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932001

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30 November 2004

Mr. Michael Resh
Manager of Environmental Remediation
BOC Gases
100 Mountain Avenue
Murray Hill, New Jersey 07974

MJR

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NYSDEC REG 9
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RE: Bi-Annual 2004 Monitoring Event Letter Report, Site No. 932001, Airco Properties Inc.,
Airco Parcel, Niagara Falls, New York
EA Project No. 12040.87

Dear Mr. Resh:

EA Engineering, P.C. and its affiliate EA Science and Technology are pleased to provide the Bi-Annual 2004 Monitoring Event Letter Report. During December 2000, the post-closure monitoring and facility maintenance program was initiated at the Airco Parcel located in Niagara Falls, New York. 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 monitoring event letter report is to summarize the analytical results of the first bi-annual 2004 groundwater monitoring event that was completed at this site in April 2004, and to summarize operation and maintenance activities completed through July 2004.

OBJECTIVES

In accordance with the Revised Final Post-Closure Monitoring and Facility Maintenance Plan (EA 2004)¹, environmental monitoring points will be maintained and sampled during the post-closure monitoring period. This includes collection of groundwater, surface water, and leachate samples. The Post-Closure Monitoring and Facility Maintenance Plan documents sampling locations and sampling parameters and methods, in addition to other required maintenance activities, such as landfill cap inspections and the operation and maintenance plan for the groundwater collection and treatment system (GCTS). Following the first 5 years of post-closure monitoring, the original Revised Final Post-Closure Monitoring and Facility Maintenance Plan (EA 2001)² plan was re-evaluated based on the data collected at the site so that the monitoring plan will be focused to address site-specific issues that may be identified.

In accordance with the updated Post-Closure Monitoring and Facility Maintenance Program, the following activities must be completed:

1. EA Engineering, P.C. and its Affiliate EA Science and Technology. 2004. 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 must be maintained and sampled during the post-closure period. Bi-annual summary reports must be submitted to the New York State Department of Environmental Conservation (NYSDEC) Division of Solid and Hazardous Materials, Region 9; the New York State Department of Health in Albany, New York; BOC Gases; and the document repository located at the Town of Niagara Town's Clerk's Office.
- Routine inspections must be conducted of sediment ponds and the engineered wetlands to assess the presence of mosquito larvae.
- Drainage structures and ditches must be 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 must be maintained during the post-closure monitoring and maintenance period.
- A vegetative cover must be maintained on all exposed final cover material, and adequate measures must be taken to ensure the integrity of the final vegetated cover, topsoil layer, and underlying barrier protection layer.
- The GCTS must be operated and maintained to effectively mitigate the discharge of groundwater recharging to surface water in the southwest corner of the Airco Parcel.
- Records must be maintained of all sampling and analytical results.

As noted above, the results of the bi-annual sampling events will be summarized in a letter report detailing the findings of the environmental sampling. Monitoring event letter reports will be limited to documenting the results of each sampling round. This letter report summarizes the findings of the first bi-annual post-closure monitoring event completed at this site, along with a summary of operation and maintenance activities performed at the this site through July 2004.

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 Vanadium site is approximately 150 acres. This bi-annual sampling event focuses on the 25-acre Airco Parcel operated by BOC Gases. The site contains waste material from the operation of onsite and nearby production facilities.

An Immediate Investigative Work Assignment was conducted by NYSDEC for a portion of the 150-acre parcel in August 1997. Approximately 70 acres from the Niagara Mohawk Power Corporation and New York Power Authority parcel were investigated. 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. According to the Immediate Investigative Work Assignment, much of the surface material consisted of fill, including fly ash, dust, slag, and cinder materials.



Analysis of site groundwater during the Immediate Investigative Work Assignment indicated that surface water and groundwater standards were exceeded for hexavalent chromium and pH. Based on the Immediate Investigative Work Assignment and other investigations, the facility has been listed as a Class 2 Hazardous Waste Site in the New York State Registry of Inactive Hazardous Waste Sites (Site No. 932001). A Class 2 listing indicates a significant threat to public health and the environment, and requires remedial action.

The Airco site remedial measures were completed as a capped landfill in 2000. A complete description of the history of the site, and the construction details of the landfill capping system, are provided 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. The data also indicated that the discharge of groundwater at the site was seasonal. The data further indicated that elevated hexavalent chromium concentrations and pH in groundwater, upon mixing with surface water, remained in excess of the ambient water quality criteria.

The GCTS was designed to implement additional remedial actions, which have been deemed necessary to meet the goals of the interim remedial measures program. The main portion of the GCTS is located on the northwest corner of the site and contains the main control panel, carbon dioxide storage tank, carbon dioxide aeration system, two sediment ponds, duplex pump house, zero valence iron (ZVI) reaction tanks, manhole collection sump, engineered wetland, and an effluent pump station. At the southwest corner of the site, there is an influent wetwell pump station. The GCTS located at the site is presented on Figure 2.

MONITORING EVENT FIELD ACTIVITIES

Monitoring Well Gauging

The site monitoring wells (MW-1B through MW-8B) were gauged prior to sampling on 26-27 April 2004. The depth to water ranged from 2.64 ft at MW-6B to 11.89 ft at MW-2B. 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	8.59	617.77	609.18
MW-2B	11.89	615.88	603.99
MW-3B	8.28	611.22	602.94
MW-4B	5.67	606.68	601.01
MW-5B	5.24	605.48	600.24
MW-6B	2.64	603.47	600.83
MW-7B	7.88	609.48	601.60
MW-8B	4.35	611.62	607.27

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

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



An interpretation of the water table surface is illustrated on Figure 3.

Groundwater Sampling Procedures

Monitoring wells were sampled on 26-27 April 2004. Eight groundwater samples were collected from the site monitoring wells. Monitoring wells MW-4B, MW-5B, and MW-7B were purged using dedicated bailers due to slow recharge and limited well volume. These wells were bailed dry and allowed to recharge prior to sample collection. Monitoring wells MW-1B, MW-2B, MW-3B, MW-6B, and MW-8B had adequate recharge rates; consequently, 4 well volumes were removed and water quality readings allowed to stabilize prior to sample collection. One surface water sample was also collected southwest of monitoring well MW-6B. Samples were submitted to Life Science Laboratories, Inc. of East Syracuse, 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.

Groundwater sampling results were compared to NYSDEC Ambient Water Quality Standards (AWQS) (NYSDEC 1999)⁴ and guidance values for Class GA waters. Class GA groundwater is used as a source of drinking water. Leachate 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. Analytical results are summarized on the table provided in Attachment A. Copies of the field notebook, including the results for well gauging, purging, and sampling, are provided in Attachment B. Laboratory chain-of-custody records are provided in Attachment C. Laboratory Form I analytical results are included in Attachment D.

ANALYTICAL RESULTS

Based on the analytical results collected during the Fourth Quarter 2000 and First Quarter 2001, NYSDEC approved a reduction in the sampling requirements. As per a letter to NYSDEC dated 5 June 2000, samples were analyzed for water quality parameters (ammonia, phenolics, and sulfate) and total (unfiltered) metals.

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

Metals

Unfiltered metals samples were collected from 8 of the site monitoring wells. Notable results included the following:

4. New York State Department of Environmental Conservation. 1999. Water Quality Regulations – Surface Water and Groundwater Classifications and Standards New York State Codes, Rules and Regulations Title 6, Chapter X Parts 700-706.



- 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.
- Hexavalent chromium was detected in excess of the NYSDEC AWQS in MW-2B, MW-4B, MW-8B, and the surface water sample. Selenium was also detected in excess of the NYSDEC AWQS in MW-4B and MW-8B.

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 also analyzed by the laboratory. Notable results included the following:

- Sulfate was detected in excess of NYSDEC AWQS in the sample collected from monitoring well MW-8B
- Ammonia and phenolics were detected in excess of NYSDEC AWQS in the sample collected from monitoring well MW-2B, as well as phenolics in monitoring well MW-7B
- pH measurements exceeded the NYSDEC AWQS of 6.5 to 8.5 standard pH units in monitoring wells MW-2B (12.38-12.45), MW-3B (9.97-10.72), and MW-7B (8.64-8.65) as well as the surface water sample (11.66) (Attachment B).

LANDFILL INSPECTION

A landfill cap inspection was conducted on 27 April 2004. The Landfill Cap Inspection Checklist is provided as Attachment E. No deterioration, damage, or erosion to the landfill cap were noted during the engineering inspection. The access roads were in good order, and vegetation was observed growing in many areas of the road. A defoliant should be used to remove the vegetation in the roadways. Drainage swales are clear with the exception of the southwest swale where soils and vegetation have covered the stone swale. The inspections suggest that the soil should be removed and new stone installed.

GROUNDWATER COLLECTION AND TREATMENT SYSTEM OPERATIONS AND MAINTENANCE MONITORING ACTIVITIES

The GCTS is part of the Airco Parcel located near Witmer Road in Niagara Falls, New York. The GCTS was designed to implement additional remedial actions, which have been deemed necessary to meet the goals of the interim remedial measures program. The main portion of the GCTS is located on the northwest corner of the site and contains the main control panel, carbon dioxide storage tank, carbon dioxide aeration system, two sediment ponds, duplex pump house, ZVI reaction tanks, engineered wetland, and an effluent pump station. At the southwest corner



of the site, there is an influent wetwell pump station. The GCTS located at the site is presented on Figure 2. The complete operation and maintenance manual is presented as an appendix to the Post-Closure Monitoring and Facility Maintenance Plan (EA 2004).

System Operations and Maintenance

The GCTS began discharging water on 20 November 2003 when the first compliance samples were collected and sent for offsite laboratory analysis. The system operated on average at approximately 20 gpm during the winter months, December 2003 through March 2004. Carbon dioxide consumption during those months was 12,000 lb every 21-24 days or approximately 535 lb per day. Monthly site visits were conducted through April 2004. During the monthly site visits, an EA technician completed field sampling analysis utilizing the HACH DR/4000 spectrophotometer. Field analyses were conducted at three different stages of the treatment process. Influent water was collected from the discharge of Pump P4A (prior to initial aeration), from discharge of Pump P4B (after ZVI reaction), and from discharge of Pump P7 (prior to discharge to southwest corner wetland). Field data collected during the monthly site visits were recorded and are provided in Attachment F. Along with field sampling activities, pH meters and pressure transducers were cleaned, dry wells were checked, the carbon dioxide tank pressures and capacity were recorded, and the ZVI box was visually inspected. The GCTS operated with minor adjustments through April 2004.

The GCTS sampling occurred weekly for the first 8 weeks of operation and monthly after that until April 2004. Samples were collected at various locations to evaluate treatment system performance and compliance with discharge criteria. Samples were collected prior to (Sediment Pond No. 1) and after treatment via the ZVI tank (Sediment Pond No. 2), and after the engineered wetland (EFF7). The samples were analyzed in the field for total chromium and hexavalent chromium using a HACH DR4000 spectrophotometer. The HACH DR4000 spectrophotometer 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 as well as separate samples taken for offsite laboratory analysis at Life Science Laboratories, East Syracuse, New York, for a full list of discharge criteria.

Field sampling results for total and hexavalent chromium are provided in Table 1, and results of the engineered wetland discharge samples are provided in Table 2. Hexavalent chromium removal rates were 98.7 percent and chromium removal rates were 95.2 percent during the monitoring period. Total suspended solids and iron analytical results were continuously above NYSDEC discharge criteria throughout the monitoring period. The correlation between the two analyses indicates that the suspended solids were iron. Measures to reduce iron and total suspended solids in the effluent have been incorporated to the system with the planting of the wetland in August 2004. Hexavalent chromium (0.013 mg/L) was above the NYSDEC discharge criteria (0.011 mg/L) in samples collected 16 April 2004, although total chromium (<0.01) results indicate that no chromium was present in the discharged water. This difference of 3 µg/L can be the result of a small fluctuation in digestion procedure, or low-level turbidity. The full set of laboratory analytical data for the GCTS discharge sampling can be found in Attachment G.



During the monthly site visit in April 2004, it was noted that the dry well pump station containing Pumps P4A and P4B was inundated with water, and that the ZVI box was releasing treated water over the top end of the box. It was also observed that water had seeped between the liner and berm of Sediment Pond Nos. 1 and 2. A French drain was installed on the northeast side of the ponds from the dry well pump station to relieve water retention in the soil.

In May 2004, it was observed that the southwest corner was inundated by groundwater which was discharging to the surface, indicating that the discharge flow rate had increased. The GCTS was shut down to reassess the flow rates from the collection system. Flow rates ranged between 35 and 40 gpm from the collection system. After determining the new flow rates, the appropriate modifications and upgrades were designed for the GCTS.

Groundwater Collection and Treatment System Upgrades and Modifications (June-July 2004)

GCTS upgrades and modification began on 17 June 2004. The flow/treatment process of the GCTS was not altered during the modification phase. The major system components that were upgraded and/or modified were the ZVI box; suction Pumps P4A, P4B, and P7; carbon dioxide aeration chamber; duplex pump station; and the addition of a manhole collection sump. The following describes component adjustments to meet increased flow rates:

- **ZVI Box**—The ZVI box was no longer capable of handling the increased flow rates. This component was removed and replaced with four separate concrete ZVI vaults. The new ZVI vaults were located northeast of the sediment ponds. The ZVI vault dimensions are 7 ft width × 13 ft length × 4 ft height (outside dimensions); each vault was pre-fabricated with an influent line opening at the base and an effluent line outlet opposite the influent side at the top of the vault. The vaults were filled with 12-16 in. of pea stone and 12-16 in. of ZVI filings. All four ZVI vaults gravity drain to a manhole collection sump equipped with a submersible pump.
- **Pumps P4A, P4B, and P7**—The three original pumps, Goulds Model No. SSH 1×2-6 closed coupled pumps were replaced with three Goulds Model No. SSH 1½ × 2½ -6 closed coupled pumps each with a 1-hp, totally enclosed fan cooled 1,750-rpm motor rated for 3-phase, 60-hertz, 460-volt power. The new pumps are rated for 60 gpm at 30 ft of total discharge head to handle the increased flow capacities. Pump designations remained unchanged.
- **Carbon Dioxide Reaction Chamber**—The carbon dioxide reaction chamber was removed from the GCTS due to its inability to manage the increase in flow rates. The collection water now pumps directly to Sediment Pond No. 1, where it is aerated with carbon dioxide in the first channel of the baffle system.
- **Duplex Pump Station**—The duplex pump station was removed from in between the sediment ponds and replaced with an aboveground pump house located between the sediment ponds and the ZVI vaults.



- **Manhole Collection Sump**—A manhole collection sump equipped with a Goulds Model 3885 submersible pump, rated for 60 gpm at 20 ft of total discharge head, and controlled by an ON/OFF float switch, was added to the GCTS. The collection sump conveys water from the ZVI vaults to Sediment Pond No. 2.

The modifications and upgrades were completed during the period June-July 2004. The GCTS was re-started on 29 July 2004, and the first compliance sample was collected for offsite laboratory analysis at that time.

If you have any questions regarding the results of this Bi-Annual 2004 Monitoring Event Letter Report, please do not hesitate to contact Charles McLeod at (845) 565-8100, Ext. 1008.

Sincerely,

EA ENGINEERING, P.C.

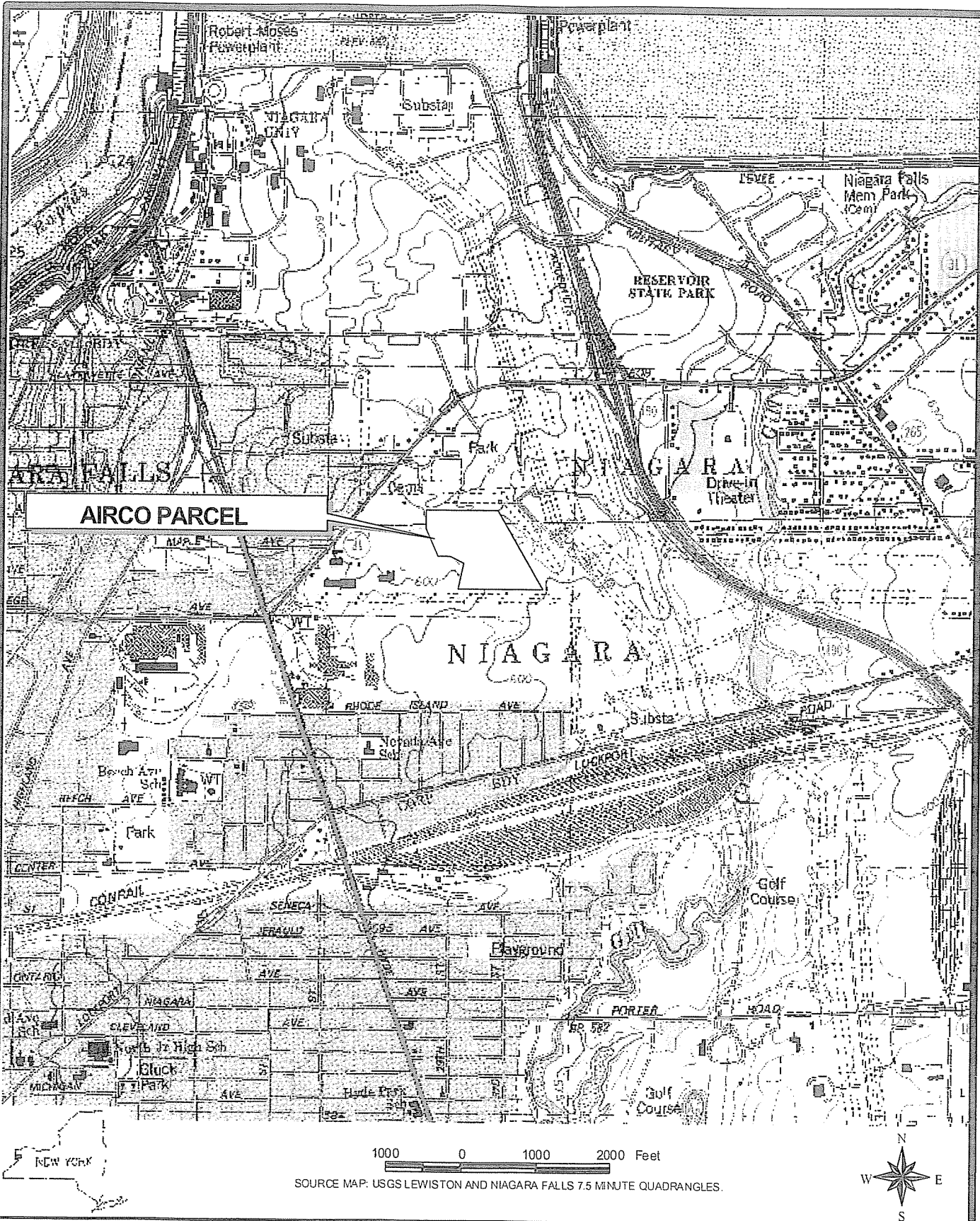
Charles E. McLeod, Jr., P.E.
Vice President

EA SCIENCE AND TECHNOLOGY

Scott Graham, CPG, P.G.
Project Geologist

CEM/cam
Attachments

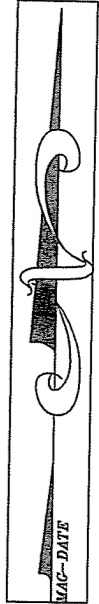
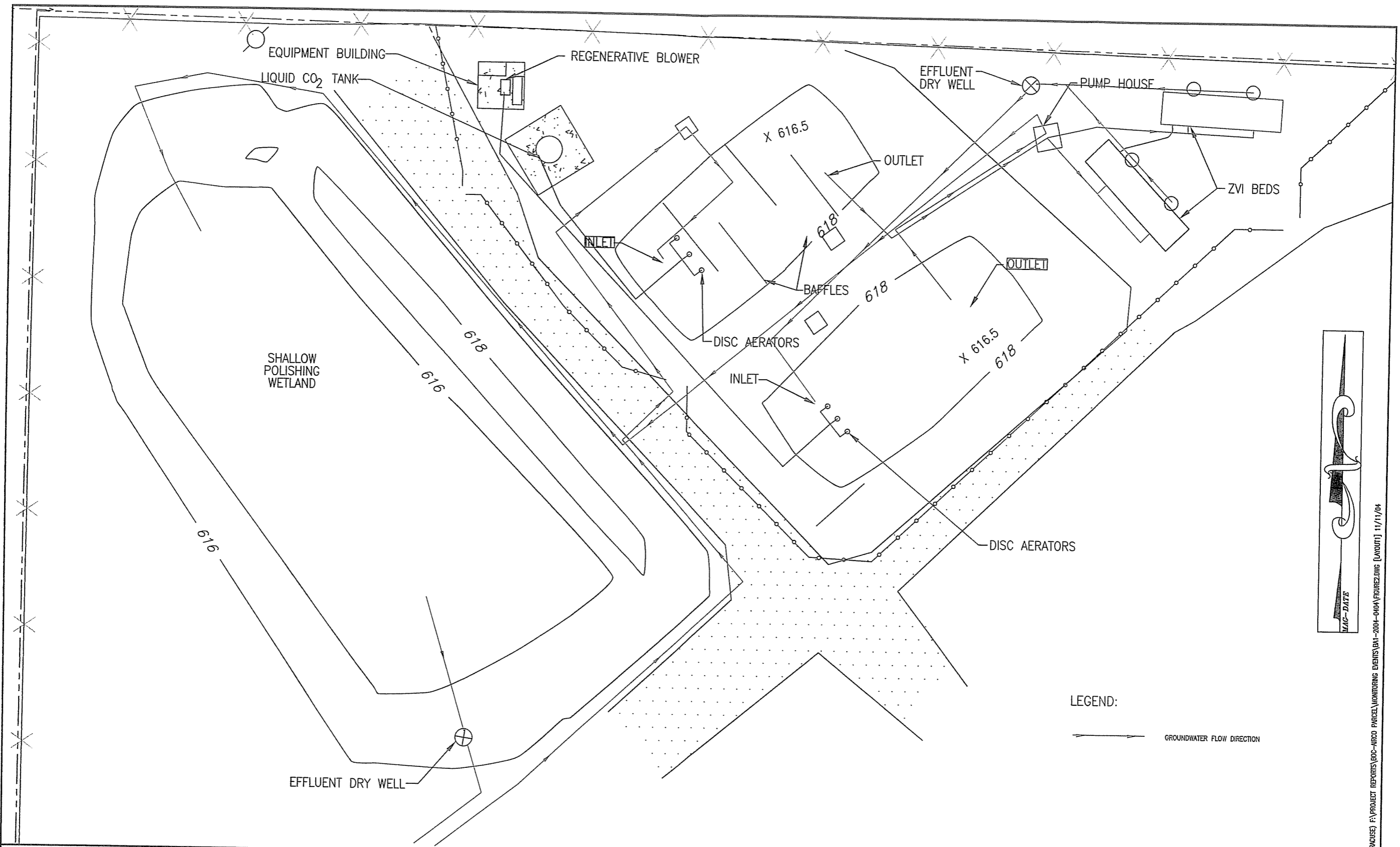
cc: M. Hinton (NYSDEC)
M. Forcucci (NYSDOH)
Town of Niagara Falls (Town Clerk)



AIRCO PARCEL
NIAGARA FALLS, NEW YORK

FIGURE 1
SITE LOCATION MAP

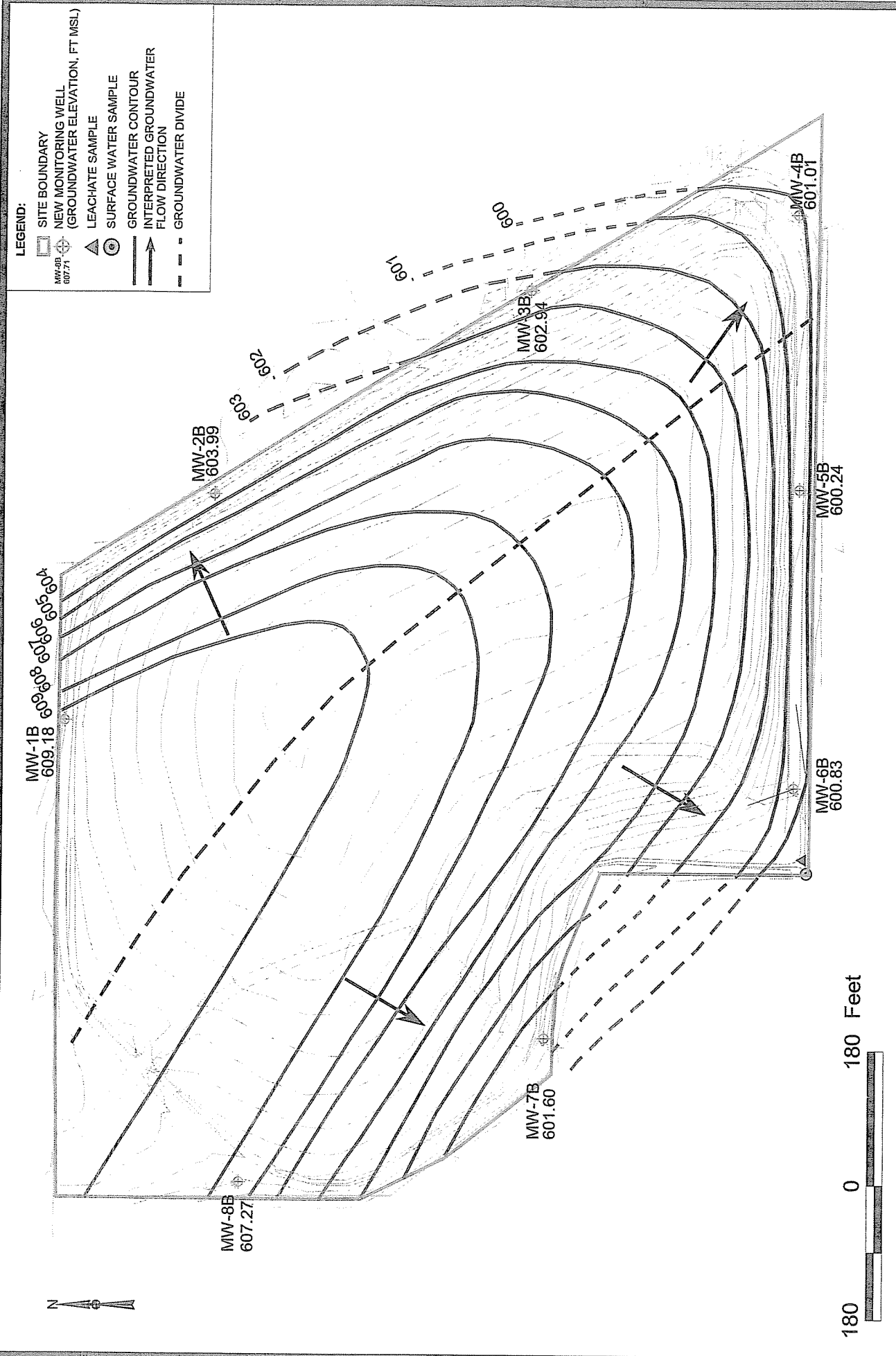
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LEGEND:
 GROUNDWATER FLOW DIRECTION

	GROUNDWATER COLLECTION AND TREATMENT SYSTEM AIRCO PARCEL NIAGARA FALLS, NEW YORK	SYSTEM LAYOUT FIGURE 2			DESIGNED BY DOK	DRAWN BY DOK	DATE 11-05-04	PROJECT NO. 12040.87	FILE NAME -
		CHECKED BY GJG	PROJECT MGR. CC	SCALE 1" = 20'	DRAWING NO. -	FIGURE FIGURE 2			



PROJECT MGR		DESIGNED BY		DRAWN BY		CHECKED BY		AIRCO PARCEL NIAGARA FALLS, NEW YORK		INTERPRETED GROUNDWATER CONTOUR MAP APRIL 2004		FIGURE 3	
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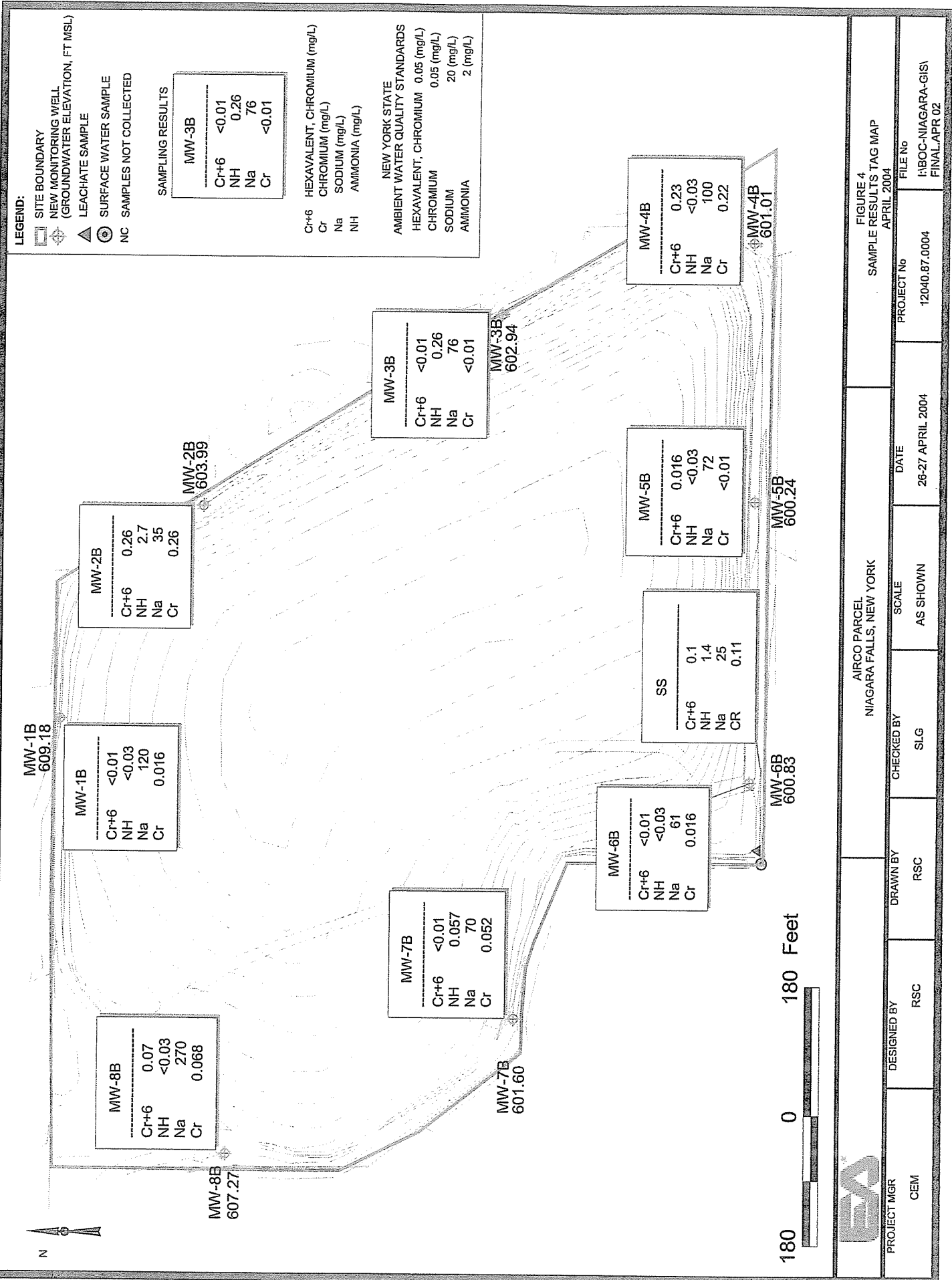


TABLE 1 SUMMARY OF WEEKLY FIELD SAMPLING RESULTS
20 NOVEMBER 2003 – 16 MARCH 2004

Date	Sediment Pond No. 1		Sediment Pond No. 2		Wetland Discharge	
	Total Chromium (µg/L)	Hexavalent Chromium (µg/L)	Total Chromium (µg/L)	Hexavalent Chromium (µg/L)	Total Chromium (µg/L)	Hexavalent Chromium (µg/L)
20 NOV 2003						
25 NOV 2003	250	180	120	100	30	20
02 DEC 2003	190	150	40	30	10	10
09 DEC 2003	290	250	140	130	10	0
16 DEC 2003	260	120	150	70	10	0
23 DEC 2003	240	150	160	90	10	0
30 DEC 2003	250	170	20	10	10	0
07 JAN 2004	310	200	30	20	10	0
15 JAN 2004	250	120	20	10	10	0
17 FEB 2004	190	160	30	20	10	0
16 MAR 2004	200	180	10	0	10	0

NOTE: Field samples were analyzed using a HACH DR4000 Spectrophotometer, Methods 8023 (hexavalent chromium) and 8084 (total chromium).

TABLE 2 SUMMARY OF WEEKLY DISCHARGE SAMPLING
 20 NOVEMBER 2003 – 16 APRIL 2004

Parameter	2003										2004				NYSDEC Discharge Criteria
	20 NOV	25 NOV	2 DEC	9 DEC	16 DEC	23 DEC	30 DEC	7 JAN	17 FEB	25 MAR	16 APR				
pH	2.1 ^(a)	7.7	8.1	6.3	7.0	6.8	7.2	7.5	6.3	7.4	7.8	6-8 NTU			
Total suspended solids	12	<4	7	160	43	10	30	22	110	14	9.5	10 mg/L			
Ammonia as N	2.9	2.1	2.6	3.1	4.3	3.6	3.0	3.3	4.7	3.0	1.8	9.2 mg/L			
Total Kjeldahl nitrogen	2.3	3.3	2.1	4.8	5.0	3.2	2.3	4.2	6.0	6.4	3.2	Monitor			
Biochemical oxygen demand	4	<4	<4	70	7.6	<4	8.0	8.4	16	12	<4	5.0 mg/L			
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.0 µg/L			
Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.0 µg/L			
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.07 mg/L			
Copper	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0147 mg/L			
Barium	<0.01	<0.2	<0.2	<0.2	<0.01	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	2 mg/L			
Total chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.012	<0.01	<0.01	0.1 mg/L			
Hexavalent chromium	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.013	0.011 mg/L			
Iron	1.7	0.22	1.6	150	24	7.8	21	6.5	64	7.6	0.38	0.3 mg/L			
Selenium	<0.01	0.012	0.014	<0.01	<0.01	<0.01	<0.01	0.012	<0.01	0.015	<0.01	0.0046 mg/L			
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.012	<0.01	0.004 mg/L			
Zinc	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	0.016	0.011	0.016	<0.01	0.014	0.115 mg/L			
Nitrate as N	0.83	<0.1	<0.1	0.17	0.34	0.25	0.26	0.20	<0.1	<0.1	0.23	Monitor			
Nitrite as N	<0.1	0.88	0.89	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Monitor			
Chemical oxygen demand	14	3.8	4.0	36	20	23	21	10	40	14	12	40 mg/L			
Total dissolved solids	480	NA	NA	660	890	730	450	690	NA	850	470	Monitor			

(a) Laboratory error; sample diluted with acid.

NOTE: NA = Sample not analyzed for parameter.
 Values in bold indicate an excess of discharge criteria.

Attachment A

Summary of Analytical Results
of Groundwater and
Surface Water Samples
April 2004

ATTACHMENT A
SUMMARY OF ANALYTICAL RESULTS OF GROUNDWATER, AND SURFACE WATER SAMPLES
COLLECTED IN APRIL 2004,
AIRCO PARCEL, NIAGARA FALLS, NEW YORK

Ground Water

Baseline Metals by EPA Method 6010/6020 (mg/L)

Total (Unfiltered)

		MW-1B	MW-2B	MW-3B	MW-4B	MW-5B	MW-6B	MW-6B (Dup)	MW-7B	MW-8B
Compound/Element	AWQS									
Chromium	0.05	0.016	0.26	(<0.01U)	0.23	(<0.01U)	0.016	0.015	0.052	0.068
Chromium, Hexavalent	0.05	(<0.01U)	0.26	(<0.01U)	0.22	0.016	(<0.01U)	0.011	(<0.01U)	0.07
Iron	0.3	2.9	0.37	0.2	2.2	0.62	0.6	0.61	6	1.1
Lead	0.025	0.022	0.01	(<0.01U)	0.014	(<0.01U)	(<0.01U)	(<0.01U)	0.01	0.011
Magnesium	35*	63	(<0.01U)	0.87	42	65	78	82	11	37
Manganese	0.3	0.82	0.017	(<0.01U)	0.04	0.066	0.14	0.14	0.14	0.1
Selenium	0.01	(<0.01U)	(<0.01U)	(<0.01U)	0.013	(<0.01U)	(<0.01U)	(<0.01U)	(<0.01U)	0.043
Silicon	---	9.9	1.3	8.8	8.2	8.3	6.4	6.9	10	7.9
Sodium	20	120	35	76	100	72	58	61	70	270
Thallium	0.0005*	(<0.01U)	0.027	(<0.01U)	(<0.01U)	(<0.01U)	(<0.01U)	(<0.01U)	(<0.01U)	(<0.01U)
Zinc	2*	0.61	0.051	0.034	0.06	0.072	0.017	0.021	0.075	0.056

Water Quality Parameters (mg/L)

Total (Unfiltered)

		MW-1B	MW-2B	MW-3B	MW-4B	MW-5B	MW-6B	MW-6B (Dup)	MW-7B	MW-8B
Compound/Element	AWQS									
Ammonia (expressed as N)	2	(<0.03U)	2.7	0.26	(<0.03U)	(<0.03U)	(<0.03U)	(<0.03U)	0.057	(<0.03U)
Phenolics	0.001	(<0.002U)	0.0047	(<0.002U)	(<0.002U)	(<0.002U)	(<0.002U)	(<0.002U)	0.011	(<0.002U)
Sulfate	250	180	29	120	150	160	190	200	99	300

ATTACHMENT A (CONTINUED)

Surface Water

Baseline Metals by EPA Method 6010/6020 (mg/L)

Total (Unfiltered)

		SS
Compound/Element	AWQS	
Chromium	---	0.11
Chromium, Hexavalent	0.016	0.1
Iron	0.3	(<0.05U)
Lead	---	(<0.01U)
Magnesium	---	2.5
Manganese	---	(<0.01U)
Selenium	0.0046	(<0.01U)
Silicon	---	1.8
Sodium	---	25
Thallium	0.02	(<0.01U)
Zinc	---	(<0.01U)

Water Quality Parameters (mg/L)

Total (Unfiltered)

		SS
Compound/Element	AWQS	
Ammonia (expressed as N)	---	1.4
Phenolics	---	0.018
Sulfate	---	71

ATTACHMENT A (CONTINUED)

OA/OC

Baseline Metals by EPA Method 6010/6020 (mg/L)

Total (Unfiltered)

Compound/Element	AWQS	Rinse Blank	Source Water Blank
Chromium	---	(<0.01U)	(<0.01U)
Chromium, Hexavalent	---	(<0.01U)	(<0.01U)
Iron	---	(<0.05U)	(<0.05U)
Lead	---	(<0.01U)	(<0.01U)
Magnesium	---	2.2	2.2
Manganese	---	(<0.01U)	(<0.01U)
Selenium	---	(<0.01U)	(<0.01U)
Silicon	---	(<0.5U)	(<0.5U)
Sodium	---	4.3	4.4
Thallium	---	(<0.01U)	(<0.01U)
Zinc	---	(<0.01U)	0.011

Water Quality Parameters (mg/L)

Compound/Element	AWQS	Rinse Blank	Source Water Blank
Ammonia (expressed as N)	---	(<0.03U)	(<0.03U)
Phenolics	---	(<0.002U)	(<0.002U)
Sulfate	---	12	12

ATTACHMENT A (CONTINUED)

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.
- = Indicates no standard or guidance value exists.
- U = Not detected. Sample quantitation limits shown as (<__U).

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

Analytical Methods for Water Quality Parameters

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

Attachment B

**Groundwater Sampling
Purge Forms and Field Notes
April 2004**



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: AP-MW1B	EA Personnel: R.CASEY	Client: BOC GASES
Location: NIAGARA FALLS	Well Condition: LOCKED	Weather: OVERCAST, COOL, 50s
Sounding Method: WLI	Gauge Date: 4/26/2004	Measurement Ref: TOC
Stick Up/Down (ft): UP	Gauge Time:	Well Diameter (in): 4"

Purge Date: 4/27/2004	Purge Time: 930
Purge Method: 2" SUB/LOW FLOW	Field Technician: R.CASEY

Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 8.59	E. Well Volume (gal) C*D):	Pump Type: GRUNDFOS REDI-FLO 2
C. Liquid Depth (ft) (A-B):	F. Five Well Volumes (gal) (E3):	Pump Designation:

Water Quality Parameters									
Time (hours)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
944	8.42	0	0.25	7.09	160	8.95	1.79	5.58	326
948	9.25	1	0.25	6.97	86	9.88	1.82	2.45	317
952	9.34	2	0.25	6.93	68	10.89	1.82	1.44	199
956	NC	3	0.25	6.90	59	11.41	1.83	1.13	167
1000	9.40	4	0.25	6.89	53	11.54	1.83	1.00	99
1004	9.40	5	0.25	6.88	52	11.42	1.82	0.87	97.6
1008	9.41	6	0.25	6.88	52	11.40	1.82	0.90	98

Total Quantity of Water Removed (gal):	-2 gal	Sampling Time:	1010
Samplers:	R.CASEY	Split Sample With:	_____
Sampling Date:	27-Apr-04	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS: _____



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: AP-MW2B	EA Personnel: R.CASEY	Client: BOC GASES
Location: NIAGARA FALLS	Well Condition: LOCKED	Weather: OVERCAST, COOL, 50s
Sounding Method: WLI	Gauge Date: 4/26/2004	Measurement Ref: TOC
Stick Up/Down (ft): UP	Gauge Time:	Well Diameter (in): 4"

Purge Date: 4/27/2004	Purge Time: 1020
Purge Method: 2" SUB/LOW FLOW	Field Technician: R.CASEY

Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 11.89	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Five Well Volumes (gal) (E3):	Pump Designation:

Water Quality Parameters									
Time (hours)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
1029	11.41	0	0.25	12.38	-138	8.48	4.04	4.22	606
1033	11.78	1	0.25	12.45	-141	7.80	4.11	1.96	266
1037	12.24	2	0.25	12.42	-133	8.43	4.03	1.76	281
1041	12.29	3	0.25	12.41	-131	8.67	4.05	1.80	269
1045	12.34	4	0.25	12.41	-130	8.55	3.94	1.88	238
*note									

Total Quantity of Water Removed (gal):	~1.5 gal.	Sampling Time:	1110
Samplers:	R.CASEY	Split Sample With:	
Sampling Date:	27-Apr-04	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS: *NOTE: WELL PUMPED DRY, ALLOWED TO RECHARGE THEN SAMPLED. SAMPLED ON 05 JUN 03.



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: AP-MW3B	EA Personnel: R.CASEY	Client: BOC GASES
Location: NIAGARA FALLS	Well Condition: LOCKED	Weather: OVERCAST, COOL, 50s
Sounding Method: WLI	Gauge Date: 4/26/2004	Measurement Ref: TOC
Stick Up/Down (ft): UP	Gauge Time:	Well Diameter (in): 4"

Purge Date: 4/27/2004	Purge Time: 1120
Purge Method: 2" SUB/LOW FLOW	Field Technician: R.CASEY

Well Volume		
A. Well Depth (ft): 8.28	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type: GRUNDFOS REDI-FLO 2
C. Liquid Depth (ft) (A-B):	F. Five Well Volumes (gal) (E3):	Pump Designation:

Water Quality Parameters									
Time (hours)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
1125	7.36	0	0.25	10.72	8	8.64	0.625	0.94	82.9
1129	9.73	1	0.25	10.69	2	9.16	0.610	0.63	83.7
1133	9.76	2	0.25	10.57	-17	10.21	0.587	0.44	85.2
1137	NC	3	0.25	10.47	-42	10.89	0.560	0.48	64
1141	9.81	4	0.25	10.29	-95	11.49	0.536	0.40	62.7
1145	9.82	5	0.25	9.97	-98	12.10	0.533	0.47	60.3
1149	9.85	6	0.25	9.97	-97	12.31	0.534	0.48	55.4

Total Quantity of Water Removed (gal):	~2 gal	Sampling Time:	1155
Samplers:	R.CASEY	Split Sample With:	
Sampling Date:	27-Apr-04	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS: _____



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: AP-MW4B	EA Personnel: R.CASEY	Client: BOC GASES
Location: NIAGARA FALLS	Well Condition: LOCKED	Weather: OVERCAST, COOL, 50s
Sounding Method: WLI	Gauge Date: 4/26/2004	Measurement Ref: TOC
Stick Up/Down (ft): UP	Gauge Time:	Well Diameter (in): 4"

Purge Date: 4/26/2004	Purge Time: 1500
Purge Method: HAND BAIL	Field Technician: R.CASEY

Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 5.67	E. Well Volume (gal) C*D):	Pump Type: DEDICATED BAILER
C. Liquid Depth (ft) (A-B):	F. Five Well Volumes (gal) (E3):	Pump Designation:

Water Quality Parameters									
Time (hours)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
INITIAL	5.67			7.54	169	10.46	1.19	14.75	141
ENDING		~2		7.63	138	10.08	1.12	13.59	999

Total Quantity of Water Removed (gal):	~2 gal	Sampling Time:	1520
Samplers:	R.CASEY	Split Sample With:	
Sampling Date:	27-Apr-04	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS: _____



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: AP-MW5B	EA Personnel: R.CASEY	Client: BOC GASES
Location: NIAGARA FALLS	Well Condition: LOCKED	Weather: OVERCAST, COOL, 50s
Sounding Method: WLI	Gauge Date: 9/10/2003	Measurement Ref: TOC
Stick Up/Down (ft): UP	Gauge Time:	Well Diameter (in): 4"

Purge Date: 4/26/2004	Purge Time: 1520
Purge Method: HAND BAIL	Field Technician: R.CASEY

Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 5.24	E. Well Volume (gal) C*D):	Pump Type: DEDICATED BAILER
C. Liquid Depth (ft) (A-B):	F. Five Well Volumes (gal) (E3):	Pump Designation:

Water Quality Parameters									
Time (hours)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
INITIAL	5.24			7.19	164	12.39	1.25	12.39	92.4
ENDING		~2.5		7.25	165	12.62	1.27	12.62	999

Total Quantity of Water Removed (gal):	~2.5 gal	Sampling Time:	1530
Samplers:	R.CASEY	Split Sample With:	
Sampling Date:	27-Apr-04	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS: _____



GROUNDWATER SAMPLING PURGE FORM

Well I.D.:	EA Personnel:	Client:
AP-MW6B	R.CASEY	BOC GASES
Location:	Well Condition:	Weather:
NIAGARA FALLS	LOCKED	OVERCAST, COOL, 50s
Sounding Method:	Gauge Date:	Measurement Ref:
WLI	4/26/2004	TOC
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):
UP		4"

Purge Date: 4/27/2004	Purge Time: 1200
Purge Method: 2" SUB/LOW FLOW	Field Technician: R.CASEY

Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 2.63	E. Well Volume (gal) C*D):	Pump Type: GRUNDFOS REDI-FLO 2
C. Liquid Depth (ft) (A-B):	F. Five Well Volumes (gal) (E3):	Pump Designation:

Water Quality Parameters									
Time (hours)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
1210	1.43	0	0.25	7.25	48	9.21	1.36	1.61	311
1214	4.03	1	0.25	7.12	35	8.83	1.37	0.61	262
1218	5.11	2	0.25	7.07	26	9.39	1.33	0.39	161
1222	9.82	3	0.25	7.07	20	9.73	1.35	0.36	133
1226	9.88	4	0.25	7.07	16	9.68	1.34	0.31	112
1230	9.94	5	0.25	7.08	15	9.25	1.36	0.30	64
1234	NC	6	0.25	7.08	16	9.23	1.36	0.32	58

Total Quantity of Water Removed (gal):	~2 gal	Sampling Time:	1240
Samplers:	R.CASEY	Split Sample With:	
Sampling Date:	27-Apr-04	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS: AP-DUP-0404 ALSO COLLECTED FROM MW6B.



GROUNDWATER SAMPLING PURGE FORM

Well I.D.: AP-MW7B	EA Personnel: R.CASEY	Client: BOC GASES
Location: NIAGARA FALLS	Well Condition: LOCKED	Weather: OVERCAST, COOL, 50s
Sounding Method: WLI	Gauge Date: 4/26/2004	Measurement Ref: TOC
Stick Up/Down (ft): UP	Gauge Time:	Well Diameter (in): 4"

Purge Date: 4/26/2004	Purge Time: 1535
Purge Method: HAND BAIL	Field Technician: R.CASEY

Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 7.88	E. Well Volume (gal) C*D):	Pump Type: DEDICATED BAILER
C. Liquid Depth (ft) (A-B):	F. Five Well Volumes (gal) (E3):	Pump Designation:

Water Quality Parameters									
Time (hours)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
INITIAL	7.88			8.64	121	10.17	0.415	12.97	95.2
ENDING		~3		8.66	112	10.67	0.392	11.97	999

Total Quantity of Water Removed (gal):	~3 gal	Sampling Time:	1545
Samplers:	R.CASEY	Split Sample With:	
Sampling Date:	27-Apr-04	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS: _____



EA Engineering PC and its Affiliate
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: AP-MW8B	EA Personnel: R.CASEY	Client: BOC GASES
Location: NIAGARA FALLS	Well Condition: LOCKED	Weather: OVERCAST, COOL, 50s
Sounding Method: WLI	Gauge Date: 4/26/2004	Measurement Ref: TOC
Stick Up/Down (ft): UP	Gauge Time:	Well Diameter (in): 4"

Purge Date: 4/27/2004	Purge Time: 1350
Purge Method: 2" SUB/LOW FLOW	Field Technician: R.CASEY

Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 4.35	E. Well Volume (gal) C*D):	Pump Type: GRUNDFOS REDI-FLO 2
C. Liquid Depth (ft) (A-B):	F. Five Well Volumes (gal) (E3):	Pump Designation:

Water Quality Parameters									
Time (hours)	DTW (ft btoc)	Volume (liters)	Rate (Lpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
1404	4.61	0	0.25	7.94	121	9.17	1.62	2.76	999
1408	5.18	1	0.25	7.47	122	9.14	1.61	0.86	999
1412	5.52	2	0.25	7.40	119	9.62	1.60	0.68	741
1416	5.72	3	0.25	7.33	113	10.31	1.59	0.64	432
1420	5.81	4	0.25	7.32	113	10.36	1.59	0.63	447
1424	5.93	5	0.25	7.32	113	10.50	1.55	0.65	342

Total Quantity of Water Removed (gal):	~1.5 gal	Sampling Time:	1430
Samplers:	R.CASEY	Split Sample With:	
Sampling Date:	27-Apr-04	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS: _____

CONTENTS

PAGE NO.	REFERENCE	DATE
•	AIRCO PARCEL 4201. WITMER RD.	
•	EA ENGINEERING, SCIENCE & TECH. 6731 COLLAMER RD E. SRAUSE NY 13057	
•	SAMPLE BOTTLES 1" AMBER LITER; T. Phenols; H ₂ SO ₄ 1-PLASTIC 500-ML; Cr ⁶⁺ , SO ₄ ; NONE 1-PLASTIC 250-ML; NH ₃ ; H ₂ SO ₄ 1-PLASTIC 250-ML; Metals; HNO ₃	
•	UPS ACCOUNT: F02748	

26 APR 2004

BIANNUAL SAMPLING

• R. CASEY ON-SITE @ 1430 FOR SAMPLING,
ENGINEERING INSPECTION

• MONITORING WELL GRABING

	DTW	PURGE METHOD
MW-1B	8.59	PUMP
MW-2B	11.89	PUMP
MW-3B	8.78	PUMP
MW-4B	5.67	BAIL
MW-5B	5.74	BAIL
MW-6B	2.64	PUMP
MW-7B	7.88	BAIL
MW-8B	4.35	PUMP

HORIBA CALIBRATION BY: A. JENNINGS 4/23/04
PINE # 920 SERIAL NO. 928073

pH: 4.00 COND: 4.49
DO: NA TURB: 0

26 APR 2004

AP-MW4B-0404

	INITIAL	ENDING
PH	7.54	7.63
COND	1.19	1.12
TURB	141	999
DO	14.75	13.59
TEMP	10.46	10.08
ORP	169	138

* READINGS TAKEN @ 1500

* WILL ALLOW WELL TO RECHARGE AND SAMPLE TOMORROW.

Purge Vol: ~ 7 gal.

* AP-MW4B-0404 SAMPLE COLLECTION TIME 1520 ON 27 APR 2004.

26 APR 2004

AP-MW5B-0404

	INITIAL	ENDING
PH	7.19	7.25
COND	1.26	1.27
TURB	92.4	999
DO	12.39	12.62
TEMP	11.05	9.76
ORP	164	165

* READINGS TAKEN @ 1520

* WILL BAIL DRY AND ALLOW TO RECHARGE, SAMPLE TOMORROW.

Purge Vol: ~ 2 gal

* AP-MW5B-0404 SAMPLE COLLECTION TIME 1530 ON 27 APR 2004.

26 APR 2004

AP-MW7B-0404

INITIAL

pH 8.64
 COND 0.415
 TURB 95.2
 DO 12.97
 TEMP 10.17
 ORP 121

ENDING

8.66
 0.392
 999
 11.97
 10.67
 112

• READINGS TAKEN @ 15:35

• PUMPED WELL DRY, WILL ALLOW TO RECHARGE & SAMPLE TOMORROW

Purge vol: ~3 gal

AP-MW7B-0404 SAMPLE COLLECTION

TIME 1545 ON 27 APR 2004

27 APR 2004

AP-MW1B-0404

TIME 0930

DTW: 8.59

METHOD: 2" SUB

VPL Purge ~2 gal

TIME	0944	0946	0952	1000	1004	1009
PARAM	①	②	③	④	⑤	⑥
Vol Purge	-	2	3	4	5	6
Purge Rate	0.25/min					
pH	7.04	6.97	6.93	6.89	6.88	6.88
COND	1.74	1.82	1.82	1.83	1.82	1.82
TURB	326	199	167	99	97.6	98
DO	5.88	2.45	1.44	1.00	0.87	0.90
TEMP	8.95	9.88	10.89	11.41	11.42	11.40
ORP	160	86	68	59	52	52
DTW	8.42	9.25	9.34	9.40	9.40	9.44

• AP-MW1B-0404 SAMPLE COLLECTION

TIME 1018

27 APR 2004

AP - MW2B - 0404

TIME: 1020

METHOD: 2" SUB

DTW: 11.89

Vol. Pumped: ~ 1.5 gal

TIME	1029	1033	1037	1041	1045
PARAM	①	②	③	④	⑤
VOL PUMP	-	1	2	3	4
PURSE RATE	0.25				
P.H.	12.38	12.45	12.42	12.41	12.41
COND	404	4.11	4.03	4.05	3.94
TURB	600	266	281	269	238
DO	4.22	1.46	1.76	1.80	1.88
TEMP	8.48	7.80	8.43	8.67	8.55
ORP	-38	-141	-133	-131	-130
DTW	11.41	11.78	12.24	12.29	12.34

AP - MW2B - 0404 SAMPLE COLLECTION

TIME 1110

* WELL PUMPED DRY WILL ALLOW RECHARGE THEN SAMPLE.

27 APR 2004

AP - MW3B - 0404

TIME: 1120

METHOD: 2" SUB

DTW: 8.28

Vol. Pumped: ~ 2 gal

TIME	1125	1129	1133	1137	1141	1145	1149
PARAM	①	②	③	④	⑤	⑥	⑦
VOL PUMP	-	1	2	3	4	5	6
PURSE RATE	0.25						
P.H.	10.72	10.69	10.57	10.47	10.29	9.97	9.97
COND	0.625	0.610	0.587	0.560	0.536	0.533	0.534
TURB	829	833.7	85.2	64.0	62.7	60.3	55.4
DO	0.94	0.63	0.44	0.48	0.40	0.47	0.48
TEMP	8.64	9.16	10.21	10.89	11.49	12.10	12.31
ORP	8	2	-17	-42	-95	-98	-97
DTW	7.36	9.73	9.76	-	9.81	9.82	9.85

AP - MW3B - 0404 SAMPLE COLLECTION

TIME 1155

27 APR 2004

AP-MW6B-0404

TIME: 1200

METHOD: 2" SUB

DTW: 2.64

Vol. Pulp: 27 gal.

TIME	IND	1214	1218	1222	1226	1230	1234
PARAM	⑤	⑥	⑦	⑧	⑨	⑩	⑪
VOL PULP	-	1	2	3	4	5	6
PULP/PH	0.15						
PH	7.25	7.12	7.07	7.07	7.07	7.08	7.08
COND	1.36	1.37	1.33	1.35	1.34	1.36	1.36
TEMP	311	262	161	133	112	64	58
DO	1.61	0.61	0.39	0.30	0.31	0.30	0.32
TEMP	9.21	8.83	9.39	9.73	9.68	9.25	9.23
ORP	48	35	26	20	16	15	16
DTW	1.43	4.03	5.11	9.82	9.88	9.94	-

AP-MW6B-0404 SAMPLE COLLECTION TIME 1240

AP-DUP-0404 COLLECTED HERE

27 APR 2004

AP-SS-0404

WATER QUALITY

TIME 1245
 PH 11.46
 COND 1.33
 TEMP 131.0
 DO 9.86
 TEMP 10.12
 ORP -86

AP-SS-0404 SAMPLE COLLECTION TIME 1255

SURFACE SAMPLE COLLECTED SW OF MW6B IN THE SWALE.

27 APR 2004

AP-MW88-0404

TIME: 1350

METHOD: 2" SUB

DTW: 435

Vol Pump: ~1" x 1/2"

TIME	PARAM	1404	1408	1412	1416	1420	1424
		①	①	②	③	④	⑤
		-	1	2	3	4	5
		→					
PUMP RATE		0.25					
PH		7.94	7.97	7.40	7.33	7.32	7.32
COND		1162	1.61	1.60	1.59	1.59	1.55
TURB		999	999	741	432	447	342
DO		2.76	0.86	0.68	0.64	0.63	0.45
TEMP		9.17	9.14	9.62	10.31	10.36	10.50
ORP		121	122	119	113	113	113
DTW		4.61	5.18	5.52	5.72	5.81	5.93

AP-MW88-0404 SAMPLE COLLECTION

TIME 1430

27 APR 2004

AP-AB-0404 SAMPLE COLLECTION
TIME 1445 ON 27 APR 2004

AP-SWB-0404 SAMPLE COLLECTION
TIME 1450 ON 27 APR 2004

Attachment C

**Chain-of-Custody Records
April 2004**



Life Science Laboratory CHAIN OF CUSTODY RECORD

LSL Central Lab
5854 Bluttermut Drive
E. Syracuse, N.Y. 13057
Phone: (315)445-1105
Fax: (315)445-1301

LSL North Lab
131 St. Lawrence Ave.
Waddington, N.Y. 13694
Phone: (315)388-4476
Fax: (315)388-4061

0406259
BAEing

LSL Southern Tier Lab
30 East Main St.
Cuba, N.Y. 14727
Phone: (585)988-2440
Fax: (585)988-4908

Wayland, N.Y. 14572
Phone: (585)728-3320
Fax: (585)728-2711

Report Address: ROBERT CASEY
 Name: EA ENGINEERING SCIENCE & TECHNOLOGY
 Company: 6131 COLLAMER ROAD
 Street: EL SYRACUSE, NY
 City/State: 315 431 4610
 Phone: 315 431 4610
 Email:
 Zip: 13057
 Fax: 315 431 4280

Authorization or P.O. # 12040.87.0003
 LSL Project Number:

Client's Sample Identifications	Sample Date	Sample Time	Type	Matrix	Preserv Added	Containers		Analyses	Preserv Check	LSL ID#
						#	size/type			
AP-MW1B-0404	27 APR 2004	1010	grab	GW	H ₂ SO ₄	1	AMBER LITER	T. Phenols		001A
					NONE	1	500 mL	Cr+6, SO ₄		001B
					H ₂ SO ₄	1	250 mL	NH ₃		001C
					HNO ₃	1	250 mL	Metals		001D
AP-MW2B-0404	27 APR 2004	1110	grab	GW	H ₂ SO ₄	1	AMBER LITER	T. Phenols		002A
					NONE	1	500 mL	Cr+6, SO ₄		002B
					H ₂ SO ₄	1	250 mL	NH ₃		002C
					HNO ₃	1	250 mL	Metals		002D
								(Tl, Na, cd, silicon, m, m, mg)		
								(Fe, cd, cr, pb, zn)		

Turnaround Time: Normal 14 DAY Pre-Authorized Next Day* 2-Day* 3-Day* 7-Day*
 *Additional Charges may apply

Date Needed or Special Instructions:

Received By:
 Received By:
 Rec'd for Lab By: 28-04 13:09 RUYD
 Received Intact: N Y

Sampled By:
 Relinquished By:
 Relinquished By:
 Shipment Method:

Containers this C-O-C

LSL use only:
 Airco Parcel # 13 The Source J. K.
 on witness Red per Scott C. 7/5 4-08

Sample Temp: 6-8°C

97
100

0406259

Life Science Laboratories, Inc.

CHAIN OF CUSTODY RECORD

LSL Central Lab
5854 Buttermut Drive
E. Syracuse, N.Y. 13057
Phone: (315)445-1105
Fax: (315)445-1301

LSL North Lab
131 St. Lawrence Ave.
Waddington, N.Y. 13694
Phone: (315)388-4478
Fax: (315)388-4061

LSL Finger Lakes Lab
16 N. Main St.
Wayland, N.Y. 14572
Phone: (585)726-3320
Fax: (585)726-2711

LSL Southern Tier Lab
30 East Main St.
Cuba, N.Y. 14727
Phone: (585)968-2840
Fax: (585)968-0908



Report Address:

Name: Robert Casey
Company: EA ENGINEERING SCIENCE & TECHNOLOGY
Street: 6731 COLLINGSWOOD ROAD
City/State: E. SYR. NY
Phone: 315 431 4400
Email:

Zip: 13057
Fax: 315 431 4280

Client Project ID/Client Site ID

AIRCO PARCEL

Authorization or P.O. # 12040-87-0003

LSL Project Number

Analyses

Client's Sample Identifications	Sample Date	Sample Time	Sample Type	Matrix	Preserv Added	Containers #	Containers		Preserv Check	LSL ID#
							grab/comp	size/type		
AP - MW3B-0404	07 APR 2004	1158	Grab	Grw		4				003A,B,C,D
AP - MW4B-0404		1520				4				004A,B,C,D
AP - MW5B-0404		1520				4				005A,B,C,D
AP - MW6B-0404		1240				4				006
AP - MW7B-0404		1545				4				007
AP - MW8B-0404		1430				4				008
AP - DUP - 0404						4				009
AP - RB - 0404		1446				4				010
AP - SS - 0404		1255				4				011
AP - SWB - 0404		1480				4				012

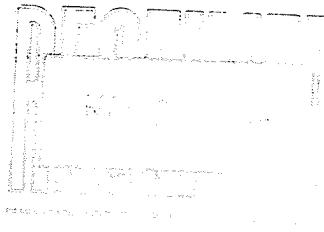
T. Phenols Metals, SO₄, NH₃, Cr: T-26

Sampled By: Robert S. Casey
Relinquished By: Robert Casey
Relinquished By: Robert Casey
Shipment Method: UPS

Received By: 04-28-04 10:09 RCW
Rec'd for Lab By: 04-28-04 10:09 RCW
Received In: NY
Sample Temp: 0-8°C

Attachment D

**Laboratory Analytical Results
April 2004**



Scott Graham
 EA Engineering, Science and Technology
 6731 Collamer Road
 East Syracuse, NY 13057-9759

Phone: (315) 431-4610
 FAX: (315) 431-4280
 Authorization: PO#12040.87.0003

Laboratory Analysis Report

For

EA Engineering, Science and Technology

Client Project ID:

Airco Parcel

LSL Project ID: **0406259**

Receive Date/Time: 04/28/04 10:09

Project Received by: ALH

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody document submitted with these samples is considered by LSL to be an appendix of this report and may contain specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

Life Science Laboratories, Inc.

LSL Central Lab
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LSL Finger Lakes Lab
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 Wayland, NY 14572
 Tel. (585) 728-3320
 Fax (585) 728-2711
 NYS DOH ELAP #11667

LSL Southern Tier Lab
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 Cuba, NY 14727
 Tel. (585) 968-2640
 Fax (585) 968-0906
 NYS DOH ELAP #10760

LSL MidLakes Lab
 699 South Main Street
 Canandaigua, NY 14424
 Tel. (585) 396-0270
 Fax (585) 396-0377
 NYS DOH ELAP #11369

This report was reviewed by:

Gunda Waters QC

Date:

5/21/04

Life Science Laboratories, Inc.

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: AP-MW1B-0404 LSL Sample ID: 0406259-001
Location: Airco Parcel
Sampled: 04/27/04 10:10 Sampled By: RSC
Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 350.1 Ammonia					
Ammonia as N	<0.03	mg/l		5/7/04	DRB
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	<0.002	mg/l	5/4/04	5/4/04	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	4/29/04	4/29/04	PEF
Chromium	0.016	mg/l	4/29/04	4/29/04	PEF
Iron	2.9	mg/l	4/29/04	4/29/04	PEF
Lead	0.022	mg/l	4/29/04	4/29/04	PEF
Magnesium	63	mg/l	4/29/04	4/29/04	PEF
Manganese	0.82	mg/l	4/29/04	4/29/04	PEF
Selenium	<0.01	mg/l	4/29/04	4/29/04	PEF
Silicon	9.9	mg/l	4/29/04	4/29/04	PEF
Sodium	120	mg/l	4/29/04	4/29/04	PEF
Thallium	<0.01	mg/l	4/29/04	4/29/04	PEF
Zinc	0.61	mg/l	4/29/04	4/29/04	PEF
(1) EPA Method 300.0 A					
Sulfate	180	mg/l		5/7/04	RAF
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		4/28/04 10:10	DWK

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: AP-MW2B-0404 LSL Sample ID: 0406259-002
Location: Airco Parcel
Sampled: 04/27/04 11:10 Sampled By: RSC
Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 350.1 Ammonia					
Ammonia as N	2.7	mg/l		5/7/04	DRB
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	0.0047	mg/l	5/4/04	5/4/04	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	4/29/04	4/29/04	PEF
Chromium	0.26	mg/l	4/29/04	4/29/04	PEF
Iron	0.37	mg/l	4/29/04	4/29/04	PEF
Lead	0.010	mg/l	4/29/04	4/29/04	PEF
Magnesium	<0.01	mg/l	4/29/04	4/29/04	PEF
Manganese	0.017	mg/l	4/29/04	4/29/04	PEF
Selenium	<0.01	mg/l	4/29/04	4/29/04	PEF
Silicon	1.3	mg/l	4/29/04	4/29/04	PEF
Sodium	35	mg/l	4/29/04	4/29/04	PEF
Thallium	0.027	mg/l	4/29/04	4/29/04	PEF
Zinc	0.051	mg/l	4/29/04	4/29/04	PEF
(1) EPA Method 300.0 A					
Sulfate	29	mg/l		4/28/04	RAF
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	0.26	mg/l		4/28/04 10:59	DWK

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: AP-MW3B-0404 LSL Sample ID: 0406259-003
Location: Airco Parcel
Sampled: 04/27/04 11:55 Sampled By: RSC
Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 350.1 Ammonia					
Ammonia as N	0.26	mg/l		5/7/04	DRB
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	<0.002	mg/l	5/4/04	5/4/04	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	4/29/04	4/29/04	PEF
Chromium	<0.01	mg/l	4/29/04	4/29/04	PEF
Iron	0.20	mg/l	4/29/04	4/29/04	PEF
Lead	<0.01	mg/l	4/29/04	4/29/04	PEF
Magnesium	0.87	mg/l	4/29/04	4/29/04	PEF
Manganese	<0.01	mg/l	4/29/04	4/29/04	PEF
Selenium	<0.01	mg/l	4/29/04	4/29/04	PEF
Silicon	8.8	mg/l	4/29/04	4/29/04	PEF
Sodium	76	mg/l	4/29/04	4/29/04	PEF
Thallium	<0.01	mg/l	4/29/04	4/29/04	PEF
Zinc	0.034	mg/l	4/29/04	4/29/04	PEF
(1) EPA Method 300.0 A					
Sulfate	120	mg/l		5/7/04	RAF
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		4/28/04 10:59	DWK

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: AP-MW4B-0404 LSL Sample ID: 0406259-004
Location: Airco Parcel
Sampled: 04/27/04 15:20 Sampled By: RSC
Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 350.1 Ammonia					
Ammonia as N	<0.03	mg/l		5/7/04	DRB
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	<0.002	mg/l	5/4/04	5/4/04	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	4/29/04	4/29/04	PEF
Chromium	0.23	mg/l	4/29/04	4/29/04	PEF
Iron	2.2	mg/l	4/29/04	4/29/04	PEF
Lead	0.014	mg/l	4/29/04	4/29/04	PEF
Magnesium	42	mg/l	4/29/04	4/29/04	PEF
Manganese	0.040	mg/l	4/29/04	4/29/04	PEF
Selenium	0.013	mg/l	4/29/04	4/29/04	PEF
Silicon	8.2	mg/l	4/29/04	4/29/04	PEF
Sodium	100	mg/l	4/29/04	4/29/04	PEF
Thallium	<0.01	mg/l	4/29/04	4/29/04	PEF
Zinc	0.060	mg/l	4/29/04	4/29/04	PEF
(1) EPA Method 300.0 A					
Sulfate	150	mg/l		5/7/04	RAF
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	0.22	mg/l		4/28/04 13:33	DWK

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: AP-MW5B-0404 LSL Sample ID: 0406259-005
Location: Airco Parcel
Sampled: 04/27/04 15:30 Sampled By: RSC
Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 350.1 Ammonia					
Ammonia as N	<0.03	mg/l		5/7/04	DRB
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	<0.002	mg/l	5/4/04	5/4/04	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	4/29/04	4/29/04	PEF
Chromium	<0.01	mg/l	4/29/04	4/29/04	PEF
Iron	0.62	mg/l	4/29/04	4/29/04	PEF
Lead	<0.01	mg/l	4/29/04	4/29/04	PEF
Magnesium	65	mg/l	4/29/04	4/29/04	PEF
Manganese	0.066	mg/l	4/29/04	4/29/04	PEF
Selenium	<0.01	mg/l	4/29/04	4/29/04	PEF
Silicon	8.3	mg/l	4/29/04	4/29/04	PEF
Sodium	72	mg/l	4/29/04	4/29/04	PEF
Thallium	<0.01	mg/l	4/29/04	4/29/04	PEF
Zinc	0.072	mg/l	4/29/04	4/29/04	PEF
(1) EPA Method 300.0 A					
Sulfate	160	mg/l		5/7/04	RAF
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	0.016	mg/l		4/28/04 13:33	DWK

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID:	AP-MW6B-0404	LSL Sample ID:	0406259-006
Location:	Airco Parcel		
Sampled:	04/27/04 12:40	Sampled By:	RSC
Sample Matrix:	NPW		

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 350.1 Ammonia					
Ammonia as N	<0.03	mg/l		5/7/04	DRB
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	<0.002	mg/l	5/4/04	5/4/04	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	4/29/04	4/29/04	PEF
Chromium	0.016	mg/l	4/29/04	4/29/04	PEF
Iron	0.60	mg/l	4/29/04	4/29/04	PEF
Lead	<0.01	mg/l	4/29/04	4/29/04	PEF
Magnesium	78	mg/l	4/29/04	4/29/04	PEF
Manganese	0.14	mg/l	4/29/04	4/29/04	PEF
Selenium	<0.01	mg/l	4/29/04	4/29/04	PEF
Silicon	6.4	mg/l	4/29/04	4/29/04	PEF
Sodium	58	mg/l	4/29/04	4/29/04	PEF
Thallium	<0.01	mg/l	4/29/04	4/29/04	PEF
Zinc	0.017	mg/l	4/29/04	4/29/04	PEF
(1) EPA Method 300.0 A					
Sulfate	190	mg/l		5/7/04	RAF
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		4/28/04 10:59	DWK

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: AP-MW7B-0404 LSL Sample ID: 0406259-007
Location: Airco Parcel
Sampled: 04/27/04 15:45 Sampled By: RSC
Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 350.1 Ammonia					
Ammonia as N	0.057	mg/l		5/7/04	DRB
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	0.011	mg/l	5/6/04	5/12/04	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	4/29/04	4/29/04	PEF
Chromium	0.052	mg/l	4/29/04	4/29/04	PEF
Iron	6.0	mg/l	4/29/04	4/29/04	PEF
Lead	0.010	mg/l	4/29/04	4/29/04	PEF
Magnesium	11	mg/l	4/29/04	4/29/04	PEF
Manganese	0.14	mg/l	4/29/04	4/29/04	PEF
Selenium	<0.01	mg/l	4/29/04	4/29/04	PEF
Silicon	10	mg/l	4/29/04	4/29/04	PEF
Sodium	70	mg/l	4/29/04	4/29/04	PEF
Thallium	<0.01	mg/l	4/29/04	4/29/04	PEF
Zinc	0.075	mg/l	4/29/04	4/29/04	PEF
(1) EPA Method 300.0 A					
Sulfate	99	mg/l		4/28/04	RAF
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		4/28/04 13:33	DWK

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: AP-MW8B-0404 LSL Sample ID: 0406259-008
Location: Airco Parcel
Sampled: 04/27/04 14:30 Sampled By: RSC
Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 350.1 Ammonia					
Ammonia as N	<0.03	mg/l		5/7/04	DRB
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	<0.002	mg/l	5/6/04	5/12/04	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	4/29/04	4/29/04	PEF
Chromium	0.068	mg/l	4/29/04	4/29/04	PEF
Iron	1.1	mg/l	4/29/04	4/29/04	PEF
Lead	0.011	mg/l	4/29/04	4/29/04	PEF
Magnesium	37	mg/l	4/29/04	4/29/04	PEF
Manganese	0.10	mg/l	4/29/04	4/29/04	PEF
Selenium	0.043	mg/l	4/29/04	4/29/04	PEF
Silicon	7.9	mg/l	4/29/04	4/29/04	PEF
Sodium	270	mg/l	4/29/04	4/29/04	PEF
Thallium	<0.01	mg/l	4/29/04	4/29/04	PEF
Zinc	0.056	mg/l	4/29/04	4/29/04	PEF
(1) EPA Method 300.0 A					
Sulfate	300	mg/l		5/7/04	RAF
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	0.070	mg/l		4/28/04 13:33	DWK

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: AP-DUP-0404 LSL Sample ID: 0406259-009
Location: Airco Parcel
Sampled: 04/27/04 0:00 Sampled By: RSC
Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 350.1 Ammonia					
Ammonia as N	<0.03	mg/l		5/7/04	DRB
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	<0.002	mg/l	5/6/04	5/12/04	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	4/29/04	4/29/04	PEF
Chromium	0.015	mg/l	4/29/04	4/29/04	PEF
Iron	0.61	mg/l	4/29/04	4/29/04	PEF
Lead	<0.01	mg/l	4/29/04	4/29/04	PEF
Magnesium	82	mg/l	4/29/04	4/29/04	PEF
Manganese	0.14	mg/l	4/29/04	4/29/04	PEF
Selenium	<0.01	mg/l	4/29/04	4/29/04	PEF
Silicon	6.9	mg/l	4/29/04	4/29/04	PEF
Sodium	61	mg/l	4/29/04	4/29/04	PEF
Thallium	<0.01	mg/l	4/29/04	4/29/04	PEF
Zinc	0.021	mg/l	4/29/04	4/29/04	PEF
(1) EPA Method 300.0 A					
Sulfate	200	mg/l		5/7/04	RAF
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	0.011	mg/l		4/28/04 13:33	DWK

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: AP-RB-0404 **LSL Sample ID:** 0406259-010
Location: Airco Parcel
Sampled: 04/27/04 14:45 **Sampled By:** RSC
Sample Matrix: NPW

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 350.1 Ammonia					
Ammonia as N	<0.03	mg/l		5/7/04	DRB
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	<0.002	mg/l	5/6/04	5/12/04	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	4/29/04	4/29/04	PEF
Chromium	<0.01	mg/l	4/29/04	4/29/04	PEF
Iron	<0.05	mg/l	4/29/04	4/29/04	PEF
Lead	<0.01	mg/l	4/29/04	4/29/04	PEF
Magnesium	2.2	mg/l	4/29/04	4/29/04	PEF
Manganese	<0.01	mg/l	4/29/04	4/29/04	PEF
Selenium	<0.01	mg/l	4/29/04	4/29/04	PEF
Silicon	<0.5	mg/l	4/29/04	4/29/04	PEF
Sodium	4.3	mg/l	4/29/04	4/29/04	PEF
Thallium	<0.01	mg/l	4/29/04	4/29/04	PEF
Zinc	<0.01	mg/l	4/29/04	4/29/04	PEF
(1) EPA Method 300.0 A					
Sulfate	12	mg/l		4/28/04	RAF
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		4/28/04 13:33	DWK

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: AP-SS-0404 LSL Sample ID: 0406259-011
Location: Airco Parcel
Sampled: 04/27/04 12:55 Sampled By: RSC
Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 350.1 Ammonia					
Ammonia as N	1.4	mg/l		5/7/04	DRB
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	0.018	mg/l	5/6/04	5/12/04	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	4/29/04	4/29/04	PEF
Chromium	0.11	mg/l	4/29/04	4/29/04	PEF
Iron	<0.05	mg/l	4/29/04	4/29/04	PEF
Lead	<0.01	mg/l	4/29/04	4/29/04	PEF
Magnesium	2.5	mg/l	4/29/04	4/29/04	PEF
Manganese	<0.01	mg/l	4/29/04	4/29/04	PEF
Selenium	<0.01	mg/l	4/29/04	4/29/04	PEF
Silicon	1.8	mg/l	4/29/04	4/29/04	PEF
Sodium	25	mg/l	4/29/04	4/29/04	PEF
Thallium	<0.01	mg/l	4/29/04	4/29/04	PEF
Zinc	<0.01	mg/l	4/29/04	4/29/04	PEF
(1) EPA Method 300.0 A					
Sulfate	71	mg/l		4/28/04	RAF
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	0.10	mg/l		4/28/04 10:59	DWK

- - LABORATORY ANALYSIS REPORT - -

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: AP-SWB-0404 **LSL Sample ID:** 0406259-012
Location: Airco Parcel
Sampled: 04/27/04 14:50 **Sampled By:** RSC
Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 350.1 Ammonia					
Ammonia as N	<0.03	mg/l		5/7/04	DRB
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	<0.002	mg/l	5/6/04	5/12/04	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	4/29/04	4/29/04	PEF
Chromium	<0.01	mg/l	4/29/04	4/29/04	PEF
Iron	<0.05	mg/l	4/29/04	4/29/04	PEF
Lead	<0.01	mg/l	4/29/04	4/29/04	PEF
Magnesium	2.2	mg/l	4/29/04	4/29/04	PEF
Manganese	<0.01	mg/l	4/29/04	4/29/04	PEF
Selenium	<0.01	mg/l	4/29/04	4/29/04	PEF
Silicon	<0.5	mg/l	4/29/04	4/29/04	PEF
Sodium	4.4	mg/l	4/29/04	4/29/04	PEF
Thallium	<0.01	mg/l	4/29/04	4/29/04	PEF
Zinc	0.011	mg/l	4/29/04	4/29/04	PEF
(1) EPA Method 300.0 A					
Sulfate	12	mg/l		4/28/04	RAF
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		4/28/04 13:33	DWK

Attachment E

**Landfill Cap Inspection Checklist
April 2004**

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

EA Personnel: Chip McLeod, Robert Casey

Date: 29 April 2004

Weather: Overcast, light rain, windy, mid-60s

1. **Inspection of ground surface for exposure of geotextile cover (cap erosion):**
No erosion observed.
2. **Inspection of ground surface for differential settlement resulting in soil cracking or ponded water:**
One area located at the top and east of the access road which cuts across the center of landfill; will have a better idea when grass is cut.
3. **Identification of stressed vegetation:**
Vegetation on landfill (grass), approximately 0.5-ft high; no stressed vegetation observed.
4. **Identification of seeps, rooted vegetation (trees), and/or animal burrows:**
Observed some small rodent burrows in topsoil throughout the site. Rodents are most likely a type of field mice. Groundwater flow structure located along the southwest side of landfill.
5. **Identification of deteriorating equipment (i.e., monitoring wells, fencing, or drainage structures):**
Monitoring wells show some rusting of the steel protective casings. May choose to grind rust, prime, and paint before rust gets too far into the metal.
6. **Inspection of stormwater drainage swales for erosion, sloughing, or flow-through:**
Drainage swales are clear with the exception of the one located at the southwest edge, where soils and vegetation have covered the stone swale. Should be cleaned and new stone installed.
7. **Inspection of east side of the landfill (Niagara Mohawk Power Corporation parcel) along the intermittent stream for the presence of erosion or sloughing:**
No deficiencies observed.
8. **Inspection of access roads:**
Access roads were in good shape. Vegetation was observed growing in many areas of the road. Defoliant should be used to remove the vegetation in the roadways.

Attachment F

**Groundwater Collection and Treatment
System Field Forms**

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Checklist

Yes / No Wet Well Pump Station Checked

Yes / No T3 Pressure Transducer Cleaned

Yes / No T3 pH Probe Cleaned

P4A / P4B Pump Station

Yes / No Water in Station

Yes / No Pumped out?

Yes / No P6 Pressure Transducer Cleaned

Yes / No P7 Pressure Transducer Cleaned

Zero Valance Tank

Yes / No Outlet Structure Checked

Yes / No Water Level OK

Sed Pond Manifold

NA Sed Pond A Flow (scfh)

NA Sed Pond B Flow (scfh)

date: 10 NOV 2003
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Treatment System Checklist

233 CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
10,550 CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs)
*Note: call for refill @ 2,000 - 3,000lbs
ON P1 Running Status (on/off)
615.8 T3 Water Elevation
6.8 T3 pH
49.6 T3 Temperature
ON P4A Running Status (on/off)
4psi P4A Pressure Gauge (normal range = 10psi)
616.0 T6 Water Elevation
ON P4B Running Status (on/off)
614.3 T7 Water Elevation
ON P7 Running Status (on/off)

date: 16 NOV 2003
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Checklist

Yes / No Wet Well Pump Station Checked

Yes / No T3 Pressure Transducer Cleaned

Yes / No T3 pH Probe Cleaned

P4A / P4B Pump Station

Yes / No Water in Station

Yes / No Pumped out?

Yes / No P6 Pressure Transducer Cleaned

Yes / No P7 Pressure Transducer Cleaned

Zero Valance Tank

Yes / No Outlet Structure Checked

Yes / No Water Level OK

Sed Pond Manifold

7 Sed Pond A Flow (scfh)

10 Sed Pond B Flow (scfh)

date: 25 NOV 2003
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Treatment System Checklist

221 CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
8,200 CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs)
*Note: call for refill @ 2,000 - 3,000lbs
OFF P1 Running Status (on/off)
615.8 T3 Water Elevation
7.0 T3 pH
47.6 T3 Temperature
OFF P4A Running Status (on/off)
3 psi P4A Pressure Gauge (normal range = 10psi)
615.4 T6 Water Elevation
OFF P4B Running Status (on/off)
614.2 T7 Water Elevation
OFF P7 Running Status (on/off)

date: 25 NOV 2003
personnel: R. LASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Field sampling

		<u>Standard</u>
<u>0.18</u>	P4A Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.25</u>	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.10</u>	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.12</u>	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.02</u>	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.03</u>	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)

pH Sed Pond A

pH Sed Pond B

pH Wetland

date: 25 NOV 2003
personnel: R. LABEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Checklist

Yes / No Wet Well Pump Station Checked

Yes / No T3 Pressure Transducer Cleaned

Yes / No T3 pH Probe Cleaned

P4A / P4B Pump Station

Yes / No Water in Station

Yes / No Pumped out?

Yes / No P6 Pressure Transducer Cleaned

Yes / No P7 Pressure Transducer Cleaned

Zero Valance Tank

Yes / No Outlet Structure Checked

Yes / No Water Level OK

Sed Pond Manifold

7 Sed Pond A Flow (scfh)

10 Sed Pond B Flow (scfh)

date: 2 DEC 2003
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Treatment System Checklist

222 CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
5,200 CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs)
*Note: call for refill @ 2,000 - 3,000lbs
OFF P1 Running Status (on/off)
615.7 T3 Water Elevation
6.6 T3 pH
42.3 T3 Temperature
OFF P4A Running Status (on/off)
2.5 P4A Pressure Gauge (normal range = 10psi)
616.2 T6 Water Elevation
ON P4B Running Status (on/off)
614.3 T7 Water Elevation
OFF P7 Running Status (on/off)

date: 2 DEC 2003
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Field sampling

<u>0.15</u>	P4A Hexavalent, Chromium Concentration (mg/L)	Standard (0.011 mg/L)
<u>0.19</u>	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.03</u>	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.04</u>	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.01</u>	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.01</u>	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)

pH Sed Pond A

pH Sed Pond B

pH Wetland

date: 3 DEC 2003
personnel: R. LASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Checklist

- Yes / No Wet Well Pump Station Checked
 Yes / No T3 Pressure Transducer Cleaned
 Yes / No T3 pH Probe Cleaned

P4A / P4B Pump Station

- Yes / No Water in Station
 Yes / No Pumped out?
 Yes / No P6 Pressure Transducer Cleaned
 Yes / No P7 Pressure Transducer Cleaned

Zero Valance Tank

- Yes / No Outlet Structure Checked
 Yes / No Water Level OK

Sed Pond Manifold

6 Sed Pond A Flow (scfh) }
9 Sed Pond B Flow (scfh) } reset to 7 1/2 scfh

date: 9 DEC 2003
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Field sampling

		<u>Standard</u>
<u>0.25</u>	P4A Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.29</u>	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.13</u>	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.14</u>	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.00</u>	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.01</u>	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)

pH Sed Pond A

pH Sed Pond B

pH Wetland

date: 9 DEC 2003
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Checklist

- ~~Yes~~ / No Wet Well Pump Station Checked
- ~~Yes~~ / No T3 Pressure Transducer Cleaned
- ~~Yes~~ / No T3 pH Probe Cleaned

P4A / P4B Pump Station

- ~~Yes~~ / No Water in Station
- ~~Yes~~ / No Pumped out?
- ~~Yes~~ / No P6 Pressure Transducer Cleaned
- ~~Yes~~ / No P7 Pressure Transducer Cleaned

Zero Valance Tank

- ~~Yes~~ / No Outlet Structure Checked
- ~~Yes~~ / No Water Level OK

Sed Pond Manifold

- 7 Sed Pond A Flow (scfh)
- 10 Sed Pond B Flow (scfh)

date: 16 DEC 2003
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Treatment System Checklist

230 CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
8,900 CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs)
*Note: call for refill @ 2,000 - 3,000lbs
OFF P1 Running Status (on/off)
615.7 T3 Water Elevation
6.54 T3 pH
43.5 T3 Temperature
OFF P4A Running Status (on/off)
3 P4A Pressure Gauge (normal range = 10psi)
616.1 T6 Water Elevation
OFF P4B Running Status (on/off)
614.2 T7 Water Elevation
OFF P7 Running Status (on/off)

date: 16 DEC 2003
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Field sampling

<u>0.12</u>	P4A Hexavalent, Chromium Concentration (mg/L)	Standard (0.011 mg/L)
<u>0.26</u>	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.07</u>	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.15</u>	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.00</u>	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.01</u>	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)

pH Sed Pond A

pH Sed Pond B

pH Wetland

date: 16 DEC 2003
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Checklist

Yes / No Wet Well Pump Station Checked

Yes / No T3 Pressure Transducer Cleaned

Yes / No T3 pH Probe Cleaned

P4A / P4B Pump Station

Yes / No Water in Station

Yes / No Pumped out?

Yes / No P6 Pressure Transducer Cleaned

Yes / No P7 Pressure Transducer Cleaned

Zero Valance Tank

Yes / No Outlet Structure Checked

Yes / No Water Level OK

Sed Pond Manifold

7 Sed Pond A Flow (scfh) → turned up to 20 scfh

10 Sed Pond B Flow (scfh)

date: 23 DEC 2003
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Treatment System Checklist

234 CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
5,880 CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs)
*Note: call for refill @ 2,000 - 3,000lbs
ON P1 Running Status (on/off)
615.8 T3 Water Elevation
6.98 T3 pH
41.7 T3 Temperature
ON P4A Running Status (on/off)
3 P4A Pressure Gauge (normal range = 10psi)
615.4 T6 Water Elevation
OFF P4B Running Status (on/off)
614.2 T7 Water Elevation
OFF P7 Running Status (on/off)

date: 23 DEC 2003
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Field sampling

		<u>Standard</u>
<u>0.15</u>	P4A Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.24</u>	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.09</u>	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.16</u>	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.00</u>	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.01</u>	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)

pH Sed Pond A

pH Sed Pond B

pH Wetland

date: 13 DEC 2003
personnel: R. LASSY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Checklist

Yes / No Wet Well Pump Station Checked

Yes / No T3 Pressure Transducer Cleaned

Yes / No T3 pH Probe Cleaned

P4A / P4B Pump Station

Yes / No Water in Station

Yes / No Pumped out?

Yes / No P6 Pressure Transducer Cleaned

Yes / No P7 Pressure Transducer Cleaned

Zero Valance Tank

Yes / No Outlet Structure Checked

Yes / No Water Level OK

Sed Pond Manifold

7 Sed Pond A Flow (scfh)

Sed Pond B Flow (scfh)

date: 30 DEC 2003
personnel: R. LASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Treatment System Checklist

225 CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
3300 CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs)
*Note: call for refill @ 2,000 - 3,000lbs
OFF P1 Running Status (on/off)
615.8 T3 Water Elevation
6.60 T3 pH
45.1 T3 Temperature
ON P4A Running Status (on/off)
2.5 P4A Pressure Gauge (normal range = 10psi)
615.8 T6 Water Elevation
ON P4B Running Status (on/off)
614.5 T7 Water Elevation
ON P7 Running Status (on/off)

date: 30 DEC 2003
personnel: D. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Field sampling

<u>0.17</u>	P4A Hexavalent, Chromium Concentration (mg/L)	Standard (0.011 mg/L)
<u>0.25</u>	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.01</u>	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.02</u>	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.00</u>	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.01</u>	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>6.74</u>	pH Sed Pond A	
<u>7.07</u>	pH Sed Pond B	
<u>7.35</u>	pH Wetland	

date: 30 DEC 2003
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Checklist

- Yes / No Wet Well Pump Station Checked
 Yes / No T3 Pressure Transducer Cleaned
 Yes / No T3 pH Probe Cleaned

P4A / P4B Pump Station

- Yes / No Water in Station
 Yes / No Pumped out?
 Yes / No P6 Pressure Transducer Cleaned
 Yes / No P7 Pressure Transducer Cleaned

Zero Valance Tank

- Yes / No Outlet Structure Checked
 Yes / No Water Level OK

Sed Pond Manifold

10 Sed Pond A Flow (scfh)
Sed Pond B Flow (scfh)

date: 7 JAN 2003
personnel: R. CASEY

- ° T7 alarm, well pumped out.
- ° wetland pond level high, completely frozen
- ° Sed pond B frozen as well as sample ports
4A & 4B

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Treatment System Checklist

230 CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
8,900 CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs)
*Note: call for refill @ 2,000 - 3,000lbs
OFF P1 Running Status (on/off)
615.8 T3 Water Elevation
6.9 T3 pH
39.1 T3 Temperature
ON P4A Running Status (on/off)
3 P4A Pressure Gauge (normal range = 10psi)
615.8 T6 Water Elevation
OFF P4B Running Status (on/off)
615.2 T7 Water Elevation
ON P7 Running Status (on/off)

date: 7 JAN 2003
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Field sampling

		<u>Standard</u>
<u>0.20</u>	P4A Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.31</u>	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.02</u>	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.03</u>	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.00</u>	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.01</u>	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>6.97</u>	pH Sed Pond A	
<u>7.31</u>	pH Sed Pond B	
<u>7.77</u>	pH Wetland	

date: 7 JAN 2003
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Checklist

- Yes / No Wet Well Pump Station Checked
 Yes / No T3 Pressure Transducer Cleaned
 Yes / No T3 pH Probe Cleaned
- } per Chap

P4A / P4B Pump Station

- Yes / No Water in Station
 Yes / No Pumped out?
 Yes / No P6 Pressure Transducer Cleaned
 Yes / No P7 Pressure Transducer Cleaned
- } per Chap

Zero Valance Tank

- Yes / No Outlet Structure Checked
 Yes / No Water Level OK

Sed Pond Manifold

- 10 Sed Pond A Flow (scfh)
10 Sed Pond B Flow (scfh)

date: 15 JAN 2004
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Treatment System Checklist

225 CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
5,100 CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs)
*Note: call for refill @ 2,000 - 3,000lbs
OFF P1 Running Status (on/off)
615.8 T3 Water Elevation
6.5 T3 pH
41.9 T3 Temperature
ON P4A Running Status (on/off)
3.5 P4A Pressure Gauge (normal range = 10psi)
615.9 T6 Water Elevation
ON P4B Running Status (on/off)
615.2 T7 Water Elevation
ON P7 Running Status (on/off)

date: 15 JAN 2004
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Field sampling

	<u>Standard</u>
<u>0.12</u> P4A Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.25</u> P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.01</u> P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.02</u> P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.00</u> P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.01</u> P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>6.86</u> pH Sed Pond A	
<u>7.01</u> pH Sed Pond B	
<u>6.99</u> pH Wetland	

date: 15 JAN 2004
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Checklist

Yes / No Wet Well Pump Station Checked

Yes / No T3 Pressure Transducer Cleaned

Yes / No T3 pH Probe Cleaned

P4A / P4B Pump Station

Yes / No Water in Station

Yes / No Pumped out?

Yes / No P6 Pressure Transducer Cleaned

Yes / No P7 Pressure Transducer Cleaned

Zero Valance Tank

Yes / No Outlet Structure Checked

Yes / No Water Level OK

Sed Pond Manifold

10 Sed Pond A Flow (scfh)

10 Sed Pond B Flow (scfh)

date: 22 JAN 2004
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Treatment System Checklist

229 CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
1,900 CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs)
*Note: call for refill @ 2,000 - 3,000lbs
OFF P1 Running Status (on/off)
615.7 T3 Water Elevation
6.7 T3 pH
38.1 T3 Temperature
OFF P4A Running Status (on/off)
3.0 P4A Pressure Gauge (normal range = 10psi)
615.9 T6 Water Elevation
OFF P4B Running Status (on/off)
615.0 T7 Water Elevation
ON P7 Running Status (on/off)

date: 22 JAN 2004
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Checklist

Yes / No Wet Well Pump Station Checked

Yes / No T3 Pressure Transducer Cleaned

Yes / No T3 pH Probe Cleaned

P4A / P4B Pump Station

Yes / No Water in Station

Yes / No Pumped out?

Yes / No P6 Pressure Transducer Cleaned

Yes / No P7 Pressure Transducer Cleaned

Zero Valance Tank

Yes / No Outlet Structure Checked

Yes / No Water Level OK

Sed Pond Manifold

10 Sed Pond A Flow (scfh)

10 Sed Pond B Flow (scfh)

date: 17 FEB 2004
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Treatment System Checklist

225 CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
4,500 CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs)
*Note: call for refill @ 2,000 - 3,000lbs
OFF P1 Running Status (on/off)
615.8 T3 Water Elevation
6.65 T3 pH
41.0 T3 Temperature
OFF P4A Running Status (on/off)
2.5 P4A Pressure Gauge (normal range = 10psi)
615.9 T6 Water Elevation
OFF P4B Running Status (on/off)
615.1 T7 Water Elevation
ON P7 Running Status (on/off)

date: 17 FEB 2004
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Field sampling

<u>0.16</u>	P4A Hexavalent, Chromium Concentration (mg/L)	Standard (0.011 mg/L)
<u>0.19</u>	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.02</u>	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.03</u>	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.00</u>	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.01</u>	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)

pH Sed Pond A

pH Sed Pond B

pH Wetland

date: 16 FEB 2004
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Checklist

Yes / No Wet Well Pump Station Checked

Yes / No T3 Pressure Transducer Cleaned

Yes / No T3 pH Probe Cleaned

P4A / P4B Pump Station

Yes / No Water in Station

Yes / No Pumped out?

Yes / No P6 Pressure Transducer Cleaned

Yes / No P7 Pressure Transducer Cleaned

Zero Valance Tank

Yes / No Outlet Structure Checked

Yes / No Water Level OK

Sed Pond Manifold

10 Sed Pond A Flow (scfh)

10 Sed Pond B Flow (scfh)

} Both turned down to 7 scfh

date: 25 FEB 2004
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Treatment System Checklist

233 CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
1,600 CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs)
*Note: call for refill @ 2,000 - 3,000lbs
OFF P1 Running Status (on/off)
615.7 T3 Water Elevation
6.5 T3 pH
40.5 T3 Temperature
OFF P4A Running Status (on/off)
3 P4A Pressure Gauge (normal range = 10psi)
616.1 T6 Water Elevation
OFF P4B Running Status (on/off)
615.0 T7 Water Elevation
ON P7 Running Status (on/off)

date: 26 FEB 2004
personnel: R. CASEY

° TANKED FILLED TO 12,000 lbs.

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Field sampling

	<u>Standard</u>
P4A Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)

pH Sed Pond A

pH Sed Pond B

pH Wetland

date: 26 FEB 2004
personnel: R. CALOY

NO FIELD DATA COLLECTED

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Checklist

Yes / No Wet Well Pump Station Checked

Yes / No T3 Pressure Transducer Cleaned

Yes / No T3 pH Probe Cleaned

P4A / P4B Pump Station

Yes / No Water in Station

Yes / No Pumped out?

Yes / No P6 Pressure Transducer Cleaned

Yes / No P7 Pressure Transducer Cleaned

Zero Valance Tank

Yes / No Outlet Structure Checked

Yes / No Water Level OK

Sed Pond Manifold

$\frac{7}{7}$ Sed Pond A Flow (scfh)

$\frac{7}{7}$ Sed Pond B Flow (scfh)

} turned back up to 10 scfh
due to elevated pH

date: 16 MARCH 2004
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Treatment System Checklist

225 CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
4,500 CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs)
*Note: call for refill @ 2,000 - 3,000lbs
OFF P1 Running Status (on/off)
615.8 T3 Water Elevation
6.7 T3 pH
39.6 T3 Temperature
OFF P4A Running Status (on/off)
2.5 P4A Pressure Gauge (normal range = 10psi)
615.7 T6 Water Elevation
OFF P4B Running Status (on/off)
615.0 T7 Water Elevation
ON P7 Running Status (on/off)

date: 16 MARCH 2004
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Field sampling

		<u>Standard</u>
<u>0.19</u>	P4A Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.70</u>	P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.00</u>	P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.01</u>	P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>0.00</u>	P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
<u>0.01</u>	P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)
<u>6.88</u>	pH Sed Pond A	
<u>7.89</u>	pH Sed Pond B	
<u>8.48</u>	pH Wetland	

date: 16 MARCH 2004
personnel: R. CASEY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Checklist

Yes / No Wet Well Pump Station Checked

Yes / No T3 Pressure Transducer Cleaned

Yes / No T3 pH Probe Cleaned

P4A / P4B Pump Station

Yes / No Water in Station

Yes / No Pumped out?

Yes / No P6 Pressure Transducer Cleaned

Yes / No P7 Pressure Transducer Cleaned

Zero Valance Tank

Yes / No Outlet Structure Checked

Yes / No Water Level OK

Sed Pond Manifold

0 Sed Pond A Flow (scfh)

Sed Pond B Flow (scfh)

date: 25 MAR 2004
personnel: R. CRSEY

• System down due to low CO₂ level

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Treatment System Checklist

0 CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs)
*Note: call for refill @ 2,000 - 3,000lbs

OFF P1 Running Status (on/off)

615.7 T3 Water Elevation

7.0 T3 pH

T3 Temperature

OFF P4A Running Status (on/off)

2.5 P4A Pressure Gauge (normal range = 10psi)

615.6 T6 Water Elevation

ON P4B Running Status (on/off)

615.0 T7 Water Elevation

ON P7 Running Status (on/off)

date: R. CASEY
personnel: 25 MAR 2004

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Field sampling

	<u>Standard</u>
P4A Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
P4A Total Chromium Concentration (mg/L)	(0.05 mg/L)
P4B Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
P4B Total Chromium Concentration (mg/L)	(0.05 mg/L)
P7 Hexavalent, Chromium Concentration (mg/L)	(0.011 mg/L)
P7 Total Chromium Concentration (mg/L)	(0.05 mg/L)

pH Sed Pond A

pH Sed Pond B

6.41 pH Wetland

date: 25 MAR 2004
personnel: R. CASEY

• NO FIELD DATA COLLECTED SAMPLES FOR LABORATORY ANALYSIS COLLECTED @ 1140'

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Treatment System Checklist

 CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)

3,700 lb CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs) → tank filled to
*Note: call for refill @ 2,000 - 3,000lbs 12,000 lbs

ON P1 Running Status (on/off)

617.8 T3 Water Elevation

7.0 T3 pH

50.0 T3 Temperature

OFF P4A Running Status (on/off)

NA P4A Pressure Gauge (normal range = 10psi)

615.6 T6 Water Elevation

OFF P4B Running Status (on/off)

615.3 T7 Water Elevation

ON P7 Running Status (on/off)

date: 16 APR 2004
personnel: R. CASOY

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

Checklist

Yes / No Wet Well Pump Station Checked

Yes / No T3 Pressure Transducer Cleaned

Yes / No T3 pH Probe Cleaned

P4A / P4B Pump Station

Yes / No Water in Station → 12" from top.

Yes / No Pumped out?

Yes / No P6 Pressure Transducer Cleaned

Yes / No P7 Pressure Transducer Cleaned

Zero Valance Tank

Yes / No Outlet Structure Checked

Yes / No Water Level OK

Sed Pond Manifold

$\frac{5}{7}$ Sed Pond A Flow (scfh) → turned up to 7

Sed Pond B Flow (scfh)

date:
personnel:

Airco Parcel
Groundwater Collection and Treatment System
Niagara Falls, New York

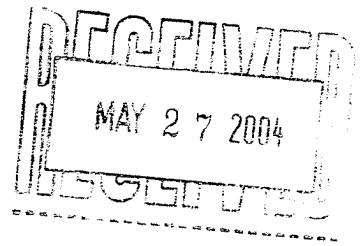
Treatment System Checklist

221 CO2 Storage Tank Pressure (Normal Range = 220 - 235psi)
1,750 CO2 Storage Liquid Level (Normal Range = 2,000 - 12,000lbs)
*Note: call for refill @ 2,000 - 3,000lbs
ON P1 Running Status (on/off)
615.8 T3 Water Elevation
6.49 T3 pH
45.1 T3 Temperature
OFF P4A Running Status (on/off)
3 psi P4A Pressure Gauge (normal range = 10psi)
616.0 T6 Water Elevation
ON P4B Running Status (on/off)
612.7 T7 Water Elevation
OFF P7 Running Status (on/off)

date: 9 DEC 2003
personnel: R. CASEY

Attachment G

Laboratory Analytical Results for Groundwater Collection and Treatment System Discharge Sampling



Scott Graham
 EA Engineering, Science and Technology
 6731 Collamer Road
 East Syracuse, NY 13057-9759

Phone: (315) 431-4610
 FAX: (315) 431-4280

Laboratory Analysis Report

For

EA Engineering, Science and Technology

Client Project ID:

Witmer Rd. Landfill

LSL Project ID: **0405657**

Receive Date/Time: 04/16/04 16:47

Project Received by: ALH

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody document submitted with these samples is considered by LSL to be an appendix of this report and may contain specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

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This report was reviewed by:

Chonda Water OC Date: 5/4/04
 Life Science Laboratories, Inc.

A copy of this report was sent to:

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: WRL-EFF1 - 041604 **LSL Sample ID:** 0405657-001
Location: Witmer Rd. Landfill
Sampled: 04/16/04 13:15 **Sampled By:** RSC
Sample Matrix: NPW

Analytical Method

Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 150.1 pH					
pH	7.8	Std Units		5/3/04 16:55	GIS
pH Measurement Temperature	25	Degrees C			
(1) EPA 160.2 Total Suspended Solids					
Total Suspended Solids @ 103-105 C	9.5	mg/l		4/20/04	MM
(1) EPA 200.7 Total Metals					
Barium	<0.2	mg/l	4/22/04	4/20/04	PEF
Chromium	<0.01	mg/l	4/22/04	4/20/04	PEF
Copper	<0.01	mg/l	4/22/04	4/20/04	PEF
Iron	0.38	mg/l	4/22/04	4/20/04	PEF
Nickel	<0.01	mg/l	4/22/04	4/20/04	PEF
Selenium	<0.01	mg/l	4/22/04	4/20/04	PEF
Thallium	<0.01	mg/l	4/22/04	4/20/04	PEF
Zinc	0.014	mg/l	4/22/04	4/20/04	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	1.8	mg/l		4/28/04	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	3.2	mg/l	4/26/04	4/27/04	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	<4	mg/l		4/16/04 21:05	MM
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	0.0045	mg/l	4/22/04	4/27/04	DWK
(1) EPA 601 Halocarbons by 624(Partial List)					
1,1-Dichloroethane	<1	ug/l		4/25/04	BD
Trichloroethene	<1	ug/l		4/25/04	BD
Surrogate (Tol-d8)	117	%R		4/25/04	BD
Surrogate (4-BFB)	116	%R		4/25/04	BD
Surrogate (1,2-DCA-d4)	96	%R		4/25/04	BD
(1) EPA Method 300.0 A					
Nitrate as N	0.23	mg/l		4/16/04 19:54	RAF
Nitrite as N	<0.1	mg/l		4/16/04 19:54	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	12	mg/l		4/26/04	DWK
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	0.013	mg/l		4/16/04 21:30	KBB
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	470	mg/l		4/20/04	MM

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: Trip Blank
Location: Witmer Rd. Landfill
Sampled: 04/16/04 0:00
Sample Matrix: TB

LSL Sample ID: 0405657-002

Sampled By: RSC

Analytical Method

Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 601 Halocarbons by 624(Partial List)					
1,1-Dichloroethane	<1	ug/l		4/25/04	BD
Trichloroethene	<1	ug/l		4/25/04	BD
Surrogate (Tol-d8)	117	%R		4/25/04	BD
Surrogate (4-BFB)	117	%R		4/25/04	BD
Surrogate (1,2-DCA-d4)	98	%R		4/25/04	BD

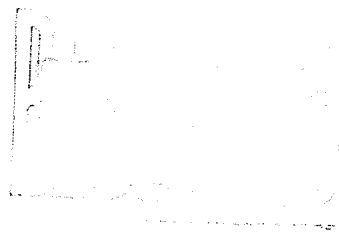


SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS
8/14/02

<u>Method</u>	<u>Surrogate(s)</u>	<u>Water Limits, %R</u>	<u>SHW Limits, %R</u>
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	80-120	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	18-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Dodecane	40-110	40-110
DOH 310-14	Dodecane	40-110	40-110
DOH 310-15	Dodecane	40-110	40-110
DOH 310-34*	4-BFB	50-150	50-150
8015M_GRO*	4-BFB	50-150	50-150
8015M_DRO*	Terphenyl-d14	50-150	50-150

*Run by GC/MS.

Units Key:	
ug/l	= microgram per liter
ug/kg	= microgram per kilogram
mg/l	= milligram per liter
mg/kg	= milligram per kilogram
%R	= Percent Recovery



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Laboratory Analysis Report

For

EA Engineering, Science and Technology

LSL Project ID: 0404327

Receive Date/Time: 03/26/04 8:54

Project Received by: GS

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This report was reviewed by:

Yvonda Waters AL

Date:

4/9/04

Life Science Laboratories, Inc.

A copy of this report was sent to:

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID:	WRL-EFF7 032504	LSL Sample ID:	0404327-001
Location:	Witmer Rd. Landfill		
Sampled:	03/25/04 11:40	Sampled By:	RSC
Sample Matrix:	NPW		

Analytical Method	Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) Electronic Report Generation	Report Fee					
(1) EPA 150.1 pH	pH	7.4	Std. Units			
	pH Measurement Temperature	25	Degrees C		3/26/04 09:45	DSB
<i>NYS DOH ELAP specifications require pH to be measured within one hour of sample collection.</i>						
(1) EPA 160.2 Total Suspended Solids	Total Suspended Solids @ 103-105 C	14	mg/l		3/29/04	MM
(1) EPA 200.7 Total Metals	Barium	<0.2	mg/l	3/28/04	3/30/04	PEF
	Chromium	<0.01	mg/l	3/28/04	3/30/04	PEF
	Copper	<0.01	mg/l	3/28/04	3/30/04	PEF
	Iron	7.6	mg/l	3/28/04	3/30/04	PEF
	Nickel	<0.01	mg/l	3/28/04	3/30/04	PEF
	Selenium	0.015	mg/l	3/28/04	3/30/04	PEF
	Thallium	0.012	mg/l	3/28/04	3/30/04	PEF
	Zinc	<0.01	mg/l	3/28/04	3/30/04	PEF
(1) EPA 350.1 Ammonia	Ammonia as N	3.0	mg/l		4/7/04	DRB
(1) EPA 351.2 TKN as N	Total Kjeldahl Nitrogen	6.4	mg/l	4/7/04	4/8/04	DRB
(1) EPA 405.1 BOD-5	Biochemical Oxygen Demand, 5 Day	12	mg/l		3/26/04 20:02	MM/KB B
(1) EPA 420.1 Recoverable Phenolics LL	Phenolics, Total Recoverable	0.013	mg/l	4/8/04	4/8/04	DWK
(1) EPA 601/602 Volatiles by 624	Benzene	<1	ug/l		4/2/04	BD
	Bromodichloromethane	<1	ug/l		4/2/04	BD
	Bromoform	<1	ug/l		4/2/04	BD
	Bromomethane	<1	ug/l		4/2/04	BD
	Carbon tetrachloride	<1	ug/l		4/2/04	BD
	Chlorobenzene	<1	ug/l		4/2/04	BD
	Chloroethane	<1	ug/l		4/2/04	BD
	2-Chloroethylvinyl ether	<10	ug/l		4/2/04	BD
	Chloroform	<1	ug/l		4/2/04	BD
	Chloromethane	<1	ug/l		4/2/04	BD
	Dibromochloromethane	<1	ug/l		4/2/04	BD
	1,2-Dichlorobenzene	<1	ug/l		4/2/04	BD
	1,3-Dichlorobenzene	<1	ug/l		4/2/04	BD
	1,4-Dichlorobenzene	<1	ug/l		4/2/04	BD
	Dichlorodifluoromethane	<1	ug/l		4/2/04	BD
	1,1-Dichloroethane	<1	ug/l		4/2/04	BD
	1,2-Dichloroethane	<1	ug/l		4/2/04	BD
	1,1-Dichloroethene	<1	ug/l		4/2/04	BD

Life Science Laboratories, Inc.

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: WRL-EFF7 032504 **LSL Sample ID:** 0404327-001
Location: Witmer Rd. Landfill
Sampled: 03/25/04 11:40 **Sampled By:** RSC
Sample Matrix: NPW

Analytical Method

Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 601/602 Volatiles by 624					
trans-1,2-Dichloroethene	<1	ug/l		4/2/04	BD
1,2-Dichloropropane	<1	ug/l		4/2/04	BD
cis-1,3-Dichloropropene	<1	ug/l		4/2/04	BD
trans-1,3-Dichloropropene	<1	ug/l		4/2/04	BD
Ethyl benzene	<1	ug/l		4/2/04	BD
Methylene chloride	<1	ug/l		4/2/04	BD
Vinyl chloride	<1	ug/l		4/2/04	BD
Tetrachloroethene	<1	ug/l		4/2/04	BD
Toluene	<1	ug/l		4/2/04	BD
1,1,1-Trichloroethane	<1	ug/l		4/2/04	BD
Trichloroethene	<1	ug/l		4/2/04	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		4/2/04	BD
1,1,1,2-Tetrachloroethane	<1	ug/l		4/2/04	BD
Surrogate (1,2-DCA-d4)	83	%R		4/2/04	BD
Xylenes (Total)	<1	ug/l		4/2/04	BD
Surrogate (Tol-d8)	103	%R		4/2/04	BD
Surrogate (4-BFB)	97	%R		4/2/04	BD
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		3/26/04 16:02	RAF
Nitrite as N	<0.1	mg/l		3/26/04 16:02	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	14	mg/l		4/7/04	DWK
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		3/26/04 09:10	DWK
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	850	mg/l		3/30/04	MM

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: Trip Blank LSL Sample ID: 0404327-002
 Location: Sampled By: RSC
 Sampled: 03/25/04 0:00
 Sample Matrix: TB

Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
<i>(1) EPA 601/602 Volatiles by 624</i>					
Benzene	<1	ug/l		4/2/04	BD
Bromodichloromethane	2.4	ug/l		4/2/04	BD
<i>Laboratory contamination is suspected.</i>					
Bromoform	<1	ug/l		4/2/04	BD
Bromomethane	<1	ug/l		4/2/04	BD
Carbon tetrachloride	<1	ug/l		4/2/04	BD
Chlorobenzene	<1	ug/l		4/2/04	BD
Chloroethane	<1	ug/l		4/2/04	BD
2-Chloroethylvinyl ether	<10	ug/l		4/2/04	BD
Chloroform	3.9	ug/l		4/2/04	BD
<i>Laboratory contamination is suspected.</i>					
Chloromethane	<1	ug/l		4/2/04	BD
Dibromochloromethane	1.1	ug/l		4/2/04	BD
<i>Laboratory contamination is suspected.</i>					
1,2-Dichlorobenzene	<1	ug/l		4/2/04	BD
1,3-Dichlorobenzene	<1	ug/l		4/2/04	BD
1,4-Dichlorobenzene	<1	ug/l		4/2/04	BD
Dichlorodifluoromethane	<1	ug/l		4/2/04	BD
1,1-Dichloroethane	<1	ug/l		4/2/04	BD
1,2-Dichloroethane	<1	ug/l		4/2/04	BD
1,1-Dichloroethene	<1	ug/l		4/2/04	BD
trans-1,2-Dichloroethene	<1	ug/l		4/2/04	BD
1,2-Dichloropropane	<1	ug/l		4/2/04	BD
cis-1,3-Dichloropropene	<1	ug/l		4/2/04	BD
trans-1,3-Dichloropropene	<1	ug/l		4/2/04	BD
Ethyl benzene	<1	ug/l		4/2/04	BD
Methylene chloride	<1	ug/l		4/2/04	BD
Vinyl chloride	<1	ug/l		4/2/04	BD
Tetrachloroethene	<1	ug/l		4/2/04	BD
Toluene	<1	ug/l		4/2/04	BD
1,1,1-Trichloroethane	<1	ug/l		4/2/04	BD
Trichloroethene	<1	ug/l		4/2/04	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		4/2/04	BD
1,1,1,2-Tetrachloroethane	<1	ug/l		4/2/04	BD
Surrogate (1,2-DCA-d4)	83	%R		4/2/04	BD
Xylenes (Total)	<1	ug/l		4/2/04	BD
Surrogate (Tol-d8)	105	%R		4/2/04	BD
Surrogate (4-BFB)	96	%R		4/2/04	BD



SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS
8/14/02

<u>Method</u>	<u>Surrogate(s)</u>	<u>Water Limits, %R</u>	<u>SHW Limits, %R</u>
EPA 504	TCMX		
EPA 508	DCB	80-120	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	70-130	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	80-120	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	80-120	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Dodecane	40-110	40-110
DOH 310-14	Dodecane	40-110	40-110
DOH 310-15	Dodecane	40-110	40-110
DOH 310-34*	4-BFB	50-150	50-150
8015M_GRO*	4-BFB	50-150	50-150
8015M_DRO*	Terphenyl-d14	50-150	50-150

*Run by GC/MS.

Units Key:	ug/l = microgram per liter
	ug/kg = microgram per kilogram
	mg/l = milligram per liter
	mg/kg = milligram per kilogram
	%R = Percent Recovery



Life Science Laboratories, Inc.

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Client: EA Engineering Science & Tech.

Phone # 431-4610

Address: 6731 Collamer Rd.

Telefax # 431-4280

E. Syracuse, NY 13057

Chain of Custody Record

Contact Person: **Scott Graham**

LSL Project #: **0404327**
EA Eng

Client's Site I.D.: **Witmer Rd. Landfill**

Client's Project I.D.:

LSL Sample Number	Client's Sample Identifications	Authorization:			Type	Matrix	Preserv. Added	Containers #	size/type	Analyses	Preserv. Check
		Sample Date	Sample Time	grab comp.							
001 A	WEL-EPF7-030504	25 Mar 04	1140	X	GW	H2SO4	1	500 ml	TKN, NH3, COD		
B						None	1	500 ml	BOD, TSS, pH, NO3, NO2, Cr+6		
C						HNO3	1	500 ml	Ba, Cr, Cu, Fe, Ni, Se, Tl, Zn		
D E						HCL	2	40 ml	601/602		
F						H2SO4	1	Liter(g)	Phenols		
002 AD						HCL	1	40 ml	Trip Blank		

Notes and Hazard identifications:

Custody Transfers

Received By:	Date	Time
Sampled By: <i>Robert S. Conroy</i>		
Relinquished By: <i>[Signature]</i>		
Relinquished By: <i>[Signature]</i>	03-26-04	08:54
Received for Lab By: <i>[Signature]</i>		
Received By:		
Received for Lab By:		
Received By:		

Shipment Method: *DEP TRC*



Scott Graham
 EA Engineering, Science and Technology
 6731 Collamer Road
 East Syracuse, NY 13057-9759

Phone: (315) 431-4610
 FAX: (315) 431-4280

Laboratory Analysis Report

For

EA Engineering, Science and Technology

Client Project ID:
 12040.87.0003

LSL Project ID: 0402253

Receive Date/Time: 02/17/04 13:08

Project Received by: DSB

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody document submitted with these samples is considered by LSL to be an appendix of this report and may contain specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

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This report was reviewed by:

galeg sutton QAO
 Life Science Laboratories, Inc

Date:

3-3-04

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID:	WRL-EFF7-0204	LSL Sample ID:	0402253-001
Location:	Witmer Rd. Landfill		
Sampled:	02/17/04 10:00	Sampled By:	RSC
Sample Matrix:	NPW		

Analytical Method Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
<i>(1) EPA 150.1 pH</i>					
pH	6.3	Std. Units		2/18/04 09:00	DSB
pH Measurement Temperature	25	Degrees C		2/18/04 09:00	DSB
<i>NYS DOH ELAP specifications require pH to be measured within one hour of sample collection.</i>					
<i>(1) EPA 160.2 Total Suspended Solids</i>					
Total Suspended Solids @ 103-105 C	110	mg/l		2/19/04	MM
<i>(1) EPA 200.7 Total Metals</i>					
Barium	<0.2	mg/l	2/20/04	2/20/04	PEF
Chromium	0.012	mg/l	2/20/04	2/20/04	PEF
Copper	<0.01	mg/l	2/20/04	2/20/04	PEF
Iron	64	mg/l	2/20/04	2/20/04	PEF
Nickel	<0.01	mg/l	2/20/04	2/20/04	PEF
Selenium	<0.01	mg/l	2/20/04	2/20/04	PEF
Thallium	<0.01	mg/l	2/20/04	2/20/04	PEF
Zinc	0.016	mg/l	2/20/04	2/20/04	PEF
<i>(1) EPA 350.1 Ammonia</i>					
Ammonia as N	4.7	mg/l		2/23/04	DRB
<i>(1) EPA 351.2 TKN as N</i>					
Total Kjeldahl Nitrogen	6.0	mg/l	2/25/04	2/26/04	DRB
<i>(1) EPA 405.1 BOD-5</i>					
Biochemical Oxygen Demand, 5 Day	16	mg/l		2/18/04 15:50	MM
<i>(1) EPA 420.1 Recoverable Phenolics LL</i>					
Phenolics, Total Recoverable	0.022	mg/l	3/1/04	3/2/04	DWK
<i>(1) EPA 601/602 Volatiles by 624</i>					
Benzene	<1	ug/l		2/23/04	BD
Bromodichloromethane	<1	ug/l		2/23/04	BD
Bromoform	<1	ug/l		2/23/04	BD
Bromomethane	<1	ug/l		2/23/04	BD
Carbon tetrachloride	<1	ug/l		2/23/04	BD
Chlorobenzene	<1	ug/l		2/23/04	BD
Chloroethane	<1	ug/l		2/23/04	BD
2-Chloroethylvinyl ether	<10	ug/l		2/23/04	BD
Chloroform	<1	ug/l		2/23/04	BD
Chloromethane	<1	ug/l		2/23/04	BD
Dibromochloromethane	<1	ug/l		2/23/04	BD
1,2-Dichlorobenzene	<1	ug/l		2/23/04	BD
1,3-Dichlorobenzene	<1	ug/l		2/23/04	BD
1,4-Dichlorobenzene	<1	ug/l		2/23/04	BD
Dichlorodifluoromethane	<1	ug/l		2/23/04	BD
1,1-Dichloroethane	<1	ug/l		2/23/04	BD
1,2-Dichloroethane	<1	ug/l		2/23/04	BD
1,1-Dichloroethene	<1	ug/l		2/23/04	BD
trans-1,2-Dichloroethene	<1	ug/l		2/23/04	BD
1,2-Dichloropropane	<1	ug/l		2/23/04	BD
cis-1,3-Dichloropropene	<1	ug/l		2/23/04	BD

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: WRL-EFF7-0204 LSL Sample ID: 0402253-001
Location: Witmer Rd. Landfill
Sampled: 02/17/04 10:00 Sampled By: RSC
Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 601/602 Volatiles by 624					
trans-1,3-Dichloropropene	<1	ug/l		2/23/04	BD
Ethyl benzene	<1	ug/l		2/23/04	BD
Methylene chloride	<1	ug/l		2/23/04	BD
Vinyl chloride	<1	ug/l		2/23/04	BD
Tetrachloroethene	<1	ug/l		2/23/04	BD
Toluene	<1	ug/l		2/23/04	BD
1,1,1-Trichloroethane	<1	ug/l		2/23/04	BD
Trichloroethene	<1	ug/l		2/23/04	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		2/23/04	BD
1,1,1,2-Tetrachloroethane	<1	ug/l		2/23/04	BD
Surrogate (1,2-DCA-d4)	102	%R		2/23/04	BD
Xylenes (Total)	<1	ug/l		2/23/04	BD
Surrogate (Tol-d8)	110	%R		2/23/04	BD
Surrogate (4-BFB)	120	%R		2/23/04	BD
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		2/17/04 23:59	AMW
Nitrite as N	<0.1	mg/l		2/17/04 23:59	AMW
(1) HACH 8000 COD					
Chemical Oxygen Demand	40	mg/l		2/24/04	DWK
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		2/17/04 14:55	DWK

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: Trip Blank LSL Sample ID: 0402253-002

Location:

Sampled: 02/17/04 0:00 Sampled By: RSC

Sample Matrix: TB

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
<i>(1)</i> EPA 601/602 Volatiles by 624					
Benzene	<1	ug/l		2/23/04	BD
Bromodichloromethane	3.6	ug/l		2/23/04	BD
Bromoform	<1	ug/l		2/23/04	BD
Bromomethane	<1	ug/l		2/23/04	BD
Carbon tetrachloride	<1	ug/l		2/23/04	BD
Chlorobenzene	<1	ug/l		2/23/04	BD
Chloroethane	<1	ug/l		2/23/04	BD
2-Chloroethylvinyl ether	<10	ug/l		2/23/04	BD
Chloroform	3.3	ug/l		2/23/04	BD
Chloromethane	<1	ug/l		2/23/04	BD
Dibromochloromethane	2.0	ug/l		2/23/04	BD
1,2-Dichlorobenzene	<1	ug/l		2/23/04	BD
1,3-Dichlorobenzene	<1	ug/l		2/23/04	BD
1,4-Dichlorobenzene	<1	ug/l		2/23/04	BD
Dichlorodifluoromethane	<1	ug/l		2/23/04	BD
1,1-Dichloroethane	<1	ug/l		2/23/04	BD
1,2-Dichloroethane	<1	ug/l		2/23/04	BD
1,1-Dichloroethene	<1	ug/l		2/23/04	BD
trans-1,2-Dichloroethene	<1	ug/l		2/23/04	BD
1,2-Dichloropropane	<1	ug/l		2/23/04	BD
cis-1,3-Dichloropropene	<1	ug/l		2/23/04	BD
trans-1,3-Dichloropropene	<1	ug/l		2/23/04	BD
Ethyl benzene	<1	ug/l		2/23/04	BD
Methylene chloride	<1	ug/l		2/23/04	BD
Vinyl chloride	<1	ug/l		2/23/04	BD
Tetrachloroethene	<1	ug/l		2/23/04	BD
Toluene	<1	ug/l		2/23/04	BD
1,1,1-Trichloroethane	<1	ug/l		2/23/04	BD
Trichloroethylene	<1	ug/l		2/23/04	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		2/23/04	BD
1,1,1,2-Tetrachloroethane	<1	ug/l		2/23/04	BD
Surrogate (1,2-DCA-d4)	102	%R		2/23/04	BD
Xylenes (Total)	<1	ug/l		2/23/04	BD
Surrogate (Tol-d8)	109	%R		2/23/04	BD
Surrogate (4-BFB)	121	%R		2/23/04	BD

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Chain of Custody Record

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 Address: 6731 Collamer Rd. Telefax # 431-4280
 E. Syracuse, NY 13057

Contact Person: Scott Graham
 LSL Project #: 0402253
 EA Eng
 Client's Site I.D.: Witmer Rd. Landfill

LSL Sample Number	Client's Sample Identifications	Authorization:		Matrix	Preserv. Added	# Containers	Analyses	Preserv. Check
		Sample Date	Sample Time					
201 A	WLL-EFF7-0204	11 FEB 04	1000	GW	H2SO4	1	TKN, NH3, COD	
B	↓	↓	↓	↓	None	1	BOD, TSS, pH, NO3, NO2, Cr+6	
C	↓	↓	↓	↓	HNO3	1	Ba, Cr, Cu, Fe, Ni, Ni, Se, Ti, Zn	
DE	↓	↓	↓	↓	HCL	2	601/602	
F						1	Analyses	
007					HCL	4	Trip Blank	

Notes and Hazard identifications:

Custody Transfers:

Sampled By: ROBERT S. CASEY Received By:

Relinquished By:

Relinquished By: [Signature] Received for Lab By: D.G.F. 02-17-04 13:08 RCVD

Shipment Method: DROP OFF Samples Received Intact: 19°C



QUICK RESPONSE FAX OF LABORATORY RESULTS

1-22-04

Today's Date

PROJECT ID: **BOC Witmer Road**

TO:

COPY TO:

Robert S. Casey

EA Engineering, Science and Technology

(315) 431-4280

FROM:

LIFE SCIENCE LABORATORIES, INC.

LSL PROJECT ID:

0400285

NUMBER OF PAGES TRANSMITTED:
(INCLUDING COVER PAGE)

6

COMMENTS:

Thank you for the opportunity to be of service to you. We appreciate your business. If you need further assistance, please don't hesitate to contact us.

Need help with ...

Please Ask For ...

Questions About Your Results

The Quality Department

Price Quotations

The Client Services Department

Requests for Sample Kits or Scheduling Pickup of Samples

The Field Services Department

Status of Samples Currently Being Analyzed

The Technical Services Department

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If you did not receive all of the pages please contact us immediately at (315) 445-1105.

LIFE SCIENCE LABORATORIES, INC.
5854 Butternut Drive, E. Syracuse, NY 13057



Robert S. Casey
EA Engineering, Science and Technology
6731 Collamer Road
East Syracuse, NY 13057-9759

Phone: (315) 431-4610
FAX: (315) 431-4280
Authorization: 12040.87.0003

Laboratory Analysis Report

For

EA Engineering, Science and Technology

Client Project ID:

BOC Witmer Road

LSL Project ID: **0400285**

Receive Date/Time: 01/08/04 9:45

Project Received by: **DSB**

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Fax. (585) 554-6743
NYS DOH ELAP #11369

This report was reviewed by:

Gale A. Sutton QAP
Life Science Laboratories, Inc.

Date:

1-22-04

A copy of this report was sent to:

-- LABORATORY ANALYSIS REPORT --*EA Engineering, Science and Technology East Syracuse, NY*Sample ID: **WRL-EFF7-010703** LSL Sample ID: **0400285-001**

Location:

Sampled: 01/07/04 13:40 Sampled By: RC

Sample Matrix: NPW

Analytical Method	Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 150.1 pH	pH	7.5	Std. Units		1/8/04 12:30	DSB
	pH Measurement Temperature	25	Degrees C		1/8/04 12:30	DSB
<i>NYS DOH ELAP specifications require pH to be measured within one hour of sample collection.</i>						
(1) EPA 160.2 Total Suspended Solids	Total Suspended Solids @ 103-105 C	22	mg/l		1/12/04	MM
(1) EPA 200.7 Total Metals	Barium	<0.2	mg/l	1/8/04	1/9/04	PEF
	Chromium	<0.01	mg/l	1/8/04	1/9/04	PEF
	Copper	<0.01	mg/l	1/8/04	1/9/04	PEF
	Iron	6.5	mg/l	1/8/04	1/9/04	PEF
	Nickel	<0.01	mg/l	1/8/04	1/9/04	PEF
	Selenium	0.012	mg/l	1/8/04	1/9/04	PEF
	Thallium	<0.01	mg/l	1/8/04	1/9/04	PEF
	Zinc	0.011	mg/l	1/8/04	1/9/04	PEF
(1) EPA 350.1 Ammonia	Ammonia as N	3.3	mg/l		1/16/04	DRB
(1) EPA 351.2 TKN as N	Total Kjeldahl Nitrogen	4.2	mg/l	1/19/04	1/21/04	DRB
(1) EPA 405.1 BOD-5	Biochemical Oxygen Demand, 5 Day	8.4	mg/l		1/9/04 11:31	MM/AS H
(1) EPA 420.1 Recoverable Phenolics LL	Phenolics, Total Recoverable	0.013	mg/l	1/15/04	1/16/04	DWK
<i>A trace amount of this analyte was detected in the laboratory blank.</i>						
(1) EPA 601 Halocarbons by 624(Partial List)	1,1-Dichloroethane	<1	ug/l		1/10/04	BD
	Trichloroethene	<1	ug/l		1/10/04	BD
	Surrogate (Tol-d8)	108	%R		1/10/04	BD
	Surrogate (4-BFB)	118	%R		1/10/04	BD
	Surrogate (1,2-DCA-d4)	107	%R		1/10/04	BD
(1) EPA Method 300.0 A	Nitrate as N	0.20	mg/l		1/8/04 18:22	AMW
	Nitrite as N	<0.1	mg/l		1/8/04 18:22	AMW
(1) HACH 8000 COD	Chemical Oxygen Demand	10	mg/l		1/22/04	DWK
(1) SM 18 3500Cr-D Hexavalent Chromium	Chromium, Hexavalent	<0.01	mg/l		1/8/04 08:14	DWK
(1) SM18-2540C Total Dissolved Solids	Total Dissolved Solids @ 180 C	690	mg/l		1/13/04	MM

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: Trip Blank LSL Sample ID: 0400285-002
 Location:
 Sampled: 01/07/04 0:00 Sampled By: RC
 Sample Matrix: TB

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 601 Halocarbons by 624(Partial List)					
1,1-Dichloroethane	<1	ug/l		1/10/04	BD
Trichloroethene	<1	ug/l		1/10/04	BD
Surrogate (Tol-d8)	108	%R		1/10/04	BD
Surrogate (4-BFB)	122	%R		1/10/04	BD
Surrogate (1,2-DCA-d4)	107	%R		1/10/04	BD

**SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS**

6/14/02

<u>Method</u>	<u>Surrogate(s)</u>	<u>Water Limits, %R</u>	<u>SHW Limits, %R</u>
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 516.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	80-120	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Dodecane	40-110	40-110
DOH 310-14	Dodecane	40-110	40-110
DOH 310-15	Dodecane	40-110	40-110
DOH 310-34*	4-BFB	50-150	50-150
8015M_GRO*	4-BFB	50-150	50-150
8015M_DRO*	Terphenyl-d14	50-150	50-150

*Run by GC/MS.

Units Key:	
	ug/l = microgram per liter
	ug/kg = microgram per kilogram
	mg/l = milligram per liter
	mg/kg = milligram per kilogram
	%R = Percent Recovery



Life Science Laboratory CHAIN OF CUSTODY REC

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04/12/2005
EAL/eg

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City/State: EAST SYRACUSE, NY
Phone: 515 431 4610
Email: rcasey@east.apt
Client Project ID/Client Site ID

Zip: 13057
Fax: 315 431 4280

Authorization or P.O. #
12040.87.0003

Turnaround Time
 Normal
 14 DAY
 Pre-Authorized
 Next Day*
 2-Day*
 3-Day*
 7-Day*
 *Additional Charges may apply

Date Needed or Special Instructions:

Client's Sample Identifications	Sample Date	Sample Time	Sample Type	Grab/comp	Matrx	Preserv Added	Containers		Analyses	Preserv Check	LSL ID#
							#	size/type			
WRL-EFF7-010703	1 JAN 2005	1340	GRAB	GRAB	GRW	HCl	2	40 ml	COB/COB		001AB
						H ₂ SO ₄	1	500 ml	TKN, NH ₃ , COD		001C
						NONE	1	500 ml	BOD, TSS, TDS		d
						HNO ₃	1	500 ml	METALS: Ba, Cr, Se, Zn, Cu Fe, Ni, Ti		e
						NONE	1	8 oz.	PH		f
						NONE	1	8 oz.	Cr ⁶ , Nitrate, Nitrite		g
						H ₂ SO ₄	1	AMBER	Phenolics		h
						HCL	2	40ml			002AB
TRIP BLANK											

LSL USB ONLY

Client left with Original 48-DSB

Containers this C-O-C

*** All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner in PEN ONLY ***

Sampled By: Robert S. Casey
 Relinquished By: Robert Casey
 Relinquished By: Robert Casey
 Shipment Method: Drop off

Received By:
 Received By:
 Rec'd for Lab By: Robert Casey
 Received Intact: Y/N
 Date: 01-03-05
 Time: 09:45
 Sample Temp: 01C

Reg COC



Robert S. Casey
EA Engineering, Science and Technology
6731 Collamer Road
East Syracuse, NY 13057-9759

Phone: (315) 431-4610
FAX: (315) 431-4280
Authorization: PO# 12040.87

Laboratory Analysis Report

For

EA Engineering, Science and Technology

LSL Project ID: 0320451

Receive Date/Time: 12/31/03 8:54

Project Received by: CDG

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Fax (585) 554-6743
NYS DOH ELAP #11369

This report was reviewed by:

Yvonda Waters *QC*
Life Science Laboratories, Inc

Date:

1/15/04

A copy of this report was sent to:

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: WRL-EFF7-123003 LSL Sample ID: 0320451-001
 Location: Witner Rd. (BOC)
 Sampled: 12/30/03 12:30 Sampled By: RSC
 Sample Matrix: NPW

Analytical Method Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 150.1 pH					
pH	7.2	Std. Units		12/31/03 09:48	DSB
pH Measurement Temperature	25	Degrees C		12/31/03 09:48	DSB
<i>NYS DOH ELAP specifications require pH to be measured within one hour of sample collection.</i>					
(1) EPA 160.2 Total Suspended Solids					
Total Suspended Solids @ 103-105 C	30	mg/l		1/5/04	MM
(1) EPA 200.7 Total Metals					
Barium	<0.2	mg/l	1/5/04	1/5/04	PEF
Chromium	<0.01	mg/l	1/5/04	1/5/04	PEF
Copper	<0.01	mg/l	1/5/04	1/5/04	PEF
Iron	21	mg/l	1/5/04	1/5/04	PEF
Nickel	<0.01	mg/l	1/5/04	1/5/04	PEF
Selenium	<0.01	mg/l	1/5/04	1/5/04	PEF
Thallium	<0.01	mg/l	1/5/04	1/5/04	PEF
Zinc	0.016	mg/l	1/5/04	1/5/04	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	3.0	mg/l		1/9/04	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	2.3	mg/l	1/6/04	1/8/04	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	8.0	mg/l		12/31/03 15:31	MM
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	0.011	mg/l	1/13/04	1/14/04	DWK
<i>A trace amount of this analyte was detected in the laboratory blank.</i>					
(1) EPA 601 Halocarbons by 624(Partial List)					
1,1-Dichloroethane	<1	ug/l		1/8/04	BD
Trichloroethene	<1	ug/l		1/8/04	BD
Surrogate (Tol-d8)	112	%R		1/8/04	BD
Surrogate (4-BFB)	87	%R		1/8/04	BD
Surrogate (1,2-DCA-d4)	84	%R		1/8/04	BD
(1) EPA Method 300.0 A					
Nitrate as N	0.26	mg/l		12/31/03 17:57	AMW
Nitrite as N	<0.1	mg/l		12/31/03 17:57	AMW
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		12/31/03 11:31	DWK

-- LABORATORY ANALYSIS REPORT --*EA Engineering, Science and Technology East Syracuse, NY*

Sample ID: Trip Blank **LSL Sample ID:** 0320451-002
Location:
Sampled: 12/30/03 0:00 **Sampled By:**
Sample Matrix: TB

Analytical Method	Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(7) EPA 601 Halocarbons by 624(Partial List)						
	1,1-Dichloroethane	<1	ug/l		1/8/04	BD
	Trichloroethene	<1	ug/l		1/8/04	BD
	Surrogate (Tol-d8)	112	%R		1/8/04	BD
	Surrogate (4-BFB)	86	%R		1/8/04	BD
	Surrogate (1,2-DCA-d4)	83	%R		1/8/04	BD



SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

8/14/02

<u>Method</u>	<u>Surrogate(s)</u>	<u>Water Limits, %R</u>	<u>SHW Limits, %R</u>
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	80-120	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Dodecane	40-110	40-110
DOH 310-14	Dodecane	40-110	40-110
DOH 310-15	Dodecane	40-110	40-110
DOH 310-34*	4-BFB	50-150	50-150
8015M_GRO*	4-BFB	50-150	50-150
8015M_DRO*	Terphenyl-d14	50-150	50-150

*Run by GC/MS.

Units Key:	ug/l = microgram per liter
	ug/kg = microgram per kilogram
	mg/l = milligram per liter
	mg/kg = milligram per kilogram
	%R = Percent Recovery

Life Science Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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 Wayland
 Phone: (859) 728-2711
 Fax: (859) 728-2711

LSL Tier Lab
 11 St.
 4727
 Phone: (859) 264-0000
 Fax: (859) 268-0906

Report Address:

Name: Robert S. Casey
 Company: EA Science
 Street: 6731 Collierville Rd.
 City/State: East Syracuse, NY
 Phone: 315 431 4610
 Email: rcasey@east.com

Zip: 13057
 Fax: 315 431 4280

Client Project ID/Client Site ID

90C / Witmer Road.

Client's Sample Identifications	Sample Date	Sample Time	Sample Type	grab/comp	Matrix	Preserv Added	Containers		Analytes	Preserv Check	LSL ID#
							#	size/type			
WAL-EFD7-123003	30 DEC 2003	12:30	Grab		gw	HCL	2	40 ml	G10/020		021AB
						NONE	1	0 oz.	pH		C
						NONE	1	0 oz	Sr+6, Nitrate, Nitrite		D
						NONE	1	500ml	30P, TSS		E
						H2SO4	1	amber	pharmatics		F
						HNO3	1	500ml	metals		G
						H2SO4	1	500ml	TKN, NH3		H
											021AD

Turnaround Time
 Normal 14 DAY
 Pre-Authorized Next Day* 2-Day* 3-Day* 7-Day*
 *Additional Charges may apply

Date Needed or Special Instructions:

Authorization or P.O.# 12040.87.

Custody Transfers
 Received By: Robert S. Casey
 Received By: Robert S. Casey
 Rec'd for Lab By: Robert S. Casey
 Received Intact: Y N

Sample Temp: 12-3 -03 08:54 RCVD

Container this C-O-C
 *** All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner in PEN ONLY ***

Reg CCC





Robert Casey
EA Engineering, Science and Technology
6731 Collamer Road
East Syracuse, NY 13057-9759

Phone: (315) 431-4610
FAX: (315) 431-4280
Authorization: PO# 12040.69

Laboratory Analysis Report

For

EA Engineering, Science and Technology

LSL Project ID: 0320265

Receive Date/Time: 12/24/03 8:45

Project Received by: GS

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Fax. (585) 554-6743
NYS DOH ELAP #11369

This report was reviewed by:


Life Science Laboratories, Inc

Date:

1-16-04

A copy of this report was sent to:

Page 1 of 3

Date Printed: 1/16/04

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: WRL-EFF7-122303 LSL Sample ID: 0320265-001

Location:

Sampled: 12/23/03 12:50 Sampled By: RC

Sample Matrix: NPW

Analytical Method Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(7) EPA 150.1 pH					
pH	6.8	Std. Units		12/24/03 09:57	DSB
pH Measurement Temperature	25	Degrees C		12/24/03 09:57	DSB
<i>NYS DOH ELAP specifications require pH to be measured within one hour of sample collection.</i>					
(7) EPA 160.2 Total Suspended Solids					
Total Suspended Solids @ 103-105 C	10	mg/l		12/29/03	MM
(1) EPA 200.7 Total Metals					
Barium	<0.2	mg/l	12/31/03	12/31/03	PEF
Chromium	<0.01	mg/l	12/31/03	12/31/03	PEF
Copper	<0.01	mg/l	12/31/03	12/31/03	PEF
Iron	7.8	mg/l	12/31/03	12/31/03	PEF
Nickel	<0.01	mg/l	12/31/03	12/31/03	PEF
Selenium	<0.01	mg/l	12/31/03	12/31/03	PEF
Thallium	<0.01	mg/l	12/31/03	12/31/03	PEF
Zinc	<0.01	mg/l	12/31/03	12/31/03	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	3.6	mg/l		1/7/04	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	3.2	mg/l	1/6/04	1/8/04	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	<10	mg/l		12/24/03 12:51	MM
<i>This result should be considered an estimate due to low oxygen depletion.</i>					
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable			1/5/04		DWK
<i>Due to unexpectedly high carry over from a sample associated with this analytical batch, a result could not be quantitated. Subsequent analysis was not possible due to inadequate sample quantity</i>					
(1) EPA 601 Halocarbons by 624(Partial List)					
1,1-Dichloroethane	<1	ug/l		1/2/04	BD
Trichloroethene	<1	ug/l		1/2/04	BD
Surrogate (Tol-d8)	111	%R		1/2/04	BD
Surrogate (4-BFB)	110	%R		1/2/04	BD
Surrogate (1,2-DCA-d4)	102	%R		1/2/04	BD
(1) EPA Method 300.0 A					
Nitrate as N	0.25	mg/l		12/24/03 11:34	RAF
Nitrite as N	<0.1	mg/l		12/24/03 11:34	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	23	mg/l		1/2/04	DWK
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		12/24/03 10:18	DWK

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: Trip Blank LSL Sample ID: 0320265-002

Location:

Sampled: 12/23/03 0:00 Sampled By:

Sample Matrix: TB

Analytical Method Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 601 Halocarbons by 624(Partial List)					
1,1-Dichloroethane	<1	ug/l		1/2/04	BD
Trichloroethene	<1	ug/l		1/2/04	BD
Surrogate (Tol-d8)	111	%R		1/2/04	BD
Surrogate (4-BFB)	109	%R		1/2/04	BD
Surrogate (1,2-DCA-d4)	103	%R		1/2/04	BD



SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

8/14/02

<u>Method</u>	<u>Surrogate(s)</u>	<u>Water Limits, %R</u>	<u>SHW Limits, %R</u>
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	80-120	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8280	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Dodecane	40-110	40-110
DOH 310-14	Dodecane	40-110	40-110
DOH 310-15	Dodecane	40-110	40-110
DOH 310-34*	4-BFB	50-150	50-150
8015M_GRO*	4-BFB	50-150	50-150
8015M_DRO*	Terphenyl-d14	50-150	50-150

*Run by GC/MS.

Units Key:	ug/l = microgram per liter
	ug/kg = microgram per kilogram
	mg/l = milligram per liter
	mg/kg = milligram per kilogram
	%R = Percent Recovery

Life Science Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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Turnaround
Normal 14 DAY 3-Day* 7-Day*

Pre-Authorized
Next Day* 2-Day*

*Additional Charges may apply

Date Needed or Special Instructions:

Authorization or P.O. # 12040-69

Report Address:
Name: Robert Casey
Company: EA Science
Street: 6231 Colman Rd.
City/State: Enys, NY
Phone: 315 431 4610
Email: rcasey@cooperation.com
Client Project ID/Client Site ID

Zip: 13057
Fax: 315 431 4130

Client's Sample Identifications	Sample Date	Sample Time	Type grab/camp	Matrix	Preserv Added	Containers		Analyses	Preserv Check	LSL ID#
						#	size/type			
WRL-EFF7-12303	03 DEC 2003	1750	6ival	SW	HCL	2	40ml	610/620		001AD
					H ₂ O ₂	1	500ml	TRN, NH ₃ , COD		C
					NONE	1	500ml	BOD ₅ TSS		D
					HNO ₃	1	500ml	metals: Ba, Cr, Se, Zn, Cu		E
					NONE	1	8oz	FE, NI, TI		F
					NONE	1	8oz	PH		G
					NONE	1	8oz	Cr+6, Nitrate, Nitrite		H
					H ₂ O ₂	1	4amber	Phenolics		002AD

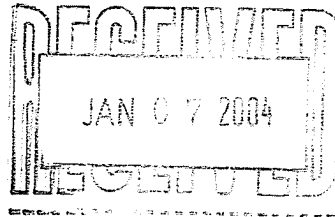
Top blank

Received By: Robert Casey
Received By: [Signature]
Rec'd for Lab By: [Signature]
Received Inlab: [Signature]

Received Date: 12-24-03
Sample Temp: 03-08-45 RT VD

Containers this C.O.C. for All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner in PER ONLY year

Reg COC 7.7



Robert Casey
 EA Engineering, Science and Technology
 6731 Collamer Road
 East Syracuse, NY 13057-9759

Phone: (315) 431-4610
 FAX: (315) 431-4280
 Authorization: 12040.69

Laboratory Analysis Report

For

EA Engineering, Science and Technology

Client Project ID:
 12040.69

LSL Project ID: 0319895

Receive Date/Time: 12/17/03 9:50

Project Received by: GS

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This report was reviewed by:

Hinda Waters QC
 Life Science Laboratories, Inc

Date:

1/2/04

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID:	WRL-EFF7-121603	LSL Sample ID:	0319895-001
Location:	Witmer Road		
Sampled:	12/16/03 13:30	Sampled By:	RC
Sample Matrix:	NPW		

Analytical Method Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
<i>(1) EPA 150.1 pH</i>					
pH	7.0	Std. Units		12/16/03 12:14	CDG
pH Measurement Temperature	25	Degrees C		12/16/03 12:14	CDG
<i>NYS DOH ELAP specifications require pH to be measured within one hour of sample collection.</i>					
<i>(1) EPA 160.2 Total Suspended Solids</i>					
Total Suspended Solids @ 103-105 C	48	mg/l		12/22/03	MM
<i>(1) EPA 350.1 Ammonia</i>					
Ammonia as N	4.3	mg/l		12/31/03	DRB
<i>(1) EPA 351.2 TKN as N</i>					
Total Kjeldahl Nitrogen	5.0	mg/l	12/29/03	12/30/03	DRB
<i>(1) EPA 405.1 BOD-5</i>					
Biochemical Oxygen Demand, 5 Day	7.6	mg/l		12/17/03 19:00	MM/AS H
<i>(1) EPA 420.1 Recoverable Phenolics ML</i>					
Phenolics, Total Recoverable	<0.05	mg/l	12/23/03	12/24/03	DWK
<i>(1) EPA 601 Halocarbons by 624(Partial List)</i>					
1,1-Dichloroethane	<1	ug/l		12/25/03	BD
Trichloroethene	<1	ug/l		12/25/03	BD
Surrogate (Tol-d8)	124	%R		12/25/03	BD
Surrogate (4-BFB)	131	%R		12/25/03	BD
Surrogate (1,2-DCA-d4)	124	%R		12/25/03	BD
<i>(1) EPA 6010 Total Metals</i>					
Iron	24	mg/l	12/19/03	12/19/03	PEF
Nickel	<0.01	mg/l	12/19/03	12/19/03	PEF
Barium	<0.01	mg/l	12/19/03	12/19/03	PEF
Copper	<0.01	mg/l	12/19/03	12/19/03	PEF
Chromium	<0.01	mg/l	12/19/03	12/19/03	PEF
Selenium	<0.01	mg/l	12/19/03	12/19/03	PEF
Thallium	<0.01	mg/l	12/19/03	12/19/03	PEF
<i>(1) EPA Method 300.0 A</i>					
Nitrate as N	0.34	mg/l		12/18/03 06:16	RAF
Nitrite as N	<0.1	mg/l		12/18/03 06:16	RAF
<i>(1) HACH 8000 COD</i>					
Chemical Oxygen Demand	20	mg/l		12/22/03	DWK
<i>(1) SM 18 3500Cr-D Hexavalent Chromium</i>					
Chromium, Hexavalent	<0.01	mg/l		12/17/03 12:22	DWK
<i>(1) SM18-2540C Total Dissolved Solids</i>					
Total Dissolved Solids @ 180 C	890	mg/l		12/18/03	MM



SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

8/14/02

<u>Method</u>	<u>Surrogate(s)</u>	<u>Water Limits, %R</u>	<u>SHW Limits, %R</u>
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	80-120	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Dodecane	40-110	40-110
DOH 310-14	Dodecane	40-110	40-110
DOH 310-15	Dodecane	40-110	40-110
DOH 310-34*	4-BFB	50-150	50-150
8015M_GRO*	4-BFB	50-150	50-150
8015M_DRO*	Terphenyl-d14	50-150	50-150

*Run by GC/MS.

Units Key:	ug/l = microgram per liter
	ug/kg = microgram per kilogram
	mg/l = milligram per liter
	mg/kg = milligram per kilogram
	%R = Percent Recovery



Life Science Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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Fax: (585)968-0906

0314
EALJmg

Report Address:
 Name: Robert Cassey
 Company: FA
 Street: 6731 COLLAMER RD
 City/State: ESYRACUSE, NY
 Phone: 515 431 4610
 Email: rcassey@east.com

Zip: 13057
 Fax: 315 431 4280

Client Project ID/Client Site ID: Witmer Road

Turnaround Time
 Normal 14 DAY Pre-Authorized Next Day* 2-Day* 3-Day* 7-Day*
 *Additional Charges may apply

Date Needed or Special Instructions: 12040.49

Authorization or P.O. # 12040.49

LSL Project Number: 12040.49

Client's Sample Identifications	Sample Date	Sample Time	Sample Type	grab/comp	Matrix	Preserv Added	Containers		Analyses	Preserv Check	LSL ID#
							#	size/type			
WRL-EFF7-121003	16 DEC 2003	1330	EXLABS		GW	HCL	2	40ml	W10/1020		021AD
						NONE	1	500ml	BOD, TSS		C
						HNO3	1	500ml	METALS: Se, Ba, Tl, Ni, Cu, Fe		D
						H2SO4	1	500ml	TKN, NH3, COD		E
						NONE	1	802	Crit, Nitrate, Nitrite		F
						NONE	1	802	PH		G
						H2SO4	1	AMBER	Phenolics		H
						NONE	1	500ml	TDS		G

LSL use only:

Containers this C-O-C

Shipment Method: Drop off

Sampled By: Robert Cassey
 Relinquished By: Robert Cassey
 Relinquished By: Robert Cassey
 Rec'd for Lab By: Robert Cassey
 Received Intact: Y N

Custody Transfers

Date	Time
12-17-03	09:50

Sample Temp R CVD

*** All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner IN PEN ONLY ***

Re 000



Robert Casey
EA Engineering, Science and Technology
6731 Collamer Road
East Syracuse, NY 13057-9759

Phone: (315) 431-4610
FAX: (315) 431-4280

Laboratory Analysis Report

For

EA Engineering, Science and Technology

Client Project ID:

12040.87.0003

LSL Project ID: **0319517**

Receive Date/Time: 12/10/03 8:02

Project Received by: CDG

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody document submitted with these samples is considered by LSL to be an appendix of this report and may contain specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

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NYS DOH ELAP #11369

This report was reviewed by:

Yvonda Waters QC

Date:

12/24/03

Life Science Laboratories, Inc

A copy of this report was sent to:

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: WRL-EFF7-120903	LSL Sample ID: 0319517-001
Location:	
Sampled: 12/09/03 16:20	Sampled By: RSC
Sample Matrix: NPW	

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
--------------------------	---------------	--------------	------------------	---------------------------------	-------------------------

(1) EPA 150.1 pH					
pH	6.3	Std. Units		12/10/03 13:36	DSB
pH Measurement Temperature	25	Degrees C		12/10/03 13:36	DSB

NYS DOH ELAP specifications require pH to be measured within one hour of sample collection.

(1) EPA 160.2 Total Suspended Solids					
Total Suspended Solids @ 103-105 C	160	mg/l		12/11/03	MM/GS

(1) EPA 200.7 Total Metals					
Barium	<0.2	mg/l	12/11/03	12/11/03	PEF
Chromium	<0.01	mg/l	12/11/03	12/11/03	PEF
Copper	<0.01	mg/l	12/11/03	12/11/03	PEF
Iron	150	mg/l	12/11/03	12/11/03	PEF
Nickel	<0.01	mg/l	12/11/03	12/11/03	PEF
Selenium	<0.01	mg/l	12/11/03	12/11/03	PEF
Thallium	<0.01	mg/l	12/11/03	12/11/03	PEF
Zinc	<0.01	mg/l	12/11/03	12/11/03	PEF

(1) EPA 350.1 Ammonia					
Ammonia as N	3.1	mg/l		12/19/03	DRB

(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	4.8	mg/l	12/18/03	12/19/03	DRB

(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	70	mg/l		12/10/03 16:06	TER

(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	0.028	mg/l	12/17/03	12/19/03	DWK
<i>A trace amount of this analyte was detected in the laboratory blank.</i>					

(1) EPA 601/602 Volatiles by 624					
Benzene	<1	ug/l		12/15/03	BD
Bromodichloromethane	<1	ug/l		12/15/03	BD
Bromoform	<1	ug/l		12/15/03	BD
Bromomethane	<1	ug/l		12/15/03	BD
Carbon tetrachloride	<1	ug/l		12/15/03	BD
Chlorobenzene	<1	ug/l		12/15/03	BD
Chloroethane	<1	ug/l		12/15/03	BD
2-Chloroethylvinyl ether	<10	ug/l		12/15/03	BD
Chloroform	<1	ug/l		12/15/03	BD
Chloromethane	<1	ug/l		12/15/03	BD
Dibromochloromethane	<1	ug/l		12/15/03	BD
1,2-Dichlorobenzene	<1	ug/l		12/15/03	BD
1,3-Dichlorobenzene	<1	ug/l		12/15/03	BD
1,4-Dichlorobenzene	<1	ug/l		12/15/03	BD
Dichlorodifluoromethane	<1	ug/l		12/15/03	BD
1,1-Dichloroethane	<1	ug/l		12/15/03	BD
1,2-Dichloroethane	<1	ug/l		12/15/03	BD
1,1-Dichloroethene	<1	ug/l		12/15/03	BD
trans-1,2-Dichloroethene	<1	ug/l		12/15/03	BD
1,2-Dichloropropane	<1	ug/l		12/15/03	BD

-- LABORATORY ANALYSIS REPORT --*EA Engineering, Science and Technology East Syracuse, NY***Sample ID:** WRL-EFF7-120903**LSL Sample ID:** 0319517-001**Location:****Sampled:** 12/09/03 16:20**Sampled By:** RSC**Sample Matrix:** NPW**Analytical Method**

Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
<i>(1) EPA 601/602 Volatiles by 624</i>					
cis-1,3-Dichloropropene	<1	ug/l		12/15/03	BD
trans-1,3-Dichloropropene	<1	ug/l		12/15/03	BD
Ethyl benzene	<1	ug/l		12/15/03	BD
Methylene chloride	<1	ug/l		12/15/03	BD
Vinyl chloride	<1	ug/l		12/15/03	BD
Tetrachloroethene	<1	ug/l		12/15/03	BD
Toluene	<1	ug/l		12/15/03	BD
1,1,1-Trichloroethane	<1	ug/l		12/15/03	BD
Trichloroethene	<1	ug/l		12/15/03	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		12/15/03	BD
1,1,1,2-Tetrachloroethane	<1	ug/l		12/15/03	BD
Surrogate (1,2-DCA-d4)	78	%R		12/15/03	BD
Xylenes (Total)	<1	ug/l		12/15/03	BD
Surrogate (Tol-d8)	102	%R		12/15/03	BD
Surrogate (4-BFB)	91	%R		12/15/03	BD
<i>(1) EPA Method 300.0 A</i>					
Nitrate as N	0.17	mg/l		12/10/03 19:55	RAF
Nitrite as N	<0.1	mg/l		12/10/03 19:55	RAF
<i>(1) HACH 8000 COD</i>					
Chemical Oxygen Demand	36	mg/l		12/12/03	DWK
<i>(1) SM 18 3500Cr-D Hexavalent Chromium</i>					
Chromium, Hexavalent	<0.01	mg/l		12/10/03 13:37	DWK

**SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS**

8/14/02

<u>Method</u>	<u>Surrogate(s)</u>	<u>Water Limits, %R</u>	<u>SHW Limits, %R</u>
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	80-120	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	18-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Dodecane	40-110	40-110
DOH 310-14	Dodecane	40-110	40-110
DOH 310-15	Dodecane	40-110	40-110
DOH 310-34*	4-BFB	50-150	50-150
8015M_GRO*	4-BFB	50-150	50-150
8015M_DRO*	Terphenyl-d14	50-150	50-150

*Run by GC/MS.

Units Key:	ug/l = microgram per liter
	ug/kg = microgram per kilogram
	mg/l = milligram per liter
	mg/kg = milligram per kilogram
	%R = Percent Recovery

Life Science Laboratories, Inc.

CHAIN OF CUSTODY RECORD



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EAEng
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Weyland,
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1 Lab
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FAC (885)945-0908

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Company: EA SCIENCE & TECHNOLOGY
Street: 673 COLLAMER RD
City/State: ESYRAUSE NY
Phone: 315 431 4610
Email: rcasey@east.com
Client Project ID/Client Site ID

Zip: 13057
Fax: 315 431 4280

Authorization or P.O.#
17040.07.0003

Client's Sample Identifications	Sample Date	Sample Time	Type grab/comp	Matrix	Preserv Added	Containers		Analyses	Preserv Check	LSL ID#
						#	size/type			
WEL-EFF 7 - 130903	11 DEC 2003	1620	GRAV	GW	HCl	2	40 ml	610/620		001AB
					H2SO4	1	500 ml	TKN, NH3, COD		C
					NONE	1	500 ml	BOD, TSS		D
					HNO3	1	500 ml	MEALS: Barium, Chromium, Cobalt, Selenium, Total Copper, Total Lead, Total Nickel, Total Phosphorus, Total Zinc, Total		E
					NONE	1	8oz.	PH		F
					NONE	1	8oz	Cr+6, Nitrate, Nitrite		G
					H2SO4	1	AMBER	phenolizes.		H

Turnaround Time
Normal 14 DAY Pre-Authorized Next Day* 2-Day* 3-Day* 7-Day*

*Additional Charges may apply

Date Needed or Special Instructions:

LSL Project Number

Custody Transfers

Received By: RSC
Received By: [Signature]
Rec'd for Lab By: [Signature]
Received Inact: Y N

Sampled By: RSC
Reinquished By: [Signature]
Reinquished By: [Signature]
Shipment Method: [Signature]

Date: 10-05-03 Time: 08:02

Sample Temp

Contains this C-O-C
All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner in PEN ONLY

8.4



Robert Casey
 EA Engineering, Science and Technology
 6731 Collamer Road
 East Syracuse, NY 13057-9759

Phone: (315) 431-4610
 FAX: (315) 431-4280

Laboratory Analysis Report

For

EA Engineering, Science and Technology

Client Project ID:

12040.83.0005

LSL Project ID: 0319068

Receive Date/Time: 12/03/03 9:06

Project Received by: CDG

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody document submitted with these samples is considered by LSL to be an appendix of this report and may contain specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

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LSL Middlesex Lab
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 Fax. (585) 554-6743
 NYS DOH ELAP #11369

This report was reviewed by:


 Life Science Laboratories, Inc

Date: 12-15-03

A copy of this report was sent to:

-- LABORATORY ANALYSIS REPORT --

EA Engineering, Science and Technology East Syracuse, NY

Sample ID: **WRL-EFF7-120203** LSL Sample ID: **0319068-001**
 Location: **Witmer Road Landfill**
 Sampled: **12/02/03 13:30** Sampled By: **RC**
 Sample Matrix: **NPW**

Analytical Method

Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) Electronic Report Generation Report Fee					
(1) EPA 150.1 pH pH	8.1	Std. Units		12/4/03 14:31	DSB
pH Measurement Temperature	25	Degrees C		12/4/03 14:31	DSB
<i>NYS DOH ELAP specifications require pH to be measured within one hour of sample collection.</i>					
(1) EPA 160.2 Total Suspended Solids Total Suspended Solids @ 103-105 C	7.0	mg/l		12/4/03	MM
(1) EPA 200.7 Total Metals					
Barium	<0.2	mg/l	12/5/03	12/5/03	PEF
Chromium	<0.01	mg/l	12/5/03	12/5/03	PEF
Copper	<0.01	mg/l	12/5/03	12/5/03	PEF
Iron	1.6	mg/l	12/5/03	12/5/03	PEF
Nickel	<0.01	mg/l	12/5/03	12/5/03	PEF
Selenium	0.014	mg/l	12/5/03	12/5/03	PEF
Thallium	<0.01	mg/l	12/5/03	12/5/03	PEF
Zinc	0.013	mg/l	12/5/03	12/5/03	PEF
(1) EPA 350.1 Ammonia Ammonia as N	2.6	mg/l		12/12/03	DRB
(1) EPA 351.2 TKN as N Total Kjeldahl Nitrogen	2.1	mg/l	12/10/03	12/11/03	DRB
(1) EPA 405.1 BOD-5 Biochemical Oxygen Demand, 5 Day	<4	mg/l		12/3/03 14:59	MM/AS H
(1) EPA 601 Halocarbons by 624(Partial List)					
1,1-Dichloroethane	<1	ug/l		12/6/03	BD
Trichloroethene	<1	ug/l		12/6/03	BD
Surrogate (Tol-d8)	106	%R		12/6/03	BD
Surrogate (4-BFB)	92	%R		12/6/03	BD
Surrogate (1,2-DCA-d4)	88	%R		12/6/03	BD
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		12/3/03 17:57	RAF
Nitrite as N	0.89	mg/l		12/3/03 17:57	RAF
(1) HACH 8000 COD Chemical Oxygen Demand	4.0	mg/l		12/12/03	DWK
(1) SM 18 3500Cr-D Hexavalent Chromium Chromium, Hexavalent	<0.01	mg/l		12/3/03 13:00	DWK



SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS
8/14/02

<u>Method</u>	<u>Surrogate(s)</u>	<u>Water Limits, %R</u>	<u>SHW Limits, %R</u>
EPA 604	TCMX	80-120	NA
EPA 608	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 628	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	80-120	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Dodecane	40-110	40-110
DOH 310-14	Dodecane	40-110	40-110
DOH 310-15	Dodecane	40-110	40-110
DOH 310-34*	4-BFB	50-150	50-150
8015M_GRO*	4-BFB	50-150	50-150
8015M_DRO*	Terphenyl-d14	50-150	60-150

*Run by GC/MS.

Units Key:	
ug/l	= microgram per liter
ug/kg	= microgram per kilogram
mg/l	= milligram per liter
mg/kg	= milligram per kilogram
%R	= Percent Recovery

03190659
EASIS

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Fax: (315)445-1301

Cuba, N.Y. 14721
Phone: (609)908-0660
Fax: (609)908-0008

Turnaround Time

Normal 14 DAY

Pre-Authorized Next Day* 2-Day* 3-Day* 7-Day*

*Additional Charges may apply

Date Needed or Special Instructions:

Authorization or P.O.# 17040.83.0005

Report Address:

Name: Robert S. Casey

Company: EA SCIENCE & TECHNOLOGY

Street: 6731 ROCKAWAY RD

City/State: E. SYRACUSE, NY

Phone: 315 431 4610

Email: RCASEY@EASCI.COM

Client Project ID/Client Site ID WITHER ROAD LANDFILL

Client's Sample Identifications	Sample Date	Sample Time	Type gmb/comp	Matrix	Preserv Added	Containers		Analyses	Preserv Check	LSL ID#
						#	size/type			
WRL-EFCA-120203	2DEC03	1330	grab	604	H2SO4	1	500ml	THN, NH3, COD		001A
					NONE	1	500ml	BOD, TSS		B
					HNO3	1	500ml	METALS		C
					NONE	1	802	pH		D
					NONE	1	802	Cr+6 Nitrate, Nitrite		E
					HEX	2	40ml	Cr+6		FG

LSL use only:

Containers b/c C.O.C

Received By: Robert S. Casey

Received By: Robert S. Casey

Rec'd for Lab By: Robert S. Casey

Received Intact: Y N

Date: 12-05-03

Time: 09:06

Sample Temp

RCVD

0.302

Reg COC

All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner in PEN ONLY



Robert Casey
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East Syracuse, NY 13057-9759

Phone: (315) 431-4610
FAX: (315) 431-4280

Laboratory Analysis Report

For

EA Engineering, Science and Technology

Client Project ID:

12040.83.0005

LSL Project ID: 0318812

Receive Date/Time: 11/26/03 8:45

Project Received by: CDG

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Fax (585) 968-0906
NYS DOH ELAP #10760

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Fax. (585) 554-6743
NYS DOH ELAP #11369

This report was reviewed by:

Suzanne M. DeLent

Life Science Laboratories, Inc

Date:

12-15-03

A copy of this report was sent to:

Page 1 of 2

Date Printed: 12/12/03

-- LABORATORY ANALYSIS REPORT --*EA Engineering, Science and Technology East Syracuse, NY*

Sample ID: **WRL-Eff7-1103** LSL Sample ID: **0318812-001**
 Location: **Witmer Road Landfill**
 Sampled: **11/25/03 14:00** Sampled By:
 Sample Matrix: **NPW**

Analytical Method Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 150.1 pH					
pH	7.7	Std. Units		11/26/03 12:41	DSB
pH Measurement Temperature	25	Degrees C		11/26/03 12:41	DSB
<i>NYS DOH ELAP specifications require pH to be measured within one hour of sample collection.</i>					
(1) EPA 160.2 Total Suspended Solids					
Total Suspended Solids @ 103-105 C	<4	mg/l		12/1/03	MM
(1) EPA 350.1 Ammonia					
Ammonia as N	2.1	mg/l		12/9/03	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	3.3	mg/l	12/8/03	12/9/03	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	<4	mg/l		11/26/03 16:57	MM
(1) EPA 601 Halocarbons by 624(Partial List)					
1,1-Dichloroethane	<1	ug/l		12/6/03	BD
Trichloroethene	<1	ug/l		12/6/03	BD
Surrogate (Tol-d8)	106	%R		12/6/03	BD
Surrogate (4-BFB)	92	%R		12/6/03	BD
Surrogate (1,2-DCA-d4)	86	%R		12/6/03	BD
(1) EPA 6010 Total Metals					
Barium	<0.2	mg/l	12/1/03	12/1/03	PEF
Copper	<0.01	mg/l	12/1/03	12/1/03	PEF
Nickel	<0.01	mg/l	12/1/03	12/1/03	PEF
Cadmium	<0.01	mg/l	12/1/03	12/1/03	PEF
Chromium	<0.01	mg/l	12/1/03	12/1/03	PEF
Iron	0.22	mg/l	12/1/03	12/1/03	PEF
Lead	<0.01	mg/l	12/1/03	12/1/03	PEF
Magnesium	8.1	mg/l	12/1/03	12/1/03	PEF
Manganese	0.12	mg/l	12/1/03	12/1/03	PEF
Selenium	0.012	mg/l	12/1/03	12/1/03	PEF
Silicon	2.5	mg/l	12/1/03	12/1/03	PEF
Sodium	42	mg/l	12/1/03	12/1/03	PEF
Thallium	<0.01	mg/l	12/1/03	12/1/03	PEF
Zinc	<0.01	mg/l	12/1/03	12/1/03	PEF
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		12/3/03 11:51	RAF
<i>This analysis was performed beyond the holding time limit.</i>					
Nitrite as N	0.88	mg/l		12/3/03 11:51	RAF
<i>This analysis was performed beyond the holding time limit.</i>					
(1) HACH 8000 COD					
Chemical Oxygen Demand	3.8	mg/l		12/12/03	DWK
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	<0.01	mg/l		11/26/03 11:23	DWK



SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

8/14/02

<u>Method</u>	<u>Surrogate(s)</u>	<u>Water Limits, %R</u>	<u>SHW Limits, %R</u>
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 528	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 651.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	80-120	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 626, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8280	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Dodecane	40-110	40-110
DOH 310-14	Dodecane	40-110	40-110
DOH 310-15	Dodecane	40-110	40-110
DOH 310-34*	4-BFB	50-150	50-150
8015M_GRO*	4-BFB	50-150	50-150
8015M_DRO*	Terphenyl-d14	50-150	50-150

*Run by GC/MS.

Units Key:	ug/l = microgram per liter
	ug/kg = microgram per kilogram
	mg/l = milligram per liter
	mg/kg = milligram per kilogram
	%R = Percent Recovery

Life Science Laboratories, Inc.

CHAIN OF CUSTODY RECORD

0318812
EAErg

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Fax: (645)728-2111

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LSL Central Lab
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E. Syracuse, N.Y. 13057
Phone: (315)445-1105
Fax: (315)445-1301

Fax: (645)688-0005

Turnaround Time
 Normal 14 DAY
 Pre-Authorized Next Day*
 3-Day*
 7-Day*
 *Additional Charges may apply

Date Needed or Special Instructions:

Authorization or P.O. # 12040.83.0005

Report Address:

Name: Robert Casey
 Company: EA SWANSON & TECH
 Street: 6731 COLLAMER RD
 City/State: E. SYRACUSE
 Phone: 315.431.1610
 Email: rcasey@east.com

Zip: 13057
 Fax: 315 431 4250

Client Project ID/Client Site ID

WITMER ROAD LANDFILL

Client's Sample Identifications	Sample Date	Sample Time	Type grab/comp	Matrix	Preserv Added	Containers		Analyses	Preserv Check	LSL ID#
						#	size/type			
WRL-EFF7-1103	25/0003	1400	6X43	Grw	H ₂ O ₂	1	500ml	TKN, NH ₃ , COD		001A
					NONE	1	500ml	BOD, TSS		0
					NONE	1	500ml	Metals		C
					NONE	1	8oz	pH		D
					NONE	1	8oz	Cr +6, Nitrate, Nitrite		E
					HEC	2	400ml	610/620		FG

LSL use only:

Sampled By: [Signature]
 Relinquished By: [Signature]
 Relinquished By: [Signature]
 Shipment Method: [Signature]

Received By: [Signature]
 Received By: [Signature]
 Received In: [Signature]

Date: 11-26-03
 Time: 08:45
 Sample Temp: 2.7°C

Containers this C.O.C. for All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner in PEN ONLY.

Req COC



Robert Casey
EA Engineering, Science and Technology
6731 Collamer Road
East Syracuse, NY 13057-9759

Phone: (315) 431-4610
FAX: (315) 431-4280

Laboratory Analysis Report

For

EA Engineering, Science and Technology

Client Project ID:

12040.83.0005

LSL Project ID: 0318613

Receive Date/Time: 11/21/03 11:35

Project Received by: GS

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody document submitted with these samples is considered by LSL to be an appendix of this report and may contain specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

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LSL Finger Lakes Lab
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Fax (585) 728-2711
NYS DOH ELAP #11667

LSL Southern Tier Lab
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Cuba, NY 14727
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Fax (585) 968-0906
NYS DOH ELAP #10760

LSL Middlesex Lab
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Middlesex, NY 14507
Tel. (585) 554-5347
Fax. (585) 554-6743
NYS DOH ELAP #11369

This report was reviewed by:

Life Science Laboratories, Inc.

Date:

12-10-03

A copy of this report was sent to:

-- LABORATORY ANALYSIS REPORT --*EA Engineering, Science and Technology East Syracuse, NY*

Sample ID: **WRL-Eff7-1103** LSL Sample ID: **0318613-001**
 Location: **BOC Gases**
 Sampled: **11/20/03 9:30** Sampled By: **RC**
 Sample Matrix: **NPW**

Analytical Method

Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 150.1 pH					
pH	2.1	Std. Units		11/21/03 14:49	DSB
pH Measurement Temperature	25	Degrees C		11/21/03 14:49	DSB
<i>NYS DOH ELAP specifications require pH to be measured within one hour of sample collection.</i>					
(1) EPA 160.2 Total Suspended Solids					
Total Suspended Solids @ 103-105 C	12	mg/l		11/25/03	MM
(1) EPA 350.1 Ammonia					
Ammonia as N	2.9	mg/l		12/5/03	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	2.3	mg/l	12/2/03	12/3/03	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	<4	mg/l		11/21/03 15:21	MM/JRG
(1) EPA 601 Halocarbons by 624(Partial List)					
1,1-Dichloroethane	<1	ug/l		12/4/03	BD
Trichloroethane	<1	ug/l		12/4/03	BD
Surrogate (Tol-d8)	115	%R		12/4/03	BD
Surrogate (4-BFB)	114	%R		12/4/03	BD
Surrogate (1,2-DCA-d4)	109	%R		12/4/03	BD
(1) EPA 6010 Total Metals					
Nickel	<0.01	mg/l	11/24/03	11/24/03	PEF
Copper	<0.01	mg/l	11/24/03	11/24/03	PEF
Barium	<0.01	mg/l	11/24/03	11/24/03	PEF
Cadmium	<0.01	mg/l	11/24/03	11/24/03	PEF
Chromium	<0.01	mg/l	11/24/03	11/24/03	PEF
Iron	1.7	mg/l	11/24/03	11/24/03	PEF
Lead	<0.01	mg/l	11/24/03	11/24/03	PEF
Magnesium	5.8	mg/l	11/24/03	11/24/03	PEF
Manganese	0.30	mg/l	11/24/03	11/24/03	PEF
Selenium	<0.01	mg/l	11/24/03	11/24/03	PEF
Silicon	3.0	mg/l	11/24/03	11/24/03	PEF
Sodium	41	mg/l	11/24/03	11/24/03	PEF
Thallium	<0.01	mg/l	11/24/03	11/24/03	PEF
Zinc	<0.01	mg/l	11/24/03	11/24/03	PEF
(1) EPA Method 300.0 A					
Nitrate as N	0.83	mg/l		11/21/03 18:39	RAF
Nitrite as N	<0.1	mg/l		11/21/03 18:39	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	14	mg/l		12/4/03	DWK
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	480	mg/l		11/25/03	MM

-- LABORATORY ANALYSIS REPORT --*EA Engineering, Science and Technology East Syracuse, NY*

Sample ID: Trip Blank **LSL Sample ID:** 0318613-002
Location: BOC Gases
Sampled: 11/20/03 0:00 **Sampled By:**
Sample Matrix: TB

Analytical Method

Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 601 Halocarbons by 624(Partial List)					
1,1-Dichloroethane	<1	ug/l		12/4/03	BD
Trichloroethene	<1	ug/l		12/4/03	BD
Surrogate (Tol-d8)	113	%R		12/4/03	BD
Surrogate (4-BFB)	116	%R		12/4/03	BD
Surrogate (1,2-DCA-d4)	115	%R		12/4/03	BD



SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS
8/14/02

<u>Method</u>	<u>Surrogate(s)</u>	<u>Water Limits, %R</u>	<u>SHW Limits, %R</u>
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	80-120	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Dodecane	40-110	40-110
DOH 310-14	Dodecane	40-110	40-110
DOH 310-16	Dodecane	40-110	40-110
DOH 310-34*	4-BFB	50-150	60-150
8015M_GRO*	4-BFB	50-150	50-150
8015M_DRO*	Terphenyl-d14	50-150	50-150

*Run by GC/MS.

Units Key:	
ug/l	= microgram per liter
ug/kg	= microgram per kilogram
mg/l	= milligram per liter
mg/kg	= milligram per kilogram
%R	= Percent Recovery

Life Science Laboratories, Inc. CHAIN OF CUSTODY RECORD

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LSL Finger Lakes Lab.

0318613
EALBrg

Report Address: Robert Scassy
 Company: EA SCIENCE & TECHNOLOGY
 Street: 6731 Callender Road
 City/State: E. SYRACUSE, N.Y.
 Phone: 431 4610
 Email: rscassy@east.com

Client Project ID/Client Site ID: 72040.83-0005 BOL GRABES

Turnaround Normal 14 DAY Expedited 3-Day 7-Day

Date Needed or Special Instructions: _____

Authorization or P.O. # _____

*Additional Charges may apply

Client's Sample Identifications	Sample Date	Sample Time	Type grab/comp	Matrix	Preserv Added	Containers		Analyses	Preserv Check	LSL ID#
						#	size/type			
WLL-EFT-1103	20 NOV 2003	0930	60LARS	SW	NONE	1	500mL	BOD, TSS, TDS		001A
					H2SO4	1	500mL	TKN, NH3, COD		B
					HNO3	1	500mL	Metals Cd, Cr, Fe, Pb, Hg, Mn, Ni, Se, V, Zn		
					NONE	1	Amber	PH		
					HCL	2	4mL	EPA 610/620		
					NONE	1	2-50mL	Nitrate, Nitrite		
										002AB

LSL use only:

Sampled By: Robert Scassy Received By: _____ Date: _____

Relinquished By: Robert Scassy Received By: _____

Relinquished By: Robert Scassy Received By: _____

Shipment Method: Express Received Intact: Y/N 11-21-03 11:35 RCV

Containers this C-O-C _____

*** All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner in PEN ONLY ***

4.3°C on Ia

