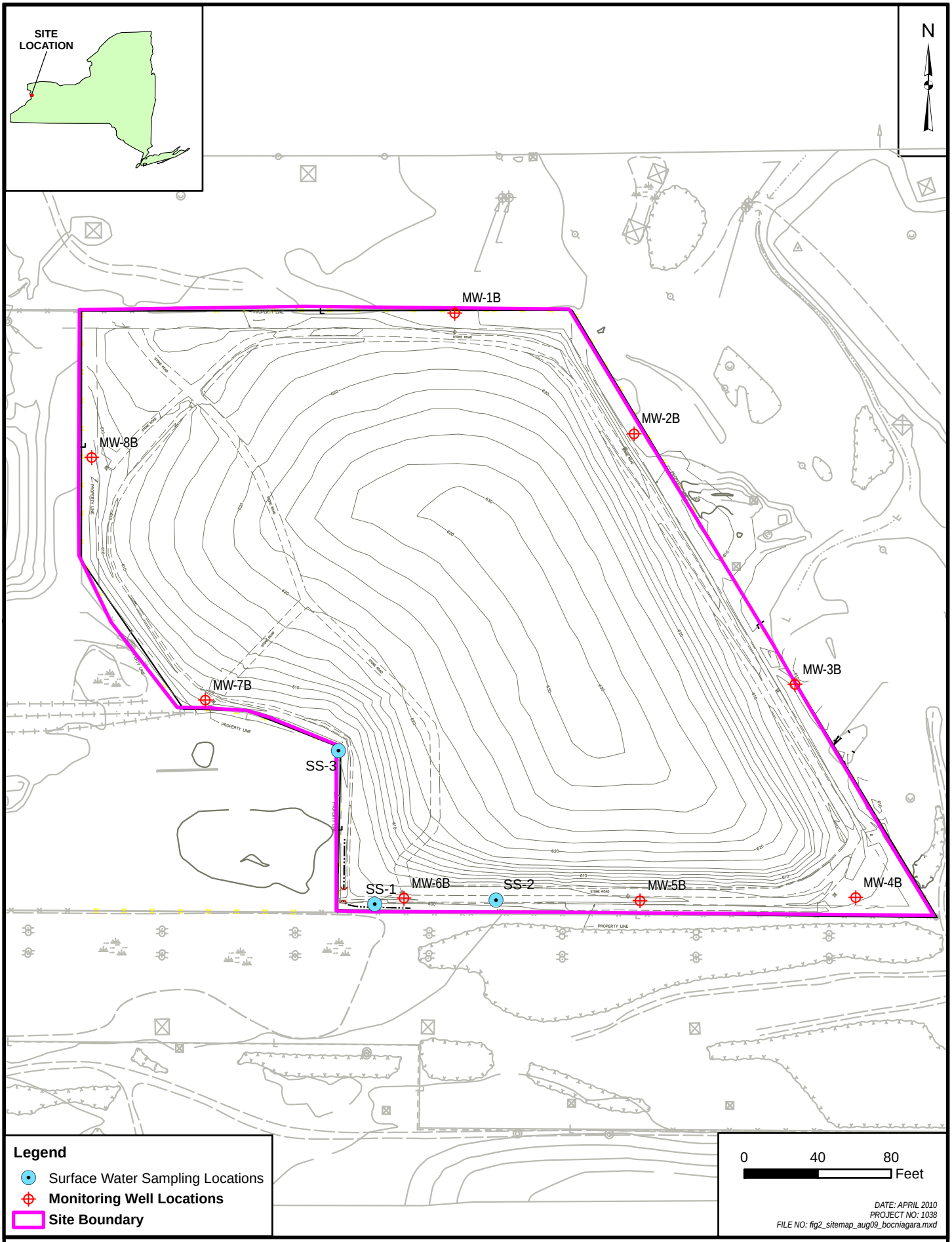
Values in bold exceeded discharge guidance values.



GREENSTAR Engineering, P.C.

AIRCO PARCEL
NIAGARA FALLS, NEW YORK

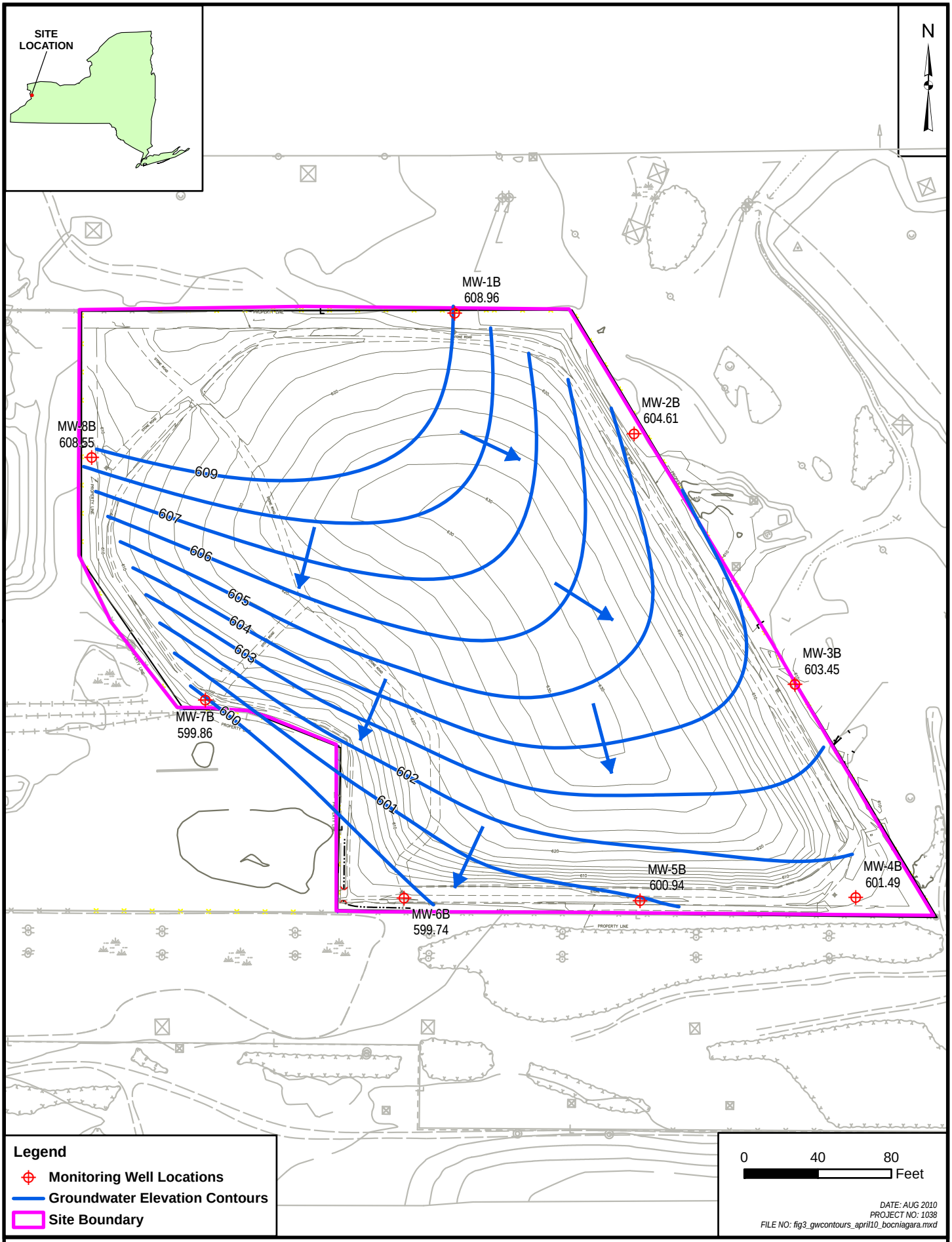
FIGURE 1
SITE LOCATION



GREENSTAR Engineering, P.C.

AIRCO PARCEL
NIAGARA FALLS, NEW YORK

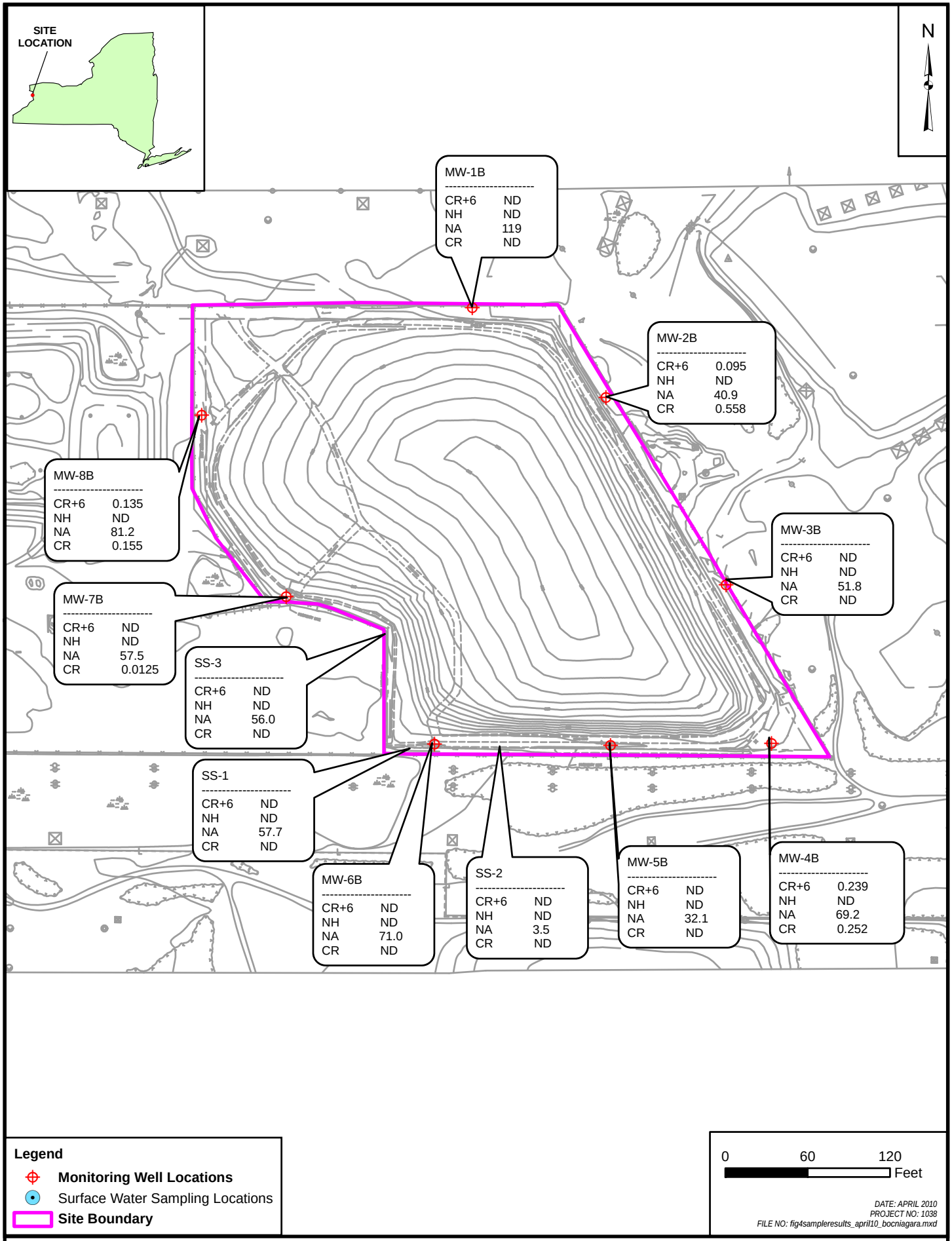
FIGURE 2
SITE MAP



GREENSTAR Engineering, P.C.

AIRCO PARCEL
NIAGARA FALLS, NEW YORK

FIGURE 3
GROUNDWATER ELEVATION MAP
APRIL 2010



GREENSTAR Engineering, P.C.

AIRCO PARCEL
NIAGARA FALLS, NEW YORK

FIGURE 4
SAMPLE RESULTS
APRIL 2010

Attachment A

Summary of Analytical Results
Groundwater and Surface Water Samples
April 2010

ATTACHMENT A
SUMMARY OF ANALYTICAL RESULTS OF SURFACE WATER AND GROUNDWATER SAMPLES COLLECTED IN APRIL 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-4B	MW-5B	MW-6B	MW-7B	MW-8B
Analyte	**AWQS**									
Cadmium	0.005	(<0.001U)	(<0.001U)	(<0.001U)	(<0.001U)	(<0.001U)	(<0.001U)	(<0.001U)	(<0.001U)	0.0012
Chromium	0.05	(<0.004U)	**0.551**	**0.558**	(<0.004U)	**0.252**	(<0.004U)	(<0.004U)	0.0125	**0.155**
Chromium, Hexavalent	0.05	(<0.011U)	0.0361	**0.0953**	(<0.011U)	**0.239**	(<0.011U)	(<0.011U)	(<0.011U)	**0.135**
Iron	0.3	0.093	(<0.05U)	(<0.05U)	(<0.05U)	**0.933**	0.234	0.189	0.114	**1.25**
Lead	0.025	(<0.005U)	(<0.005U)	(<0.005U)	(<0.005U)	(<0.005U)	(<0.005U)	(<0.005U)	(<0.005U)	0.0056
Magnesium	35*	**64.4**	(<0.2U)	(<0.2U)	9.96	**56**	**90.8**	**74.5**	10.4	**73.8**
Manganese	0.3	**0.681**	(<0.003U)	(<0.003U)	0.0139	0.0181	0.009	0.117	0.0225	0.116
Selenium	0.01	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	(<0.015U)	**0.0362**
Silica	---	7.06	0.635	0.598	4.81	7.65	7.23	5.17	4.9	6.61
Sodium	20	**119**	**39.6**	**40.9**	**51.8**	**69.2**	**32.1**	**71**	**57.5**	**81.2**
Thallium	0.0005*	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)	(<0.02U)
Zinc	2*	0.523	(<0.01U)	(<0.01U)	(<0.01U)	0.0229	0.0545	(<0.01U)	(<0.01U)	0.111

Water Quality Parameters (mg/L)

		MW-1B	MW-2B	MW-2B (Dup)	MW-3B	MW-4B	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)	(<9.2U)
Phenolics	0.001	(<0.008U)	(<0.008U)	(<0.008U)	(<0.008U)	(<0.008U)	(<0.008U)	(<0.008U)	(<0.008U)	(<0.008U)
Sulfate	250	227	(<10U)	14.2	57.2	152	154	**400**	75.8	247

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)	**0.633**	(<0.05U)
Lead	---	(<0.005U)	(<0.005U)	(<0.005U)
Magnesium	---	4.59	19.8	4.25
Manganese	---	(<0.003U)	0.197	0.003
Selenium	0.0046	(<0.015U)	(<0.015U)	(<0.015U)
Silica	---	0.384	4	0.424
Sodium	---	57.7	3.5	56
Thallium	0.02	(<0.02U)	(<0.02U)	(<0.02U)
Zinc	---	(<0.01U)	0.0148	(<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	---	(<0.008U)	(<0.008U)	(<0.008U)
Sulfate	---	15	(<10U)	14.9

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	---	0.954	0.969
Manganese	---	0.0068	0.0067
Selenium	---	(<0.015U)	(<0.015U)
Silica	---	2.01	1.99
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	---	(<0.008U)	(<0.008U)
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).
J	=	Estimated concentration.

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
April 2010

GREENSTAR Engineering, P.C.

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW1B	**Personnel:** SB/DF	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Sunny and Windy, 60°
Sounding Method: WLI	**Gauge Date:** 4/13/2010	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 16:00	**Well Diameter (in):** 2"

Purge Date: 4/14/2010	**Purge Time:** 8:05
Purge Method: Low-Flow	**Greenstar Personnel:** SB/DF

Well Volume

A. Well Depth (ft): 27.83	**D. Well Volume (ft^3):** 0.41	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 8.81	**E. Well Volume (L)** 11.8	**Pump Type:** Peristaltic
C. Liquid Depth (ft) (A-B): 19.02		**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)
8:15	9.28	1	0.20	7.25	1.72	2.3	1.59	9.00	216
8:20	9.33	2	0.20	7.22	1.72	2.0	1.31	9.16	150
8:25	9.38	3	0.20	7.17	1.73	1.4	0.55	9.24	100
8:30	9.39	4	0.20	7.17	1.73	0.8	0.22	9.32	84
8:35	9.41	5	0.20	7.15	1.73	0.6	0.00	9.37	74
8:40	9.42	6	0.20	7.14	1.72	0.2	0.00	9.39	72
8:45	9.43	7	0.20	7.11	1.72	0.3	0.74	9.44	69
8:50	9.49	8	0.20	7.12	1.72	0.1	0.62	9.47	70
8:55	9.51	9	0.20	7.09	1.72	0.1	0.53	9.53	65

Total Quantity of Water Removed: ~9 L
Samplers: SB/DF
Sampling Date: 14-Apr-10
Sampling Time: 8:56
Split Sample With: N/A
Sample Type: GRAB

COMMENTS AND OBSERVATIONS: Lube lock during next sampling event.

GREENSTAR Engineering, P.C.

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW2B	**Personnel:** SB/DF	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Sunny and Windy, 60°
Sounding Method: WLI	**Gauge Date:** 4/13/2010	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 16:05	**Well Diameter (in):** 2"

Purge Date: 4/14/2010	**Purge Time:** 9:10
Purge Method: Low-Flow	**Greenstar Personnel:** SB/DF

Well Volume

A. Well Depth (ft): 27.31	**D. Well Volume (ft^3):** 0.35	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 11.27	**E. Well Volume (L):** 9.9	**Pump Type:** Peristaltic
C. Liquid Depth (ft) (A-B): 16.04		**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)
9:19	11.36	1	0.20	13.58	6.89	9.3	1.33	10.28	-63
9:24	11.36	2	0.20	13.60	6.86	7.0	1.13	10.50	-60
9:29	11.36	3	0.20	13.59	6.84	5.7	1.00	10.72	-57
9:34	11.35	4	0.20	13.58	6.81	5.3	0.97	10.85	-56
9:39	11.35	5	0.20	13.57	6.77	4.7	0.93	11.03	-55
9:44	11.35	6	0.20	13.57	6.74	4.2	0.93	11.05	-54

Total Quantity of Water Removed:	~6.5 L	**Sampling Time:**	9:48
Samplers:	SB/DF	**Split Sample With:**	N/A
Sampling Date:	4/14/2010	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Lube lock during next sampling event.

AP-DUP-01 collected at this location.

***Always take DUP from AP-MW-2B

GREENSTAR Engineering, P.C.

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW3B	**Personnel:** SB/DF	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Sunny and Windy, 60°
Sounding Method: WLI	**Gauge Date:** 4/13/2010	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 16:10	**Well Diameter (in):** 2"

Purge Date: 4/13/2010	**Purge Time:** 16:20
Purge Method: Hand-Bail	**Greenstar Personnel:** SB/DF

Well Volume

A. Well Depth (ft): 18.41	**D. Well Volume (ft^3):** 0.23	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 7.77	**E. Well Volume (L):** 6.6	**Pump Type:** 3' Poly Bailer
C. Liquid Depth (ft) (A-B): 10.64		**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)
16:20	10.80	1	N/A	8.86	0.472	20.0	11.79	13.06	-128
16:28	dry	12	N/A	9.24	0.429	25.1	10.58	12.17	-50
10:48	7.83	N/A	N/A	9.05	0.432	0.5	10.34	10.54	136

Total Quantity of Water Removed:	~12 L	**Sampling Time:**	10:50
Samplers:	SB/DF	**Split Sample With:**	N/A
Sampling Date:	4/14/2010	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Lube lock during next sampling event.

Bailer replaced with new 3' poly bailer. Well purged dry and sampled the following day.

GREENSTAR Engineering, P.C.

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW4B	**Personnel:** SB/DF	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Sunny and Windy, 60°
Sounding Method: WLI	**Gauge Date:** 4/13/2010	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 16:40	**Well Diameter (in):** 2"

Purge Date: 4/13/2010	**Purge Time:** 16:41
Purge Method: Hand Bail	**Greenstar Personnel:** SB/DF

Well Volume

A. Well Depth (ft): 15.08	**D. Well Volume (ft^3):** 0.22	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 5.19	**E. Well Volume (L):** 6.1	**Pump Type:** 3' Poly Bailer
C. Liquid Depth (ft) (A-B): 9.89		**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)
16:41	6.46	1	N/A	7.48	0.899	20.3	12.84	11.18	179
16:49	Dry	10	N/A	7.53	0.895	>999	12.78	11.43	151
11:00	5.13	N/A	N/A	7.73	0.859	25.1	10.23	10.94	190

Total Quantity of Water Removed:	~10 L	**Sampling Time:**	11:05
Samplers:	SB/DF	**Split Sample With:**	N/A
Sampling Date:	4/14/2010	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Lube lock during next sampling event.

Bailer replaced with new 3' poly bailer. Well purged dry and sampled the following day.

GREENSTAR Engineering, P.C.

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW5B	**Personnel:** SB/DF	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Sunny and Windy, 60°
Sounding Method: WLI	**Gauge Date:** 4/13/2010	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 16:55	**Well Diameter (in):** 2"

Purge Date: 4/13/2010	**Purge Time:** 16:59
Purge Method: Hand Bail	**Greenstar Personnel:** SB/DF

Well Volume

A. Well Depth (ft): 14.22	**D. Well Volume (ft^3):** 0.21	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 4.54	**E. Well Volume (L):** 6.0	**Pump Type:** 3' Poly Bailer
C. Liquid Depth (ft) (A-B): 9.68		**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)
16:59	5.77	1	N/A	7.21	1.090	26.1	11.28	12.40	228
17:07	DRY	8	N/A	7.22	1.010	>999	6.85	12.73	237
11:15	4.15	N/A	N/A	7.32	1.080	10.9	8.88	12.52	220

Total Quantity of Water Removed:	~8 L	**Sampling Time:**	11:20
Samplers:	SB/DF	**Split Sample With:**	N/A
Sampling Date:	4/14/2010	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Lube lock during next sampling event.

Bailer replaced with new 3' poly bailer. Well purged dry and sampled the following day.

GREENSTAR Engineering, P.C.

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW6B	**Personnel:** SB/DF	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Sunny and Windy, 60°
Sounding Method: WLI	**Gauge Date:** 4/13/2010	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 17:12	**Well Diameter (in):** 2"

Purge Date: 4/14/2010	**Purge Time:** 11:37
Purge Method: Low-Flow	**Greenstar Personnel:** SB/DF

Well Volume

A. Well Depth (ft): 23.02	**D. Well Volume (ft^3):** 0.42	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 3.73	**E. Well Volume (L):** 11.9	**Pump Type:** Peristaltic
C. Liquid Depth (ft) (A-B): 19.29		**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)
11:42	6.15	1	0.20	7.67	1.14	1.1	0.00	13.12	209
11:47	6.67	2	0.20	7.66	1.14	1.1	0.37	14.14	204
11:57	7.37	3	0.10	7.68	1.15	1.4	0.00	14.52	200
12:07	7.99	4	0.10	7.67	1.15	0.7	0.00	14.78	196
12:17	8.51	5	0.10	7.66	1.20	1.0	0.00	14.83	183
12:27	8.96	6	0.10	7.67	1.21	0.8	0.00	14.79	69
12:37	9.33	7	0.10	7.65	1.19	0.8	0.00	14.83	50
12:42	9.72	7.5	0.10	7.64	1.20	1.2	0.00	15.02	48
12:47	10.00	8	0.10	7.66	1.20	0.7	0.00	15.43	52

Total Quantity of Water Removed:	~8 L	**Sampling Time:**	12:45
Samplers:	SB/DF	**Split Sample With:**	N/A
Sampling Date:	4/14/2010	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Lube lock during next sampling event.

GREENSTAR
Engineering, P.C.

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW7B	**Personnel:** SB/DF	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Sunny and Windy, 60°
Sounding Method: WLI	**Gauge Date:** 4/13/2010	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 17:17	**Well Diameter (in):** 2"

Purge Date: 4/14/2010	**Purge Time:** 13:25
Purge Method: Low-Flow	**Greenstar Personnel:** SB/DF

Well Volume

A. Well Depth (ft): 21.79	**D. Well Volume (ft^3):** 0.27	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 9.62	**E. Well Volume (L):** 7.5	**Pump Type:** Peristaltic
C. Liquid Depth (ft) (A-B): 12.17		**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)
13:30	11.85	1	0.20	8.30	0.452	16.6	3.60	12.67	149
13:35	12.76	2	0.20	8.46	0.442	12.0	2.23	13.91	102
13:45	13.66	3	0.10	8.52	0.437	10.8	1.78	13.97	54
13:55	14.43	4	0.10	8.48	0.437	6.6	2.07	15.02	26
14:05	14.80	5	0.10	8.51	0.431	6.3	1.92	15.27	9
14:15	15.44	6	0.10	8.54	0.433	7.7	2.66	13.88	-17
14:25	15.72	7	0.10	8.56	0.422	5.2	2.95	14.37	-31
14:35	16.03	8	0.10	8.59	0.420	4.6	3.01	14.08	-40
14:45	16.24	9	0.10	8.61	0.413	4.4	2.77	13.97	-44
14:55	16.36	10	0.10	8.58	0.407	3.6	3.01	13.97	-45

Total Quantity of Water Removed:	~10 L	**Sampling Time:**	15:05
Samplers:	SB/DF	**Split Sample With:**	N/A
Sampling Date:	4/14/2010	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Lube lock during next sampling event.

GREENSTAR
Engineering, P.C.

WELL GAUGING, PURGING AND SAMPLING FORM

Well I.D.: AP-MW8B	**Personnel:** SB/DF	**Client:** Linde, Inc.
Location: Niagara Falls	**Well Condition:** Locked	**Weather:** Sunny and Windy, 60°
Sounding Method: WLI	**Gauge Date:** 4/13/2010	**Measurement Ref:** TOC
Stick Up/Down (ft): UP	**Gauge Time:** 17:18	**Well Diameter (in):** 2"

Purge Date: 4/13/2010	**Purge Time:** 17:20
Purge Method: Hand Bail	**Greenstar Personnel:** SB/DF

Well Volume

A. Well Depth (ft): 15.51	**D. Well Volume (ft^3):** 0.27	**Depth/Height of Top of PVC:** N/A
B. Depth to Water (ft): 3.07	**E. Well Volume (L):** 7.7	**Pump Type:** 3' Poly Bailer
C. Liquid Depth (ft) (A-B): 12.44		**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)
17:20	4.90	1	N/A	7.10	1.30	20.1	12.11	10.37	252
17:34	Dry	10	N/A	7.03	1.29	>999	11.02	10.27	241
15:15	3.03	N/A	N/A	7.39	1.23	34.1	7.99	13.58	229

Total Quantity of Water Removed:	~10 L	**Sampling Time:**	15:20
Samplers:	SB/DF	**Split Sample With:**	N/A
Sampling Date:	4/14/2010	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Lube lock during next sampling event.

Bailer replaced with new 3' poly bailer. Well purged dry and sampled the following day.

Attachment C

Chain-of-Custody Records

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: STEVE BAZILUS	Lab PM: Jason Kacalski	Carrier Tracking No(s):	COC No: 03242010 15:26_1
Client Contact: Charles E McLeod, Jr.	Phone: 908-358-9768	E-Mail: jason.kacalski@testamericainc.com		Page: 1
Company: Greenstar Environmental Solutions, LLC				Job #:
Address: 6 Gallatly 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 #: RTC1298			
Project Name: Quarterly Discharge Monitoring - NY5A9582AE04819	Project #: Quarterly Discharge Monitoring			
Site: Airco - Niagara Falls - NY5A9582	SSOW#:			

Parameter(s) Requested

Preservation Codes:
A=HCL Z=Z
B=NaOH
C=Zn Acetate
D=Nitric Acid
I=Ice
N=None
S=H2SO4
V=MCAA
Container Codes:
A=Amber V=Vial
G=Glass
P=Poly/Plastic
T=Tedlar

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)	BOD	HexCr::LPH::Nitrate::Nitrite	Tphenols	Ammonia::COD::TKN	T-Metals	DO	TDS	TSS	624 VOAS					Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				I-P	I-P	S-G	S-P	D-P	I-P	I-P	I-P	A-V						
AP-EWE-01	03/24/10	1520	G	W			1	2	1	1	1	1	1	1	3					12	

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: S Bazilus (GES)	Date/Time: 03/24/10 1600	Company	Received by: Andrea Ingrando	Date/Time: 3-29-10 1600	Company
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: 6.0°C

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt ____
Drinking Water? Yes ☐ No ☒

TAL-4124 (1007)

Client: GREENSTAR	Project Manager: Chip McLeod	Date: 04/14/10	Chain of Custody Number: 166820
Address: 6 Gellatly Drive	Telephone Number (Area Code)/Fax Number: 845-223-9944/9955	Lab Number	Page 1 of 2
City: Wappingers Falls / State: NY / Zip Code: 12590	Site Contact: STEVE 908-358-4768	Lab Contact: JRK	
Project Name and Location (State): AIRCO - SEMI-ANNUAL GW MONITORING	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	Zn Ac/ NaOH	Analysis: me	TSS	SO4	Cr+6 WB	Ammonia	TPHENOLS	Special Instructions/ Conditions of Receipt
AP-MW-1B	04/14/10	0856		X			1	2	2			1	X	X	X	X	X	X	
AP-MW-2B		0948											X	X	X	X	X	X	
AP-MW-3B		1050											X	X	X	X	X	X	
AP-MW-4B		1105											X	X	X	X	X	X	
AP-MW-5B		1120											X	X	X	X	X	X	
AP-MW-6B		1245											X	X	X	X	X	X	
AP-MW-7B		1505											X	X	X	X	X	X	
AP-MW-8B		1520											X	X	X	X	X	X	
AP-MW-DUP-01		N/A											X	X	X	X	X	X	
AP-SS-01		1205											X	X	X	X	X	X	
AP-SS-02		1215											X	X	X	X	X	X	
AP-SS-03		1225											X	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)

1. Relinquished By: GES	Date: 04/14/10	Time: 1720	1. Received By: Andrea Sygrander	Date: 4-14-10	Time: 1720
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: ** HEX CHROME - SHORT HOLD ** 5°C 6.0°C

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	CHIP McLEOD	04/14/10	166821
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 2 of 2
6 GELLATLY DRIVE	845-223-9944/9955		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
WAPPINGERS FALLS / NY / 12590	SB	JRK	
Project Name and Location (State)	**Carrier/Waybill Number**		
AIRCO - SEMI ANNUAL GW MONITORING			
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.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Analysis: MS	TSS	SOM	Cr+6 WQ	AMMONIA	TPHENOLS	Special Instructions/ Conditions of Receipt
AP-SWB-01	4/14/10	1530		X			1	2	2				X	X	X	X	X	X	
AP-RB-01	4/14/10	1540		X			1	2	2				X	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: S. Bi... GBS	04/14/10	1720	1. Received By:	4.14.10	1720
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments
☆ HEX CHROME - SHORT HOLD ☆

3 @ 6.0°C

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: Greenster Environmental Solutions
Project Manager: Peggy - Grey-Erdmann
Date: 5/12/10
Chain of Custody Number: 139974
Page 1 of 1

Address: 6 Gellatly Drive
City: Wappingers Falls
State: NY
Zip Code: 12590
Site Contact:
Lab Contact:
Analysis (Attach list if more space is needed)

Project Name and Location (State): Airco - Niagara Falls NY - NYSA9582
Carrier/Waybill Number:
Contract/Purchase Order/Quote No.: Quarterly Discharge mon. NYSA9582AE09819

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.	Solid	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	BOD	Hexane Nitrate nitrite LPH	Phenols	Ammonia, COD, TKN	T-metals	DO	TDS	TSS	624 VOAs
AP-EWE-01	5/12	16:00		14			6	2	1	3			1	4	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)

6 of 6

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			1. Received By		
2. Relinquished By	5-12-10	1750	2. Received By	5-12-10	1750
3. Relinquished By			3. Received By		

Comments

2.7 oc

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

Attachment D

Laboratory Analytical Results for Groundwater and Surface Water Sampling April 2010

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Analytical Report

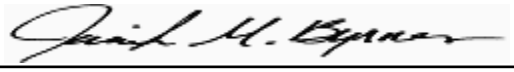
Work Order: RTD1266

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

Tuesday, May 4, 2010

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

Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

TestAmerica Buffalo
Current Certifications

As of 12/21/2009

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
Oklahoma	CWA, RCRA	9421
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
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Work Order: RTD1266

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Project Number: GES

Received: 04/14/10
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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, 27 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: RTD1266

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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
420.4	Phenolics, Total Recoverable	ug/L	8.0	10.0

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

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DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
CF6	Results confirmed by reanalysis.
D08	Dilution required due to high concentration of target analyte(s)
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. 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: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-01 (AP-MW-1B - Water)					**Sampled: 04/14/10 08:56**			**Recvd: 04/14/10 17:20**	
Total Metals by EPA 200 Series Methods									
Iron	**0.093**		0.050	mg/L	1.00	04/17/10 00:32	DAN	10D1405	200.7
Magnesium	**64.4**		0.200	mg/L	1.00	04/17/10 00:32	DAN	10D1405	200.7
Manganese	**0.681**		0.0030	mg/L	1.00	04/17/10 00:32	DAN	10D1405	200.7
Sodium	**119**		1.0	mg/L	1.00	04/17/10 00:32	DAN	10D1405	200.7
Zinc	**0.523**		0.0100	mg/L	1.00	04/17/10 00:32	DAN	10D1405	200.7
Anions by EPA Method 300.0									
Sulfate	**227**	D08	10.0	mg/L	4.00	04/20/10 08:56	ALD	10D1905	300
SW6010B									
Silicon	**7060**		100	ug/L	1.00	04/29/10 14:57	TFS	PBICPW0	SW6010B
Sample ID: RTD1266-02 (AP-MW-2B - Water)					**Sampled: 04/14/10 09:48**			**Recvd: 04/14/10 17:20**	
Total Metals by EPA 200 Series Methods									
Chromium	**0.551**		0.0040	mg/L	1.00	04/17/10 00:37	DAN	10D1405	200.7
Sodium	**39.6**		1.0	mg/L	1.00	04/17/10 00:37	DAN	10D1405	200.7
General Chemistry Parameters									
Chromium, Hexavalent	**36.1**		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
SW6010B									
Silicon	**635**		100	ug/L	1.00	04/29/10 15:05	TFS	PBICPW0	SW6010B
Sample ID: RTD1266-03 (AP-MW-3B - Water)					**Sampled: 04/14/10 10:50**			**Recvd: 04/14/10 17:20**	
Total Metals by EPA 200 Series Methods									
Magnesium	**9.96**		0.200	mg/L	1.00	04/17/10 00:42	DAN	10D1405	200.7
Manganese	**0.0139**		0.0030	mg/L	1.00	04/17/10 00:42	DAN	10D1405	200.7
Sodium	**51.8**		1.0	mg/L	1.00	04/17/10 00:42	DAN	10D1405	200.7
Anions by EPA Method 300.0									
Sulfate	**57.2**		10.0	mg/L	1.00	04/20/10 09:16	ALD	10D1905	300
SW6010B									
Silicon	**4810**		100	ug/L	1.00	04/29/10 15:09	TFS	PBICPW0	SW6010B
Sample ID: RTD1266-04 (AP-MW-4B - Water)					**Sampled: 04/14/10 11:05**			**Recvd: 04/14/10 17:20**	
Total Metals by EPA 200 Series Methods									
Chromium	**0.252**		0.0040	mg/L	1.00	04/17/10 01:21	DAN	10D1405	200.7
Iron	**0.933**		0.050	mg/L	1.00	04/17/10 01:21	DAN	10D1405	200.7
Magnesium	**56.0**		0.200	mg/L	1.00	04/17/10 01:21	DAN	10D1405	200.7
Manganese	**0.0181**		0.0030	mg/L	1.00	04/17/10 01:21	DAN	10D1405	200.7
Sodium	**69.2**		1.0	mg/L	1.00	04/17/10 01:21	DAN	10D1405	200.7
Zinc	**0.0229**		0.0100	mg/L	1.00	04/17/10 01:21	DAN	10D1405	200.7

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

Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-04 (AP-MW-4B - Water) - cont.					**Sampled: 04/14/10 11:05**			**Recvd: 04/14/10 17:20**	
General Chemistry Parameters									
Chromium, Hexavalent	**239**		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Anions by EPA Method 300.0									
Sulfate	**152**	D08	10.0	mg/L	2.00	04/20/10 09:26	ALD	10D1905	300
SW6010B									
Silicon	**7650**		100	ug/L	1.00	04/29/10 15:13	TFS	PBICPW0	SW6010B
Sample ID: RTD1266-05 (AP-MW-5B - Water)					**Sampled: 04/14/10 11:20**			**Recvd: 04/14/10 17:20**	
Total Metals by EPA 200 Series Methods									
Iron	**0.234**		0.050	mg/L	1.00	04/17/10 01:26	DAN	10D1405	200.7
Magnesium	**90.8**		0.200	mg/L	1.00	04/17/10 01:26	DAN	10D1405	200.7
Manganese	**0.0090**		0.0030	mg/L	1.00	04/17/10 01:26	DAN	10D1405	200.7
Sodium	**32.1**		1.0	mg/L	1.00	04/17/10 01:26	DAN	10D1405	200.7
Zinc	**0.0545**		0.0100	mg/L	1.00	04/17/10 01:26	DAN	10D1405	200.7
Anions by EPA Method 300.0									
Sulfate	**154**	D08	10.0	mg/L	2.00	04/20/10 09:36	ALD	10D1905	300
SW6010B									
Silicon	**7230**		100	ug/L	1.00	04/29/10 15:17	TFS	PBICPW0	SW6010B
Sample ID: RTD1266-06 (AP-MW-6B - Water)					**Sampled: 04/14/10 12:45**			**Recvd: 04/14/10 17:20**	
Total Metals by EPA 200 Series Methods									
Iron	**0.189**		0.050	mg/L	1.00	04/17/10 01:31	DAN	10D1405	200.7
Magnesium	**74.5**		0.200	mg/L	1.00	04/17/10 01:31	DAN	10D1405	200.7
Manganese	**0.117**		0.0030	mg/L	1.00	04/17/10 01:31	DAN	10D1405	200.7
Sodium	**71.0**		1.0	mg/L	1.00	04/17/10 01:31	DAN	10D1405	200.7
Anions by EPA Method 300.0									
Sulfate	**400**	D08	20.0	mg/L	10.0	04/20/10 09:46	ALD	10D1905	300
SW6010B									
Silicon	**5170**		100	ug/L	1.00	04/29/10 15:21	TFS	PBICPW0	SW6010B
Sample ID: RTD1266-07 (AP-MW-7B - Water)					**Sampled: 04/14/10 15:05**			**Recvd: 04/14/10 17:20**	
Total Metals by EPA 200 Series Methods									
Chromium	**0.0125**		0.0040	mg/L	1.00	04/17/10 01:36	DAN	10D1405	200.7
Iron	**0.114**		0.050	mg/L	1.00	04/17/10 01:36	DAN	10D1405	200.7
Magnesium	**10.4**		0.200	mg/L	1.00	04/17/10 01:36	DAN	10D1405	200.7
Manganese	**0.0225**		0.0030	mg/L	1.00	04/17/10 01:36	DAN	10D1405	200.7
Sodium	**57.5**		1.0	mg/L	1.00	04/17/10 01:36	DAN	10D1405	200.7

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

Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-07 (AP-MW-7B - Water) - cont.					**Sampled: 04/14/10 15:05**			**Recvd: 04/14/10 17:20**	
Anions by EPA Method 300.0									
Sulfate	**75.8**	CF6	10.0	mg/L	1.00	04/20/10 09:57	ALD	10D1905	300
SW6010B									
Silicon	**4900**		100	ug/L	1.00	04/29/10 15:25	TFS	PBICPW 0	SW6010B
Sample ID: RTD1266-08 (AP-MW-8B - Water)					**Sampled: 04/14/10 15:20**			**Recvd: 04/14/10 17:20**	
Total Metals by EPA 200 Series Methods									
Cadmium	**0.0012**		0.0010	mg/L	1.00	04/18/10 16:37	LMH	10D1405	200.7
Chromium	**0.155**		0.0040	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
Iron	**1.25**		0.050	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
Lead	**0.0056**		0.0050	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
Magnesium	**73.8**		0.200	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
Manganese	**0.116**		0.0030	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
Selenium	**0.0362**		0.0150	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
Sodium	**81.2**		1.0	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
Zinc	**0.111**		0.0100	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
General Chemistry Parameters									
Chromium, Hexavalent	**135**		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Anions by EPA Method 300.0									
Sulfate	**247**	D08	10.0	mg/L	4.00	04/16/10 11:24	BWM	10D1586	300
SW6010B									
Silicon	**6610**		100	ug/L	1.00	04/29/10 15:36	TFS	PBICPW 0	SW6010B
Sample ID: RTD1266-09 (AP-MW-DUP-01 - Water)					**Sampled: 04/14/10**			**Recvd: 04/14/10 17:20**	
Total Metals by EPA 200 Series Methods									
Chromium	**0.558**		0.0040	mg/L	1.00	04/17/10 01:46	DAN	10D1405	200.7
Sodium	**40.9**		1.0	mg/L	1.00	04/17/10 01:46	DAN	10D1405	200.7
General Chemistry Parameters									
Chromium, Hexavalent	**95.3**		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Anions by EPA Method 300.0									
Sulfate	**14.2**	CF6	10.0	mg/L	1.00	04/20/10 10:37	ALD	10D1905	300
SW6010B									
Silicon	**598**		100	ug/L	1.00	04/29/10 15:40	TFS	PBICPW 0	SW6010B
Sample ID: RTD1266-10 (AP-SS-01 - Water)					**Sampled: 04/14/10 12:05**			**Recvd: 04/14/10 17:20**	
Total Metals by EPA 200 Series Methods									
Magnesium	**4.59**		0.200	mg/L	1.00	04/17/10 01:51	DAN	10D1405	200.7

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

Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-10 (AP-SS-01 - Water) - cont.					**Sampled: 04/14/10 12:05**			**Recvd: 04/14/10 17:20**	
Total Metals by EPA 200 Series Methods - cont.									
Sodium	**57.7**		1.0	mg/L	1.00	04/17/10 01:51	DAN	10D1405	200.7
Anions by EPA Method 300.0									
Sulfate	**15.0**		10.0	mg/L	1.00	04/16/10 11:44	BWM	10D1586	300
SW6010B									
Silicon	**384**		100	ug/L	1.00	04/29/10 15:44	TFS	PBICPW0	SW6010B
Sample ID: RTD1266-11 (AP-SS-02 - Water)					**Sampled: 04/14/10 12:15**			**Recvd: 04/14/10 17:20**	
Total Metals by EPA 200 Series Methods									
Iron	**0.633**	CF6	0.050	mg/L	1.00	04/17/10 02:09	DAN	10D1405	200.7
Magnesium	**19.8**	CF6	0.200	mg/L	1.00	04/17/10 02:09	DAN	10D1405	200.7
Manganese	**0.197**	CF6	0.0030	mg/L	1.00	04/17/10 02:09	DAN	10D1405	200.7
Sodium	**3.5**		1.0	mg/L	1.00	04/17/10 02:09	DAN	10D1405	200.7
Zinc	**0.0148**		0.0100	mg/L	1.00	04/17/10 02:09	DAN	10D1405	200.7
SW6010B									
Silicon	**4000**		100	ug/L	1.00	04/29/10 15:48	TFS	PBICPW0	SW6010B
Sample ID: RTD1266-12 (AP-SS-03 - Water)					**Sampled: 04/14/10 12:25**			**Recvd: 04/14/10 17:20**	
Total Metals by EPA 200 Series Methods									
Magnesium	**4.25**		0.200	mg/L	1.00	04/17/10 02:14	DAN	10D1405	200.7
Manganese	**0.0030**		0.0030	mg/L	1.00	04/17/10 02:14	DAN	10D1405	200.7
Sodium	**56.0**		1.0	mg/L	1.00	04/17/10 02:14	DAN	10D1405	200.7
Anions by EPA Method 300.0									
Sulfate	**14.9**		10.0	mg/L	1.00	04/16/10 12:04	BWM	10D1586	300
SW6010B									
Silicon	**424**		100	ug/L	1.00	04/29/10 15:52	TFS	PBICPW0	SW6010B
Sample ID: RTD1266-13 (AP-SWB-01 - Water)					**Sampled: 04/14/10 15:30**			**Recvd: 04/14/10 17:20**	
Total Metals by EPA 200 Series Methods									
Magnesium	**0.969**		0.200	mg/L	1.00	04/17/10 02:19	DAN	10D1405	200.7
Manganese	**0.0067**		0.0030	mg/L	1.00	04/17/10 02:19	DAN	10D1405	200.7
SW6010B									
Silicon	**1990**		100	ug/L	1.00	04/29/10 15:56	TFS	PBICPW0	SW6010B
Sample ID: RTD1266-14 (AP-RB-01 - Water)					**Sampled: 04/14/10 15:40**			**Recvd: 04/14/10 17:20**	
Total Metals by EPA 200 Series Methods									
Magnesium	**0.954**		0.200	mg/L	1.00	04/17/10 02:24	DAN	10D1405	200.7

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Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-14 (AP-RB-01 - Water) - cont.					**Sampled: 04/14/10 15:40**		**Recvd: 04/14/10 17:20**		
Total Metals by EPA 200 Series Methods - cont.									
Manganese	**0.0068**		0.0030	mg/L	1.00	04/17/10 02:24	DAN	10D1405	200.7
SW6010B									
Silicon	**2010**		100	ug/L	1.00	04/29/10 16:00	TFS	PBICPW0	SW6010B

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Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
AP-MW-1B	RTD1266-01	Water	04/14/10 08:56	04/14/10 17:20	
AP-MW-2B	RTD1266-02	Water	04/14/10 09:48	04/14/10 17:20	
AP-MW-3B	RTD1266-03	Water	04/14/10 10:50	04/14/10 17:20	
AP-MW-4B	RTD1266-04	Water	04/14/10 11:05	04/14/10 17:20	
AP-MW-5B	RTD1266-05	Water	04/14/10 11:20	04/14/10 17:20	
AP-MW-6B	RTD1266-06	Water	04/14/10 12:45	04/14/10 17:20	
AP-MW-7B	RTD1266-07	Water	04/14/10 15:05	04/14/10 17:20	
AP-MW-8B	RTD1266-08	Water	04/14/10 15:20	04/14/10 17:20	
AP-MW-DUP-01	RTD1266-09	Water	04/14/10	04/14/10 17:20	
AP-SS-01	RTD1266-10	Water	04/14/10 12:05	04/14/10 17:20	
AP-SS-02	RTD1266-11	Water	04/14/10 12:15	04/14/10 17:20	
AP-SS-03	RTD1266-12	Water	04/14/10 12:25	04/14/10 17:20	
AP-SWB-01	RTD1266-13	Water	04/14/10 15:30	04/14/10 17:20	
AP-RB-01	RTD1266-14	Water	04/14/10 15:40	04/14/10 17:20	

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-01 (AP-MW-1B - Water)					**Sampled: 04/14/10 08:56**		**Recvd: 04/14/10 17:20**		
Total Metals by EPA 200 Series Methods									
Cadmium	ND		0.0010	mg/L	1.00	04/18/10 15:30	LMH	10D1405	200.7
Chromium	ND		0.0040	mg/L	1.00	04/17/10 00:32	DAN	10D1405	200.7
Iron	**0.093**		0.050	mg/L	1.00	04/17/10 00:32	DAN	10D1405	200.7
Lead	ND		0.0050	mg/L	1.00	04/17/10 00:32	DAN	10D1405	200.7
Magnesium	**64.4**		0.200	mg/L	1.00	04/17/10 00:32	DAN	10D1405	200.7
Manganese	**0.681**		0.0030	mg/L	1.00	04/17/10 00:32	DAN	10D1405	200.7
Selenium	ND		0.0150	mg/L	1.00	04/17/10 00:32	DAN	10D1405	200.7
Sodium	**119**		1.0	mg/L	1.00	04/17/10 00:32	DAN	10D1405	200.7
Thallium	ND		0.0200	mg/L	1.00	04/17/10 00:32	DAN	10D1405	200.7
Zinc	**0.523**		0.0100	mg/L	1.00	04/17/10 00:32	DAN	10D1405	200.7
General Chemistry Parameters									
Ammonia as N	ND		9.20	mg/L as N	1.00	04/15/10 12:20	jmm	10D1328	350.1
Chromium, Hexavalent	ND		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Phenolics, Total Recoverable	ND		8.0	ug/L	1.00	04/20/10 22:55	JFR	10D1806	420.4
Anions by EPA Method 300.0									
Sulfate	**227**	D08	10.0	mg/L	4.00	04/20/10 08:56	ALD	10D1905	300
SW6010B									
Silicon	**7060**		100	ug/L	1.00	04/29/10 14:57	TFS	PBICPW0	SW6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-02 (AP-MW-2B - Water)					**Sampled: 04/14/10 09:48**		**Recvd: 04/14/10 17:20**		
Total Metals by EPA 200 Series Methods									
Cadmium	ND		0.0010	mg/L	1.00	04/18/10 15:34	LMH	10D1405	200.7
Chromium	**0.551**		0.0040	mg/L	1.00	04/17/10 00:37	DAN	10D1405	200.7
Iron	ND		0.050	mg/L	1.00	04/17/10 00:37	DAN	10D1405	200.7
Lead	ND		0.0050	mg/L	1.00	04/17/10 00:37	DAN	10D1405	200.7
Magnesium	ND		0.200	mg/L	1.00	04/17/10 00:37	DAN	10D1405	200.7
Manganese	ND		0.0030	mg/L	1.00	04/17/10 00:37	DAN	10D1405	200.7
Selenium	ND		0.0150	mg/L	1.00	04/17/10 00:37	DAN	10D1405	200.7
Sodium	**39.6**		1.0	mg/L	1.00	04/17/10 00:37	DAN	10D1405	200.7
Thallium	ND		0.0200	mg/L	1.00	04/17/10 00:37	DAN	10D1405	200.7
Zinc	ND		0.0100	mg/L	1.00	04/17/10 00:37	DAN	10D1405	200.7
General Chemistry Parameters									
Ammonia as N	ND		9.20	mg/L as N	1.00	04/15/10 12:21	jmm	10D1328	350.1
Chromium, Hexavalent	**36.1**		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Phenolics, Total Recoverable	ND		8.0	ug/L	1.00	04/21/10 01:14	JFR	10D1806	420.4
Anions by EPA Method 300.0									
Sulfate	ND		10.0	mg/L	1.00	04/20/10 09:06	ALD	10D1905	300
SW6010B									
Silicon	**635**		100	ug/L	1.00	04/29/10 15:05	TFS	PBICPW0	SW6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-03 (AP-MW-3B - Water)					**Sampled: 04/14/10 10:50**		**Recvd: 04/14/10 17:20**		
Total Metals by EPA 200 Series Methods									
Cadmium	ND		0.0010	mg/L	1.00	04/18/10 15:39	LMH	10D1405	200.7
Chromium	ND		0.0040	mg/L	1.00	04/17/10 00:42	DAN	10D1405	200.7
Iron	ND		0.050	mg/L	1.00	04/17/10 00:42	DAN	10D1405	200.7
Lead	ND		0.0050	mg/L	1.00	04/17/10 00:42	DAN	10D1405	200.7
Magnesium	**9.96**		0.200	mg/L	1.00	04/17/10 00:42	DAN	10D1405	200.7
Manganese	**0.0139**		0.0030	mg/L	1.00	04/17/10 00:42	DAN	10D1405	200.7
Selenium	ND		0.0150	mg/L	1.00	04/17/10 00:42	DAN	10D1405	200.7
Sodium	**51.8**		1.0	mg/L	1.00	04/17/10 00:42	DAN	10D1405	200.7
Thallium	ND		0.0200	mg/L	1.00	04/17/10 00:42	DAN	10D1405	200.7
Zinc	ND		0.0100	mg/L	1.00	04/17/10 00:42	DAN	10D1405	200.7
General Chemistry Parameters									
Ammonia as N	ND		9.20	mg/L as N	1.00	04/15/10 12:22	jmm	10D1328	350.1
Chromium, Hexavalent	ND		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Phenolics, Total Recoverable	ND		8.0	ug/L	1.00	04/21/10 01:14	JFR	10D1806	420.4
Anions by EPA Method 300.0									
Sulfate	**57.2**		10.0	mg/L	1.00	04/20/10 09:16	ALD	10D1905	300
SW6010B									
Silicon	**4810**		100	ug/L	1.00	04/29/10 15:09	TFS	PBICPW0	SW6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-04 (AP-MW-4B - Water)					**Sampled: 04/14/10 11:05**		**Recvd: 04/14/10 17:20**		
Total Metals by EPA 200 Series Methods									
Cadmium	ND		0.0010	mg/L	1.00	04/18/10 16:04	LMH	10D1405	200.7
Chromium	**0.252**		0.0040	mg/L	1.00	04/17/10 01:21	DAN	10D1405	200.7
Iron	**0.933**		0.050	mg/L	1.00	04/17/10 01:21	DAN	10D1405	200.7
Lead	ND		0.0050	mg/L	1.00	04/17/10 01:21	DAN	10D1405	200.7
Magnesium	**56.0**		0.200	mg/L	1.00	04/17/10 01:21	DAN	10D1405	200.7
Manganese	**0.0181**		0.0030	mg/L	1.00	04/17/10 01:21	DAN	10D1405	200.7
Selenium	ND		0.0150	mg/L	1.00	04/17/10 01:21	DAN	10D1405	200.7
Sodium	**69.2**		1.0	mg/L	1.00	04/17/10 01:21	DAN	10D1405	200.7
Thallium	ND		0.0200	mg/L	1.00	04/17/10 01:21	DAN	10D1405	200.7
Zinc	**0.0229**		0.0100	mg/L	1.00	04/17/10 01:21	DAN	10D1405	200.7
General Chemistry Parameters									
Ammonia as N	ND		9.20	mg/L as N	1.00	04/15/10 12:23	jmm	10D1328	350.1
Chromium, Hexavalent	**239**		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Phenolics, Total Recoverable	ND		8.0	ug/L	1.00	04/20/10 23:15	JFR	10D1806	420.4
Anions by EPA Method 300.0									
Sulfate	**152**	D08	10.0	mg/L	2.00	04/20/10 09:26	ALD	10D1905	300
SW6010B									
Silicon	**7650**		100	ug/L	1.00	04/29/10 15:13	TFS	PBICPW0	SW6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-05 (AP-MW-5B - Water)					**Sampled: 04/14/10 11:20**		**Recvd: 04/14/10 17:20**		
Total Metals by EPA 200 Series Methods									
Cadmium	ND		0.0010	mg/L	1.00	04/18/10 16:09	LMH	10D1405	200.7
Chromium	ND		0.0040	mg/L	1.00	04/17/10 01:26	DAN	10D1405	200.7
Iron	**0.234**		0.050	mg/L	1.00	04/17/10 01:26	DAN	10D1405	200.7
Lead	ND		0.0050	mg/L	1.00	04/17/10 01:26	DAN	10D1405	200.7
Magnesium	**90.8**		0.200	mg/L	1.00	04/17/10 01:26	DAN	10D1405	200.7
Manganese	**0.0090**		0.0030	mg/L	1.00	04/17/10 01:26	DAN	10D1405	200.7
Selenium	ND		0.0150	mg/L	1.00	04/17/10 01:26	DAN	10D1405	200.7
Sodium	**32.1**		1.0	mg/L	1.00	04/17/10 01:26	DAN	10D1405	200.7
Thallium	ND		0.0200	mg/L	1.00	04/17/10 01:26	DAN	10D1405	200.7
Zinc	**0.0545**		0.0100	mg/L	1.00	04/17/10 01:26	DAN	10D1405	200.7
General Chemistry Parameters									
Ammonia as N	ND		9.20	mg/L as N	1.00	04/15/10 12:24	jmm	10D1328	350.1
Chromium, Hexavalent	ND		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Phenolics, Total Recoverable	ND		8.0	ug/L	1.00	04/20/10 23:15	JFR	10D1806	420.4
Anions by EPA Method 300.0									
Sulfate	**154**	D08	10.0	mg/L	2.00	04/20/10 09:36	ALD	10D1905	300
SW6010B									
Silicon	**7230**		100	ug/L	1.00	04/29/10 15:17	TFS	PBICPW0	SW6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-06 (AP-MW-6B - Water)					**Sampled: 04/14/10 12:45**		**Recvd: 04/14/10 17:20**		
Total Metals by EPA 200 Series Methods									
Cadmium	ND		0.0010	mg/L	1.00	04/18/10 16:14	LMH	10D1405	200.7
Chromium	ND		0.0040	mg/L	1.00	04/17/10 01:31	DAN	10D1405	200.7
Iron	**0.189**		0.050	mg/L	1.00	04/17/10 01:31	DAN	10D1405	200.7
Lead	ND		0.0050	mg/L	1.00	04/17/10 01:31	DAN	10D1405	200.7
Magnesium	**74.5**		0.200	mg/L	1.00	04/17/10 01:31	DAN	10D1405	200.7
Manganese	**0.117**		0.0030	mg/L	1.00	04/17/10 01:31	DAN	10D1405	200.7
Selenium	ND		0.0150	mg/L	1.00	04/17/10 01:31	DAN	10D1405	200.7
Sodium	**71.0**		1.0	mg/L	1.00	04/17/10 01:31	DAN	10D1405	200.7
Thallium	ND		0.0200	mg/L	1.00	04/17/10 01:31	DAN	10D1405	200.7
Zinc	ND		0.0100	mg/L	1.00	04/17/10 01:31	DAN	10D1405	200.7
General Chemistry Parameters									
Ammonia as N	ND		9.20	mg/L as N	1.00	04/15/10 12:26	jmm	10D1328	350.1
Chromium, Hexavalent	ND		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Phenolics, Total Recoverable	ND		8.0	ug/L	1.00	04/20/10 23:08	JFR	10D1806	420.4
Anions by EPA Method 300.0									
Sulfate	**400**	D08	20.0	mg/L	10.0	04/20/10 09:46	ALD	10D1905	300
SW6010B									
Silicon	**5170**		100	ug/L	1.00	04/29/10 15:21	TFS	PBICPW0	SW6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-07 (AP-MW-7B - Water)					**Sampled: 04/14/10 15:05**		**Recvd: 04/14/10 17:20**		
Total Metals by EPA 200 Series Methods									
Cadmium	ND		0.0010	mg/L	1.00	04/18/10 16:32	LMH	10D1405	200.7
Chromium	**0.0125**		0.0040	mg/L	1.00	04/17/10 01:36	DAN	10D1405	200.7
Iron	**0.114**		0.050	mg/L	1.00	04/17/10 01:36	DAN	10D1405	200.7
Lead	ND		0.0050	mg/L	1.00	04/17/10 01:36	DAN	10D1405	200.7
Magnesium	**10.4**		0.200	mg/L	1.00	04/17/10 01:36	DAN	10D1405	200.7
Manganese	**0.0225**		0.0030	mg/L	1.00	04/17/10 01:36	DAN	10D1405	200.7
Selenium	ND		0.0150	mg/L	1.00	04/17/10 01:36	DAN	10D1405	200.7
Sodium	**57.5**		1.0	mg/L	1.00	04/17/10 01:36	DAN	10D1405	200.7
Thallium	ND		0.0200	mg/L	1.00	04/17/10 01:36	DAN	10D1405	200.7
Zinc	ND		0.0100	mg/L	1.00	04/17/10 01:36	DAN	10D1405	200.7
General Chemistry Parameters									
Ammonia as N	ND		9.20	mg/L as N	1.00	04/15/10 12:27	jmm	10D1328	350.1
Chromium, Hexavalent	ND		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Phenolics, Total Recoverable	ND		8.0	ug/L	1.00	04/20/10 23:08	JFR	10D1808	420.4
Anions by EPA Method 300.0									
Sulfate	**75.8**	CF6	10.0	mg/L	1.00	04/20/10 09:57	ALD	10D1905	300
SW6010B									
Silicon	**4900**		100	ug/L	1.00	04/29/10 15:25	TFS	PBICPW0	SW6010B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-08 (AP-MW-8B - Water)					**Sampled: 04/14/10 15:20**		**Recvd: 04/14/10 17:20**		
Total Metals by EPA 200 Series Methods									
Cadmium	**0.0012**		0.0010	mg/L	1.00	04/18/10 16:37	LMH	10D1405	200.7
Chromium	**0.155**		0.0040	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
Iron	**1.25**		0.050	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
Lead	**0.0056**		0.0050	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
Magnesium	**73.8**		0.200	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
Manganese	**0.116**		0.0030	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
Selenium	**0.0362**		0.0150	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
Sodium	**81.2**		1.0	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
Thallium	ND		0.0200	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
Zinc	**0.111**		0.0100	mg/L	1.00	04/17/10 01:41	DAN	10D1405	200.7
General Chemistry Parameters									
Ammonia as N	ND		9.20	mg/L as N	1.00	04/15/10 12:28	jmm	10D1328	350.1
Chromium, Hexavalent	**135**		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Phenolics, Total Recoverable	ND		8.0	ug/L	1.00	04/20/10 23:15	JFR	10D1808	420.4
Anions by EPA Method 300.0									
Sulfate	**247**	D08	10.0	mg/L	4.00	04/16/10 11:24	BWM	10D1586	300
SW6010B									
Silicon	**6610**		100	ug/L	1.00	04/29/10 15:36	TFS	PBICPW0	SW6010B

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

Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-09 (AP-MW-DUP-01 - Water)					**Sampled: 04/14/10**			**Recvd: 04/14/10 17:20**	
Total Metals by EPA 200 Series Methods									
Cadmium	ND		0.0010	mg/L	1.00	04/18/10 16:42	LMH	10D1405	200.7
Chromium	**0.558**		0.0040	mg/L	1.00	04/17/10 01:46	DAN	10D1405	200.7
Iron	ND		0.050	mg/L	1.00	04/17/10 01:46	DAN	10D1405	200.7
Lead	ND		0.0050	mg/L	1.00	04/17/10 01:46	DAN	10D1405	200.7
Magnesium	ND		0.200	mg/L	1.00	04/17/10 01:46	DAN	10D1405	200.7
Manganese	ND		0.0030	mg/L	1.00	04/17/10 01:46	DAN	10D1405	200.7
Selenium	ND		0.0150	mg/L	1.00	04/17/10 01:46	DAN	10D1405	200.7
Sodium	**40.9**		1.0	mg/L	1.00	04/17/10 01:46	DAN	10D1405	200.7
Thallium	ND		0.0200	mg/L	1.00	04/17/10 01:46	DAN	10D1405	200.7
Zinc	ND		0.0100	mg/L	1.00	04/17/10 01:46	DAN	10D1405	200.7
General Chemistry Parameters									
Ammonia as N	ND		9.20	mg/L as N	1.00	04/15/10 12:29	jmm	10D1328	350.1
Chromium, Hexavalent	**95.3**		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Phenolics, Total Recoverable	ND		8.0	ug/L	1.00	04/20/10 23:15	JFR	10D1808	420.4
Anions by EPA Method 300.0									
Sulfate	**14.2**	CF6	10.0	mg/L	1.00	04/20/10 10:37	ALD	10D1905	300
SW6010B									
Silicon	**598**		100	ug/L	1.00	04/29/10 15:40	TFS	PBICPW0	SW6010B

Greenstar Environmental Solutions, LLC
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Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-10 (AP-SS-01 - Water)					**Sampled: 04/14/10 12:05**		**Recvd: 04/14/10 17:20**		
Total Metals by EPA 200 Series Methods									
Cadmium	ND		0.0010	mg/L	1.00	04/18/10 16:47	LMH	10D1405	200.7
Chromium	ND		0.0040	mg/L	1.00	04/17/10 01:51	DAN	10D1405	200.7
Iron	ND		0.050	mg/L	1.00	04/17/10 01:51	DAN	10D1405	200.7
Lead	ND		0.0050	mg/L	1.00	04/17/10 01:51	DAN	10D1405	200.7
Magnesium	**4.59**		0.200	mg/L	1.00	04/17/10 01:51	DAN	10D1405	200.7
Manganese	ND		0.0030	mg/L	1.00	04/17/10 01:51	DAN	10D1405	200.7
Selenium	ND		0.0150	mg/L	1.00	04/17/10 01:51	DAN	10D1405	200.7
Sodium	**57.7**		1.0	mg/L	1.00	04/17/10 01:51	DAN	10D1405	200.7
Thallium	ND		0.0200	mg/L	1.00	04/17/10 01:51	DAN	10D1405	200.7
Zinc	ND		0.0100	mg/L	1.00	04/17/10 01:51	DAN	10D1405	200.7
General Chemistry Parameters									
Ammonia as N	ND		9.20	mg/L as N	1.00	04/15/10 12:30	jmm	10D1328	350.1
Chromium, Hexavalent	ND		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Phenolics, Total Recoverable	ND		8.0	ug/L	1.00	04/20/10 23:11	JFR	10D1808	420.4
Anions by EPA Method 300.0									
Sulfate	**15.0**		10.0	mg/L	1.00	04/16/10 11:44	BWM	10D1586	300
SW6010B									
Silicon	**384**		100	ug/L	1.00	04/29/10 15:44	TFS	PBICPW0	SW6010B

Greenstar Environmental Solutions, LLC
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Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-11 (AP-SS-02 - Water)					**Sampled: 04/14/10 12:15**		**Recvd: 04/14/10 17:20**		
Total Metals by EPA 200 Series Methods									
Cadmium	ND		0.0010	mg/L	1.00	04/18/10 16:52	LMH	10D1405	200.7
Chromium	ND		0.0040	mg/L	1.00	04/17/10 02:09	DAN	10D1405	200.7
Iron	**0.633**	CF6	0.050	mg/L	1.00	04/17/10 02:09	DAN	10D1405	200.7
Lead	ND		0.0050	mg/L	1.00	04/17/10 02:09	DAN	10D1405	200.7
Magnesium	**19.8**	CF6	0.200	mg/L	1.00	04/17/10 02:09	DAN	10D1405	200.7
Manganese	**0.197**	CF6	0.0030	mg/L	1.00	04/17/10 02:09	DAN	10D1405	200.7
Selenium	ND		0.0150	mg/L	1.00	04/17/10 02:09	DAN	10D1405	200.7
Sodium	**3.5**		1.0	mg/L	1.00	04/17/10 02:09	DAN	10D1405	200.7
Thallium	ND		0.0200	mg/L	1.00	04/17/10 02:09	DAN	10D1405	200.7
Zinc	**0.0148**		0.0100	mg/L	1.00	04/17/10 02:09	DAN	10D1405	200.7
General Chemistry Parameters									
Ammonia as N	ND		9.20	mg/L as N	1.00	04/15/10 12:31	jmm	10D1328	350.1
Chromium, Hexavalent	ND		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Phenolics, Total Recoverable	ND		8.0	ug/L	1.00	04/20/10 23:11	JFR	10D1808	420.4
Anions by EPA Method 300.0									
Sulfate	ND		10.0	mg/L	1.00	04/16/10 11:54	BWM	10D1586	300
SW6010B									
Silicon	**4000**		100	ug/L	1.00	04/29/10 15:48	TFS	PBICPW0	SW6010B

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Work Order: RTD1266

Project: Semi-Annual GW Monitoring
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Received: 04/14/10
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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-12 (AP-SS-03 - Water)					**Sampled: 04/14/10 12:25**		**Recvd: 04/14/10 17:20**		
Total Metals by EPA 200 Series Methods									
Cadmium	ND		0.0010	mg/L	1.00	04/18/10 16:57	LMH	10D1405	200.7
Chromium	ND		0.0040	mg/L	1.00	04/17/10 02:14	DAN	10D1405	200.7
Iron	ND		0.050	mg/L	1.00	04/17/10 02:14	DAN	10D1405	200.7
Lead	ND		0.0050	mg/L	1.00	04/17/10 02:14	DAN	10D1405	200.7
Magnesium	**4.25**		0.200	mg/L	1.00	04/17/10 02:14	DAN	10D1405	200.7
Manganese	**0.0030**		0.0030	mg/L	1.00	04/17/10 02:14	DAN	10D1405	200.7
Selenium	ND		0.0150	mg/L	1.00	04/17/10 02:14	DAN	10D1405	200.7
Sodium	**56.0**		1.0	mg/L	1.00	04/17/10 02:14	DAN	10D1405	200.7
Thallium	ND		0.0200	mg/L	1.00	04/17/10 02:14	DAN	10D1405	200.7
Zinc	ND		0.0100	mg/L	1.00	04/17/10 02:14	DAN	10D1405	200.7
General Chemistry Parameters									
Ammonia as N	ND		9.20	mg/L as N	1.00	04/15/10 12:32	jmm	10D1328	350.1
Chromium, Hexavalent	ND		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Phenolics, Total Recoverable	ND		8.0	ug/L	1.00	04/20/10 23:11	JFR	10D1808	420.4
Anions by EPA Method 300.0									
Sulfate	**14.9**		10.0	mg/L	1.00	04/16/10 12:04	BWM	10D1586	300
SW6010B									
Silicon	**424**		100	ug/L	1.00	04/29/10 15:52	TFS	PBICPW0	SW6010B

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Work Order: RTD1266

Project: Semi-Annual GW Monitoring
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Received: 04/14/10
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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-13 (AP-SWB-01 - Water)					**Sampled: 04/14/10 15:30**		**Recvd: 04/14/10 17:20**		
Total Metals by EPA 200 Series Methods									
Cadmium	ND		0.0010	mg/L	1.00	04/18/10 17:02	LMH	10D1405	200.7
Chromium	ND		0.0040	mg/L	1.00	04/17/10 02:19	DAN	10D1405	200.7
Iron	ND		0.050	mg/L	1.00	04/17/10 02:19	DAN	10D1405	200.7
Lead	ND		0.0050	mg/L	1.00	04/17/10 02:19	DAN	10D1405	200.7
Magnesium	**0.969**		0.200	mg/L	1.00	04/17/10 02:19	DAN	10D1405	200.7
Manganese	**0.0067**		0.0030	mg/L	1.00	04/17/10 02:19	DAN	10D1405	200.7
Selenium	ND		0.0150	mg/L	1.00	04/17/10 02:19	DAN	10D1405	200.7
Sodium	ND		1.0	mg/L	1.00	04/17/10 02:19	DAN	10D1405	200.7
Thallium	ND		0.0200	mg/L	1.00	04/17/10 02:19	DAN	10D1405	200.7
Zinc	ND		0.0100	mg/L	1.00	04/17/10 02:19	DAN	10D1405	200.7
General Chemistry Parameters									
Ammonia as N	ND		9.20	mg/L as N	1.00	04/15/10 12:33	jmm	10D1328	350.1
Chromium, Hexavalent	ND		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Phenolics, Total Recoverable	ND		8.0	ug/L	1.00	04/20/10 23:11	JFR	10D1808	420.4
Anions by EPA Method 300.0									
Sulfate	ND		10.0	mg/L	1.00	04/16/10 12:14	BWM	10D1586	300
SW6010B									
Silicon	**1990**		100	ug/L	1.00	04/29/10 15:56	TFS	PBICPW0	SW6010B

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

Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTD1266-14 (AP-RB-01 - Water)					**Sampled: 04/14/10 15:40**		**Recvd: 04/14/10 17:20**		
Total Metals by EPA 200 Series Methods									
Cadmium	ND		0.0010	mg/L	1.00	04/18/10 17:06	LMH	10D1405	200.7
Chromium	ND		0.0040	mg/L	1.00	04/17/10 02:24	DAN	10D1405	200.7
Iron	ND		0.050	mg/L	1.00	04/17/10 02:24	DAN	10D1405	200.7
Lead	ND		0.0050	mg/L	1.00	04/17/10 02:24	DAN	10D1405	200.7
Magnesium	**0.954**		0.200	mg/L	1.00	04/17/10 02:24	DAN	10D1405	200.7
Manganese	**0.0068**		0.0030	mg/L	1.00	04/17/10 02:24	DAN	10D1405	200.7
Selenium	ND		0.0150	mg/L	1.00	04/17/10 02:24	DAN	10D1405	200.7
Sodium	ND		1.0	mg/L	1.00	04/17/10 02:24	DAN	10D1405	200.7
Thallium	ND		0.0200	mg/L	1.00	04/17/10 02:24	DAN	10D1405	200.7
Zinc	ND		0.0100	mg/L	1.00	04/17/10 02:24	DAN	10D1405	200.7
General Chemistry Parameters									
Ammonia as N	ND		9.20	mg/L as N	1.00	04/15/10 12:38	jmm	10D1329	350.1
Chromium, Hexavalent	ND		11.0	ug/L	1.00	04/14/10 22:45	MDM	10D1299	7196A
Phenolics, Total Recoverable	ND		8.0	ug/L	1.00	04/21/10 01:08	JFR	10D1808	420.4
Anions by EPA Method 300.0									
Sulfate	ND		10.0	mg/L	1.00	04/16/10 12:25	BWM	10D1586	300
SW6010B									
Silicon	**2010**		100	ug/L	1.00	04/29/10 16:00	TFS	PBICPW0	SW6010B

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

Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
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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	10D1905	RTD1266-01	5.00	mL	5.00	mL	04/20/10 08:15	ALD	Direct Injection - Anions
300	10D1905	RTD1266-02	5.00	mL	5.00	mL	04/20/10 08:15	ALD	Direct Injection - Anions
300	10D1905	RTD1266-03	5.00	mL	5.00	mL	04/20/10 08:15	ALD	Direct Injection - Anions
300	10D1905	RTD1266-04	5.00	mL	5.00	mL	04/20/10 08:15	ALD	Direct Injection - Anions
300	10D1905	RTD1266-05	5.00	mL	5.00	mL	04/20/10 08:15	ALD	Direct Injection - Anions
300	10D1905	RTD1266-06	5.00	mL	5.00	mL	04/20/10 08:15	ALD	Direct Injection - Anions
300	10D1905	RTD1266-07	5.00	mL	5.00	mL	04/20/10 08:15	ALD	Direct Injection - Anions
300	10D1905	RTD1266-09	5.00	mL	5.00	mL	04/20/10 08:15	ALD	Direct Injection - Anions
300	10D1586	RTD1266-08	5.00	mL	5.00	mL	04/16/10 10:53	BWM	Direct Injection - Anions
300	10D1586	RTD1266-10	5.00	mL	5.00	mL	04/16/10 10:53	BWM	Direct Injection - Anions
300	10D1586	RTD1266-11	5.00	mL	5.00	mL	04/16/10 10:53	BWM	Direct Injection - Anions
300	10D1586	RTD1266-12	5.00	mL	5.00	mL	04/16/10 10:53	BWM	Direct Injection - Anions
300	10D1586	RTD1266-13	5.00	mL	5.00	mL	04/16/10 10:53	BWM	Direct Injection - Anions
300	10D1586	RTD1266-14	5.00	mL	5.00	mL	04/16/10 10:53	BWM	Direct Injection - Anions
General Chemistry Parameters									
350.1	10D1328	RTD1266-01	5.00	mL	5.00	mL	04/15/10 08:34	JMM	No prep Ammonia
350.1	10D1328	RTD1266-02	5.00	mL	5.00	mL	04/15/10 08:34	JMM	No prep Ammonia
350.1	10D1328	RTD1266-03	5.00	mL	5.00	mL	04/15/10 08:34	JMM	No prep Ammonia
350.1	10D1328	RTD1266-04	5.00	mL	5.00	mL	04/15/10 08:34	JMM	No prep Ammonia
350.1	10D1328	RTD1266-05	5.00	mL	5.00	mL	04/15/10 08:34	JMM	No prep Ammonia
350.1	10D1328	RTD1266-06	5.00	mL	5.00	mL	04/15/10 08:34	JMM	No prep Ammonia
350.1	10D1328	RTD1266-07	5.00	mL	5.00	mL	04/15/10 08:34	JMM	No prep Ammonia
350.1	10D1328	RTD1266-08	5.00	mL	5.00	mL	04/15/10 08:34	JMM	No prep Ammonia
350.1	10D1328	RTD1266-09	5.00	mL	5.00	mL	04/15/10 08:34	JMM	No prep Ammonia
350.1	10D1328	RTD1266-10	5.00	mL	5.00	mL	04/15/10 08:34	JMM	No prep Ammonia
350.1	10D1328	RTD1266-11	5.00	mL	5.00	mL	04/15/10 08:34	JMM	No prep Ammonia
350.1	10D1328	RTD1266-12	5.00	mL	5.00	mL	04/15/10 08:34	JMM	No prep Ammonia
350.1	10D1328	RTD1266-13	5.00	mL	5.00	mL	04/15/10 08:34	JMM	No prep Ammonia
350.1	10D1329	RTD1266-14	5.00	mL	5.00	mL	04/15/10 08:35	JMM	No prep Ammonia
420.4	10D1806	RTD1266-01	50.00	mL	50.00	mL	04/19/10 19:19	RMB	TRP Distillation
420.4	10D1806	RTD1266-02	50.00	mL	50.00	mL	04/19/10 19:19	RMB	TRP Distillation
420.4	10D1806	RTD1266-03	50.00	mL	50.00	mL	04/19/10 19:19	RMB	TRP Distillation
420.4	10D1806	RTD1266-04	50.00	mL	50.00	mL	04/19/10 19:19	RMB	TRP Distillation
420.4	10D1806	RTD1266-05	50.00	mL	50.00	mL	04/19/10 19:19	RMB	TRP Distillation
420.4	10D1806	RTD1266-06	50.00	mL	50.00	mL	04/19/10 19:19	RMB	TRP Distillation

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
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Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
420.4	10D1808	RTD1266-07	50.00	mL	50.00	mL	04/19/10 19:22	RMB	TRP Distillation
420.4	10D1808	RTD1266-08	50.00	mL	50.00	mL	04/19/10 19:22	RMB	TRP Distillation
420.4	10D1808	RTD1266-09	50.00	mL	50.00	mL	04/19/10 19:22	RMB	TRP Distillation
420.4	10D1808	RTD1266-10	50.00	mL	50.00	mL	04/19/10 19:22	RMB	TRP Distillation
420.4	10D1808	RTD1266-11	50.00	mL	50.00	mL	04/19/10 19:22	RMB	TRP Distillation
420.4	10D1808	RTD1266-12	50.00	mL	50.00	mL	04/19/10 19:22	RMB	TRP Distillation
420.4	10D1808	RTD1266-13	50.00	mL	50.00	mL	04/19/10 19:22	RMB	TRP Distillation
420.4	10D1808	RTD1266-14	50.00	mL	50.00	mL	04/19/10 19:22	RMB	TRP Distillation
7196A	10D1299	RTD1266-01	25.00	mL	25.00	mL	04/14/10 22:45	MDM	Hex Digestion
7196A	10D1299	RTD1266-02	25.00	mL	25.00	mL	04/14/10 22:45	MDM	Hex Digestion
7196A	10D1299	RTD1266-03	25.00	mL	25.00	mL	04/14/10 22:45	MDM	Hex Digestion
7196A	10D1299	RTD1266-04	25.00	mL	25.00	mL	04/14/10 22:45	MDM	Hex Digestion
7196A	10D1299	RTD1266-05	25.00	mL	25.00	mL	04/14/10 22:45	MDM	Hex Digestion
7196A	10D1299	RTD1266-06	25.00	mL	25.00	mL	04/14/10 22:45	MDM	Hex Digestion
7196A	10D1299	RTD1266-07	25.00	mL	25.00	mL	04/14/10 22:45	MDM	Hex Digestion
7196A	10D1299	RTD1266-08	25.00	mL	25.00	mL	04/14/10 22:45	MDM	Hex Digestion
7196A	10D1299	RTD1266-09	25.00	mL	25.00	mL	04/14/10 22:45	MDM	Hex Digestion
7196A	10D1299	RTD1266-10	25.00	mL	25.00	mL	04/14/10 22:45	MDM	Hex Digestion
7196A	10D1299	RTD1266-11	25.00	mL	25.00	mL	04/14/10 22:45	MDM	Hex Digestion
7196A	10D1299	RTD1266-12	25.00	mL	25.00	mL	04/14/10 22:45	MDM	Hex Digestion
7196A	10D1299	RTD1266-13	25.00	mL	25.00	mL	04/14/10 22:45	MDM	Hex Digestion
7196A	10D1299	RTD1266-14	25.00	mL	25.00	mL	04/14/10 22:45	MDM	Hex Digestion
Total Metals by EPA 200 Series Methods									
200.7	10D1405	RTD1266-01	50.00	mL	50.00	mL	04/16/10 08:25	JRK	3005A
200.7	10D1405	RTD1266-02	50.00	mL	50.00	mL	04/16/10 08:25	JRK	3005A
200.7	10D1405	RTD1266-03	50.00	mL	50.00	mL	04/16/10 08:25	JRK	3005A
200.7	10D1405	RTD1266-04	50.00	mL	50.00	mL	04/16/10 08:25	JRK	3005A
200.7	10D1405	RTD1266-05	50.00	mL	50.00	mL	04/16/10 08:25	JRK	3005A
200.7	10D1405	RTD1266-06	50.00	mL	50.00	mL	04/16/10 08:25	JRK	3005A
200.7	10D1405	RTD1266-07	50.00	mL	50.00	mL	04/16/10 08:25	JRK	3005A
200.7	10D1405	RTD1266-08	50.00	mL	50.00	mL	04/16/10 08:25	JRK	3005A
200.7	10D1405	RTD1266-09	50.00	mL	50.00	mL	04/16/10 08:25	JRK	3005A
200.7	10D1405	RTD1266-10	50.00	mL	50.00	mL	04/16/10 08:25	JRK	3005A
200.7	10D1405	RTD1266-11	50.00	mL	50.00	mL	04/16/10 08:25	JRK	3005A
200.7	10D1405	RTD1266-12	50.00	mL	50.00	mL	04/16/10 08:25	JRK	3005A
200.7	10D1405	RTD1266-13	50.00	mL	50.00	mL	04/16/10 08:25	JRK	3005A

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

Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
200.7	10D1405	RTD1266-14	50.00	mL	50.00	mL	04/16/10 08:25	JRK	3005A

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

Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

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: 04/18/10 (Lab Number:10D1405-BLK1, Batch: 10D1405)										
Cadmium			0.0010	mg/L	ND					
Chromium			0.0040	mg/L	ND					
Iron			0.050	mg/L	ND					
Lead			0.0050	mg/L	ND					
Magnesium			0.200	mg/L	ND					
Manganese			0.0030	mg/L	ND					B
Selenium			0.0150	mg/L	ND					
Sodium			1.0	mg/L	ND					
Thallium			0.0200	mg/L	ND					
Zinc			0.0100	mg/L	ND					
LCS Analyzed: 04/18/10 (Lab Number:10D1405-BS1, Batch: 10D1405)										
Cadmium		0.200	0.0010	mg/L	0.208	104	85-115			
Chromium		0.200	0.0040	mg/L	0.211	106	85-115			
Iron		10.0	0.050	mg/L	10.3	103	85-115			
Lead		0.200	0.0050	mg/L	0.210	105	85-115			
Magnesium		10.0	0.200	mg/L	10.7	107	85-115			
Manganese		0.200	0.0030	mg/L	0.211	105	85-115			
Selenium		0.200	0.0150	mg/L	0.209	104	85-115			
Sodium		10.0	1.0	mg/L	10.7	107	85-115			
Thallium		0.200	0.0200	mg/L	0.208	104	85-115			
Zinc		0.200	0.0100	mg/L	0.207	104	85-115			
Matrix Spike Analyzed: 04/18/10 (Lab Number:10D1405-MS1, Batch: 10D1405)										
QC Source Sample: RTD1266-03										
Cadmium	ND	0.200	0.0010	mg/L	0.208	104	70-130			
Chromium	ND	0.200	0.0040	mg/L	0.209	104	70-130			
Iron	0.0260	10.0	0.050	mg/L	10.3	103	70-130			
Lead	ND	0.200	0.0050	mg/L	0.209	105	70-130			
Magnesium	9.96	10.0	0.200	mg/L	20.5	105	70-130			
Manganese	0.0139	0.200	0.0030	mg/L	0.224	105	70-130			
Selenium	ND	0.200	0.0150	mg/L	0.213	106	70-130			
Sodium	51.8	10.0	1.0	mg/L	63.1	113	70-130			
Thallium	ND	0.200	0.0200	mg/L	0.211	105	70-130			
Zinc	0.00605	0.200	0.0100	mg/L	0.208	101	70-130			
Matrix Spike Dup Analyzed: 04/18/10 (Lab Number:10D1405-MSD1, Batch: 10D1405)										
QC Source Sample: RTD1266-03										
Cadmium	ND	0.200	0.0010	mg/L	0.209	104	70-130	0.5	20	

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

Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

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										
Matrix Spike Dup Analyzed: 04/17/10 (Lab Number:10D1405-MSD1, Batch: 10D1405)										
QC Source Sample: RTD1266-03										
Chromium	ND	0.200	0.0040	mg/L	0.211	106	70-130	1	20	
Iron	0.0260	10.0	0.050	mg/L	10.4	104	70-130	1	20	
Lead	ND	0.200	0.0050	mg/L	0.211	105	70-130	0.9	20	
Magnesium	9.96	10.0	0.200	mg/L	20.9	110	70-130	2	20	
Manganese	0.0139	0.200	0.0030	mg/L	0.227	106	70-130	1	20	
Selenium	ND	0.200	0.0150	mg/L	0.216	108	70-130	2	20	
Sodium	51.8	10.0	1.0	mg/L	64.7	129	70-130	3	20	
Thallium	ND	0.200	0.0200	mg/L	0.211	106	70-130	0.2	20	
Zinc	0.00605	0.200	0.0100	mg/L	0.210	102	70-130	0.7	20	

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

Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters										
Blank Analyzed: 04/14/10 (Lab Number:10D1299-BLK1, Batch: 10D1299)										
Chromium, Hexavalent			11.0	ug/L	ND					
LCS Analyzed: 04/14/10 (Lab Number:10D1299-BS1, Batch: 10D1299)										
Chromium, Hexavalent		50.0	10.0	ug/L	49.4	99	85-115			
Duplicate Analyzed: 04/14/10 (Lab Number:10D1299-DUP1, Batch: 10D1299)										
QC Source Sample: RTD1266-08										
Chromium, Hexavalent	135		10.0	ug/L	144			6	20	
Matrix Spike Analyzed: 04/14/10 (Lab Number:10D1299-MS1, Batch: 10D1299)										
QC Source Sample: RTD1266-08										
Chromium, Hexavalent	135	50.0	10.0	ug/L	207	145	75-120			M1
General Chemistry Parameters										
Blank Analyzed: 04/15/10 (Lab Number:10D1328-BLK1, Batch: 10D1328)										
Ammonia as N			9.20	mg/L as N	ND					
LCS Analyzed: 04/15/10 (Lab Number:10D1328-BS1, Batch: 10D1328)										
Ammonia as N		0.750	0.020	mg/L as N	0.685	91	90-110			
Duplicate Analyzed: 04/15/10 (Lab Number:10D1328-DUP1, Batch: 10D1328)										
QC Source Sample: RTD1266-13										
Ammonia as N	ND		0.020	mg/L as N	0.0109				20	
Matrix Spike Analyzed: 04/15/10 (Lab Number:10D1328-MS1, Batch: 10D1328)										
QC Source Sample: RTD1266-13										
Ammonia as N	ND	0.200	0.020	mg/L as N	0.196	98	54-150			
General Chemistry Parameters										
Blank Analyzed: 04/15/10 (Lab Number:10D1329-BLK1, Batch: 10D1329)										
Ammonia as N			9.20	mg/L as N	ND					
LCS Analyzed: 04/15/10 (Lab Number:10D1329-BS1, Batch: 10D1329)										
Ammonia as N		0.750	0.020	mg/L as N	0.708	94	90-110			
General Chemistry Parameters										
Blank Analyzed: 04/20/10 (Lab Number:10D1806-BLK1, Batch: 10D1806)										
Phenolics, Total Recoverable			8.00	ug/L	ND					
LCS Analyzed: 04/20/10 (Lab Number:10D1806-BS1, Batch: 10D1806)										

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

Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters										
LCS Analyzed: 04/20/10 (Lab Number:10D1806-BS1, Batch: 10D1806)										
Phenolics, Total Recoverable		653	40.0	ug/L	626	96	75-125			
General Chemistry Parameters										
Blank Analyzed: 04/20/10 (Lab Number:10D1808-BLK1, Batch: 10D1808)										
Phenolics, Total Recoverable			8.00	ug/L	ND					
LCS Analyzed: 04/20/10 (Lab Number:10D1808-BS1, Batch: 10D1808)										
Phenolics, Total Recoverable		653	40.0	ug/L	692	106	75-125			

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

Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Anions by EPA Method 300.0										
Blank Analyzed: 04/16/10 (Lab Number:10D1586-BLK1, Batch: 10D1586)										
Sulfate			10.0	mg/L	ND					
LCS Analyzed: 04/16/10 (Lab Number:10D1586-BS1, Batch: 10D1586)										
Sulfate		20.0	2.00	mg/L	21.0	105	90-110			
Matrix Spike Analyzed: 04/16/10 (Lab Number:10D1586-MS1, Batch: 10D1586)										
QC Source Sample: RTD1266-14										
Sulfate	2.62	25.0	2.00	mg/L	30.3	111	75-125			
Matrix Spike Dup Analyzed: 04/16/10 (Lab Number:10D1586-MSD1, Batch: 10D1586)										
QC Source Sample: RTD1266-14										
Sulfate	2.62	25.0	2.00	mg/L	29.8	109	75-125	1	20	
Anions by EPA Method 300.0										
Blank Analyzed: 04/20/10 (Lab Number:10D1905-BLK1, Batch: 10D1905)										
Sulfate			10.0	mg/L	ND					
LCS Analyzed: 04/20/10 (Lab Number:10D1905-BS1, Batch: 10D1905)										
Sulfate		20.0	2.00	mg/L	21.3	106	90-110			
Matrix Spike Analyzed: 04/20/10 (Lab Number:10D1905-MS2, Batch: 10D1905)										
QC Source Sample: RTD1266-07										
Sulfate	75.8	25.0	2.00	mg/L	101	101	75-125			

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

Work Order: RTD1266

Project: Semi-Annual GW Monitoring
Project Number: GES

Received: 04/14/10
Reported: 05/04/10 09:46

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
SW6010B										
LCS Analyzed: 04/29/10 (Lab Number:LCSW042810A, Batch: PBICPW0)										
Silicon		1000	100.00	ug/L	1031.00	103	80.00-120.0			
Blank Analyzed: 04/29/10 (Lab Number:PBW042810A, Batch: PBICPW0)										
Silicon			100.000	ug/L	ND		-			

Chain of Custody Record

TestAmerica
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Temperature on Receipt ____
Drinking Water? Yes ☐ No ☒

TAL-4124 (1007)

Client: GREENSTAR	Project Manager: Chip McLeod	Date: 04/14/10	Chain of Custody Number: 166820
Address: 6 Gellatly Drive	Telephone Number (Area Code)/Fax Number: 845-223-9944/9955	Lab Number	Page 1 of 2
City: Wappingers Falls / State: NY / Zip Code: 12590	Site Contact: STEVE 908-358-4768	Lab Contact: JRK	
Project Name and Location (State): AIRCO - SEMI-ANNUAL GW MONITORING	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	Zn Ac/ NaOH	Analysis: me	TSS	SO4	Cr+6 WB	Ammonia	TPHENOLS	Special Instructions/ Conditions of Receipt
AP-MW-1B	04/14/10	0856		X			1	2	2			1	X	X	X	X	X	X	
AP-MW-2B		0948											X	X	X	X	X	X	
AP-MW-3B		1050											X	X	X	X	X	X	
AP-MW-4B		1105											X	X	X	X	X	X	
AP-MW-5B		1120											X	X	X	X	X	X	
AP-MW-6B		1245											X	X	X	X	X	X	
AP-MW-7B		1505											X	X	X	X	X	X	
AP-MW-8B		1520											X	X	X	X	X	X	
AP-MW-DUP-01		N/A											X	X	X	X	X	X	
AP-SS-01		1205											X	X	X	X	X	X	
AP-SS-02		1215											X	X	X	X	X	X	
AP-SS-03		1225											X	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)

1. Relinquished By: GES	Date: 04/14/10	Time: 1720	1. Received By: Andrea Sygrander	Date: 4-14-10	Time: 1720
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: ** HEX CHROME - SHORT HOLD ** 5°C 6.0°C

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 ☑

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TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
GREENSTAR	CHIP McLEOD	04/14/10	166821
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 2 of 2
6 GELLATLY DRIVE	845-223-9944/9955		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
WAPPINGERS FALLS / NY / 12590	SB	JRK	
Project Name and Location (State)	**Carrier/Waybill Number**		
AIRCO - SEMI ANNUAL GW MONITORING			
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.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Analysis: MS	TSS	SOM	Cr+6 WQ	AMMONIA	TPHENOLS	Special Instructions/ Conditions of Receipt
AP-SWB-01	4/14/10	1530		X			1	2	2				X	X	X	X	X	X	
AP-RB-01	4/14/10	1540		X			1	2	2				X	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: S. Bi... GBS	04/14/10	1720	1. Received By:	4.14.10	1720
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments
☆ HEX CHROME - SHORT HOLD ☆

3 @ 6.0°C

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

May 3, 2010

Ms. Peggy Gray-Erdmann
TestAmerica, Inc.
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Re: Laboratory Project No. 29012
Case: AIRCO; SDG: RTD1266

Dear Ms. Gray-Erdmann:

Enclosed are the analytical results for the samples that were received by TestAmerica Burlington on April 17th, 2010. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 04/17/10 ETR No: 136930		
827141	RTD1266-01	04/14/10	WATER
827142	RTD1266-02	04/14/10	WATER
827143	RTD1266-03	04/14/10	WATER
827144	RTD1266-04	04/14/10	WATER
827145	RTD1266-05	04/14/10	WATER
827146	RTD1266-06	04/14/10	WATER
827147	RTD1266-07	04/14/10	WATER
827148	RTD1266-08	04/14/10	WATER
827149	RTD1266-09	04/14/10	WATER
827150	RTD1266-10	04/14/10	WATER
827151	RTD1266-11	04/14/10	WATER
827152	RTD1266-12	04/14/10	WATER
827153	RTD1266-13	04/14/10	WATER
827154	RTD1266-14	04/14/10	WATER

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

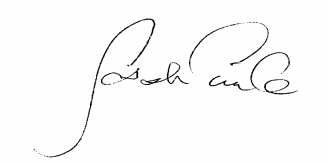
Total Silicon by SW-846 6010B
There was no quality control issues observed during the analysis of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Any reference within this report to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.) The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 660-1990.

Sincerely,



Joseph Carabillo
Project Manager

cc:

Continuation...

TestAmerica Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: SW-846: The relative percent difference for detected concentrations between two GC columns is greater than 40%. Unless otherwise specified the higher of the two values is reported on the Form I.

CLP SOW: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

*: Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P	ICP-AES
MS	ICP-MS
CV	Cold Vapor AA
AS	Semi-Automated Spectrophotometric

FQA009:02.18.08:4
TestAmerica Burlington

USEPA_CLP FORMS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: STLNYB **SDG No.:** RTD1266 **Method Type:** 6010B

Sample ID: 827141 **Client ID:** RTD1266-01

Contract: 29012 **Lab Code:** STLVT **Case No.:** AIRCO **SAS No.:**

Matrix: WATER **Date Received:** 4/17/2010 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7440-21-3	Silicon	7060	ug/L			P	100	TJA ICAP 7	042910-02

Color Before: colorless **Clarity Before:** clear **Texture:**

Color After: light yellow **Clarity After:** clear **Artifacts:**

Comments:

USEPA_CLP FORMS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: STLNYB **SDG No.:** RTD1266 **Method Type:** 6010B

Sample ID: 827142 **Client ID:** RTD1266-02

Contract: 29012 **Lab Code:** STLVT **Case No.:** AIRCO **SAS No.:**

Matrix: WATER **Date Received:** 4/17/2010 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7440-21-3	Silicon	635	ug/L			P	100	TJA ICAP 7	042910-02

Color Before: colorless **Clarity Before:** clear **Texture:**

Color After: light yellow **Clarity After:** clear **Artifacts:**

Comments:

USEPA_CLP FORMS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: STLNYB **SDG No.:** RTD1266 **Method Type:** 6010B

Sample ID: 827143 **Client ID:** RTD1266-03

Contract: 29012 **Lab Code:** STLVT **Case No.:** AIRCO **SAS No.:**

Matrix: WATER **Date Received:** 4/17/2010 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7440-21-3	Silicon	4810	ug/L			P	100	TJA ICAP 7	042910-02

Color Before: colorless **Clarity Before:** clear **Texture:**

Color After: light yellow **Clarity After:** clear **Artifacts:**

Comments:

USEPA_CLP FORMS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: STLNYB **SDG No.:** RTD1266 **Method Type:** 6010B

Sample ID: 827144 **Client ID:** RTD1266-04

Contract: 29012 **Lab Code:** STLVT **Case No.:** AIRCO **SAS No.:**

Matrix: WATER **Date Received:** 4/17/2010 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7440-21-3	Silicon	7650	ug/L			P	100	TJA ICAP 7	042910-02

Color Before: colorless **Clarity Before:** clear **Texture:**

Color After: light yellow **Clarity After:** clear **Artifacts:**

Comments:

USEPA_CLP FORMS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: STLNYB **SDG No.:** RTD1266 **Method Type:** 6010B

Sample ID: 827145 **Client ID:** RTD1266-05

Contract: 29012 **Lab Code:** STLVT **Case No.:** AIRCO **SAS No.:**

Matrix: WATER **Date Received:** 4/17/2010 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7440-21-3	Silicon	7230	ug/L			P	100	TJA ICAP 7	042910-02

Color Before: colorless **Clarity Before:** clear **Texture:**

Color After: light yellow **Clarity After:** clear **Artifacts:**

Comments:

USEPA_CLP FORMS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: STLNYB **SDG No.:** RTD1266 **Method Type:** 6010B

Sample ID: 827146 **Client ID:** RTD1266-06

Contract: 29012 **Lab Code:** STLVT **Case No.:** AIRCO **SAS No.:**

Matrix: WATER **Date Received:** 4/17/2010 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7440-21-3	Silicon	5170	ug/L			P	100	TJA ICAP 7	042910-02

Color Before: colorless **Clarity Before:** clear **Texture:**

Color After: light yellow **Clarity After:** clear **Artifacts:**

Comments:

USEPA_CLP FORMS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: STLNYB **SDG No.:** RTD1266 **Method Type:** 6010B

Sample ID: 827147 **Client ID:** RTD1266-07

Contract: 29012 **Lab Code:** STLVT **Case No.:** AIRCO **SAS No.:**

Matrix: WATER **Date Received:** 4/17/2010 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7440-21-3	Silicon	4900	ug/L			P	100	TJA ICAP 7	042910-02

Color Before: colorless **Clarity Before:** clear **Texture:**

Color After: light yellow **Clarity After:** clear **Artifacts:**

Comments:

USEPA_CLP FORMS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: STLNYB **SDG No.:** RTD1266 **Method Type:** 6010B

Sample ID: 827148 **Client ID:** RTD1266-08

Contract: 29012 **Lab Code:** STLVT **Case No.:** AIRCO **SAS No.:**

Matrix: WATER **Date Received:** 4/17/2010 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7440-21-3	Silicon	6610	ug/L			P	100	TJA ICAP 7	042910-02

Color Before: colorless **Clarity Before:** clear **Texture:**

Color After: light yellow **Clarity After:** clear **Artifacts:**

Comments:

USEPA_CLP FORMS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: STLNYB **SDG No.:** RTD1266 **Method Type:** 6010B

Sample ID: 827149 **Client ID:** RTD1266-09

Contract: 29012 **Lab Code:** STLVT **Case No.:** AIRCO **SAS No.:**

Matrix: WATER **Date Received:** 4/17/2010 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7440-21-3	Silicon	598	ug/L			P	100	TJA ICAP 7	042910-02

Color Before: colorless **Clarity Before:** clear **Texture:**

Color After: light yellow **Clarity After:** clear **Artifacts:**

Comments:

USEPA_CLP FORMS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: STLNYB **SDG No.:** RTD1266 **Method Type:** 6010B

Sample ID: 827150 **Client ID:** RTD1266-10

Contract: 29012 **Lab Code:** STLVT **Case No.:** AIRCO **SAS No.:**

Matrix: WATER **Date Received:** 4/17/2010 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7440-21-3	Silicon	384	ug/L			P	100	TJA ICAP 7	042910-02

Color Before: colorless **Clarity Before:** clear **Texture:**

Color After: light yellow **Clarity After:** clear **Artifacts:**

Comments:

USEPA_CLP FORMS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: STLNYB **SDG No.:** RTD1266 **Method Type:** 6010B

Sample ID: 827151 **Client ID:** RTD1266-11

Contract: 29012 **Lab Code:** STLVT **Case No.:** AIRCO **SAS No.:**

Matrix: WATER **Date Received:** 4/17/2010 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7440-21-3	Silicon	4000	ug/L			P	100	TJA ICAP 7	042910-02

Color Before: colorless **Clarity Before:** clear **Texture:**

Color After: light yellow **Clarity After:** clear **Artifacts:**

Comments:

USEPA_CLP FORMS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: STLNYB **SDG No.:** RTD1266 **Method Type:** 6010B

Sample ID: 827152 **Client ID:** RTD1266-12

Contract: 29012 **Lab Code:** STLVT **Case No.:** AIRCO **SAS No.:**

Matrix: WATER **Date Received:** 4/17/2010 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7440-21-3	Silicon	424	ug/L			P	100	TJA ICAP 7	042910-02

Color Before: colorless **Clarity Before:** clear **Texture:**

Color After: light yellow **Clarity After:** clear **Artifacts:**

Comments:

USEPA_CLP FORMS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: STLNYB **SDG No.:** RTD1266 **Method Type:** 6010B

Sample ID: 827153 **Client ID:** RTD1266-13

Contract: 29012 **Lab Code:** STLVT **Case No.:** AIRCO **SAS No.:**

Matrix: WATER **Date Received:** 4/17/2010 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7440-21-3	Silicon	1990	ug/L			P	100	TJA ICAP 7	042910-02

Color Before: colorless **Clarity Before:** clear **Texture:**

Color After: light yellow **Clarity After:** clear **Artifacts:**

Comments:

USEPA_CLP FORMS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: STLNYB **SDG No.:** RTD1266 **Method Type:** 6010B

Sample ID: 827154 **Client ID:** RTD1266-14

Contract: 29012 **Lab Code:** STLVT **Case No.:** AIRCO **SAS No.:**

Matrix: WATER **Date Received:** 4/17/2010 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7440-21-3	Silicon	2010	ug/L			P	100	TJA ICAP 7	042910-02

Color Before: colorless **Clarity Before:** clear **Texture:**

Color After: light yellow **Clarity After:** clear **Artifacts:**

Comments:

USEPA_CLP FORMS
- 3b -
PREPARATION BLANK SUMMARY

Client: STLNYB **SDG No.:** RTD1266

Contract: 29012 **Lab Code:** STLVT **Case No.:** AIRCO **SAS No.:**

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	IDL	CRDL	M	Analysis Date	Analysis Time	Run
PBW042810A			**WATER**							
	Silicon	100.000	+/-100.000	U	100.000	100.000	P	4/29/2010	14:50	042910-02

USEPA_CLP FORMS
- 7 -
LABORATORY CONTROL SAMPLE SUMMARY

Client: STLNYB **SDG No.:** RTD1266

Contract: 29012 **Lab Code:** STLVT **Case No.:** AIRCO **SAS No.:**

Aqueous LCS Source: Inorganic Ventures **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LCSW042810A								
	Silicon	ug/L	1000.0	1031.00		103.1	80.0 - 120.0	P

USEPA_CLP FORMS
- 13 -
SAMPLE PREPARATION SUMMARY

Client: STLNYB **SDG No.:** RTD1266

Contract: 29012 **Lab Code:** STLVT **Method:** P

Case No.: AIRCO **SAS No.:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	PBICPW042810A						
PBW042810A	PBW042810A	MB	WATER	4/28/10	100.0	100.0	
LCSW042810A	LCSW042810A	LCS	WATER	4/28/10	100.0	100.0	
827141	RTD1266-01	SAM	WATER	4/28/10	100.0	100.0	
827142	RTD1266-02	SAM	WATER	4/28/10	100.0	100.0	
827143	RTD1266-03	SAM	WATER	4/28/10	100.0	100.0	
827144	RTD1266-04	SAM	WATER	4/28/10	100.0	100.0	
827145	RTD1266-05	SAM	WATER	4/28/10	100.0	100.0	
827146	RTD1266-06	SAM	WATER	4/28/10	100.0	100.0	
827147	RTD1266-07	SAM	WATER	4/28/10	100.0	100.0	
827148	RTD1266-08	SAM	WATER	4/28/10	100.0	100.0	
827149	RTD1266-09	SAM	WATER	4/28/10	100.0	100.0	
827150	RTD1266-10	SAM	WATER	4/28/10	100.0	100.0	
827151	RTD1266-11	SAM	WATER	4/28/10	100.0	100.0	
827152	RTD1266-12	SAM	WATER	4/28/10	100.0	100.0	
827153	RTD1266-13	SAM	WATER	4/28/10	100.0	100.0	
827154	RTD1266-14	SAM	WATER	4/28/10	100.0	100.0	

USEPA CLP FORMS
14
ANALYSIS RUN LOG

Client: STLNYB Contract: 29012

Lab Code: STLVT Case No.: AIRCO SAS No.: SDG No.: RTD1266

Instrument ID Number: TJA ICAP 7 Method: P Run Number: 042910-02

Start Date: 4/29/2010 End Date: 4/29/2010

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN	
S0	1.00	1407																									*
STD7	1.00	1411																									
STD8	1.00	1415																									
STD4	1.00	1419																									*
ICV	1.00	1423																									*
ICB	1.00	1426																									*
ICSA	1.00	1430																									*
ICSAB	1.00	1434																									*
CRI	1.00	1438																									*
CCV	1.00	1442																									*
CCB	1.00	1446																									*
PBW042810A	1.00	1450																									*
LCSW042810A	1.00	1453																									*
RTD1266-01	1.00	1457																									*
ZZZZZZ	5.00	1501																									
RTD1266-02	1.00	1505																									*
RTD1266-03	1.00	1509																									*
RTD1266-04	1.00	1513																									*
RTD1266-05	1.00	1517																									*
RTD1266-06	1.00	1521																									*
RTD1266-07	1.00	1525																									*
CCV	1.00	1529																									*
CCB	1.00	1533																									*
RTD1266-08	1.00	1536																									*
RTD1266-09	1.00	1540																									*
RTD1266-10	1.00	1544																									*
RTD1266-11	1.00	1548																									*
RTD1266-12	1.00	1552																									*
RTD1266-13	1.00	1556																									*
RTD1266-14	1.00	1600																									*
CCV	1.00	1604																									*
CCB	1.00	1608																									*

USEPA CLP FORMS

-14-

ANALYSIS RUN LOG

Client: STLNYB Contract: 29012

Lab Code: STLVT Case No.: AIRCO SAS No.: SDG No.: RTD1266

Instrument ID Number: TJA ICAP 7 Method: P Run Number: RTD1266

Start Date: 4/29/2010 End Date: 4/29/2010

EPA Sample No.	D/F	Time	% R	Analytes																							
				B	AU	LI	MO	OS	PD	P	PT	SI	S	SN	SR	TI	U	W	IN								
S0	1.00	14:07										X															
STD7	1.00	14:11																									
STD8	1.00	14:15																									
STD4	1.00	14:19										X															
ICV	1.00	14:23										X															
ICB	1.00	14:26										X															
ICSA	1.00	14:30										X															
ICSAB	1.00	14:34										X															
CRI	1.00	14:38										X															
CCV	1.00	14:42										X															
CCB	1.00	14:46										X															
PBW042810A	1.00	14:50										X															
LCSW042810A	1.00	14:53										X															
RTD1266-01	1.00	14:57										X															
ZZZZZZ	5.00	15:01																									
RTD1266-02	1.00	15:05										X															
RTD1266-03	1.00	15:09										X															
RTD1266-04	1.00	15:13										X															
RTD1266-05	1.00	15:17										X															
RTD1266-06	1.00	15:21										X															
RTD1266-07	1.00	15:25										X															
CCV	1.00	15:29										X															
CCB	1.00	15:33										X															
RTD1266-08	1.00	15:36										X															
RTD1266-09	1.00	15:40										X															
RTD1266-10	1.00	15:44										X															
RTD1266-11	1.00	15:48										X															
RTD1266-12	1.00	15:52										X															
RTD1266-13	1.00	15:56										X															
RTD1266-14	1.00	16:00										X															
CCV	1.00	16:04										X															
CCB	1.00	16:08										X															

SUBCONTRACT ORDER
TestAmerica Buffalo

RTD1266

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 Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone :(203) 944-1307
Fax: -
Project Location: _UNKNOWN
Receipt Temperature: 1.3 °C Ice: (Y) / N

Report: Level 2 Report

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: RTD1266-01 (AP-MW-1B - Water) Sampled: **04/14/10 08:56**						
SUB - 6010B Tot - Silicon	mg/L	04/29/10	10/11/10 08:56	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTD1266-02 (AP-MW-2B - Water) Sampled: **04/14/10 09:48**						
SUB - 6010B Tot - Silicon	mg/L	04/29/10	10/11/10 09:48	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTD1266-03 (AP-MW-3B - Water) Sampled: **04/14/10 10:50**						
SUB - 6010B Tot - Silicon	mg/L	04/29/10	10/11/10 10:50	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTD1266-04 (AP-MW-4B - Water) Sampled: **04/14/10 11:05**						
SUB - 6010B Tot - Silicon	mg/L	04/29/10	10/11/10 11:05	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTD1266-05 (AP-MW-5B - Water) Sampled: **04/14/10 11:20**						
SUB - 6010B Tot - Silicon	mg/L	04/29/10	10/11/10 11:20	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTD1266-06 (AP-MW-6B - Water) Sampled: **04/14/10 12:45**						
SUB - 6010B Tot - Silicon	mg/L	04/29/10	10/11/10 12:45	$30.00	0%	NONE,
Containers Supplied:						

Released By	Date/Time	Received By	Date/Time
4/15/10 1740		4-16-10	9:30
Released By	Date/Time	Received By	Date/Time
4/16/10 1530		04/17/10	0940

Page 1 of 2

SUBCONTRACT ORDER
TestAmerica Buffalo

RTD1266

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: RTD1266-07 (AP-MW-7B - Water)			Sampled: **04/14/10 15:05**			
SUB - 6010B Tot - Silicon	mg/L	04/29/10	10/11/10 15:05	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTD1266-08 (AP-MW-8B - Water)			Sampled: **04/14/10 15:20**			
SUB - 6010B Tot - Silicon	mg/L	04/29/10	10/11/10 15:20	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTD1266-09 (AP-MW-DUP-01 - Water)			Sampled: **04/14/10 00:00**			
SUB - 6010B Tot - Silicon	mg/L	04/29/10	10/11/10 00:00	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTD1266-10 (AP-SS-01 - Water)			Sampled: **04/14/10 12:05**			
SUB - 6010B Tot - Silicon	mg/L	04/29/10	10/11/10 12:05	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTD1266-11 (AP-SS-02 - Water)			Sampled: **04/14/10 12:15**			
SUB - 6010B Tot - Silicon	mg/L	04/29/10	10/11/10 12:15	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTD1266-12 (AP-SS-03 - Water)			Sampled: **04/14/10 12:25**			
SUB - 6010B Tot - Silicon	mg/L	04/29/10	10/11/10 12:25	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTD1266-13 (AP-SWB-01 - Water)			Sampled: **04/14/10 15:30**			
SUB - 6010B Tot - Silicon	mg/L	04/29/10	10/11/10 15:30	$30.00	0%	NONE,
Containers Supplied:						
Sample ID: RTD1266-14 (AP-RB-01 - Water)			Sampled: **04/14/10 15:40**			
SUB - 6010B Tot - Silicon	mg/L	04/29/10	10/11/10 15:40	$30.00	0%	NONE,
Containers Supplied:						

TestAmerica Burlington
SAMPLE RECEIPT & LOG IN CHECKLIST

Client:	STLNYB	Date Received:	04/17/10	Log In Date:	04/19/10
ETR:	136930	Time Received:	0940	By:	[illegible]
SDG:	RTD1266	Received By:	VP	Signature:	[illegible]
Project:	29012	# Coolers Received:	1	PM Signature:	[illegible]
Samples Delivered By: ☒ Shipping Service ☐ Courier ☐ Hand ☐ Other (specify)				Date:	4.20.10

List Air bill Number(s) or Attach a photocopy of the Air Bill:

COOLER SCREEN	YES	NO	NA	COMMENTS
There is *no* evidence to indicate tampering	X			
Custody seals are present and intact	X			
Custody seal numbers are present		X		
If yes, list custody seal numbers:				

Thermal Preservation Type: ☒ Wet Ice ☐ Blue Ice ☐ None ☐ Other (specify)

IR Gun ID: 96 Correction Factor (CF) = -2 °C

Cooler 1: 1.3 °C	Cooler 6 °C	Cooler 11 °C	Cooler 16 °C
Cooler 2: °C	Cooler 7 °C	Cooler 12 °C	Cooler 17 °C
Cooler 3: °C	Cooler 8 °C	Cooler 13 °C	Cooler 18 °C
Cooler 4: °C	Cooler 9 °C	Cooler 14 °C	Cooler 19 °C
Cooler 5 °C	Cooler 10 °C	Cooler 15 °C	Cooler 20 °C

Unless otherwise documented, the recorded temperature readings are adjusted readings to account for the CF of the IR Gun

EPA Criteria: 0-6°C, except for air and geo samples which should be at ambient temperature and tissue samples, which may be frozen.

Some clients require thermal preservation criteria of 2-4°C or other such criteria. The PM must notify SM when alternate criteria is specified.

SAMPLE CONDITION	YES	NO	NA	COMMENTS
Sample containers were received intact	X			
Legible sample labels are affixed to each container	X			
CHAIN OF CUSTODY (COC)	**YES**	**NO**	**NA**	**COMMENTS**
COC is present and includes the following information for each container:				
• Sample ID / Sample Description	X			
• Date of Sample Collection	X			
• Time of Sample Collection	X			
• Identification of the Sampler		X		
• Preservation Type		X		
• Requested Tests Method(s)	X			
• Necessary Signatures				
Internal Chain of Custody (ICOC) Required		X		
If yes to above, ICOC Record initiated for every Worksheet			X	
SAMPLE INTEGRITY / USABILITY	**YES**	**NO**	**NA**	**COMMENTS**
The sample container matches the COC	X			
Appropriate sample containers were received for the tests requested	X			
Samples were received within holding time	X			
Sufficient amount of sample is provided for requested analyses	X			
VOA vials do not have headspace or a bubble >6mm (1/4" diameter)			X	
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification		X		
If no, attach Inorganic Sample pH Adjustment Form	X			

ANOMALY / NCR SUMMARY

Samples put in shipper on 04/17 [illegible], no copy of shipping label made.

Samples RTD1266-02 and 09 read at PH 7, samples RTD1266-10 and 12 read at PH 5, PH adjusted by [illegible], see attached checklist.

FSR002:12.19.07:3
TestAmerica Burlington

Attachment E

Landfill Cap Inspection Checklists
March and May 2010

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

Personnel:	Bruce Vinal
Date:	1st Quarter Inspection (20 March 2010)
Weather:	Overcast, 45 degrees

1. **Inspection of ground surface for exposure of geotextile cover (cap erosion):**
   Small sections of filter layer exposed at start of drainage swale. Disturbance occurred during stone removal/replacement completed as part of routine O+M.

2. **Inspection of ground surface for differential settlement resulting in soil cracking or ponded water:** Areas around T-7 settlement pond were disturbed during cleaning operations. Recommend topdressing these areas with loam and re-seeding to eliminate any chance of ponding or erosion.

3. **Identification of stressed vegetation:**
   Re-seeded areas in the South West Corner appear to be doing well, will monitor throughout the year

4. **Identification of seeps, rooted vegetation (trees), and/or animal burrows:**
   None observed.

5. **Identification of deteriorating equipment (i.e., monitoring wells, fencing, or drainage structures):**
   Chain link fence adjacent to Well #1 was slightly damaged during mowing operations in October.

6. **Inspection of stormwater drainage swales for erosion, sloughing, or flow-through:**
   During a heavy rain/thaw event in January, runoff water was slowed by the stone road over the drainage swale in the SW corner and flooded the T-1 drywell damaging the actuator. Recommend installing 2 - 8”x 20’ pipes under the road to avoid this issue in the future.

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 observed.

8. **Inspection of access roads:**
   All access roads are in good shape.

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

Personnel:	Bruce Vinal - Greenstar Engineering, PC
Date:	2nd Quarter Inspection (22 May 2010)
Weather:	Sunny, 65 degrees

1. **Inspection of ground surface for exposure of geotextile cover (cap erosion):** Small sections of fabric still exposed in discharge swale, no immediate action required. Repairs will be made next time heavy equipment is on site.

2. **Inspection of ground surface for differential settlement resulting in soil cracking or ponded water:** Areas of disturbance around T-7 still require repair. Southern slopes of T-7 are about 1.5' lower than the slopes on the North, recommend adding fill and topsoil to avoid a potential breach should outlet become obstructed.

3. **Identification of stressed vegetation:** Re-seeded areas in the South West Corner are to be doing well

4. **Identification of seeps, rooted vegetation (trees), and/or animal burrows:** None noted

5. **Identification of deteriorating equipment (i.e., monitoring wells, fencing, or drainage structures):** Damage to fence at well #1 is primarily cosmetic and does not affect the integrity of the fence. Expensive repairs not deemed necessary. One of the covers (Tarp) on the T-3 tanks has begun to tear from contact around the tanks opening, tears are small at this time but tarp may need to be repaired or replaced in the future.

6. **Inspection of stormwater drainage swales for erosion, sloughing, or flow-through:** Although a sump pump has been added to the T-1 drywell, it is still recommended that culvert pipes be added under stone road at the Southern end of swale

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 at this time

Attachment F

Laboratory Analytical Results for GCTS Discharge Sampling March and May 2010

Analytical Report

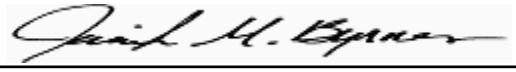
Work Order: RTC1461

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, April 8, 2010

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

Work Order: RTC1461

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 03/29/10
Reported: 04/08/10 11:40

TestAmerica Buffalo
Current Certifications

As of 12/21/2009

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
Oklahoma	CWA, RCRA	9421
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.

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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.

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
420.4	Phenolics, Total Recoverable	ug/L	8.0	10.0

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DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
D08	Dilution required due to high concentration of target analyte(s)
HFT	The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
M8	The MS and/or MSD were below the acceptance limits. 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.

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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: RTC1461-01 (AP-EWE-01 - Water)						**Sampled: 03/29/10 15:20**		**Recvd: 03/29/10 16:00**		
General Chemistry Parameters										
pH	**8.06**	HFT	0.100	NR	SU	1.00	03/29/10 21:39	JME	10C2189	9040
Oxygen, Dissolved	**12.6**		7.00	NR	mg/L	1.00	03/29/10 20:20	JME	10C2185	4500-O G
Nitrate	**2.43**		0.050	NR	mg/L as N	1.00	03/30/10 16:44	JFR	10C2328	353.2
Total Dissolved Solids	**574**	B	4.0	NR	mg/L	1.00	04/01/10 10:56	KLD	10D0028	2540C

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Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
AP-EWE-01	RTC1461-01	Water	03/29/10 15:20	03/29/10 16:00	

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTC1461-01 (AP-EWE-01 - Water)						**Sampled: 03/29/10 15:20**		**Recvd: 03/29/10 16:00**		
Volatile Organic Compounds										
1,1-Dichloroethane	ND		5.0	0.59	ug/L	1.00	03/31/10 14:52	TRB	10C2384	624
Trichloroethene	ND		5.0	0.60	ug/L	1.00	03/31/10 14:52	TRB	10C2384	624
1,2-Dichloroethane-d4	*98 %*		*Surr Limits: (88-132%)*				*03/31/10 14:52*	*TRB*	*10C2384*	*624*
4-Bromofluorobenzene	*97 %*		*Surr Limits: (78-122%)*				*03/31/10 14:52*	*TRB*	*10C2384*	*624*
Toluene-d8	*96 %*		*Surr Limits: (87-110%)*				*03/31/10 14:52*	*TRB*	*10C2384*	*624*
Total Metals by EPA 200 Series Methods										
Barium	ND		2000	NR	ug/L	1.00	03/31/10 18:22	DAN	10C2264	200.7
Chromium	ND		100	NR	ug/L	1.00	03/31/10 18:22	DAN	10C2264	200.7
Copper	ND		14.7	NR	ug/L	1.00	03/31/10 18:22	DAN	10C2264	200.7
Iron	ND		300	NR	ug/L	1.00	03/31/10 18:22	DAN	10C2264	200.7
Nickel	ND		70.0	NR	ug/L	1.00	03/31/10 18:22	DAN	10C2264	200.7
Zinc	ND		115	NR	ug/L	1.00	03/31/10 18:22	DAN	10C2264	200.7
Selenium	ND		4.6	NR	ug/L	1.00	04/01/10 23:02	amh	10C2405	200.8
Thallium	ND		4.0	NR	ug/L	1.00	04/01/10 23:02	amh	10C2405	200.8
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	03/31/10 09:07	jmm	10C2311	350.1
Biochemical Oxygen Demand	ND		5.0	NR	mg/L	1.00	03/30/10 14:17	JFR	10C2294	5210B
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	03/30/10 11:10	AMP	10C2228	7196A
Chemical Oxygen Demand	ND		40.0	NR	mg/L	1.00	03/30/10 15:55	MDM	10C2282	410.4
pH	**8.06**	HFT	0.100	NR	SU	1.00	03/29/10 21:39	JME	10C2189	9040
Oxygen, Dissolved	**12.6**		7.00	NR	mg/L	1.00	03/29/10 20:20	JME	10C2185	4500-O G
Nitrate	**2.43**		0.050	NR	mg/L as N	1.00	03/30/10 16:44	JFR	10C2328	353.2
Nitrite	ND		0.050	NR	mg/L as N	1.00	03/30/10 19:58	JFR	10C2331	353.2
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	04/07/10 11:36	JMM	10D0314	420.4
Total Dissolved Solids	**574**	B	4.0	NR	mg/L	1.00	04/01/10 10:56	KLD	10D0028	2540C
Total Suspended Solids	ND		10.0	NR	mg/L	1.00	03/30/10 12:30	RJP	10C2305	2540D
Total Kjeldahl Nitrogen	ND		1.00	NR	mg/L as N	1.00	04/06/10 13:16	KLD	10D0274	351.2

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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	10D0028	RTC1461-01	100.00	mL	100.00	mL	04/01/10 10:56	AMP	No prep solids
2540D	10C2305	RTC1461-01	250.00	mL	250.00	mL	03/30/10 12:30	RJP	No prep solids
350.1	10C2311	RTC1461-01	5.00	mL	5.00	mL	03/30/10 18:17	JMM	No prep Ammonia
351.2	10D0274	RTC1461-01	25.00	mL	25.00	mL	04/05/10 10:38	JMM	TKN Digestion
353.2	10C2328	RTC1461-01	5.00	mL	5.00	mL	03/30/10 16:24	JFR	Nitrate
353.2	10C2331	RTC1461-01	5.00	mL	5.00	mL	03/30/10 19:43	JFR	Nitrite
410.4	10C2282	RTC1461-01	2.00	mL	2.00	mL	03/30/10 15:55	MDM	Chemical Oxygen Demand
420.4	10D0314	RTC1461-01	50.00	mL	50.00	mL	04/05/10 18:45	JFR	TRP Distillation
4500-O G	10C2185	RTC1461-01	1.00	mL	1.00	mL	03/29/10 20:20	JME	No prep Biochemical Oxygen Demand
5210B	10C2294	RTC1461-01	300.00	mL	300.00	mL	03/30/10 14:17	AMP	No prep Biochemical Oxygen Demand
7196A	10C2228	RTC1461-01	25.00	mL	25.00	mL	03/30/10 11:10	AMP	Hex Digestion
9040	10C2189	RTC1461-01	50.00	mL	50.00	mL	03/29/10 21:39	JME	No prep pH
Total Metals by EPA 200 Series Methods									
200.7	10C2264	RTC1461-01	50.00	mL	50.00	mL	03/31/10 09:20	KCW	3005A
200.8	10C2405	RTC1461-01	50.00	mL	50.00	mL	04/01/10 09:30	KCW	3020A
Volatile Organic Compounds									
624	10C2384	RTC1461-01	5.00	mL	5.00	mL	03/31/10 10:47	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: 03/31/10 (Lab Number:10C2384-BLK1, Batch: 10C2384)											
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*		*98*	*88-132*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*97*	*78-122*			
Surrogate: Toluene-d8					*ug/L*		*95*	*87-110*			
LCS Analyzed: 03/31/10 (Lab Number:10C2384-BS1, Batch: 10C2384)											
1,1-Dichloroethane		20.0	5.0	0.59	ug/L	18.6	93	73-128			
Trichloroethene		20.0	5.0	0.60	ug/L	18.8	94	67-134			
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*97*	*88-132*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*100*	*78-122*			
Surrogate: Toluene-d8					*ug/L*		*96*	*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: 03/31/10 (Lab Number:10C2264-BLK1, Batch: 10C2264)											
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: 03/31/10 (Lab Number:10C2264-BS1, Batch: 10C2264)											
Barium		200	2.00	NR	ug/L	206	103	85-115			
Chromium		200	4.00	NR	ug/L	207	104	85-115			
Copper		200	10.0	NR	ug/L	200	100	85-115			
Iron		10000	50.0	NR	ug/L	10100	101	85-115			
Nickel		200	10.0	NR	ug/L	202	101	85-115			
Zinc		200	10.0	NR	ug/L	205	102	85-115			
Total Metals by EPA 200 Series Methods											
Blank Analyzed: 04/01/10 (Lab Number:10C2405-BLK1, Batch: 10C2405)											
Selenium			4.6	NR	ug/L	ND					
Thallium			4.0	NR	ug/L	ND					
LCS Analyzed: 04/01/10 (Lab Number:10C2405-BS1, Batch: 10C2405)											
Selenium		20.0	5.0	NR	ug/L	19.2	96	85-115			
Thallium		20.0	4.0	NR	ug/L	19.8	99	85-115			

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
LCS Analyzed: 03/29/10 (Lab Number:10C2189-BS1, Batch: 10C2189)											
pH		7.00	NA	NR	SU	7.00	100	99.3-100.8			
Duplicate Analyzed: 03/29/10 (Lab Number:10C2189-DUP1, Batch: 10C2189)											
QC Source Sample: RTC1461-01											
pH	8.06		NA	NR	SU	8.07			0.1		
General Chemistry Parameters											
Blank Analyzed: 03/30/10 (Lab Number:10C2228-BLK1, Batch: 10C2228)											
Chromium, Hexavalent			11.0	NR	ug/L	ND					
LCS Analyzed: 03/30/10 (Lab Number:10C2228-BS1, Batch: 10C2228)											
Chromium, Hexavalent		50.0	10.0	NR	ug/L	47.6	95	85-115			
Duplicate Analyzed: 03/30/10 (Lab Number:10C2228-DUP1, Batch: 10C2228)											
QC Source Sample: RTC1461-01											
Chromium, Hexavalent	7.00		10.0	NR	ug/L	7.90			12	20	
Matrix Spike Analyzed: 03/30/10 (Lab Number:10C2228-MS1, Batch: 10C2228)											
QC Source Sample: RTC1461-01											
Chromium, Hexavalent	7.00	50.0	10.0	NR	ug/L	15.8	18	75-120			M8
General Chemistry Parameters											
Blank Analyzed: 03/30/10 (Lab Number:10C2282-BLK1, Batch: 10C2282)											
Chemical Oxygen Demand			40.0	NR	mg/L	ND					
LCS Analyzed: 03/30/10 (Lab Number:10C2282-BS1, Batch: 10C2282)											
Chemical Oxygen Demand		25.0	10.0	NR	mg/L	26.4	106	90-110			
General Chemistry Parameters											
Blank Analyzed: 03/30/10 (Lab Number:10C2294-BLK1, Batch: 10C2294)											
Biochemical Oxygen Demand			5.0	NR	mg/L	ND					
LCS Analyzed: 03/30/10 (Lab Number:10C2294-BS1, Batch: 10C2294)											
Biochemical Oxygen Demand		198	2.0	NR	mg/L	219	110	85-115			
General Chemistry Parameters											

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Blank Analyzed: 03/30/10 (Lab Number:10C2305-BLK1, Batch: 10C2305)											
Total Suspended Solids			10.0	NR	mg/L	ND					
LCS Analyzed: 03/30/10 (Lab Number:10C2305-BS1, Batch: 10C2305)											
Total Suspended Solids		843	4.0	NR	mg/L	810	96	88-110			
General Chemistry Parameters											
Blank Analyzed: 03/31/10 (Lab Number:10C2311-BLK1, Batch: 10C2311)											
Ammonia as N			9.20	NR	mg/L as N	ND					
LCS Analyzed: 03/31/10 (Lab Number:10C2311-BS1, Batch: 10C2311)											
Ammonia as N		0.750	0.020	NR	mg/L as N	0.789	105	90-110			
General Chemistry Parameters											
Blank Analyzed: 03/30/10 (Lab Number:10C2328-BLK1, Batch: 10C2328)											
Nitrate			0.050	NR	mg/L as N	ND					
LCS Analyzed: 03/30/10 (Lab Number:10C2328-BS1, Batch: 10C2328)											
Nitrate		1.50	0.050	NR	mg/L as N	1.62	108	90-110			
General Chemistry Parameters											
Blank Analyzed: 03/30/10 (Lab Number:10C2331-BLK1, Batch: 10C2331)											
Nitrite			0.050	NR	mg/L as N	ND					
LCS Analyzed: 03/30/10 (Lab Number:10C2331-BS1, Batch: 10C2331)											
Nitrite		1.50	0.050	NR	mg/L as N	1.50	100	90-110			
General Chemistry Parameters											
Blank Analyzed: 04/01/10 (Lab Number:10D0028-BLK1, Batch: 10D0028)											
Total Dissolved Solids			4.0	NR	mg/L	7.0					
LCS Analyzed: 04/01/10 (Lab Number:10D0028-BS1, Batch: 10D0028)											
Total Dissolved Solids		500	4.0	NR	mg/L	516	103	85-115			B
General Chemistry Parameters											
Blank Analyzed: 04/06/10 (Lab Number:10D0274-BLK1, Batch: 10D0274)											
Total Kjeldahl Nitrogen			1.00	NR	mg/L as N	ND					
LCS Analyzed: 04/06/10 (Lab Number:10D0274-BS1, Batch: 10D0274)											

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
LCS Analyzed: 04/06/10 (Lab Number:10D0274-BS1, Batch: 10D0274)											
Total Kjeldahl Nitrogen		2.50	0.20	NR	mg/L as N	2.37	95	90-110			
General Chemistry Parameters											
Blank Analyzed: 04/07/10 (Lab Number:10D0314-BLK1, Batch: 10D0314)											
Phenolics, Total Recoverable			8.00	NR	ug/L	ND					
LCS Analyzed: 04/07/10 (Lab Number:10D0314-BS1, Batch: 10D0314)											
Phenolics, Total Recoverable		655	40.0	NR	ug/L	708	108	75-125			D08

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: STEVE BAZILUS	Lab PM: Jason Kacalski	Carrier Tracking No(s):	COC No: 03242010 15:26_1
Client Contact: Charles E McLeod, Jr.	Phone: 908-358-9768	E-Mail: jason.kacalski@testamericainc.com		Page: 1
Company: Greenstar Environmental Solutions, LLC				Job #:
Address: 6 Gallatly 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 #: RTC1298			
Project Name: Quarterly Discharge Monitoring - NY5A9582AE04819	Project #: Quarterly Discharge Monitoring			
Site: Airco - Niagara Falls - NY5A9582	SSOW#:			

Parameter(s) Requested

Preservation Codes:
A=HCL Z=Z
B=NaOH
C=Zn Acetate
D=Nitric Acid
I=Ice
N=None
S=H2SO4
V=MCAA
Container Codes:
A=Amber V=Vial
G=Glass
P=Poly/Plastic
T=Tedlar

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)	BOD	HexCr::LPH::Nitrate::Nitrite	Tphenols	Ammonia::COD::TKN	T-Metals	DO	TDS	TSS	624 VOAS					Total Number of containers	Special Instructions/Note:
			Preserv-Cont Code:				I-P	I-P	S-G	S-P	D-P	I-P	I-P	I-P	A-V						
AP-EWE-01	03/24/10	1520	G	W			1	2	1	1	1	1	1	1	3					12	

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: S Bazilus (GES)	Date/Time: 03/24/10 1600	Company	Received by: Andrea Ingrando	Date/Time: 3-29-10 1600	Company
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: 6.0°C

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Analytical Report

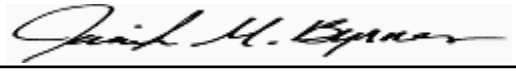
Work Order: RTE0698

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

Wednesday, May 19, 2010

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

Work Order: RTE0698

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 05/12/10
Reported: 05/19/10 09:54

TestAmerica Buffalo
Current Certifications

As of 04/16/2010

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,CLP	10026
North Dakota	CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
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.

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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.

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
420.4	Phenolics, Total Recoverable	ug/L	8.0	10.0

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DATA QUALIFIERS AND DEFINITIONS

HFT The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.

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
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Work Order: RTE0698

Project: Quarterly Discharge Monitoring
Project Number: GES

Received: 05/12/10
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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: RTE0698-01 (AP-EWE-01 - Water)						**Sampled: 05/12/10 16:00**		**Recvd: 05/12/10 17:50**		
Total Metals by EPA 200 Series Methods										
Selenium	**5.4**		4.6	NR	ug/L	1.00	05/14/10 13:27	AMH	10E0937	200.8
General Chemistry Parameters										
pH	**7.67**	HFT	0.100	NR	SU	1.00	05/12/10 23:52	JFR	10E0928	9040
Oxygen, Dissolved	**8.92**	HFT	7.00	NR	mg/L	1.00	05/13/10 03:12	MDM	10E0930	4500-O G
Nitrate	**2.77**		0.050	NR	mg/L as N	1.00	05/13/10 10:59	JME	10E1006	353.2
Total Dissolved Solids	**542**		4.0	NR	mg/L	1.00	05/14/10 15:45	JLN	10E1075	2540C

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Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
AP-EWE-01	RTE0698-01	Water	05/12/10 16:00	05/12/10 17:50	
TRIP BLANK	RTE0698-02	Water	05/12/10	05/12/10 17:50	

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE0698-01 (AP-EWE-01 - Water)						**Sampled: 05/12/10 16:00**		**Recvd: 05/12/10 17:50**		
Volatile Organic Compounds										
1,1-Dichloroethane	ND		5.0	0.59	ug/L	1.00	05/13/10 09:17	TRB	10E0852	624
Trichloroethene	ND		5.0	0.60	ug/L	1.00	05/13/10 09:17	TRB	10E0852	624
1,2-Dichloroethane-d4	*103 %*		*Surr Limits: (88-132%)*				*05/13/10 09:17*	*TRB*	*10E0852*	*624*
4-Bromofluorobenzene	*99 %*		*Surr Limits: (78-122%)*				*05/13/10 09:17*	*TRB*	*10E0852*	*624*
Toluene-d8	*93 %*		*Surr Limits: (87-110%)*				*05/13/10 09:17*	*TRB*	*10E0852*	*624*
Total Metals by EPA 200 Series Methods										
Barium	ND		2000	NR	ug/L	1.00	05/14/10 15:14	DAN	10E0935	200.7
Chromium	ND		100	NR	ug/L	1.00	05/14/10 15:14	DAN	10E0935	200.7
Copper	ND		14.7	NR	ug/L	1.00	05/14/10 15:14	DAN	10E0935	200.7
Iron	ND		300	NR	ug/L	1.00	05/14/10 15:14	DAN	10E0935	200.7
Nickel	ND		70.0	NR	ug/L	1.00	05/14/10 15:14	DAN	10E0935	200.7
Zinc	ND		115	NR	ug/L	1.00	05/14/10 15:14	DAN	10E0935	200.7
Selenium	**5.4**		4.6	NR	ug/L	1.00	05/14/10 13:27	AMH	10E0937	200.8
Thallium	ND		4.0	NR	ug/L	1.00	05/14/10 13:27	AMH	10E0937	200.8
General Chemistry Parameters										
Ammonia as N	ND		9.20	NR	mg/L as N	1.00	05/13/10 10:01	jmm	10E0945	350.1
Biochemical Oxygen Demand	ND		5.0	NR	mg/L	1.00	05/13/10 20:34	KLD	10E1061	5210B
Chromium, Hexavalent	ND		11.0	NR	ug/L	1.00	05/12/10 23:26	JFR	10E0926	7196A
Chemical Oxygen Demand	ND		40.0	NR	mg/L	1.00	05/17/10 21:35	MDM	10E1329	410.4
pH	**7.67**	HFT	0.100	NR	SU	1.00	05/12/10 23:52	JFR	10E0928	9040
Oxygen, Dissolved	**8.92**	HFT	7.00	NR	mg/L	1.00	05/13/10 03:12	MDM	10E0930	4500-O G
Nitrate	**2.77**		0.050	NR	mg/L as N	1.00	05/13/10 10:59	JME	10E1006	353.2
Nitrite	ND		0.050	NR	mg/L as N	1.00	05/13/10 14:19	JME	10E1007	353.2
Phenolics, Total Recoverable	ND		8.0	NR	ug/L	1.00	05/17/10 00:50	JFR	10E1049	420.4
Total Dissolved Solids	**542**		4.0	NR	mg/L	1.00	05/14/10 15:45	JLN	10E1075	2540C
Total Suspended Solids	ND		10.0	NR	mg/L	1.00	05/17/10 11:55	JLN	10E0953	2540D
Total Kjeldahl Nitrogen	ND		1.00	NR	mg/L as N	1.00	05/14/10 14:53	JME	10E1027	351.2

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE0698-02 (TRIP BLANK - Water)						**Sampled: 05/12/10**		**Recvd: 05/12/10 17:50**		
Volatile Organic Compounds										
1,1-Dichloroethane	ND		5.0	0.59	ug/L	1.00	05/13/10 09:43	TRB	10E0852	624
Trichloroethene	ND		5.0	0.60	ug/L	1.00	05/13/10 09:43	TRB	10E0852	624
1,2-Dichloroethane-d4	*109 %*		*Surr Limits: (88-132%)*				*05/13/10 09:43*	*TRB*	*10E0852*	*624*
4-Bromofluorobenzene	*100 %*		*Surr Limits: (78-122%)*				*05/13/10 09:43*	*TRB*	*10E0852*	*624*
Toluene-d8	*92 %*		*Surr Limits: (87-110%)*				*05/13/10 09:43*	*TRB*	*10E0852*	*624*

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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	10E1075	RTE0698-01	100.00	mL	100.00	mL	05/14/10 15:45	JLN	No prep solids
2540D	10E0953	RTE0698-01	250.00	mL	250.00	mL	05/17/10 11:55	JLN	No prep solids
350.1	10E0945	RTE0698-01	5.00	mL	5.00	mL	05/13/10 08:41	JMM	No prep Ammonia
351.2	10E1027	RTE0698-01	25.00	mL	25.00	mL	05/13/10 12:15	JME	TKN Digestion
353.2	10E1006	RTE0698-01	5.00	mL	5.00	mL	05/13/10 10:37	JME	No prep Nitrate
353.2	10E1007	RTE0698-01	5.00	mL	5.00	mL	05/13/10 14:14	JME	No prep Nitrite
410.4	10E1329	RTE0698-01	2.00	mL	2.00	mL	05/17/10 21:35	MDM	Chemical Oxygen Demand
420.4	10E1049	RTE0698-01	50.00	mL	50.00	mL	05/13/10 20:59	RMB	TRP Distillation
4500-O G	10E0930	RTE0698-01	300.00	mL	300.00	mL	05/13/10 02:53	MDM	Direct
5210B	10E1061	RTE0698-01	300.00	mL	300.00	mL	05/13/10 20:34	MDM	Biochemical Oxygen Demand
7196A	10E0926	RTE0698-01	25.00	mL	25.00	mL	05/12/10 22:30	JFR	Hex Digestion
9040	10E0928	RTE0698-01	1.00	mL	1.00	mL	05/12/10 23:52	JFR	pH
Total Metals by EPA 200 Series Methods									
200.7	10E0935	RTE0698-01	50.00	mL	50.00	mL	05/13/10 08:40	JRK	3005A
200.8	10E0937	RTE0698-01	50.00	mL	50.00	mL	05/13/10 09:00	JRK	3020A
Volatile Organic Compounds									
624	10E0852	RTE0698-01	5.00	mL	5.00	mL	05/13/10 07:30	TRB	5030B MS
624	10E0852	RTE0698-02	5.00	mL	5.00	mL	05/13/10 07:30	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: 05/12/10 (Lab Number:10E0852-BLK1, Batch: 10E0852)											
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*		*104*	*88-132*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*95*	*78-122*			
Surrogate: Toluene-d8					*ug/L*		*98*	*87-110*			
LCS Analyzed: 05/12/10 (Lab Number:10E0852-BS1, Batch: 10E0852)											
1,1-Dichloroethane		20.0	5.0	0.59	ug/L	20.2	101	73-128			
Trichloroethene		20.0	5.0	0.60	ug/L	19.8	99	67-134			
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*101*	*88-132*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*98*	*78-122*			
Surrogate: Toluene-d8					*ug/L*		*99*	*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: 05/14/10 (Lab Number:10E0935-BLK1, Batch: 10E0935)											
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: 05/14/10 (Lab Number:10E0935-BS1, Batch: 10E0935)											
Barium		200	2000	NR	ug/L	193	97	85-115			
Chromium		200	100	NR	ug/L	204	102	85-115			
Copper		200	14.7	NR	ug/L	193	97	85-115			
Iron		10000	300	NR	ug/L	9830	98	85-115			
Nickel		200	70.0	NR	ug/L	199	100	85-115			
Zinc		200	115	NR	ug/L	202	101	85-115			
Total Metals by EPA 200 Series Methods											
Blank Analyzed: 05/14/10 (Lab Number:10E0937-BLK1, Batch: 10E0937)											
Selenium			4.6	NR	ug/L	ND					
Thallium			4.0	NR	ug/L	ND					
LCS Analyzed: 05/14/10 (Lab Number:10E0937-BS1, Batch: 10E0937)											
Selenium		20.0	4.6	NR	ug/L	20.2	101	85-115			
Thallium		20.0	4.0	NR	ug/L	22.0	110	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: 05/12/10 (Lab Number:10E0926-BLK1, Batch: 10E0926)											
Chromium, Hexavalent			11.0	NR	ug/L	ND					
LCS Analyzed: 05/12/10 (Lab Number:10E0926-BS1, Batch: 10E0926)											
Chromium, Hexavalent		50.0	10.0	NR	ug/L	50.3	101	85-115			
Duplicate Analyzed: 05/12/10 (Lab Number:10E0926-DUP1, Batch: 10E0926)											
QC Source Sample: RTE0698-01											
Chromium, Hexavalent	ND		10.0	NR	ug/L	ND				20	
Matrix Spike Analyzed: 05/12/10 (Lab Number:10E0926-MS1, Batch: 10E0926)											
QC Source Sample: RTE0698-01											
Chromium, Hexavalent	ND	50.0	10.0	NR	ug/L	55.2	110	75-120			
General Chemistry Parameters											
LCS Analyzed: 05/12/10 (Lab Number:10E0928-BS1, Batch: 10E0928)											
pH		7.00	NA	NR	SU	7.00	100	99.3-100.8			
General Chemistry Parameters											
Blank Analyzed: 05/13/10 (Lab Number:10E0945-BLK1, Batch: 10E0945)											
Ammonia as N			9.20	NR	mg/L as N	ND					
LCS Analyzed: 05/13/10 (Lab Number:10E0945-BS1, Batch: 10E0945)											
Ammonia as N		0.750	9.20	NR	mg/L as N	0.729	97	90-110			
General Chemistry Parameters											
Blank Analyzed: 05/17/10 (Lab Number:10E0953-BLK1, Batch: 10E0953)											
Total Suspended Solids			10.0	NR	mg/L	ND					
LCS Analyzed: 05/17/10 (Lab Number:10E0953-BS1, Batch: 10E0953)											
Total Suspended Solids		595	4.0	NR	mg/L	579	97	88-110			
General Chemistry Parameters											
Blank Analyzed: 05/13/10 (Lab Number:10E1006-BLK1, Batch: 10E1006)											
Nitrate			0.050	NR	mg/L as N	ND					
LCS Analyzed: 05/13/10 (Lab Number:10E1006-BS1, Batch: 10E1006)											
Nitrate		1.50	0.050	NR	mg/L as N	1.58	106	90-110			
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: 05/13/10 (Lab Number:10E1007-BLK1, Batch: 10E1007)											
Nitrite			0.050	NR	mg/L as N	ND					
LCS Analyzed: 05/13/10 (Lab Number:10E1007-BS1, Batch: 10E1007)											
Nitrite		1.50	0.050	NR	mg/L as N	1.45	96	90-110			
General Chemistry Parameters											
Blank Analyzed: 05/14/10 (Lab Number:10E1027-BLK1, Batch: 10E1027)											
Total Kjeldahl Nitrogen			1.00	NR	mg/L as N	ND					
LCS Analyzed: 05/14/10 (Lab Number:10E1027-BS1, Batch: 10E1027)											
Total Kjeldahl Nitrogen		2.50	0.20	NR	mg/L as N	2.26	91	90-110			
General Chemistry Parameters											
Blank Analyzed: 05/17/10 (Lab Number:10E1049-BLK1, Batch: 10E1049)											
Phenolics, Total Recoverable			8.00	NR	ug/L	ND					
LCS Analyzed: 05/17/10 (Lab Number:10E1049-BS1, Batch: 10E1049)											
Phenolics, Total Recoverable			8.00	NR	ug/L	101		75-125			
General Chemistry Parameters											
Blank Analyzed: 05/13/10 (Lab Number:10E1061-BLK1, Batch: 10E1061)											
Biochemical Oxygen Demand			5.0	NR	mg/L	ND					
LCS Analyzed: 05/13/10 (Lab Number:10E1061-BS1, Batch: 10E1061)											
Biochemical Oxygen Demand		198	2.0	NR	mg/L	220	111	85-115			
General Chemistry Parameters											
Blank Analyzed: 05/14/10 (Lab Number:10E1075-BLK1, Batch: 10E1075)											
Total Dissolved Solids			4.0	NR	mg/L	ND					
LCS Analyzed: 05/14/10 (Lab Number:10E1075-BS1, Batch: 10E1075)											
Total Dissolved Solids		500	4.0	NR	mg/L	500	100	85-115			
General Chemistry Parameters											
Blank Analyzed: 05/17/10 (Lab Number:10E1329-BLK1, Batch: 10E1329)											

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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: 05/17/10 (Lab Number:10E1329-BLK1, Batch: 10E1329)											
Chemical Oxygen Demand			40.0	NR	mg/L	ND					
LCS Analyzed: 05/17/10 (Lab Number:10E1329-BS1, Batch: 10E1329)											
Chemical Oxygen Demand		75.0	10.0	NR	mg/L	75.2	100	90-110			

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Greenster Environmental Solutions
Project Manager: Peggy - Grey-Erdmann
Date: 5/12/10
Chain of Custody Number: 139974
Page 1 of 1

Address: 6 Gellatly Drive
City: Wappingers Falls
State: NY
Zip Code: 12590
Site Contact:
Lab Contact:
Analysis (Attach list if more space is needed)

Project Name and Location (State): Airco - Niagara Falls NY - NYSA9582
Carrier/Waybill Number:
Contract/Purchase Order/Quote No.: Quarterly Discharge mon. NYSA9582AE09819

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.	Solid	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	BOD	Hexane Nitrate nitrite LPH	Phenols	Ammonia, COD, TKN	T-metals	DO	TDS	TSS	624 VOAs
AP-EWE-01	5/12	16:00		14			6	2	1	3			1	4	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)

6 of 6

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			1. Received By		
2. Relinquished By	5-12-10	1750	2. Received By	5-12-10	1750
3. Relinquished By			3. Received By		

Comments

2.7 oc

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

Attachment G

Monthly Operation and Maintenance Details
January – June 2010

1. INTRODUCTION

This report presents a summary of the ongoing operation and maintenance activities for the Airco Parcel, Niagara Falls, New York, site from 1 January to 30 June 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 2009 Bi-Annual report. The increase was requested from 21,600 gallons per day (gpd) discharge limit 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 exceeded 36,000 gpd six times in January, once in March, and three times in April. During this report period, the overall system average flow rate was 21.3 gallons per minute (gpm).

Table 2 of the first 2010 Bi-Annual Monitoring Event Letter Report provides a summary of the quarterly effluent analytical data from the March and May 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, 5,550,712 gal of groundwater were treated and discharged to the stormwater swale adjacent to the engineered wetlands. The system average flow rate was 21.3 gpm during the reporting period, with one instance observed due to heavy rain (January 24 – 31 2010). The treatment system was operational for 100 percent of the reporting period. The emergency overflow pond (T8) was not utilized 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 4.0 pounds (lb) of total chromium was treated by the GCTS, of which an estimated 4.0 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

January 2010

The system was operational for all 31 days in January. An alarm condition was reported once during January. The alarm condition was due to high water levels in T-1. No scheduled or unscheduled shut downs or system bypasses occurred. The following details the activities which were performed during January:

- 7 January 2010 – Routine site visit. Cleaned and calibrated pH probes in T3B and T6B. Repaired phone line to CO_2 remote telemetry unit. Repaired faulty Ethernet connection in the main control panel.
- 24 January 2010 – Remote monitoring response to T-1 high level alarm caused by excessive rain and snow melt. Mobilized to the site to address alarm conditions. Water level rose above the drywell lid and flooded the vault. The drywell was pumped down, the knife gate valves were manually operated to limit the influent flow rate to 20 gpm average. Performed routine site visit during the same mobilization.

February 2010

The system was operational for all 28 days in February. No alarm condition was reported during the month of February. No scheduled or unscheduled shut downs or system bypasses occurred. The following details the activities which were performed during February:

- 9 February 2010 – Routine site visit. Clean and calibrate pH probes. Removed pinch valve actuator. The actuator was damaged during the January flooding. It was removed and returned to the manufacturer for repair. The manufacturer reported that the actuator could be repaired, but it was cheaper to purchase a new actuator. Installed skirting to bottom of T-1 shed to reduce rodent infiltration below the shed.
- 22 February 2010 – Routine site visit. Clean and calibrate pH probes. Generator was serviced by Penn Power Systems. Site visit by Michael Hinton of the NYSDEC.

March 2010

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

- 6 March 2010 – Routine site visit. Clean and calibrate pH probes. Replaced pump in T6B. Pump removed was brought to the pump repair shop to have a new impeller installed.
- 20 March 2010 – Routine site visit. Replaced pH probes in T3B and T6B and dewinterized the system. Clean and calibrate pH probes. Collected quarterly effluent sample. Performed engineers' inspection which identified the following concerns:
    - Areas around T-7 settlement pond were disturbed during cleaning operations. Recommend topdressing these areas with loam and re-seeding to eliminate any chance of ponding or erosion.
    - During a heavy rain/thaw event in January, runoff water was slowed by the stone road over the drainage swale in the SW corner and flooded the T-1 drywell damaging the actuator. Recommend installing two 8"x 20' pipes under the road to avoid this issue in the future.
- 29 March 2010 – Collected quarterly GWETS effluent sample.

April 2010

The system was operational for 30 days in April. Alarm conditions were reported once during April. The alarm condition was due to UPS failure. The system had no scheduled and no unscheduled shut downs. The following details the activities which were performed during April:

- 12 April 2009 – Emergency response to respond to a loss of communication with the remote PC. It was determined that the UPS failed causing the computer to go offline. The PLC was online, and the system was operational during the loss of communication. Performed routine site visit at the same time. Clean and calibrate pH probes.
- 12 April 2009 – Mobilized to the site to complete the first 2010 bi-annual sampling event.
- 24 April 2010 – Routine site visit. Clean and calibrate pH probes. It was noticed that the flow from T6B was lower than normal. The pump was replaced, but the flow did not increase. National Vacuum was mobilized to the site to jet the line. The flow increased to normal once the line was jetted.

May 2010

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

- 10 May 2010 – Routine site visit. Mowed the grass around T7. Installed new actuator in T-1 drywell. Installed a new sump pump in the T-1 drywell to prevent future flooding and actuator damage. Moved T-8 air compressor to T-1 to replace faulty air compressor. Purchased and installed new air compressor in T-8. Clean and calibrate pH probes. Penn Power systems onsite to repair belts and diaphragm in fuel supply system.
- 12 May 2010 – Site visit by Chip McLeod (Greenstar) and Brian Thiesse (Linde). Gave tour of the site for Brian Thiesse. Performed quarterly GWETS effluent sampling.
- 22 May 2010 – Routine site visit. Mowed the grass around T7. Clean and calibrate pH probes. Performed engineers' inspection which identified the following concerns:

    - Areas of disturbance around T-7 still require repair. Southern slopes of T-7 are about 1.5' lower than the slopes on the North, recommend adding fill and topsoil to avoid a potential breach should outlet become obstructed.
    - Damage to fence at well #1 is primarily cosmetic and does not affect the integrity of the fence. Expensive repairs not deemed necessary.
    - One of the covers (Tarp) on the T-3 tanks has begun to tear from contact around the tanks opening, tears are small at this time but tarp may need to be repaired or replaced in the future.
    - Although a sump pump has been added to the T-1 drywell, it is still recommended that culvert pipes be added under stone road at the Southern end of swale

June 2010

The system was operational for 30 days in June. Alarm conditions were reported once during June. The alarm condition was due to high level in T-7 due to an outlet pipe blockage. No scheduled or unscheduled shut downs or system bypasses occurred. The following details the activities which were performed during June:

- 1 June 2010 – Routine site visit. Mowed grass around T-7. Clean and calibrate pH probes.
- 5 June 2010 – Remote response to high level in T-7. Water level visually observed to be above normal operating conditions. Mobilized local resources to remove vegetation from outlet pipe.
- 23 June 2010 – Routine site visit. Replaced pressure transmitter in T-7 which was damaged due to rodents. Clean and calibrate pH probes.

4. MODIFICATIONS/IMPROVEMENTS AND RECOMMENDATIONS

4.1 SYSTEM MODIFICATION/IMPROVEMENTS

No system modifications to the GCTS were performed during the report period.

5. PROJECTED OPERATION AND MAINTENACE

5.1 JULY – DECEMBER 2010

During the second bi-annual report period of 2010, 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 a bi-monthly 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 August and December 2010 from the GCTS to monitor the New York State Department of Environmental Conservation discharge permit guidelines. The second bi-annual groundwater monitoring event for 2010 is anticipated to occur in December 2010.

Attachment G.1

Airco Parcel Bi-Weekly System Monitoring Checklists January – June 2010

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

Date: 1/7/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Snow 26 Degrees		
READING		*ITEM*
236		Carbon Dioxide Storage Tank Pressure (220-235 psi)
1,1080		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
6.2		T3B pH Reading
613.2		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
611.0		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.2		T6A Water Elevation
6.2		T6B pH
612.7		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.8		T7 Water Level Reading
6.3		T7 pH
3.3		T8 Water Elevation
22,346,944		Flow Meter Reading
10.6		Average System Flow
24.1		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.127	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.075	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.000	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.020	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.007	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*
6.20		Calcium Settling Pond Effluent (T3)
6.28		Iron Settling Pond Effluent (T6)
6.56		Engineered Wetland Effluent (T7)
N/A		Southwest Corner Effluent (SS-1)
Notes: Calibrate Ph probes/ Repair phone line to Co2 Data Link/Repair Ethernet cable in main panel/T-1 inaccessible. Unable to obtain a sample in the Southwest corner due to ice.		

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

Date: 1/24/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: 40 degrees rain		

READING	*ITEM*
230	Carbon Dioxide Storage Tank Pressure (220-235 psi)
10,372	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
6.14	T3B pH Reading
614.4	T3B Water Level
AUTO/CYCLING	Pump 3B Operational Status ON/OFF
612.1	T5 Water Level
AUTO/CYCLING	Pump 5 Operational Status ON/OFF
616.2	T6A Water Elevation
6.29	T6B pH
612.6	T6B Water Level
AUTO/CYCLING	Pump 6B Operational Status ON/OFF
615.8	T7 Water Level Reading
6.4	T7 pH
3.3	T8 Water Elevation
22,792,496	Flow Meter Reading
10.1	Average System Flow
24.4	Generator Run Hours

READING	*Standard*	*LOCATION/PARAMETER*
0.008	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.082	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
-0.004	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.027	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.003	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.023	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*
6.20	Calcium Settling Pond Effluent (T3)
6.34	Iron Settling Pond Effluent (T6)
6.56	Engineered Wetland Effluent (T7)
N/A	Southwest Corner Effluent (SS-1)

Notes: Replaced batteries in auto dialer/clean & calibrate all pH probes/clean cross-over pipes in T3-A/ Test all high level alarms. Unable to obtain a sample in the Southwest corner due to ice.

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

Date: 2/9/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Overcast 23 degrees		
READING		*ITEM*
233		Carbon Dioxide Storage Tank Pressure (220-235 psi)
8,705		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
6.2		T3B pH Reading
613		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
612.2		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.2		T6A Water Elevation
6.4		T6B pH
612.7		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.9		T7 Water Level Reading
6.5		T7 pH
3.5		T8 Water Elevation
23,307,862		Flow Meter Reading
12.1		Average System Flow
24.8		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.153	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.142	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.004	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.050	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.004	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.030	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
Unavailable/Ice	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
Unavailable/Ice	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.30		Calcium Settling Pond Effluent (T3)
6.45		Iron Settling Pond Effluent (T6)
6.61		Engineered Wetland Effluent (T7)
N/A		Southwest Corner Effluent (SS-1)
Notes: Remove actuator on T-1 pinch valve for repair. Add 2x4's around base of T-1 shed to keep out rodents. Clean & calibrate pH probes. Unable to obtain a sample in the Southwest corner due to ice.		

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

Date: 2/22/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Overcast 31 degrees		
READING		*ITEM*
233		Carbon Dioxide Storage Tank Pressure (220-235 psi)
7,038		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
6.1		T3B pH Reading
614.4		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
612.6		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.2		T6B pH
613.7		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.9		T7 Water Level Reading
6.5		T7 pH
3.6		T8 Water Elevation
23,716,826		Flow Meter Reading
11.2		Average System Flow
25.5		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.039	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.161	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.010	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.052	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
ND	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.042	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*
6.43		Calcium Settling Pond Effluent (T3)
6.41		Iron Settling Pond Effluent (T6)
6.80		Engineered Wetland Effluent (T7)
N/A		Southwest Corner Effluent (SS-1)
Notes: Calibrate all pH probes. Generator serviced. Mike Hinton from the NYSDEC on site. Unable to obtain a sample in the Southwest corner due to ice.		

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

Date: 3/6/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather:		
READING		*ITEM*
234		Carbon Dioxide Storage Tank Pressure (220-235 psi)
6,329		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
616.2		T3A Water Elevation
6.1		T3B pH Reading
614.4		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
6.3		T6B pH
613.3		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.9		T7 Water Level Reading
6.8		T7 pH
3.5		T8 Water Elevation
24,070,198		Flow Meter Reading
12.3		Average System Flow
25.8		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.151	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.088	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
ND	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.054	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
ND	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.027	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.010	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.020	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.44		Calcium Settling Pond Effluent (T3)
6.61		Iron Settling Pond Effluent (T6)
6.85		Engineered Wetland Effluent (T7)
7.1		Southwest Corner Effluent (SS-1)
Notes: Checked batteries in solar panel. Voltage was 14.3 Volts. Replaced P6-B. Calibrated all pH probes.		

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

Date: 3/20/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Overcast 45 Degrees		
READING		*ITEM*
232		Carbon Dioxide Storage Tank Pressure (220-235 psi)
6,005		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
614.2		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
6.2		T6B pH
614.0		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
615.9		T7 Water Level Reading
7.1		T7 pH
1.5		T8 Water Elevation
24,521,558		Flow Meter Reading
12.2		Average System Flow
26.2		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.154	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.094	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.014	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.078	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
ND	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.027	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.006	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.013	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.61		Calcium Settling Pond Effluent (T3)
6.50		Iron Settling Pond Effluent (T6)
7.18		Engineered Wetland Effluent (T7)
7.70		Southwest Corner Effluent (SS-1)
Notes: Checked batteries in solar panel. Voltage was 14.5 volts. Turned off heat lamps. Replace pH probes in T3&T6. Performed engineer's inspection.		

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

Date: 4/12/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Sun 50 Degrees		
READING		*ITEM*
231		Carbon Dioxide Storage Tank Pressure (220-235 psi)
7,451		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
6.5		T3B pH Reading
614.2		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
611.7		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.1		T6A Water Elevation
6.5		T6B pH
614.1		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.0		T7 Water Level Reading
6.7		T7 pH
2.2		T8 Water Elevation
25,287,208		Flow Meter Reading
11		Average System Flow
26.7		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.092	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.092	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.021	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.020	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.005	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.019	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.009	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.010	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.49		Calcium Settling Pond Effluent (T3)
6.63		Iron Settling Pond Effluent (T6)
6.97		Engineered Wetland Effluent (T7)
7.30		Southwest Corner Effluent (SS-1)

Notes: Emergency response. Found UPS battery backup was off line. Re-booted UPS and rewired components. No system interruption. Clean & calibrated pH probes. Spring house cleaning. Checked batteries in solar panel. Voltage was 14.3 volts.

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

Date: 4/24/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Overcast 50 Degrees		
READING		*ITEM*
229		Carbon Dioxide Storage Tank Pressure (220-235 psi)
9,900		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
616.2		T3A Water Elevation
6.5		T3B pH Reading
613.4		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
612.0		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.2		T6A Water Elevation
6.5		T6B pH
613.5		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.1		T7 Water Level Reading
6.6		T7 pH
2.2		T8 Water Elevation
25,698,844		Flow Meter Reading
14.2		Average System Flow
27.1		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.096	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.047	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.009	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.042	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.004	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*
6.65		Calcium Settling Pond Effluent (T3)
6.54		Iron Settling Pond Effluent (T6)
6.82		Engineered Wetland Effluent (T7)
7.26		Southwest Corner Effluent (SS-1)
Notes: National Vacuum onsite to clean line from P-6 to T-7. Replaced P-6. Removed calcium buildup from T-3 inlet with concrete vibrator.		

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

Date: 5/10/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Sunny 50		
READING		*ITEM*
233		Carbon Dioxide Storage Tank Pressure (220-235 psi)
7,400		Carbon Dioxide Tank Liquid Level
3.0		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
615.9		T3A Water Elevation
6.5		T3B pH Reading
613.3		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
612.3		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.2		T6A Water Elevation
6.5		T6B pH
613.4		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.0		T7 Water Level Reading
6.7		T7 pH
2.4		T8 Water Elevation
26,256,690		Flow Meter Reading
22.9		Average System Flow
27.8		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.031	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.119	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.016	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.030	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.010	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.029	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.006	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.027	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.76		Calcium Settling Pond Effluent (T3)
6.66		Iron Settling Pond Effluent (T6)
7.01		Engineered Wetland Effluent (T7)
7.47		Southwest Corner Effluent (SS-1)
Notes: Calibrate and cleaned all pH probes and sensors. Installed new pinch valve actuator. Installed sump pump in T-1 drywell to prevent flooding. Cut grass around T-7. Replace failed air compressor in T-1 shed.		

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

Date: 5/22/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Showers 65		
READING		*ITEM*
233		Carbon Dioxide Storage Tank Pressure (220-235 psi)
9,150		Carbon Dioxide Tank Liquid Level
2.5		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
615.9		T3A Water Elevation
6.3		T3B pH Reading
614.5		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
613.2		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.1		T7 Water Level Reading
6.7		T7 pH
2.3		T8 Water Elevation
26,616,320		Flow Meter Reading
20.4		Average System Flow
28.2		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.134	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.109	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.003	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.055	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.007	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.040	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.014	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*
6.52		Calcium Settling Pond Effluent (T3)
6.52		Iron Settling Pond Effluent (T6)
6.93		Engineered Wetland Effluent (T7)
7.3		Southwest Corner Effluent (SS-1)
Notes: Cut grass around T-7. Replaced pH probe in T-3B. Cleaned & calibrated all pH probes and transmitters. Cleaned cross-over lines in T-3A. Performed Q2 Engineer's inspection.		

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

Date: 6/1/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Sun 80		
READING		*ITEM*
229		Carbon Dioxide Storage Tank Pressure (220-235 psi)
28K+ Faulty reading		Carbon Dioxide Tank Liquid Level
2.4		T1 Water Level
AUTO/CYCLING		Pump P1A Running Status ON/OFF
AUTO/CYCLING		Pump P1BA Running Status ON/OFF
616.0		T3A Water Elevation
6.2		T3B pH Reading
613.1		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
612.8		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.2		T6A Water Elevation
6.5		T6B pH
613.0		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
616.2		T7 Water Level Reading
6.2		T7 pH
2.4		T8 Water Elevation
26,914,210		Flow Meter Reading
21.9		Average System Flow
		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.129	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.131	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.007	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.046	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
0.021	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.013	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.006	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.031	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.62		Calcium Settling Pond Effluent (T3)
6.74		Iron Settling Pond Effluent (T6)
7.17		Engineered Wetland Effluent (T7)
7.65		Southwest Corner Effluent (SS-1)
Notes: Cut grass around T-7. Cleaned & calibrated all pH probes and level transmitters.		

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

Date: 6/23/10	**Project No.: 1005**	**Greenstar Personnel:** Bruce Vinal
Weather: Scat. Showers 80		
READING		*ITEM*
228		Carbon Dioxide Storage Tank Pressure (220-235 psi)
4,161		Carbon Dioxide Tank Liquid Level
3.3		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
614.2		T3B Water Level
AUTO/CYCLING		Pump 3B Operational Status ON/OFF
611.3		T5 Water Level
AUTO/CYCLING		Pump 5 Operational Status ON/OFF
616.2		T6A Water Elevation
6.5		T6B pH
612.8		T6B Water Level
AUTO/CYCLING		Pump 6B Operational Status ON/OFF
No Reading Faulty Sensor		T7 Water Level Reading
6.6		T7 pH
2.8		T8 Water Elevation
27,518,424		Flow Meter Reading
19.6		Average System Flow
30.3		Generator Run Hours
READING	*Standard*	*LOCATION/PARAMETER*
0.081	0.011 mg/L	Calcium Settling Pond Effluent (T3) Hexavalent Chromium
0.124	0.050 mg/L	Calcium Settling Pond Effluent (T3) Total Chromium
0.003	0.011 mg/L	Iron Settling Pond Effluent (T6) Hexavalent Chromium
0.058	0.050 mg/L	Iron Settling Pond Effluent (T6) Total Chromium
ND	0.011 mg/L	Engineered Wetland Effluent (T7) Hexavalent Chromium
0.038	0.050 mg/L	Engineered Wetland Effluent (T7) Total Chromium
0.002	0.011 mg/L	Southwest Corner Effluent (SS-1) Hexavalent Chromium
0.024	0.050 mg/L	Southwest Corner Effluent (SS-1) Total Chromium
pH READING		*SAMPLE LOCATION*
6.10		Calcium Settling Pond Effluent (T3)
6.27		Iron Settling Pond Effluent (T6)
6.54		Engineered Wetland Effluent (T7)
6.89		Southwest Corner Effluent (SS-1)
Notes: Replaced pressure transmitter in T-7. Linde technician on site to resolve volume reading issue in T-2. Cut grass around T-7. Cleaned crossover lines between tanks in T-3 and T-6. Cleaned & calibrated pH probes.		

Attachment G.2

Airco Parcel GCTS
Monthly Flow Calculations
January – June 2010

Monthly Airco Parcel GCTS
Flow Calculations
January 2010

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
1/1/2010	42	17	24,374	22,210,154	24	0
1/2/2010	42	16	23,520	22,233,674	24	0
1/3/2010	41	17	24,358	22,258,032	24	0
1/4/2010	42	17	24,534	22,282,566	24	0
1/5/2010	42	17	24,944	22,307,510	24	0
1/6/2010	41	17	24,130	22,331,640	24	0
1/7/2010	42	16	23,452	22,355,092	24	0
1/8/2010	41	16	23,036	22,378,128	24	0
1/9/2010	41	17	24,822	22,402,950	24	0
1/10/2010	41	19	27,376	22,430,326	24	0
1/11/2010	41	19	27,416	22,457,742	24	0
1/12/2010	41	19	26,652	22,484,394	24	0
1/13/2010	41	19	26,656	22,511,050	24	0
1/14/2010	41	18	26,322	22,537,372	24	0
1/15/2010	41	19	27,342	22,564,714	24	0
1/16/2010	41	19	27,424	22,592,138	24	0
1/17/2010	41	19	27,162	22,619,300	24	0
1/18/2010	40	18	25,792	22,645,092	24	0
1/19/2010	40	19	26,970	22,672,062	24	0
1/20/2010	40	19	27,324	22,699,386	24	0
1/21/2010	40	18	26,282	22,725,668	24	0
1/22/2010	40	19	26,814	22,752,482	24	0
1/23/2010	40	18	25,540	22,778,022	24	0
1/24/2010	40	10	14,560	22,792,582	24	0
1/25/2010	40	10	14,560	22,807,142	24	0
1/26/2010	40	29	42,050	22,849,192	24	0
1/27/2010	40	27	38,587	22,887,779	24	0
1/28/2010	40	27	38,587	22,926,366	24	0
1/29/2010	39	27	38,588	22,964,954	24	0
1/30/2010	39	27	38,588	23,003,542	24	0
1/31/2010	39	27	38,588	23,042,130	24	0
Sample Measurement	**42**	**19**	**856,350**	**23,042,130**	**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
February 2010

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
2/1/2010	39	21	30,376	23,072,506	24	0
2/2/2010	39	22	31,036	23,103,542	24	0
2/3/2010	39	22	31,284	23,134,826	24	0
2/4/2010	39	21	30,840	23,165,666	24	0
2/5/2010	39	22	31,418	23,197,084	24	0
2/6/2010	39	22	31,134	23,228,218	24	0
2/7/2010	39	22	31,216	23,259,434	24	0
2/8/2010	39	22	30,968	23,290,402	24	0
2/9/2010	38	22	32,338	23,322,740	24	0
2/10/2010	38	23	32,762	23,355,502	24	0
2/11/2010	38	22	32,118	23,387,620	24	0
2/12/2010	38	22	32,000	23,419,620	24	0
2/13/2010	38	22	32,108	23,451,728	24	0
2/14/2010	38	22	31,860	23,483,588	24	0
2/15/2010	38	22	31,688	23,515,276	24	0
2/16/2010	38	22	31,520	23,546,796	24	0
2/17/2010	38	22	31,406	23,578,202	24	0
2/18/2010	37	22	31,120	23,609,322	24	0
2/19/2010	37	21	30,664	23,639,986	24	0
2/20/2010	37	21	30,498	23,670,484	24	0
2/21/2010	37	21	30,214	23,700,698	24	0
2/22/2010	36	21	30,398	23,731,096	24	0
2/23/2010	36	21	30,068	23,761,164	24	0
2/24/2010	36	21	29,878	23,791,042	24	0
2/25/2010	36	20	29,512	23,820,554	24	0
2/26/2010	36	20	29,472	23,850,026	24	0
2/27/2010	36	21	29,710	23,879,736	24	0
2/28/2010	36	21	29,526	23,909,262	24	0
Sample Measurement	**39**	**22**	**867,132**	**23,909,262**	**28**	**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
March 2010

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
3/1/2010	36	20	29,444	23,938,706	24	0
3/2/2010	35	20	29,098	23,967,804	24	0
3/3/2010	35	20	28,556	23,996,360	24	0
3/4/2010	35	20	28,338	24,024,698	24	0
3/5/2010	35	19	27,800	24,052,498	24	0
3/6/2010	40	20	28,254	24,080,752	24	0
3/7/2010	40	20	28,622	24,109,374	24	0
3/8/2010	40	24	34,432	24,143,806	24	0
3/9/2010	40	22	32,192	24,175,998	24	0
3/10/2010	40	20	29,180	24,205,178	24	0
3/11/2010	40	23	32,440	24,237,618	24	0
3/12/2010	40	25	35,870	24,273,488	24	0
3/13/2010	40	26	36,720	24,310,208	24	0
3/14/2010	40	24	34,518	24,344,726	24	0
3/15/2010	40	23	32,626	24,377,352	24	0
3/16/2010	43	21	30,936	24,408,288	24	0
3/17/2010	43	22	31,686	24,439,974	24	0
3/18/2010	39	22	32,006	24,471,980	24	0
3/19/2010	43	22	31,960	24,503,940	24	0
3/20/2010	42	22	32,036	24,535,976	24	0
3/21/2010	39	22	31,400	24,567,376	24	0
3/22/2010	39	23	33,060	24,600,436	24	0
3/23/2010	38	23	33,620	24,634,056	24	0
3/24/2010	38	23	32,750	24,666,806	24	0
3/25/2010	38	23	32,512	24,699,318	24	0
3/26/2010	38	22	32,210	24,731,530	24	0
3/27/2010	38	23	32,804	24,764,334	24	0
3/28/2010	38	23	33,310	24,797,644	24	0
3/29/2010	38	23	33,692	24,831,336	24	0
3/30/2010	38	23	33,358	24,864,694	24	0
3/31/2010	38	23	33,374	24,898,068	24	0
Sample Measurement	**43**	**22**	**988,804**	**24,898,068**	**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
April 2010

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
4/1/2010	38	23	33,664	24,931,732	24	0
4/2/2010	37	23	33,458	24,965,190	24	0
4/3/2010	37	23	33,578	24,998,768	24	0
4/4/2010	37	23	33,068	25,031,836	24	0
4/5/2010	37	23	33,014	25,064,850	24	0
4/6/2010	38	25	35,786	25,100,636	24	0
4/7/2010	38	26	37,216	25,137,852	24	0
4/8/2010	38	28	40,478	25,178,330	24	0
4/9/2010	37	24	34,398	25,212,728	24	0
4/10/2010	37	24	33,950	25,246,678	24	0
4/11/2010	38	17	24,670	25,271,348	24	0
4/12/2010	37	23	33,474	25,304,822	24	0
4/13/2010	37	24	34,030	25,338,852	24	0
4/14/2010	37	24	33,890	25,372,742	24	0
4/15/2010	37	24	34,476	25,407,218	24	0
4/16/2010	37	24	34,692	25,441,910	24	0
4/17/2010	37	24	33,896	25,475,806	24	0
4/18/2010	37	24	33,902	25,509,708	24	0
4/19/2010	37	23	33,788	25,543,496	24	0
4/20/2010	37	24	34,060	25,577,556	24	0
4/21/2010	40	24	33,940	25,611,496	24	0
4/22/2010	39	23	33,580	25,645,076	24	0
4/23/2010	41	23	33,344	25,678,420	24	0
4/24/2010	41	23	33,122	25,711,542	24	0
4/25/2010	49	25	35,986	25,747,528	24	0
4/26/2010	46	25	36,472	25,784,000	24	0
4/27/2010	46	25	35,540	25,819,540	24	0
4/28/2010	46	25	35,302	25,854,842	24	0
4/29/2010	46	24	35,216	25,890,058	24	0
4/30/2010	49	24	35,244	25,925,302	24	0
Sample Measurement	**49**	**24**	**1,027,134**	**25,925,302**	**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
May 2010

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
5/1/2010	46	24	35,018	25,960,320	24	0
5/2/2010	45	24	34,944	25,995,264	24	0
5/3/2010	47	24	35,142	26,030,406	24	0
5/4/2010	44	24	34,440	26,064,846	24	0
5/5/2010	45	25	35,930	26,100,776	24	0
5/6/2010	44	24	34,226	26,135,002	24	0
5/7/2010	47	25	35,442	26,170,444	24	0
5/8/2010	44	24	34,378	26,204,822	24	0
5/9/2010	47	23	33,022	26,237,844	24	0
5/10/2010	44	23	32,844	26,270,688	24	0
5/11/2010	47	22	31,200	26,301,888	24	0
5/12/2010	44	20	29,220	26,331,108	24	0
5/13/2010	44	22	31,712	26,362,820	24	0
5/14/2010	44	21	30,712	26,393,532	24	0
5/15/2010	44	21	29,646	26,423,178	24	0
5/16/2010	44	22	31,106	26,454,284	24	0
5/17/2010	44	20	29,046	26,483,330	24	0
5/18/2010	44	20	29,112	26,512,442	24	0
5/19/2010	44	20	29,372	26,541,814	24	0
5/20/2010	43	21	29,830	26,571,644	24	0
5/21/2010	43	20	29,288	26,600,932	24	0
5/22/2010	43	20	29,458	26,630,390	24	0
5/23/2010	43	20	29,116	26,659,506	24	0
5/24/2010	43	20	28,990	26,688,496	24	0
5/25/2010	43	21	29,786	26,718,282	24	0
5/26/2010	43	21	30,310	26,748,592	24	0
5/27/2010	43	20	28,640	26,777,232	24	0
5/28/2010	43	20	28,686	26,805,918	24	0
5/29/2010	43	20	28,416	26,834,334	24	0
5/30/2010	43	20	28,564	26,862,898	24	0
5/31/2010	43	20	28,294	26,891,192	24	0
Sample Measurement	**47**	**22**	**965,890**	**26,891,192**	**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
June 2010

Date	Maximum Flow (gpm)	Average Flow Rate (gpm)	Total Daily Flow (Gal)	Total Gallons To Date (Gal)	Run Time (hours)	Run Time (minutes)
6/1/2010	43	21	30,662	26,921,854	24	0
6/2/2010	43	21	29,538	26,951,392	24	0
6/3/2010	43	21	29,662	26,981,054	24	0
6/4/2010	42	20	28,820	27,009,874	24	0
6/5/2010	43	19	27,158	27,037,032	24	0
6/6/2010	43	19	27,882	27,064,914	24	0
6/7/2010	42	18	26,212	27,091,126	24	0
6/8/2010	42	18	25,950	27,117,076	24	0
6/9/2010	42	18	26,242	27,143,318	24	0
6/10/2010	42	19	27,154	27,170,472	24	0
6/11/2010	42	18	25,868	27,196,340	24	0
6/12/2010	42	18	26,080	27,222,420	24	0
6/13/2010	41	18	26,318	27,248,738	24	0
6/14/2010	41	18	26,410	27,275,148	24	0
6/15/2010	41	18	26,142	27,301,290	24	0
6/16/2010	41	19	27,398	27,328,688	24	0
6/17/2010	41	18	26,274	27,354,962	24	0
6/18/2010	41	19	28,072	27,383,034	24	0
6/19/2010	41	20	28,776	27,411,810	24	0
6/20/2010	41	20	28,660	27,440,470	24	0
6/21/2010	41	20	28,510	27,468,980	24	0
6/22/2010	41	20	28,590	27,497,570	24	0
6/23/2010	41	20	28,130	27,525,700	24	0
6/24/2010	41	21	30,112	27,555,812	24	0
6/25/2010	41	21	29,758	27,585,570	24	0
6/26/2010	41	21	29,580	27,615,150	24	0
6/27/2010	42	22	31,508	27,646,658	24	0
6/28/2010	41	22	32,176	27,678,834	24	0
6/29/2010	41	20	28,938	27,707,772	24	0
6/30/2010	41	20	28,720	27,736,492	24	0
Sample Measurement	**43**	**20**	**845,300**	**27,736,492**	**30**	**100%**
	Daily Maximum (GPM)	Monitoring Period Average (GPM)	Monitoring Period Total (GAL)	Cumulative Total (GAL)	Runtime (Days)	Operational Percentage