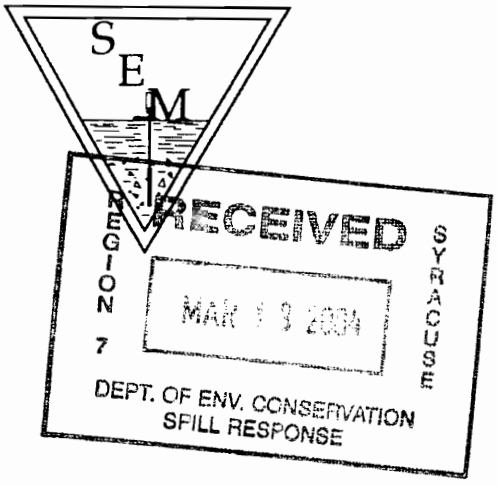
Strategic Environmental Management, Inc.



March 17, 2004

Ms. Chris Rossi
New York State Department of Environmental Conservation
Division of Environmental Remediation-Region 7
615 Erie Boulevard West
Syracuse, New York 13204-2400

Reference: Groundwater Recovery and Treatment System Operation, Monitoring, and Maintenance Summary-December 2003
Former Northeast Environmental Services, Inc. Site
Canal Road, Town of Lenox, New York
NYSDEC Spill No. 01-60024/PIN No. H-0529
SEM File: 3003.050.12.03

Dear Ms. Rossi:

The following provides a summary of operation, monitoring, and maintenance activities conducted by our firm in connection with the above-referenced project since our last monthly summary report dated December 22, 2003. This also serves to present the results of effluent monitoring conducted at Outfall 001A, pursuant to the requirements of the existing State Pollutant Discharge Elimination System (SPDES) Permit.

Maintenance and Repairs

In general, the routine maintenance activities that have been conducted by SEM since the issuance of the last monthly summary report have included weekly system inspection, data collection, and back-flushing of the four carbon filters.

The carbon within the four carbon filters was backflushed during each weekly site visit by SEM personnel to remove accumulated mineral deposits and sediments. The backflushed water and mineral deposits were placed in five 55-gallon settling drums. The deposits were allowed to settle out of suspension and the clear liquid was transferred to the air stripper via a portable submersible pump during the following weekly site visit.

3 Remington Avenue, Suite D, Canton, New York 13617
Telephone: (315) 386-2736 Facsimile: (315) 386-4736

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Sampling and Analysis/Operational Monitoring

Samples are submitted to Life Science Laboratories, Inc., of East Syracuse, New York, for analysis via EPA 601/602 methodology for volatile organic compounds (VOC). The data generated from these analyses are used to assess the contaminant level of the influent waters, the operational efficiency of the air stripper, and the VOC removal capacity of the GAC filter backup system.

The sampling was conducted on the following dates:

- Week of November 30 (December 5)
- Week of December 7 (December 10)
- Week of December 14 (December 18)
- Week of December 21 (December 23)
- Week of December 28 (December 30)

The results of the weekly analyses are tabulated in Attachment A.

In addition to monitoring the groundwater treatment system discharge for VOC's, a sample is submitted approximately monthly for analysis of pH. The results as reported by the lab are tabulated below. The lab reports are included as Attachment D.

Tabulation of pH Analyses – Outfall O1A

Date	pH (standard units)
6/19/03	8.2
7/2/03	7.3
7/23/03	7.9
8/13/03	7.8
9/08/03	7.8
10/7/03	8.0
11/3/03	7.7
12/2/03	8.4

A log of magnehelic readings for the air stripper that have been recorded since the month of June is presented below. The magnehelic gauge measures the air pressure in the air stripper sump where the fresh influent air is introduced. As the trays become fouled with mineral deposits, the air pressure has been observed to rise due to the restricted airflow through the diffusion trays. As a point of reference, upon start-up of the system after the physical/manual cleaning event of June 4, 2003, the sump pressure was measured at 9.75 inches of water column (in. w.c.).

As a result of the preceding events, SEM contacted Op-Tech to schedule a manual disassembly and cleaning of the air stripper trays in order to restore VOC removal efficiency. This task was performed on October 28, 2003 immediately following the routine weekly site inspection and sampling. The routine sample and data collection was performed immediately prior to the cleaning event to document the correlation of the system data with the cleaning event. During a subsequent site visit of October 20, 2003 the air stripper sump pressure was reduced to 10.75 in. w.c. thus restoring efficient VOC removal.

The carbon media was replaced on December 5, 2003 to restore the adsorptive capacity of the back-up GAC filters.

Periodic interruption by high water levels in the air stripper sump has been reduced by the replacement of the carbon media. As noted in Attachment C, weekly flow totals (cumulative gallons pumped) increased significantly after changing the carbon media.

A log of operational parameters maintenance activities (Attachment C) and a tabulation of flow volumes vs. analysis results (Attachment C) are attached to allow convenient reference. Copies of the laboratory analysis results and sample custody documentation associated with the various sampling events are also attached (Attachment D).

Discussion and Recommendations

To reduce long term monitoring expenses, the weekly sampling schedule will be reduced to the post air stripper effluent and the post GAC filter effluent (Outfall 001A). Past monitoring data from the influent points has shown VOC concentrations to be relatively consistent. Monthly monitoring samples will be collected from the two influent points in addition to the effluent sampling points. Additionally, a sample of the outfall effluent will be submitted for pH monitoring at the time of the monthly events.

It will be prudent to undertake physical cleaning of the AS trays once again in the near future as the sump pressure is reaching 13.5-14.0 inches of water column. This will ensure restoration of VOC removal efficiency before a discharge can occur. SEM has contacted Op-Tech to schedule a cleaning event for the week of January 10, 2004.

The next monthly summary of operation, monitoring and maintenance activities will be submitted in February. Please feel free to contact our office if you have any questions or concerns in the interim.

Respectfully,
STRATEGIC ENVIRONMENTAL MANAGEMENT, Inc.

Amy E. Lee

Amy E. Lee
Environmental Scientist/GIS Analyst

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Attachments

Attachment A

Tabulation of VOCs vs. SPDES Discharge Limitations

ATTACHMENT A

Former NES Facility,Canastota, New York

NYSDEC Spill No. 01-60024

Tabulation of VOCs vs. SPDES Discharge Limitations

System O&M Sampling-December 10, 2003

Detected Compound	RW-1 Influent	WP-5D Influent	Air Stripper Discharge	**Final System Discharge (Outfall 01A)**	**SPDES Discharge Limit**
Benzene	<5	<1	<1	<1	10
Ethyl Benzene	**25**	<1	<1	<1	10
Toluene	**480**	<1	<1	<1	10
Xylenes (total)	**130**	<1	<1	<1	10
Cabon Tetrachloride	<5	<1	<1	<1	10
Chloroethane	<5	8	<1	<1	30
Chloroform	<5	<1	<1	<1	10
1,1-Dichloroethane	**71**	<1	<1	<1	10
1,2-Dichloroethane	<5	<1	<1	<1	10
1,1-Dichloroethene	7.2	<1	<1	<1	10
cis-1,2-Dichloroethene	840	7.7	<1	<1	NR
trans-1,2-Dichloroethene	5.4	<1	<1	<1	NR
1,2-Dichloroethenes (total)*	**845.4**	7.7	<1	<1	30
Methylene Chloride	<5	<1	<1	<1	10
Tetrachloroethene	<5	<1	<1	<1	3
1,1,2-Trichloroethane	<5	<1	<1	<1	Monitor
1,3,5-Trimethylbenzene	<5	<1	<1	<1	NR
1,2,4-Trimethylbenzene	**15**	<1	<1	<1	10
Trimethylbenzenes (total)**	**15**	<1	<1	<1	10
Trichlorofluoro-methane	<5	<1	<1	<1	10
1,1,1-trichloroethane	**68**	<1	<1	<1	10
Trichloroethene	**78**	<1	<1	<1	10
Vinyl Chloride	**190**	43	<1	<1	50
Total VOC's	2770	66.4	ND	ND	NA
pH - std units	NC	NC	NC	NC	6.5-8.5

Notes:

NC = Not Collected

*1,2-Dichloroethenes (total) reported as total of cis and trans 1,2-Dichloroethene isomers.

** Trimethylbenzenes (total) reported as total of 1,2,4 and 1,3,5 Trimethylbenzene isomers.

ND= Not Detected

ATTACHMENT A

Former NES Facility,Canastota, New York

NYSDEC Spill No. 01-60024

Tabulation of VOCs vs. SPDES Discharge Limitations

System O&M Sampling-December 18, 2003

Detected Compound	RW-1 Influent	WP-5D Influent	Air Stripper Discharge	**Final System Discharge (Outfall 01A)**	**SPDES Discharge Limit**
Benzene	<5	<1	<1	<1	10
Ethyl Benzene	**32**	<1	<1	<1	10
Toluene	**660**	<1	<1	<1	10
Xylenes (total)	**150**	<1	<1	<1	10
Cabon Tetrachloride	<5	<1	<1	<1	10
Chloroethane	<5	12	<1	<1	30
Chloroform	<5	<1	<1	<1	10
1,1-Dichloroethane	**70**	<1	<1	<1	10
1,2-Dichloroethane	<5	<1	<1	<1	10
1,1-Dichloroethene	5.7	<1	<1	<1	10
cis-1,2-Dichloroethene	790	8.5	<1	<1	NR
trans-1,2-Dichloroethene	<5	<1	<1	<1	NR
1,2-Dichloroethenes (total)*	**790**	8.5	<1	<1	30
Methylene Chloride	<5	<1	<1	<1	10
Tetrachloroethene	<5	<1	<1	<1	3
1,1,2-Trichloroethane	<5	<1	<1	<1	Monitor
1,3,5-Trimethylbenzene	<5	<1	<1	<1	NR
1,2,4-Trimethylbenzene	**17**	<1	<1	<1	10
Trimethylbenzenes (total)**	**17**	<1	<1	<1	10
Trichlorofluoro-methane	<5	<1	<1	<1	10
1,1,1-trichloroethane	**45**	<1	<1	<1	10
Trichloroethene	**62**	<1	<1	<1	10
Vinyl Chloride	**200**	**62**	<1	<1	50
Total VOC's	2838.7	91	ND	ND	NA
pH - std units	NC	NC	NC	NC	6.5-8.5

Notes:

NC = Not Collected

*1,2-Dichloroethenes (total) reported as total of cis and trans 1,2-Dichloroethene isomers.

** Trimethylbenzenes (total) reported as total of 1,2,4 and 1,3,5 Trimethylbenzene isomers.

NR = Not Reported

ND = Not Detected

ATTACHMENT A

Former NES Facility,Canastota, New York

NYSDEC Spill No. 01-60024

Tabulation of VOCs vs. SPDES Discharge Limitations

System O&M Sampling-December 23, 2003

Detected Compound	RW-1 Influent	WP-5D Influent	Air Stripper Discharge	**Final System Discharge (Outfall 01A)**	**SPDES Discharge Limit**
Benzene	<5	<1	<1	<1	10
Ethyl Benzene	**33**	<1	<1	<1	10
Toluene	**710**	<1	<1	<1	10
Xylenes (total)	**150**	<1	<1	<1	10
Cabon Tetrachloride	<5	<1	<1	<1	10
Chloroethane	<5	11	<1	<1	30
Chloroform	<5	<1	<1	<1	10
1,1-Dichloroethane	**67**	<1	<1	<1	10
1,2-Dichloroethane	<5	<1	<1	<1	10
1,1-Dichloroethene	<5	<1	<1	<1	10
cis-1,2-Dichloroethene	720	6.6	<1	<1	NR
trans-1,2-Dichloroethene	<5	<1	<1	<1	NR
1,2-Dichloroethenes (total)*	**720**	6.6	<1	<1	30
Methylene Chloride	<5	<1	<1	<1	10
Tetrachloroethene	<5	<1	<1	<1	3
1,1,2-Trichloroethane	<5	<1	<1	<1	Monitor
1,3,5-Trimethylbenzene	<5	<1	<1	<1	NR
1,2,4-Trimethylbenzene	**18**	<1	<1	<1	10
Trimethylbenzenes (total)**	**18**	<1	<1	<1	10
Trichlorofluoro-methane	<5	<1	<1	<1	10
1,1,1-trichloroethane	**39**	<1	<1	<1	10
Trichloroethene	**52**	<1	<1	<1	10
Vinyl Chloride	**200**	**53**	<1	<1	50
Total VOC's	2727	77.2	ND	ND	NA
pH - std units	NC	NC	NC	NC	6.5-8.5

Notes:

NC = Not Collected

*1,2-Dichloroethenes (total) reported as total of cis and trans 1,2-Dichloroethene isomers.

** Trimethylbenzenes (total) reported as total of 1,2,4 and 1,3,5 Trimethylbenzene isomers.

NR = Not Reported

ND = Not Detected

ATTACHMENT A

Former NES Facility,Canastota, New York

NYSDEC Spill No. 01-60024

Tabulation of VOCs vs. SPDES Discharge Limitations

System O&M Sampling-December 30, 2003

Detected Compound	RW-1 Influent	WP-5D Influent	Air Stripper Discharge	**Final System Discharge (Outfall 01A)**	**SPDES Discharge Limit**
Benzene	<5	<1	<1	<1	10
Ethyl Benzene	**34**	<1	<1	<1	10
Toluene	**760**	<1	<1	<1	10
Xylenes (total)	**180**	<1	<1	<1	10
Cabon Tetrachloride	<5	<1	<1	<1	10
Chloroethane	<5	6.8	<1	<1	30
Chloroform	<5	<1	<1	<1	10
1,1-Dichloroethane	**60**	<1	<1	<1	10
1,2-Dichloroethane	<5	<1	<1	<1	10
1,1-Dichloroethene	6.6	<1	<1	<1	10
cis-1,2-Dichloroethene	790	6.9	<1	<1	NR
trans-1,2-Dichloroethene	<5	<1	<1	<1	NR
1,2-Dichloroethenes (total)*	**790**	6.9	<1	<1	30
Methylene Chloride	<5	<1	<1	<1	10
Tetrachloroethene	<5	<1	<1	<1	3
1,1,2-Trichloroethane	<5	<1	<1	<1	Monitor
1,3,5-Trimethylbenzene	5.5	<1	<1	<1	NR
1,2,4-Trimethylbenzene	**20**	<1	<1	<1	10
Trimethylbenzenes (total)**	**25.5**	<1	<1	<1	10
Trichlorofluoro-methane	<5	<1	<1	<1	10
1,1,1-trichloroethane	**44**	<1	<1	<1	10
Trichloroethene	**59**	<1	<1	<1	10
Vinyl Chloride	**190**	**42**	<1	<1	50
Total VOC's	2964.6	62.6	ND	ND	NA
pH - std units	NC	NC	NC	NC	6.5-8.5

Notes:

NC = Not Collected

*1,2-Dichloroethenes (total) reported as total of cis and trans 1,2-Dichloroethene isomers.

** Trimethylbenzenes (total) reported as total of 1,2,4 and 1,3,5 Trimethylbenzene isomers.

NR = Not Reported

ND = Not Detected

ATTACHMENT A

Former NES Facility,Canastota, New York

NYSDEC Spill No. 01-60024

Tabulation of VOCs vs. SPDES Discharge Limitations

System O&M Sampling-December 02, 2003

Detected Compound	RW-1 Influent	WP-5D Influent	Air Stripper Discharge	**Final System Discharge (Outfall 01A)**	**SPDES Discharge Limit**
Benzene	<5	<1	<1	<1	10
Ethyl Benzene	**31**	<1	<1	<1	10
Toluene	<5	<1	<1	<1	10
Xylenes (total)	**150**	<1	<1	<1	10
Cabon Tetrachloride	<5	<1	<1	<1	10
Chloroethane	<5	8.4	<1	<1	30
Chloroform	<5	<1	<1	<1	10
1,1-Dichloroethane	**60**	<1	<1	<1	10
1,2-Dichloroethane	<5	<1	<1	<1	10
1,1-Dichloroethene	6.4	<1	<1	<1	10
cis-1,2-Dichloroethene	NR	NR	<1	<1	NR
trans-1,2-Dichloroethene	NR	NR	<1	<1	NR
1,2-Dichloroethenes (total)*	**840**	8.5	<1	<1	30
Methylene Chloride	<5	<1	<1	<1	10
Tetrachloroethene	<5	<1	<1	<1	3
1,1,2-Trichloroethane	<5	<1	<1	<1	Monitor
1,3,5-Trimethylbenzene	<1	<1	<1	<1	NR
1,2,4-Trimethylbenzene	**16**	<1	<1	<1	10
Trimethylbenzenes (total)**	**16**	<1	<1	<1	10
Trichlorofluoro-methane	<5	<1	<1	<1	10
1,1,1-trichloroethane	**45**	<1	<1	<1	10
Trichloroethene	**59**	<1	<1	<1	10
Vinyl Chloride	**160**	48	<1	<1	50
Total VOC's	1383.4	64.9	ND	ND	NA
pH - std units	NC	NC	NC	8.4	6.5-8.5

Notes:

NC = Not Collected

*1,2-Dichloroethenes (total) reported as total of cis and trans 1,2-Dichloroethene isomers.

** Trimethylbenzenes (total) reported as total of 1,2,4 and 1,3,5 Trimethylbenzene isomers.

NR = Not Reported

ND= Not Detected

Attachment B

Tabulation of A.S. Sump Magnehelic Readings

ATTACHMENT B

Tabulation of A.S. Sump Magnehelic Readings

Date	Magnehelic Gauge (in. w.c.)
6/5/03*	9.75
6/10/2003	10.5
6/12/2003	10.5
6/19/2003	10.75
6/26/2003	11.25
7/2/2003	11.25
7/8/2003	11.6
7/15/2003	12
7/22/2003	13
7/29/2003	13
8/5/2003	13.5
8/13/03**	13.6
8/19/2003	14.25
8/26/2003	14.5
9/2/2003	15
9/8/2003	15
9/16/03*	10.75
9/22/2003	11.25
9/30/2003	12
10/7/2003	13.5
10/13/2003	13.75
10/21/2003	14.25
10/28/03*	14.75
10/30/2003	10.75
11/3/2003	11.5
11/7/2003	12
11/11/2003	12.5
11/17/2003	13.25
11/25/2003	13.5
12/2/2003	14.5
12/05/03*	14.75/10.75**
12/10/2003	11.5
12/18/2003	11.75
12/23/2003	12.5
12/30/2003	13.5

*Air Stripper cleaned 6/5, 9/16, 10/28/03, 12/05/03

** Carbon media changed 8/11/03, 12/05/03

Attachment C

Tabulation of Flow Volumes vs. Analysis Results
And
Groundwater Recovery and Treatment System Operations and Maintenance Logs

ATTACHMENT C
Tabulation of Flow Volumes vs. Analysis Results
Groundwater Recovery and Treatment System Operations and Maintenance Monitoring

Former Northeast Environmental Services, Inc. Site,
Canal Road, Town of Lenox, New York
NYSDEC Spill No. 01-60024/PIN No. H-0529

		Flow Totalizer Readings										Analysis Results-Total VOC (ppb)					Activities/Comments
Date/Time	Time	RW-1	Δ (Gal.)	Δ (Min.)	AVE Flow rate (gpm)	Inst. Flow rate (gpm)	WP-5D	Δ (Gal.)	Δ (Min.)	AVE Flow rate (gpm)	Inst. Flow rate (gpm)	RW-1 Inf.	WP-5D Inf.	AS Discharge (Pre-Carbon)	Final Discharge (OUTFALL 001A)	Cumulative Gallons (RW-1 and WP-5D)	
10/7/03 9:15	915	2,177,380	81,080	10,105	8.02	10.5	2,406,050	47,260	10,105	4.68	6.1	482.2	71	ND	ND	128,340	System operating at high discharge pressure upon arrival, Collected O&M samples and data. Backflushed Carbon filters, transport samples on ice to LSL.
10/13/03 10:15	1015	2,246,490	69,110	8,700	7.94	10.1	2,446,290	40,240	8,700	4.63	5.9	438.2	59.7	ND	ND	109,350	System operating at high discharge pressure upon arrival, resticted flow noted at outfall during sampling. Collected O&M samples and data. Backflushed Carbon filters, transport samples on ice to LSL.
10/21/03 8:45	845	2,355,355	108,865	11,430	9.52	10.1	2,509,292	63,002	11,430	5.51	5.9	834.9	66	ND	ND	171,867	System operating at high discharge pressure upon arrival, Collected O&M samples and data. Backflushed Carbon filters, transport samples on ice to LSL.
10/28/03 11:30	1130	2,461,140	105,785	10,245	10.33	10	2,569,600	60,308	10,245	5.89	5.9	1150.9	31.3	ND	1.7	166,093	System operating at high discharge pressure upon arrival, Collected O&M samples and data. Backflushed Carbon filters, transport samples on ice to LSL. Cleaned airstripper diffusion trays.
10/30/03 8:10	810	2,461,560	106,205	12,925	8.22	10	2,569,830	60,538	12,925	4.68	0	NC	NC	NC	NC	NC	Site visit to record conditions after Op-Tech cleaned stripper. Found system running but no discharge pressure on gauge. Discharge pump switch was in 'off' position and system in 'high water' alarm status - inlet pump off. Started discharge pump and bled air from GAC filters. Recorded data - WP5D flow meter not registering flow, although pump was on. No samples collected.
11/3/03 11:30	1130	2,526,160	65,020	8,640	7.53	10.1	2,569,832	232	8,640	0.03	0	1154.8	NC*	ND	ND	65,252	System operating upon arrival, discharge pump in off cycles, no restricted flow output, although discharge pressure somewhat high. Pump out floor sump and settling drums, collected O&M data and samples. Backflush carbon filters and attempt to clean WP-5D flow meter pump not pumping water-line clogged apparently. WP-5D sample not collected.
11/7/03 15:50	1550	**2,591,140**	130,000	14,660	8.87	10.1	**2,570,050**	450	14,660	0.03	5.7	NC	NC	NC	NC	130,450	On site to troubleshoot lack of water from WP-5D recovery pump and presence of sand in stripper. 2 inches of water on floor, sump pump not operable. Went to store to get replacement. Op-Tech to send crew to make repairs to WP-5D pump/foot valve. Drum #3 leaking around flange. Blew out line with air compressor, pulled up foot valve and shortened suction line by 16 inches. Pulled pump apart to check impeller, cracked in two places, but functional. Cleaned mud out of WP-5D flow meter. Restarted system-flow OK. Backflushed carbon filters to reduce high discharge pressure.
11/11/03 12:00	1200	2,645,170	119,010	11,550	10.30	10.1	2,602,040	32,208	11,550	2.79	5.8	488.2	62.7	ND	ND	151,218	System operating in high water status upon arrival. 1-2 inches of water on floor. Started sump pump. Discharge pump running at high water pressure and water is leaking from flange of #3 filter. Collected O&M samples and data. Pump out settling drums and backflush carbon filters. Attempted to start big electric heater-makes humming sound and fan does not spin-left breaker off.
11/17/03 9:00	900	2,693,350	48,180	8,460	5.70	NR	2,645,760	43,720	8,460	5.17	4.9	1,359.20	67.6	ND	ND	91,900	System functioning upon arrival. Attempted to pump out floor sump and pump NF. Cleaned intake screen and inspected; pumped out sump and settling drums; collected O&M data and samples; RW1 flow meter not functioning. Backflushed carbon filter and disassembled and removed fine sand and silt, cleaned of sediments from sump pump. Transported samples to LSL on ice.
11/25/03 11:00	1100	2,731,010	37,660	11,640	3.24	10.00	2,675,090	29,330	11,640	2.52	5.9	2,320	58.6	ND	ND	66,990	System in high water status upon arrival and water on floor to depth of 1-2". Turned on floor sump water off floor to stripper. Pumped out settling drums; Backflushed carbon filters; Collected O&M data and samples; Repaired plug on heater; Transported samples to LSL on ice.

ATTACHMENT C
Tabulation of Flow Volumes vs. Analysis Results
Groundwater Recovery and Treatment System Operations and Maintenance Monitoring

Former Northeast Environmental Services, Inc. Site,
Canal Road, Town of Lenox, New York
NYSDEC Spill No. 01-60024/PIN No. H-0529

		Flow Totalizer Readings										Analysis Results-Total VOC (ppb)					
Date/Time	**Time**	**RW-1**	Δ (Gal.)	Δ (Min.)	**AVE Flow rate (gpm)**	**Inst. Flow rate (gpm)**	**WP-5D**	Δ (Gal.)	Δ (Min.)	**AVE Flow rate (gpm)**	**Inst. Flow rate (gpm)**	**RW-1 Inf.**	**WP-5D Inf.**	**AS Discharge (Pre-Carbon)**	**Final Discharge (OUTFALL 001A)**	**Cumulative Gallons (RW-1 and WP-5D)**	**Activities/Comments**
12/2/03 11:00	1100	2,810,430	79,420	10,080	7.88	10.00	2,726,320	51,230	10,080	5.08	5.80	1383.4	64.9	ND	ND	130,650	System operating upon arrival. Significant water on flor ~2". Both 5 gallon drums placed to catch drips from flange of filter and were full to overflowing. Pumped out water from sump/floor and went to get ice. Collected O&M data and samples. Pumped out settling drums and backflushed carbon filters. Transported samples to LSL in cooler on ice.
12/5/03 10:00	1000	2,849,462	39,032	4,260	9.16	**AD**	2,752,152	25,832	4,260	6.06	**AD**	NC	NC	NC	NC	64,864	System operating upon arrival. Shut off influent pumps and pumped out settling drums. OP-TECH on site at ~ 10:15 with vaccum truck. Removed spent carbon media and replaced with fresh media. Noted that screened portions are becoming encrusted with iron. Broke down air stripper and cleaned trays with pressure washer. Used 1/2" spade bit to remove mineralization from periperhy of tray perforations. Reassembled and restarted unit. Cleared sand from WP5D Flow meter. Bled air from carbon filters. Magnehelic at 10.75" w.c. after cleaning.
12/10/03 9:50	950	2,905,140	94,710	11,450	8.27	10.00	2,785,512	59,192	11,450	5.17	4.50	2770	66.4	ND	ND	153,902	System operating upon arrival. Floor dry. Collected O&M data and samples. Pumped out settling trays and backflushed carbon filters. Transported samples to LSL.
12/18/03 10:30	1030	2,997,000	91,860	11,560	7.95	10.10	2,844,462	58,950	11,560	5.10	5.90	2838.7	91	ND	ND	150,810	System operating upon arrival, but in high water column (????) - due to high discharge pressure from air stripper. Collected O&M samples and data. Pumped out settling drums and floor sump. Backflushed GAC filters. Transported samples to LSL.
12/23/03 8:15	8:15	3,037,710	40,710	7,065	5.76	10.00	2,871,780	27,318	7,065	3.87	5.90	2727	77.2	ND	ND	68,028	System operating upon arrival. Discharge at high pressures. Collected O&M data and samples. Pumped out settling drums and backflush carbon filters. Transported samples on ice to LSL. Significant Carbon 'dust' removed during
12/30/03 11:05	11:05	3,134,290	96,580	10,250	9.42	10.10	2,939,070	67,290	10,250	6.56	5.90	2964.6	62.6	ND	ND	163,870	System operating upon arrival. Water on floor of treatment shed. Pumped out floor sump. Went for ice. Collected O&M data and samples. Pumped out settling drums. Backflushed carbon filters. Transport samples to LSL. Flange M at fitter is

ATTACHMENT C
Tabulation of Flow Volumes vs. Analysis Results
Groundwater Recovery and Treatment System Operations and Maintenance Monitoring

NOTES: Flow Volume vs. Analysis Results

232 = WP5-D flow meter clogged with fine sand
NC = Not Collected
Δ (Gallons) indicates number of gallons recovered from respective well since the last flow reading.
Δ (Minutes) indicates number of minutes between the current and previous flow reading.
NR=Not Recorded
NA=Not Applicable
ppb=Pars per billion (ug/L)
ND=None Detected
Cumulative gallons column reflects sum total of water volumes recovered from both wells since the prior air stripper cleaning.
= Flow meter/totalizer for RW-1 was clogged and not recording flow-discovered and remedied on 11/18/02;actual flow for this period unknown. Subsequent total flows between this period and the December 20 air stripper cleaning may not be representative.
Sample of influent from RW-1 not available on September 24, 2002 due to broken sampling port-port subsequently replaced.
** Flow meter/totalizer for RW-1 was not operating during the March 13, 2003 visit, the flow meter/totalizer was replaced; actual flow for this period is unknown. Subsequent total flows between this period and the March 31, 2003 air stripper cleaning may not be representative.
Ψ Laboratory contamination suspected for compound Methylene chloride
AD = Airstripper Down for Cleaning and Carbon Media Change Out
#VALUE! = Unable to Calculate

Attachment D
Laboratory Analysis Results and Chain of Custody Documentation

NFS
02 DEC 03

LSL

Christine Rossi
New York State DEC - Region 7, ER
615 Erie Blvd. W.
Syracuse, NY 13204-2400

Phone: (315) 426-7519
FAX: (315) 426-2653

Laboratory Analysis Report for the New York State Department of Environmental Conservation

Contract Number: C200209

NYS DEC Spill #: **01-60024**

NYS DEC Pin #: **H-529**

LSL Project ID: **0319040**

Receive Date/Time: 12/02/03 12:42 **by:** DB

"I certify that this laboratory has current ELAP certification to provide the analytical results in this report and that the data package is in compliance with the terms and conditions of the contract."

Linda Waters QC — 12/22/03

Reviewed By **Date**

Life Science Laboratories, Inc.

LSL Central Lab	LSL North Lab	LSL Finger Lakes Lab	LSL Southern Tier Lab	LSL Middlesex Lab
5854 Butternut Drive	131 St. Lawrence Avenue	16 N. Main St., PO Box 424	30 East Main St.	5611 Water St.
East Syracuse, NY 13057	Waddington, NY 13694	Wayland, NY 14572	Cuba, NY 14727	Middlesex, NY 14507
Tel. (315) 445-1105	Tel. (315) 388-4476	Tel. (585) 728-3320	Tel. (585) 968-2640	Tel. (585) 554-5347
Fax (315) 445-1301	Fax (315) 388-4061	Fax (585) 728-2711	Fax (585) 968-0906	Fax. (585) 554-6743
NYS DOH ELAP #10248	NYS DOH ELAP #10900	NYS DOH ELAP #11667	NYS DOH ELAP #10760	NYS DOH ELAP #11369

A copy of this report was sent to:

SEM

Date Printed: 12/22/03

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: Outfall 001A **LSL Sample ID:** 0319040-001

Location: NES

Sampled: 12/02/03 11:00 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01- ,EPA 602 Vol. Xyl.+MTBE+TBA					
Trimethylbenzene	<1	ug/l		12/5/03	BD
1,3,5-Trimethylbenzene	<1	ug/l		12/5/03	BD
1,2,4-Trimethylbenzene	<1	ug/l		12/5/03	BD
Benzene	<1	ug/l		12/5/03	BD
Ethyl benzene	<1	ug/l		12/5/03	BD
Toluene	<1	ug/l		12/5/03	BD
Xylenes (Total)	<1	ug/l		12/5/03	BD
Surrogate (1,2-DCA-d4)	72	%R		12/5/03	BD
Surrogate (Tol-d8)	103	%R		12/5/03	BD
Surrogate (4-BFB)	90	%R		12/5/03	BD
(1) ITEM #GW-02- , EPA 601 Vol.					
Carbon tetrachloride	<1	ug/l		12/5/03	BD
Chloroethane	<1	ug/l		12/5/03	BD
Chloroform	<1	ug/l		12/5/03	BD
1,1-Dichloroethane	<1	ug/l		12/5/03	BD
1,2-Dichloroethane	<1	ug/l		12/5/03	BD
1,1-Dichloroethene	<1	ug/l		12/5/03	BD
Methylene chloride	<1	ug/l		12/5/03	BD
Tetrachloroethene	<1	ug/l		12/5/03	BD
1,2-Dichloroethene, Total	<1	ug/l		12/5/03	BD
1,1,1-Trichloroethane	<1	ug/l		12/5/03	BD
1,1,2-Trichloroethane	<1	ug/l		12/5/03	BD
Trichloroethene	<1	ug/l		12/5/03	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		12/5/03	BD
Vinyl chloride	<1	ug/l		12/5/03	BD
Surrogate (1,2-DCA-d4)	72	%R		12/5/03	BD
Surrogate (Tol-d8)	103	%R		12/5/03	BD
Surrogate (4-BFB)	90	%R		12/5/03	BD
(1) ITEM #WT-25- ,EPA 150.1 pH					
pH	8.4	Std. Units		12/2/03 15:15	DSB
pH Measurement Temperature	25	Degrees C		12/2/03 15:15	DSB

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

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: Post Stripper-Precarbon **LSL Sample ID:** 0319040-002

Location: NES

Sampled: 12/02/03 11:05 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01- ,EPA 602 Vol. Xyl.+MTBE+TBA					
Trimethylbenzene	<1	ug/l		12/5/03	BD
1,3,5-Trimethylbenzene	<1	ug/l		12/5/03	BD
1,2,4-Trimethylbenzene	<1	ug/l		12/5/03	BD
Benzene	<1	ug/l		12/5/03	BD
Ethyl benzene	<1	ug/l		12/5/03	BD
Toluene	<1	ug/l		12/5/03	BD
Xylenes (Total)	<1	ug/l		12/5/03	BD
Surrogate (1,2-DCA-d4)	74	%R		12/5/03	BD
Surrogate (Tol-d8)	102	%R		12/5/03	BD
Surrogate (4-BFB)	88	%R		12/5/03	BD
(1) ITEM #GW-02- , EPA 601 Vol.					
Carbon tetrachloride	<1	ug/l		12/5/03	BD
Chloroethane	<1	ug/l		12/5/03	BD
Chloroform	<1	ug/l		12/5/03	BD
1,1-Dichloroethane	<1	ug/l		12/5/03	BD
1,2-Dichloroethane	<1	ug/l		12/5/03	BD
1,1-Dichloroethene	<1	ug/l		12/5/03	BD
Methylene chloride	<1	ug/l		12/5/03	BD
Tetrachloroethene	<1	ug/l		12/5/03	BD
1,2-Dichloroethene, Total	<1	ug/l		12/5/03	BD
1,1,1-Trichloroethane	<1	ug/l		12/5/03	BD
1,1,2-Trichloroethane	<1	ug/l		12/5/03	BD
Trichloroethene	<1	ug/l		12/5/03	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		12/5/03	BD
Vinyl chloride	<1	ug/l		12/5/03	BD
Surrogate (1,2-DCA-d4)	74	%R		12/5/03	BD
Surrogate (Tol-d8)	102	%R		12/5/03	BD
Surrogate (4-BFB)	88	%R		12/5/03	BD

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: RW-1 Influent **LSL Sample ID:** 0319040-003

Location: NES

Sampled: 12/02/03 11:15 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01- ,EPA 602 Vol. Xyl.+MTBE+TBA					
Trimethylbenzene	16	ug/l		12/6/03	BD
1,3,5-Trimethylbenzene	<1	ug/l		12/6/03	BD
1,2,4-Trimethylbenzene	16	ug/l		12/6/03	BD
Benzene	<5	ug/l		12/6/03	BD
Ethyl benzene	31	ug/l		12/6/03	BD
Toluene	<5	ug/l		12/6/03	BD
Xylenes (Total)	150	ug/l		12/6/03	BD
Surrogate (1,2-DCA-d4)	75	%R		12/6/03	BD
Surrogate (Tol-d8)	98	%R		12/6/03	BD
Surrogate (4-BFB)	89	%R		12/6/03	BD
(1) ITEM #GW-02- , EPA 601 Vol.					
Carbon tetrachloride	<5	ug/l		12/6/03	BD
Chloroethane	<5	ug/l		12/6/03	BD
Chloroform	<5	ug/l		12/6/03	BD
1,1-Dichloroethane	60	ug/l		12/6/03	BD
1,2-Dichloroethane	<5	ug/l		12/6/03	BD
1,1-Dichloroethene	6.4	ug/l		12/6/03	BD
Methylene chloride	<5	ug/l		12/6/03	BD
Tetrachloroethene	<5	ug/l		12/6/03	BD
1,2-Dichloroethene, Total	840	ug/l		12/6/03	BD
1,1,1-Trichloroethane	45	ug/l		12/6/03	BD
1,1,2-Trichloroethane	<5	ug/l		12/6/03	BD
Trichloroethene	59	ug/l		12/6/03	BD
Trichlorofluoromethane (Freon 11)	<5	ug/l		12/6/03	BD
Vinyl chloride	160	ug/l		12/6/03	BD
Surrogate (1,2-DCA-d4)	75	%R		12/6/03	BD
Surrogate (Tol-d8)	98	%R		12/6/03	BD
Surrogate (4-BFB)	89	%R		12/6/03	BD

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: WP-5D Influent **LSL Sample ID:** 0319040-004

Location: NES

Sampled: 12/02/03 11:10 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01- ,EPA 602 Vol. Xyl.+MTBE+TBA					
Trimethylbenzene	<1	ug/l		12/6/03	BD
1,3,5-Trimethylbenzene	<1	ug/l		12/6/03	BD
1,2,4-Trimethylbenzene	<1	ug/l		12/6/03	BD
Benzene	<1	ug/l		12/6/03	BD
Ethyl benzene	<1	ug/l		12/6/03	BD
Toluene	<1	ug/l		12/6/03	BD
Xylenes (Total)	<1	ug/l		12/6/03	BD
Surrogate (1,2-DCA-d4)	78	%R		12/6/03	BD
Surrogate (Tol-d8)	102	%R		12/6/03	BD
Surrogate (4-BFB)	91	%R		12/6/03	BD
(1) ITEM #GW-02- , EPA 601 Vol.					
Carbon tetrachloride	<1	ug/l		12/6/03	BD
Chloroethane	8.4	ug/l		12/6/03	BD
Chloroform	<1	ug/l		12/6/03	BD
1,1-Dichloroethane	<1	ug/l		12/6/03	BD
1,2-Dichloroethane	<1	ug/l		12/6/03	BD
1,1-Dichloroethene	<1	ug/l		12/6/03	BD
Methylene chloride	<1	ug/l		12/6/03	BD
Tetrachloroethene	<1	ug/l		12/6/03	BD
1,2-Dichloroethene, Total	8.5	ug/l		12/6/03	BD
1,1,1-Trichloroethane	<1	ug/l		12/6/03	BD
1,1,2-Trichloroethane	<1	ug/l		12/6/03	BD
Trichloroethene	<1	ug/l		12/6/03	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		12/6/03	BD
Vinyl chloride	48	ug/l		12/6/03	BD
Surrogate (1,2-DCA-d4)	78	%R		12/6/03	BD
Surrogate (Tol-d8)	102	%R		12/6/03	BD
Surrogate (4-BFB)	91	%R		12/6/03	BD

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: Trip Blank **LSL Sample ID:** 0319040-005

Location: NES

Sampled: 12/02/03 0:00 **Sampled By:**

Sample Matrix: TB

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01- ,EPA 602 Vol. Xyl.+MTBE+TBA					
Trimethylbenzene	<1	ug/l		12/6/03	BD
1,3,5-Trimethylbenzene	<1	ug/l		12/6/03	BD
1,2,4-Trimethylbenzene	<1	ug/l		12/6/03	BD
Benzene	<1	ug/l		12/6/03	BD
Ethyl benzene	<1	ug/l		12/6/03	BD
Toluene	<1	ug/l		12/6/03	BD
Xylenes (Total)	<1	ug/l		12/6/03	BD
Surrogate (1,2-DCA-d4)	80	%R		12/6/03	BD
Surrogate (Tol-d8)	103	%R		12/6/03	BD
Surrogate (4-BFB)	91	%R		12/6/03	BD
(1) ITEM #GW-02- , EPA 601 Vol.					
Carbon tetrachloride	<1	ug/l		12/6/03	BD
Chloroethane	<1	ug/l		12/6/03	BD
Chloroform	15	ug/l		12/6/03	BD
Laboratory contamination is suspected.					
1,1-Dichloroethane	<1	ug/l		12/6/03	BD
1,2-Dichloroethane	<1	ug/l		12/6/03	BD
1,1-Dichloroethene	<1	ug/l		12/6/03	BD
Methylene chloride	<1	ug/l		12/6/03	BD
Tetrachloroethene	<1	ug/l		12/6/03	BD
1,2-Dichloroethene, Total	<1	ug/l		12/6/03	BD
1,1,1-Trichloroethane	<1	ug/l		12/6/03	BD
1,1,2-Trichloroethane	<1	ug/l		12/6/03	BD
Trichloroethene	<1	ug/l		12/6/03	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		12/6/03	BD
Vinyl chloride	<1	ug/l		12/6/03	BD
Surrogate (1,2-DCA-d4)	80	%R		12/6/03	BD
Surrogate (Tol-d8)	103	%R		12/6/03	BD
Surrogate (4-BFB)	91	%R		12/6/03	BD

SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

8/14/02

Method	Surrogate(s)	Water Limits, %R	SHW Limits, %R
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

0319040
NYSDEC7SyrCR

STRATEGIC ENVIRONMENTAL MANAG

SAMPLE CUSTODY RECORD

BALDWINSVILLE OFFICE
25 ½ Water Street
Baldwinsville, New York 13027
Telephone: (315) 635-8936
Facsimile: (315) 635-2380

SEM Project Number: 3003.0050
SEM Contact Person: Mark Graves
Project Location: Canastota, New York

CANTON OFFICE
3 Remington Avenue, Suite D
Canton, New York 13617
Telephone: (315) 386-2736
Facsimile: (315) 386-4736

Laboratory: Life Science Laboratories
Project Identification: NES NYSDEC Spill No. 01-60024/PIN No. H-~~530~~ 529
Page _1__ of _1__

Per Mark Graves

Report and Invoice Address: Christine Rossi
NYSDEC Region 7
615 Erie Blvd West.
Syracuse, NY 13204-2400
Phone: 315-426-7466

Client's Sample Identification	Date	Collection Time	Sample Location	Number of Containers	Comp or Grab	Preservatives	Sample Matrix	Parameters: EPA 601/602	Parameters: pH	Parameters	Parameters	Notes/Comments
001A	12/2/03	1100	Outfall 001A	2	G	HCl	NPW	X	X			Samples hand delivered to lab in
PA/PC		1105	Post Stripper-Precarbon	2	G	HCl	NPW	X				cooler on ice.
RW-1		1115	RW-1 Influent	2	G	HCl	NPW	X				
WP-5D		1110	WP- 5D Influent	2	G	HCl	NPW	X				
TB		—	Trip Blank	2	G	HCl	NPW	X				

001/ABC
002AB
003AB
004AB
005AB

Sample Custody SAMPLE COLLECTION	Sample Custody RELINQUISH SAMPLE CUSTODY	Sample Custody ACCEPT AND RECEIVE SAMPLE CUSTODY
Name: Mark Graves	Name: Mark Graves Time: 1242	Name: Time:
Signature: Mark Graves	Signature: Mark Graves Date: 12/2/03	Signature: Date:
Sample TAT: Normal 14 Day	Name: Time:	Laboratory: Time:
	Signature: Date:	Signature: 12-02-03 12:42 Date:

1.9°C on ice

LSL

Christine Rossi
New York State DEC - Region 7, ER
615 Erie Blvd. W.
Syracuse, NY 13204-2400

Phone: (315) 426-7519
FAX: (315) 426-2653

Laboratory Analysis Report for the New York State Department of Environmental Conservation

Contract Number: C200209

NYS DEC Spill #: **0211253**

NYS DEC Pin #: **02805**

LSL Project ID: **0319364**

Receive Date/Time: 12/08/03 9:46 **by:** ME

"I certify that this laboratory has current ELAP certification to provide the analytical results in this report and that the data package is in compliance with the terms and conditions of the contract."

Reviewed By — Date: 12-11-03

Life Science Laboratories, Inc.

LSL Central Lab	LSL North Lab	LSL Finger Lakes Lab	LSL Southern Tier Lab	LSL Middlesex Lab
5854 Butternut Drive	131 St. Lawrence Avenue	16 N. Main St., PO Box 424	30 East Main St.	5611 Water St.
East Syracuse, NY 13057	Waddington, NY 13694	Wayland, NY 14572	Cuba, NY 14727	Middlesex, NY 14507
Tel. (315) 445-1105	Tel. (315) 388-4476	Tel. (585) 728-3320	Tel. (585) 968-2640	Tel. (585) 554-5347
Fax (315) 445-1301	Fax (315) 388-4061	Fax (585) 728-2711	Fax (585) 968-0906	Fax. (585) 554-6743
NYS DOH ELAP #10248	NYS DOH ELAP #10900	NYS DOH ELAP #11667	NYS DOH ELAP #10760	NYS DOH ELAP #11369

A copy of this report was sent to:

Nature's Way

Date Printed: 12/11/03

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: Pump & Treat Effluent **LSL Sample ID:** 0319364-001

Location:

Sampled: 12/05/03 15:00 **Sampled By:** DM

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #SS-13- ,EPA 8260B					
t-Butyl alcohol	<1000	ug/l		12/11/03	LEF
MTBE	<5	ug/l		12/11/03	LEF
Acetone	<10	ug/l		12/11/03	LEF
Benzene	<5	ug/l		12/11/03	LEF
Bromodichloromethane	<5	ug/l		12/11/03	LEF
Bromoform	<5	ug/l		12/11/03	LEF
Bromomethane	<5	ug/l		12/11/03	LEF
2-Butanone (MEK)	<10	ug/l		12/11/03	LEF
Carbon disulfide	<5	ug/l		12/11/03	LEF
Carbon tetrachloride	<5	ug/l		12/11/03	LEF
Chlorobenzene	<5	ug/l		12/11/03	LEF
Chloroethane	<5	ug/l		12/11/03	LEF
Chloroform	<5	ug/l		12/11/03	LEF
Chloromethane	<5	ug/l		12/11/03	LEF
Dibromochloromethane	<5	ug/l		12/11/03	LEF
1,1-Dichloroethane	<5	ug/l		12/11/03	LEF
1,2-Dichloroethane	<5	ug/l		12/11/03	LEF
1,1-Dichloroethene	<5	ug/l		12/11/03	LEF
1,2-Dichloroethene, Total	<5	ug/l		12/11/03	LEF
1,2-Dichloropropane	<5	ug/l		12/11/03	LEF
cis-1,3-Dichloropropene	<5	ug/l		12/11/03	LEF
trans-1,3-Dichloropropene	<5	ug/l		12/11/03	LEF
Ethyl benzene	<5	ug/l		12/11/03	LEF
2-Hexanone	<10	ug/l		12/11/03	LEF
Methylene chloride	<10	ug/l		12/11/03	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l		12/11/03	LEF
Styrene	<5	ug/l		12/11/03	LEF
1,1,2,2-Tetrachloroethane	<5	ug/l		12/11/03	LEF
Tetrachloroethene	<5	ug/l		12/11/03	LEF
Toluene	<5	ug/l		12/11/03	LEF
1,1,1-Trichloroethane	<5	ug/l		12/11/03	LEF
1,1,2-Trichloroethane	<5	ug/l		12/11/03	LEF
Trichloroethene	<5	ug/l		12/11/03	LEF
Vinyl chloride	<5	ug/l		12/11/03	LEF
Xylenes (Total)	<5	ug/l		12/11/03	LEF
Surrogate (4-BFB)	107	%R		12/11/03	LEF
Surrogate (Tol-d8)	106	%R		12/11/03	LEF
Surrogate (1,2-DCA-d4)	103	%R		12/11/03	LEF
(1) ITEM #SS-15- , EPA 8270 TCL B/N					
Acenaphthene	<5	ug/l	12/10/03	12/11/03	CRT
Acenaphthylene	<5	ug/l	12/10/03	12/11/03	CRT
Anthracene	<5	ug/l	12/10/03	12/11/03	CRT
Benzo(a)anthracene	<5	ug/l	12/10/03	12/11/03	CRT
Benzo(b)fluoranthene	<5	ug/l	12/10/03	12/11/03	CRT
Benzo(k)fluoranthene	<5	ug/l	12/10/03	12/11/03	CRT
Benzo(ghi)perylene	<5	ug/l	12/10/03	12/11/03	CRT

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: Pump & Treat Effluent **LSL Sample ID:** 0319364-001

Location:

Sampled: 12/05/03 15:00 **Sampled By:** DM

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #SS-15- , EPA 8270 TCL B/N					
Benzo(a)pyrene	<5	ug/l	12/10/03	12/11/03	CRT
4-Bromophenyl-phenylether	<5	ug/l	12/10/03	12/11/03	CRT
Butylbenzylphthalate	11	ug/l	12/10/03	12/11/03	CRT
Carbazole	<5	ug/l	12/10/03	12/11/03	CRT
4-Chloroaniline	<5	ug/l	12/10/03	12/11/03	CRT
bis(2-Chloroethoxy)methane	<5	ug/l	12/10/03	12/11/03	CRT
bis(2-Chloroethyl)ether	<5	ug/l	12/10/03	12/11/03	CRT
2-Chloronaphthalene	<5	ug/l	12/10/03	12/11/03	CRT
4-Chlorophenyl-phenylether	<5	ug/l	12/10/03	12/11/03	CRT
Chrysene	<5	ug/l	12/10/03	12/11/03	CRT
Dibenz(a,h)anthracene	<5	ug/l	12/10/03	12/11/03	CRT
Dibenzofuran	<5	ug/l	12/10/03	12/11/03	CRT
Di-n-butylphthalate	<5	ug/l	12/10/03	12/11/03	CRT
1,2-Dichlorobenzene	<5	ug/l	12/10/03	12/11/03	CRT
1,3-Dichlorobenzene	<5	ug/l	12/10/03	12/11/03	CRT
1,4-Dichlorobenzene	<5	ug/l	12/10/03	12/11/03	CRT
3,3'-Dichlorobenzidine	<10	ug/l	12/10/03	12/11/03	CRT
Diethylphthalate	<5	ug/l	12/10/03	12/11/03	CRT
Dimethylphthalate	<5	ug/l	12/10/03	12/11/03	CRT
2,4-Dinitrotoluene	<5	ug/l	12/10/03	12/11/03	CRT
2,6-Dinitrotoluene	<5	ug/l	12/10/03	12/11/03	CRT
Di-n-octylphthalate	<5	ug/l	12/10/03	12/11/03	CRT
bis(2-Ethylhexyl)phthalate	<5	ug/l	12/10/03	12/11/03	CRT
Fluoranthene	<5	ug/l	12/10/03	12/11/03	CRT
Fluorene	<5	ug/l	12/10/03	12/11/03	CRT
Hexachlorobenzene	<5	ug/l	12/10/03	12/11/03	CRT
Hexachlorobutadiene	<5	ug/l	12/10/03	12/11/03	CRT
Hexachlorocyclopentadiene	<5	ug/l	12/10/03	12/11/03	CRT
Hexachloroethane	<5	ug/l	12/10/03	12/11/03	CRT
Indeno(1,2,3-c,d)pyrene	<5	ug/l	12/10/03	12/11/03	CRT
Isophorone	<5	ug/l	12/10/03	12/11/03	CRT
2-Methylnaphthalene	<5	ug/l	12/10/03	12/11/03	CRT
Naphthalene	<5	ug/l	12/10/03	12/11/03	CRT
2-Nitroaniline	<10	ug/l	12/10/03	12/11/03	CRT
3-Nitroaniline	<10	ug/l	12/10/03	12/11/03	CRT
4-Nitroaniline	<10	ug/l	12/10/03	12/11/03	CRT
Nitrobenzene	<5	ug/l	12/10/03	12/11/03	CRT
N-Nitrosodiphenylamine	<5	ug/l	12/10/03	12/11/03	CRT
N-Nitroso-di-n-propylamine	<5	ug/l	12/10/03	12/11/03	CRT
Phenanthrene	<5	ug/l	12/10/03	12/11/03	CRT
1,2,4-Trichlorobenzene	<5	ug/l	12/10/03	12/11/03	CRT
Pyrene	<5	ug/l	12/10/03	12/11/03	CRT
(1) ITEM #TC-04-C, EPA 8260B 10 Largest TICs					
Tentatively Identified Compounds	None Found			12/11/03	LEF
Surrogate (1,2-DCA-d4)	103	%R		12/11/03	LEF
Surrogate (Tol-d8)	106	%R		12/11/03	LEF

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: Pump & Treat Effluent **LSL Sample ID:** 0319364-001

Location:

Sampled: 12/05/03 15:00 **Sampled By:** DM

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #TC-04-C, EPA 8260B 10 Largest TICs					
Surrogate (4-BFB)	107	%R		12/11/03	LEF

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

MES
10 DEC 03

LSL

Christine Rossi
New York State DEC - Region 7, ER
615 Erie Blvd. W.
Syracuse, NY 13204-2400

Phone: (315) 426-7519
FAX: (315) 426-2653

Laboratory Analysis Report for the New York State Department of Environmental Conservation

Contract Number: C200209

NYS DEC Spill #: **01-60024**

NYS DEC Pin #: **H-0529**

LSL Project ID: **0319555**

Receive Date/Time: 12/10/03 11:33 **by:** GS

"I certify that this laboratory has current ELAP certification to provide the analytical results in this report and that the data package is in compliance with the terms and conditions of the contract."

Linda Waters QC 12/29/03

Reviewed By **Date**

Life Science Laboratories, Inc.

LSL Central Lab	LSL North Lab	LSL Finger Lakes Lab	LSL Southern Tier Lab	LSL Middlesex Lab
5854 Butternut Drive	131 St. Lawrence Avenue	16 N. Main St., PO Box 424	30 East Main St.	5611 Water St.
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NYS DOH ELAP #10248	NYS DOH ELAP #10900	NYS DOH ELAP #11667	NYS DOH ELAP #10760	NYS DOH ELAP #11369

A copy of this report was sent to:

SEM

Date Printed: 12/29/03

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER Syracuse, NY

Sample ID: Influent-RW-1 **LSL Sample ID:** 0319555-001

Location: NES

Sampled: 12/10/03 9:35 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01- ,EPA 602 Vol. Xyl.+MTBE+TBA					
Benzene	<5	ug/l		12/22/03	BD
Ethyl benzene	25	ug/l		12/22/03	BD
Toluene	480	ug/l		12/22/03	BD
Xylenes (Total)	130	ug/l		12/22/03	BD
Surrogate (1,2-DCA-d4)	105	%R		12/22/03	BD
Surrogate (Tol-d8)	102	%R		12/22/03	BD
Surrogate (4-BFB)	102	%R		12/22/03	BD
(1) ITEM #GW-02- , EPA 601 Vol.					
1,3,5-Trimethylbenzene	<5	ug/l		12/22/03	BD
1,2,4-Trimethylbenzene	15	ug/l		12/22/03	BD
cis-1,2-Dichloroethene	840	ug/l		12/22/03	BD
Carbon tetrachloride	<5	ug/l		12/22/03	BD
Chloroethane	<5	ug/l		12/22/03	BD
Chloroform	<5	ug/l		12/22/03	BD
1,1-Dichloroethane	71	ug/l		12/22/03	BD
1,2-Dichloroethane	<5	ug/l		12/22/03	BD
1,1-Dichloroethene	7.2	ug/l		12/22/03	BD
trans-1,2-Dichloroethene	5.4	ug/l		12/22/03	BD
Methylene chloride	<5	ug/l		12/22/03	BD
Tetrachloroethene	<5	ug/l		12/22/03	BD
1,1,1-Trichloroethane	68	ug/l		12/22/03	BD
1,1,2-Trichloroethane	<5	ug/l		12/22/03	BD
Trichlorofluoromethane (Freon 11)	<5	ug/l		12/22/03	BD
Vinyl chloride	190	ug/l		12/22/03	BD
Surrogate (1,2-DCA-d4)	105	%R		12/22/03	BD
Surrogate (Tol-d8)	102	%R		12/22/03	BD
Surrogate (4-BFB)	102	%R		12/22/03	BD

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: **Influent WP-5D** **LSL Sample ID:** **0319555-002**

Location: NES

Sampled: 12/10/03 9:30 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01- ,EPA 602 Vol. Xyl.+MTBE+TBA					
Benzene	<1	ug/l		12/18/03	BD
Ethyl benzene	<1	ug/l		12/18/03	BD
Toluene	<1	ug/l		12/18/03	BD
Xylenes (Total)	<1	ug/l		12/18/03	BD
Surrogate (1,2-DCA-d4)	109	%R		12/18/03	BD
Surrogate (Tol-d8)	105	%R		12/18/03	BD
Surrogate (4-BFB)	106	%R		12/18/03	BD
(1) ITEM #GW-02- , EPA 601 Vol.					
1,3,5-Trimethylbenzene	<1	ug/l		12/18/03	BD
1,2,4-Trimethylbenzene	<1	ug/l		12/18/03	BD
cis-1,2-Dichloroethene	7.7	ug/l		12/18/03	BD
Carbon tetrachloride	<1	ug/l		12/18/03	BD
Chloroethane	8.0	ug/l		12/18/03	BD
Chloroform	<1	ug/l		12/18/03	BD
1,1-Dichloroethane	<1	ug/l		12/18/03	BD
1,2-Dichloroethane	<1	ug/l		12/18/03	BD
1,1-Dichloroethene	<1	ug/l		12/18/03	BD
trans-1,2-Dichloroethene	<1	ug/l		12/18/03	BD
Methylene chloride	<1	ug/l		12/18/03	BD
Tetrachloroethene	<1	ug/l		12/18/03	BD
1,1,1-Trichloroethane	<1	ug/l		12/18/03	BD
1,1,2-Trichloroethane	<1	ug/l		12/18/03	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		12/18/03	BD
Vinyl chloride	43	ug/l		12/18/03	BD
Surrogate (1,2-DCA-d4)	109	%R		12/18/03	BD
Surrogate (Tol-d8)	105	%R		12/18/03	BD
Surrogate (4-BFB)	106	%R		12/18/03	BD

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: **Post-Air Stripper (Pre-Carbon)** **LSL Sample ID:** **0319555-003**

Location: NES

Sampled: 12/10/03 9:40 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01- ,EPA 602 Vol. Xyl.+MTBE+TBA					
Benzene	<1	ug/l		12/18/03	BD
Ethyl benzene	<1	ug/l		12/18/03	BD
Toluene	<1	ug/l		12/18/03	BD
Xylenes (Total)	<1	ug/l		12/18/03	BD
Surrogate (1,2-DCA-d4)	108	%R		12/18/03	BD
Surrogate (Tol-d8)	106	%R		12/18/03	BD
Surrogate (4-BFB)	107	%R		12/18/03	BD
(1) ITEM #GW-02- , EPA 601 Vol.					
1,3,5-Trimethylbenzene	<1	ug/l		12/18/03	BD
1,2,4-Trimethylbenzene	<1	ug/l		12/18/03	BD
cis-1,2-Dichloroethene	<1	ug/l		12/18/03	BD
Carbon tetrachloride	<1	ug/l		12/18/03	BD
Chloroethane	<1	ug/l		12/18/03	BD
Chloroform	<1	ug/l		12/18/03	BD
1,1-Dichloroethane	<1	ug/l		12/18/03	BD
1,2-Dichloroethane	<1	ug/l		12/18/03	BD
1,1-Dichloroethene	<1	ug/l		12/18/03	BD
trans-1,2-Dichloroethene	<1	ug/l		12/18/03	BD
Methylene chloride	<1	ug/l		12/18/03	BD
Tetrachloroethene	<1	ug/l		12/18/03	BD
1,1,1-Trichloroethane	<1	ug/l		12/18/03	BD
1,1,2-Trichloroethane	<1	ug/l		12/18/03	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		12/18/03	BD
Vinyl chloride	<1	ug/l		12/18/03	BD
Surrogate (1,2-DCA-d4)	108	%R		12/18/03	BD
Surrogate (Tol-d8)	106	%R		12/18/03	BD
Surrogate (4-BFB)	107	%R		12/18/03	BD

Life Science Laboratories, Inc.

Date Printed: 12/29/03

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER Syracuse, NY

Sample ID: Final GWT Sysyem Discharge (Outfall 001A) **LSL Sample ID:** 0319555-004

Location: NES

Sampled: 12/10/03 9:45 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01- ,EPA 602 Vol. Xyl.+MTBE+TBA					
Benzene	<1	ug/l		12/18/03	BD
Ethyl benzene	<1	ug/l		12/18/03	BD
Toluene	<1	ug/l		12/18/03	BD
Xylenes (Total)	<1	ug/l		12/18/03	BD
Surrogate (1,2-DCA-d4)	108	%R		12/18/03	BD
Surrogate (Tol-d8)	107	%R		12/18/03	BD
Surrogate (4-BFB)	109	%R		12/18/03	BD
(1) ITEM #GW-02- , EPA 601 Vol.					
1,3,5-Trimethylbenzene	<1	ug/l		12/18/03	BD
1,2,4-Trimethylbenzene	<1	ug/l		12/18/03	BD
cis-1,2-Dichloroethene	<1	ug/l		12/18/03	BD
Carbon tetrachloride	<1	ug/l		12/18/03	BD
Chloroethane	<1	ug/l		12/18/03	BD
Chloroform	<1	ug/l		12/18/03	BD
1,1-Dichloroethane	<1	ug/l		12/18/03	BD
1,2-Dichloroethane	<1	ug/l		12/18/03	BD
1,1-Dichloroethene	<1	ug/l		12/18/03	BD
trans-1,2-Dichloroethene	<1	ug/l		12/18/03	BD
Methylene chloride	<1	ug/l		12/18/03	BD
Tetrachloroethene	<1	ug/l		12/18/03	BD
1,1,1-Trichloroethane	<1	ug/l		12/18/03	BD
1,1,2-Trichloroethane	<1	ug/l		12/18/03	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		12/18/03	BD
Vinyl chloride	<1	ug/l		12/18/03	BD
Surrogate (1,2-DCA-d4)	108	%R		12/18/03	BD
Surrogate (Tol-d8)	107	%R		12/18/03	BD
Surrogate (4-BFB)	109	%R		12/18/03	BD

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: **Trip Blank** **LSL Sample ID:** **0319555-005**

Location: NES

Sampled: 12/10/03 0:00 **Sampled By:**

Sample Matrix: TB

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01- ,EPA 602 Vol. Xyl.+MTBE+TBA					
Benzene	<1	ug/l		12/18/03	BD
Ethyl benzene	<1	ug/l		12/18/03	BD
Toluene	<1	ug/l		12/18/03	BD
Xylenes (Total)	<1	ug/l		12/18/03	BD
Surrogate (1,2-DCA-d4)	102	%R		12/18/03	BD
Surrogate (Tol-d8)	108	%R		12/18/03	BD
Surrogate (4-BFB)	110	%R		12/18/03	BD
(1) ITEM #GW-02- , EPA 601 Vol.					
1,3,5-Trimethylbenzene	<1	ug/l		12/18/03	BD
1,2,4-Trimethylbenzene	<1	ug/l		12/18/03	BD
cis-1,2-Dichloroethene	<1	ug/l		12/18/03	BD
Carbon tetrachloride	<1	ug/l		12/18/03	BD
Chloroethane	<1	ug/l		12/18/03	BD
Chloroform	<1	ug/l		12/18/03	BD
1,1-Dichloroethane	<1	ug/l		12/18/03	BD
1,2-Dichloroethane	<1	ug/l		12/18/03	BD
1,1-Dichloroethene	<1	ug/l		12/18/03	BD
trans-1,2-Dichloroethene	<1	ug/l		12/18/03	BD
Methylene chloride	<1	ug/l		12/18/03	BD
Tetrachloroethene	<1	ug/l		12/18/03	BD
1,1,1-Trichloroethane	<1	ug/l		12/18/03	BD
1,1,2-Trichloroethane	<1	ug/l		12/18/03	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		12/18/03	BD
Vinyl chloride	<1	ug/l		12/18/03	BD
Surrogate (1,2-DCA-d4)	102	%R		12/18/03	BD
Surrogate (Tol-d8)	108	%R		12/18/03	BD
Surrogate (4-BFB)	110	%R		12/18/03	BD

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

8/14/02

Method	Surrogate(s)	Water Limits, %R	SHW Limits, %R
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

This VOA list needs to be made into a reference for SEM - NES Site. gde 12/4/03

Northeast Environmental Services Site

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning September 1, 2002 and lasting until August 31, 2007 the discharges from the treatment facility to water index number O-66-11-P26-33-7, Class C, Dutch Settlement Creek shall be limited and monitored by the operator as specified below:

Outfall Number and Parameter	Discharge Limitations		Units	Minimum Monitoring Requirements	
	Daily Avg.	Daily Max		Measurement Frequency	Sample Type
Outfall 001 - Treated Groundwater Remediation Discharge monitored:					
Flow	Monitor	Monitor	GPD	Continuous	Recorder
pH (range)	6.5 to 8.5		SU	Monthly	Grab
Benzene	Monitor	0.01	mg/l	Weekly	Grab
Carbon Tetrachloride	Monitor	0.01	mg/l	Weekly	Grab
Chloroethane	Monitor	0.03	mg/l	Weekly	Grab
Chloroform	Monitor	0.01	mg/l	Weekly	Grab
1,1-Dichloroethane	Monitor	0.01	mg/l	Weekly	Grab
1,2 Dichloroethane	Monitor	0.01	mg/l	Weekly	Grab
1,1-Dichloroethylene	Monitor	0.01	mg/l	Weekly	Grab
1,2-Dichloroethylene (cis and trans)	Monitor	0.03	mg/l	Weekly	Grab
Methylene Chloride	Monitor	0.01	mg/l	Weekly	Grab
Ethylbenzene	Monitor	0.01	mg/l	Weekly	Grab
Tetrachloroethylene (tetrachloroethene)	Monitor	0.003	mg/l	Weekly	Grab
1,1,1-Trichloroethane	Monitor	0.01	mg/l	Weekly	Grab
1,1,2-Trichloroethane	None	Monitor	mg/l	Monthly	Grab
1,2,4-Trimethylbenzene ✓	Monitor	0.01	mg/l	Weekly	Grab
Trichloroethylene	Monitor	0.01	mg/l	Weekly	Grab
Trichlorofluoromethane (freon 11)	Monitor	0.01	mg/l	Weekly	Grab
Trimethylbenzene (Cumene ×)	Monitor	0.01	mg/l	Weekly	Grab
Toluene	Monitor	0.01	mg/l	Weekly	Grab
Vinyl Chloride	Monitor	0.05	mg/l	Weekly	Grab
Xylenes, Total	Monitor	0.01	mg/l	Weekly	Grab
Total Recoverable forms of Cadmium, Copper, Iron, Lead, Nickel, Silver and Zinc	None	Monitor	mg/l	Quarterly	Grab

per discussion with Mark 12/17 Cumene is not needed. Report trimethylbenzene as individual isomers as well as total

LW

ylene = ethene

Use this VOA list for ~~6319249~~

NYSDEC 0319040

0319555
NYSDEC7SyrCR

STRATEGIC ENVIRONMENTAL MANAGEMENT, INC

SAMPLE CUSTODY RECORD

BALDWINSVILLE OFFICE
25 ½ Water Street
Baldwinsville, New York 13027
Telephone: (315) 635-8936
Facsimile: (315) 635-2380

SEM Project Number: 3003.0050
SEM Contact Person: Nevin Bradford
Project Location: Canastota, New York

CANTON OFFICE
3 Remington Avenue, Suite D
Canton, New York 13617
Telephone: (315) 386-2736
Facsimile: (315) 386-4736

Laboratory: Life Science Laboratories
Project Identification: NES NYSDEC Spill No. 01-60024/Pin # H-0529
Page _1__ of _1__

Report and Invoice Address: ~~Timothy DiGiulio, P.E.~~ CHRIS ROSSI
NYSDEC Region 7
615 Erie Boulevard W.
Syracuse, NY 13202
Phone: 315-426-7471

Client's Sample Identification	Date	Collection Time	Sample Location	Number of Containers	Comp or Grab	Preservatives	Sample Matrix	Parameters: EPA Method 601 + 602				Notes/Comments
01A,B RW1	12/10/03	0935	Influent-RW-1	2	G	HCl	NPW					Hand deliver in Cooler w ice.
02A,B WP5D		0930	Influent WP-5D									
03A,B PA/PC		0940	Post-Air Stripper (Pre-Carbon)									
04A,B 01A		0945	Final GWT System Discharge (Outfall 01A)									
05A,B TB		—	Trip Blank									

Copy of Report to: Nevin Bradford
Strategic Environmental Mngt.
25 ½ Water Street
Baldwinsville, New York 13027

Sample Custody — SAMPLE COLLECTION
Name: MARK GRAVES
Signature: Mark Graves
Sample TAT: Normal 14 Day

Sample Custody — RELINQUISH SAMPLE CUSTODY
Name: MARK GRAVES Time: 1131
Signature: Mark Graves Date: 12/10/03
Name: Time:
Signature: Date:

Sample Custody — ACCEPT AND RECEIVE SAMPLE CUSTODY
Name: Time:
Signature: Date:
Laboratory: Time:
Signature: 12-11-03 11:33 RCVD

Revised
1E DEC 03

Tim Digiulio
New York State DEC - Region 7, ER
615 Erie Blvd. W.
Syracuse, NY 13204-2400

Phone: (315) 426-7519
FAX: (315) 426-2653

Revised Laboratory Analysis Report for the New York State Department of Environmental Conservation

Contract Number: C200209

NYS DEC Spill #: **01-60024**

NYS DEC Pin #: **H-0529**

LSL Project ID: **0320023**

Receive Date/Time: 12/18/03 12:54 **by:** CDG

"I certify that this laboratory has current ELAP certification to provide the analytical results in this report and that the data package is in compliance with the terms and conditions of the contract."

Linda Waters QC — 2/2/04

Reviewed By **Date**

Life Science Laboratories, Inc.

LSL Central Lab	LSL North Lab	LSL Finger Lakes Lab	LSL Southern Tier Lab	LSL Middlesex Lab
5854 Butternut Drive	131 St. Lawrence Avenue	16 N. Main St., PO Box 424	30 East Main St.	5611 Water St.
East Syracuse, NY 13057	Waddington, NY 13694	Wayland, NY 14572	Cuba, NY 14727	Middlesex, NY 14507
Tel. (315) 445-1105	Tel. (315) 388-4476	Tel. (585) 728-3320	Tel. (585) 968-2640	Tel. (585) 554-5347
Fax (315) 445-1301	Fax (315) 388-4061	Fax (585) 728-2711	Fax (585) 968-0906	Fax. (585) 554-6743
NYS DOH ELAP #10248	NYS DOH ELAP #10900	NYS DOH ELAP #11667	NYS DOH ELAP #10760	NYS DOH ELAP #11369

-- REVISED LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: Influent-RW-1 **LSL Sample ID:** 0320023-001

Location: NES

Sampled: 12/18/03 10:45 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01-C,EPA 602 Volatiles by 624					
Benzene	<5	ug/l		12/31/03	BD
Ethyl benzene	32	ug/l		12/31/03	BD
Toluene	660	ug/l		12/31/03	BD
1,2,4-Trimethylbenzene	17	ug/l		12/31/03	BD
1,3,5-Trimethylbenzene	<5	ug/l		12/31/03	BD
Xylenes (Total)	150	ug/l		12/31/03	BD
Surrogate (1,2-DCA-d4)	87	%R		12/31/03	BD
Surrogate (Tol-d8)	109	%R		12/31/03	BD
Surrogate (4-BFB)	98	%R		12/31/03	BD
(1) ITEM #GW-02-C, EPA 601 Volatiles by 624					
Carbon tetrachloride	<5	ug/l		12/31/03	BD
Chloroethane	<5	ug/l		12/31/03	BD
Chloroform	<5	ug/l		12/31/03	BD
1,1-Dichloroethane	70	ug/l		12/31/03	BD
1,2-Dichloroethane	<5	ug/l		12/31/03	BD
1,1-Dichloroethene	5.7	ug/l		12/31/03	BD
cis-1,2-Dichloroethene	790	ug/l		12/31/03	BD
trans-1,2-Dichloroethene	<5	ug/l		12/31/03	BD
1,2-Dichloroethene, Total	790	ug/l		12/31/03	BD
Methylene chloride	<5	ug/l		12/31/03	BD
Tetrachloroethene	<5	ug/l		12/31/03	BD
1,1,1-Trichloroethane	45	ug/l		12/31/03	BD
1,1,2-Trichloroethane	<5	ug/l		12/31/03	BD
Trichloroethene	62	ug/l		12/31/03	BD
Trichlorofluoromethane (Freon 11)	<5	ug/l		12/31/03	BD
Vinyl chloride	200	ug/l		12/31/03	BD
Surrogate (1,2-DCA-d4)	87	%R		12/31/03	BD
Surrogate (Tol-d8)	109	%R		12/31/03	BD
Surrogate (4-BFB)	98	%R		12/31/03	BD

Original Report Date: 01/05/04 **Life Science Laboratories, Inc.** Date Printed: 2/2/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- REVISED LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: **Influent WP-5D** **LSL Sample ID:** **0320023-002**

Location: NES

Sampled: 12/18/03 10:40 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01-C,EPA 602 Volatiles by 624					
Benzene	<1	ug/l		12/31/03	BD
Ethyl benzene	<1	ug/l		12/31/03	BD
Toluene	<1	ug/l		12/31/03	BD
1,2,4-Trimethylbenzene	<1	ug/l		12/31/03	BD
1,3,5-Trimethylbenzene	<1	ug/l		12/31/03	BD
Xylenes (Total)	<1	ug/l		12/31/03	BD
Surrogate (1,2-DCA-d4)	87	%R		12/31/03	BD
Surrogate (Tol-d8)	114	%R		12/31/03	BD
Surrogate (4-BFB)	100	%R		12/31/03	BD
(1) ITEM #GW-02-C, EPA 601 Volatiles by 624					
Carbon tetrachloride	<1	ug/l		12/31/03	BD
Chloroethane	12	ug/l		12/31/03	BD
Chloroform	<1	ug/l		12/31/03	BD
1,1-Dichloroethane	<1	ug/l		12/31/03	BD
1,2-Dichloroethane	<1	ug/l		12/31/03	BD
1,1-Dichloroethene	<1	ug/l		12/31/03	BD
cis-1,2-Dichloroethene	8.5	ug/l		12/31/03	BD
trans-1,2-Dichloroethene	<1	ug/l		12/31/03	BD
1,2-Dichloroethene, Total	8.5	ug/l		12/31/03	BD
Methylene chloride	<1	ug/l		12/31/03	BD
Tetrachloroethene	<1	ug/l		12/31/03	BD
1,1,1-Trichloroethane	<1	ug/l		12/31/03	BD
1,1,2-Trichloroethane	<1	ug/l		12/31/03	BD
Trichloroethene	<1	ug/l		12/31/03	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		12/31/03	BD
Vinyl chloride	62	ug/l		12/31/03	BD
Surrogate (1,2-DCA-d4)	87	%R		12/31/03	BD
Surrogate (Tol-d8)	114	%R		12/31/03	BD
Surrogate (4-BFB)	100	%R		12/31/03	BD

Original Report Date: 01/05/04 **Life Science Laboratories, Inc.** **Date Printed:** 2/2/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- REVISED LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: Post-Air Stripper (Pre-Carbon) **LSL Sample ID:** 0320023-003

Location: NES

Sampled: 12/18/03 10:35 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01-C,EPA 602 Volatiles by 624					
Benzene	<1	ug/l		12/31/03	BD
Ethyl benzene	<1	ug/l		12/31/03	BD
Toluene	<1	ug/l		12/31/03	BD
1,2,4-Trimethylbenzene	<1	ug/l		12/31/03	BD
1,3,5-Trimethylbenzene	<1	ug/l		12/31/03	BD
Xylenes (Total)	<1	ug/l		12/31/03	BD
Surrogate (1,2-DCA-d4)	88	%R		12/31/03	BD
Surrogate (Tol-d8)	114	%R		12/31/03	BD
Surrogate (4-BFB)	98	%R		12/31/03	BD
(1) ITEM #GW-02-C, EPA 601 Volatiles by 624					
Carbon tetrachloride	<1	ug/l		12/31/03	BD
Chloroethane	<1	ug/l		12/31/03	BD
Chloroform	<1	ug/l		12/31/03	BD
1,1-Dichloroethane	<1	ug/l		12/31/03	BD
1,2-Dichloroethane	<1	ug/l		12/31/03	BD
1,1-Dichloroethene	<1	ug/l		12/31/03	BD
cis-1,2-Dichloroethene	<1	ug/l		12/31/03	BD
trans-1,2-Dichloroethene	<1	ug/l		12/31/03	BD
1,2-Dichloroethene, Total	<1	ug/l		12/31/03	BD
Methylene chloride	<1	ug/l		12/31/03	BD
Tetrachloroethene	<1	ug/l		12/31/03	BD
1,1,1-Trichloroethane	<1	ug/l		12/31/03	BD
1,1,2-Trichloroethane	<1	ug/l		12/31/03	BD
Trichloroethene	<1	ug/l		12/31/03	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		12/31/03	BD
Vinyl chloride	<1	ug/l		12/31/03	BD
Surrogate (1,2-DCA-d4)	88	%R		12/31/03	BD
Surrogate (Tol-d8)	114	%R		12/31/03	BD
Surrogate (4-BFB)	98	%R		12/31/03	BD

Original Report Date: 01/05/04 **Life Science Laboratories, Inc.** **Date Printed:** 2/2/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- REVISED LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: Final GWT System Discharge (Outfall 01A) **LSL Sample ID:** 0320023-004

Location: NES

Sampled: 12/18/03 10:30 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01-C,EPA 602 Volatiles by 624					
Benzene	<1	ug/l		12/30/03	BD
Ethyl benzene	<1	ug/l		12/30/03	BD
Toluene	<1	ug/l		12/30/03	BD
1,2,4-Trimethylbenzene	<1	ug/l		12/30/03	BD
1,3,5-Trimethylbenzene	<1	ug/l		12/30/03	BD
Xylenes (Total)	<1	ug/l		12/30/03	BD
Surrogate (1,2-DCA-d4)	100	%R		12/30/03	BD
Surrogate (Tol-d8)	114	%R		12/30/03	BD
Surrogate (4-BFB)	100	%R		12/30/03	BD
(1) ITEM #GW-02-C, EPA 601 Volatiles by 624					
Carbon tetrachloride	<1	ug/l		12/30/03	BD
Chloroethane	<1	ug/l		12/30/03	BD
Chloroform	<1	ug/l		12/30/03	BD
1,1-Dichloroethane	<1	ug/l		12/30/03	BD
1,2-Dichloroethane	<1	ug/l		12/30/03	BD
1,1-Dichloroethene	<1	ug/l		12/30/03	BD
cis-1,2-Dichloroethene	<1	ug/l		12/30/03	BD
trans-1,2-Dichloroethene	<1	ug/l		12/30/03	BD
1,2-Dichloroethene, Total	<1	ug/l		12/30/03	BD
Methylene chloride	<1	ug/l		12/30/03	BD
Tetrachloroethene	<1	ug/l		12/30/03	BD
1,1,1-Trichloroethane	<1	ug/l		12/30/03	BD
1,1,2-Trichloroethane	<1	ug/l		12/30/03	BD
Trichloroethene	<1	ug/l		12/30/03	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		12/30/03	BD
Vinyl chloride	<1	ug/l		12/30/03	BD
Surrogate (1,2-DCA-d4)	100	%R		12/30/03	BD
Surrogate (Tol-d8)	114	%R		12/30/03	BD
Surrogate (4-BFB)	100	%R		12/30/03	BD

Original Report Date: 01/05/04 **Life Science Laboratories, Inc.** **Date Printed:** 2/2/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- REVISED LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: Trip Blank **LSL Sample ID:** 0320023-005

Location: NES

Sampled: 12/18/03 0:00 **Sampled By:**

Sample Matrix: TB

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01-C,EPA 602 Volatiles by 624					
Benzene	<1	ug/l		12/30/03	BD
Ethyl benzene	<1	ug/l		12/30/03	BD
Toluene	<1	ug/l		12/30/03	BD
1,2,4-Trimethylbenzene	<1	ug/l		12/30/03	BD
1,3,5-Trimethylbenzene	<1	ug/l		12/30/03	BD
Xylenes (Total)	<1	ug/l		12/30/03	BD
Surrogate (1,2-DCA-d4)	99	%R		12/30/03	BD
Surrogate (Tol-d8)	114	%R		12/30/03	BD
Surrogate (4-BFB)	100	%R		12/30/03	BD
(1) ITEM #GW-02-C, EPA 601 Volatiles by 624					
Carbon tetrachloride	<1	ug/l		12/30/03	BD
Chloroethane	<1	ug/l		12/30/03	BD
Chloroform	<1	ug/l		12/30/03	BD
1,1-Dichloroethane	<1	ug/l		12/30/03	BD
1,2-Dichloroethane	<1	ug/l		12/30/03	BD
1,1-Dichloroethene	<1	ug/l		12/30/03	BD
cis-1,2-Dichloroethene	<1	ug/l		12/30/03	BD
trans-1,2-Dichloroethene	<1	ug/l		12/30/03	BD
1,2-Dichloroethene, Total	<1	ug/l		12/30/03	BD
Methylene chloride	<1	ug/l		12/30/03	BD
Tetrachloroethene	<1	ug/l		12/30/03	BD
1,1,1-Trichloroethane	<1	ug/l		12/30/03	BD
1,1,2-Trichloroethane	<1	ug/l		12/30/03	BD
Trichloroethene	<1	ug/l		12/30/03	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		12/30/03	BD
Vinyl chloride	<1	ug/l		12/30/03	BD
Surrogate (1,2-DCA-d4)	99	%R		12/30/03	BD
Surrogate (Tol-d8)	114	%R		12/30/03	BD
Surrogate (4-BFB)	100	%R		12/30/03	BD

Original Report Date: 01/05/04 **Life Science Laboratories, Inc.** **Date Printed:** 2/2/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

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

Method	Surrogate(s)	Water Limits, %R	SHW Limits, %R
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

STRATEGIC ENVIRONMENTAL MANAGEMENT, INC.

SAMPLE CUSTODY RECORD

BALDWINSVILLE OFFICE
25 ½ Water Street
Baldwinsville, New York 13027
Telephone: (315) 635-8936
Facsimile: (315) 635-2380

SEM Project Number: 3003.0050
SEM Contact Person: Mark Graves
Project Location: Canastota, New York

CANTON OFFICE
3 Remington Avenue, Suite D
Canton, New York 13617
Telephone: (315) 386-2736
Facsimile: (315) 386-4736

Laboratory: Life Science Laboratories
Project Identification: NES NYSDEC Spill No. 01-60024/Pin # H-0529
Page _1__ of _1__

Report and Invoice Address: Timothy DiGiulio, P.E.
NYSDEC Region 7
615 Erie Boulevard W.
Syracuse, NY 13202
Phone: 315-426-7471

Client's Sample Identification	Date	Collection Time	Sample Location	Number of Containers	Comp or Grab	Preservatives	Sample Matrix	Parameters: EPA Method 601 + 602				Notes/Comments
001 A/D RW-1	12/8/03	1045	Influent-RW-1	2	G	HCl	NPW	X				0320023 NYSDEC7SyrCR
002 WP-5D		1040	Influent WP-5D	2	G	HCl	NPW	X				
003 PA/PC		1035	Post-Air Stripper (Pre-Carbon)	2	G	HCl	NPW	X				
004 O1A		1030	Final GWT System Discharge (Outfall 01A)	2	G	HCl	NPW	X				
005 TB		—	Trip Blank	2	G	HCl	NPW	X				

Copy of Report to Mark Graves
Strategic Environmental Mngt.
25 ½ Water Street
Baldwinsville, New York 13027

Sample Custody SAMPLE COLLECTION	Sample Custody RELINQUISH SAMPLE CUSTODY	Sample Custody ACCEPT AND RECEIVE SAMPLE CUSTODY
Name: MARK GRAVES	Name: MARK GRAVES Time: 1254	Name: Time:
Signature: Mark Graves	Signature: Mark Graves Date: 12/8/03	Signature: Date:
Sample TAT: Normal 14 Day	Name: Time:	Laboratory: Time:
	Signature: Date:	Signature: Date: 12-10-03 12:54 RCVD

0.2°C

Christine Rossi
New York State DEC - Region 7, ER
615 Erie Blvd. W.
Syracuse, NY 13204-2400

Phone: (315) 426-7519
FAX: (315) 426-2653

Laboratory Analysis Report for the New York State Department of Environmental Conservation

Contract Number: C200209

NYS DEC Spill #: **01-60024**

NYS DEC Pin #: **H-529**

LSL Project ID: **0320215**

Receive Date/Time: 12/23/03 11:51 **by:** GS

"I certify that this laboratory has current ELAP certification to provide the analytical results in this report and that the data package is in compliance with the terms and conditions of the contract."

Lynda M. Hart 1-5-04

Reviewed By **Date**

Life Science Laboratories, Inc.

LSL Central Lab	LSL North Lab	LSL Finger Lakes Lab	LSL Southern Tier Lab	LSL Middlesex Lab
5854 Butternut Drive	131 St. Lawrence Avenue	16 N. Main St., PO Box 424	30 East Main St.	5611 Water St.
East Syracuse, NY 13057	Waddington, NY 13694	Wayland, NY 14572	Cuba, NY 14727	Middlesex, NY 14507
Tel. (315) 445-1105	Tel. (315) 388-4476	Tel. (585) 728-3320	Tel. (585) 968-2640	Tel. (585) 554-5347
Fax (315) 445-1301	Fax (315) 388-4061	Fax (585) 728-2711	Fax (585) 968-0906	Fax. (585) 554-6743
NYS DOH ELAP #10248	NYS DOH ELAP #10900	NYS DOH ELAP #11667	NYS DOH ELAP #10760	NYS DOH ELAP #11369

A copy of this report was sent to:

SEM

Date Printed: 1/5/04

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: Outfall 001A **LSL Sample ID:** 0320215-001

Location:

Sampled: 12/23/03 9:40 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01- ,EPA 602 Vol. Xyl.+MTBE+TBA					
Benzene	<1	ug/l		12/31/03	BD
Chlorobenzene	<1	ug/l		12/31/03	BD
1,2-Dichlorobenzene	<1	ug/l		12/31/03	BD
1,3-Dichlorobenzene	<1	ug/l		12/31/03	BD
1,4-Dichlorobenzene	<1	ug/l		12/31/03	BD
Ethyl benzene	<1	ug/l		12/31/03	BD
MTBE	<1	ug/l		12/31/03	BD
Toluene	<1	ug/l		12/31/03	BD
Xylenes (Total)	<1	ug/l		12/31/03	BD
t-Butyl alcohol	<200	ug/l		12/31/03	BD
Surrogate (1,2-DCA-d4)	87	%R		12/31/03	BD
Surrogate (Tol-d8)	115	%R		12/31/03	BD
Surrogate (4-BFB)	96	%R		12/31/03	BD
(1) ITEM #GW-02- , EPA 601 Vol.					
Bromodichloromethane	<1	ug/l		12/31/03	BD
Bromoform	<1	ug/l		12/31/03	BD
Bromomethane	<1	ug/l		12/31/03	BD
Carbon tetrachloride	<1	ug/l		12/31/03	BD
Chlorobenzene	<1	ug/l		12/31/03	BD
Chloroethane	<1	ug/l		12/31/03	BD
2-Chloroethylvinyl ether	<10	ug/l		12/31/03	BD
Chloroform	<1	ug/l		12/31/03	BD
Chloromethane	<1	ug/l		12/31/03	BD
Dibromochloromethane	<1	ug/l		12/31/03	BD
1,2-Dichlorobenzene	<1	ug/l		12/31/03	BD
1,3-Dichlorobenzene	<1	ug/l		12/31/03	BD
1,4-Dichlorobenzene	<1	ug/l		12/31/03	BD
Dichlorodifluoromethane	<1	ug/l		12/31/03	BD
1,1-Dichloroethane	<1	ug/l		12/31/03	BD
1,2-Dichloroethane	<1	ug/l		12/31/03	BD
1,1-Dichloroethene	<1	ug/l		12/31/03	BD
trans-1,2-Dichloroethene	<1	ug/l		12/31/03	BD
1,2-Dichloropropane	<1	ug/l		12/31/03	BD
cis-1,3-Dichloropropene	<1	ug/l		12/31/03	BD
trans-1,3-Dichloropropene	<1	ug/l		12/31/03	BD
Methylene chloride	<1	ug/l		12/31/03	BD
1,1,2,2-Tetrachloroethane	<1	ug/l		12/31/03	BD
Tetrachloroethene	<1	ug/l		12/31/03	BD
1,1,1-Trichloroethane	<1	ug/l		12/31/03	BD
1,1,2-Trichloroethane	<1	ug/l		12/31/03	BD
Trichloroethene	<1	ug/l		12/31/03	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		12/31/03	BD
Vinyl chloride	<1	ug/l		12/31/03	BD
Surrogate (1,2-DCA-d4)	87	%R		12/31/03	BD
Surrogate (Tol-d8)	115	%R		12/31/03	BD
Surrogate (4-BFB)	96	%R		12/31/03	BD

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER Syracuse, NY

Sample ID: Post Stripper-Precarbon **LSL Sample ID:** 0320215-002

Location:

Sampled: 12/23/03 9:35 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01- ,EPA 602 Vol. Xyl.+MTBE+TBA					
Benzene	<1	ug/l		1/1/04	BD
Chlorobenzene	<1	ug/l		1/1/04	BD
1,2-Dichlorobenzene	<1	ug/l		1/1/04	BD
1,3-Dichlorobenzene	<1	ug/l		1/1/04	BD
1,4-Dichlorobenzene	<1	ug/l		1/1/04	BD
Ethyl benzene	<1	ug/l		1/1/04	BD
MTBE	<1	ug/l		1/1/04	BD
Toluene	<1	ug/l		1/1/04	BD
Xylenes (Total)	<1	ug/l		1/1/04	BD
t-Butyl alcohol	<200	ug/l		1/1/04	BD
Surrogate (1,2-DCA-d4)	88	%R		1/1/04	BD
Surrogate (Tol-d8)	116	%R		1/1/04	BD
Surrogate (4-BFB)	97	%R		1/1/04	BD
(1) ITEM #GW-02- , EPA 601 Vol.					
Bromodichloromethane	<1	ug/l		1/1/04	BD
Bromoform	<1	ug/l		1/1/04	BD
Bromomethane	<1	ug/l		1/1/04	BD
Carbon tetrachloride	<1	ug/l		1/1/04	BD
Chlorobenzene	<1	ug/l		1/1/04	BD
Chloroethane	<1	ug/l		1/1/04	BD
2-Chloroethylvinyl ether	<10	ug/l		1/1/04	BD
Chloroform	<1	ug/l		1/1/04	BD
Chloromethane	<1	ug/l		1/1/04	BD
Dibromochloromethane	<1	ug/l		1/1/04	BD
1,2-Dichlorobenzene	<1	ug/l		1/1/04	BD
1,3-Dichlorobenzene	<1	ug/l		1/1/04	BD
1,4-Dichlorobenzene	<1	ug/l		1/1/04	BD
Dichlorodifluoromethane	<1	ug/l		1/1/04	BD
1,1-Dichloroethane	<1	ug/l		1/1/04	BD
1,2-Dichloroethane	<1	ug/l		1/1/04	BD
1,1-Dichloroethene	<1	ug/l		1/1/04	BD
trans-1,2-Dichloroethene	<1	ug/l		1/1/04	BD
1,2-Dichloropropane	<1	ug/l		1/1/04	BD
cis-1,3-Dichloropropene	<1	ug/l		1/1/04	BD
trans-1,3-Dichloropropene	<1	ug/l		1/1/04	BD
Methylene chloride	<1	ug/l		1/1/04	BD
1,1,2,2-Tetrachloroethane	<1	ug/l		1/1/04	BD
Tetrachloroethene	<1	ug/l		1/1/04	BD
1,1,1-Trichloroethane	<1	ug/l		1/1/04	BD
1,1,2-Trichloroethane	<1	ug/l		1/1/04	BD
Trichloroethene	<1	ug/l		1/1/04	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		1/1/04	BD
Vinyl chloride	<1	ug/l		1/1/04	BD
Surrogate (1,2-DCA-d4)	88	%R		1/1/04	BD
Surrogate (Tol-d8)	116	%R		1/1/04	BD
Surrogate (4-BFB)	97	%R		1/1/04	BD

Life Science Laboratories, Inc.

Date Printed: 1/5/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER Syracuse, NY

Sample ID: RW-1 Influent **LSL Sample ID:** 0320215-003

Location:

Sampled: 12/23/03 9:30 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01- ,EPA 602 Vol. Xyl.+MTBE+TBA					
Benzene	<5	ug/l		1/1/04	BD
Chlorobenzene	<5	ug/l		1/1/04	BD
1,2-Dichlorobenzene	<5	ug/l		1/1/04	BD
1,3-Dichlorobenzene	<5	ug/l		1/1/04	BD
1,4-Dichlorobenzene	<5	ug/l		1/1/04	BD
Ethyl benzene	33	ug/l		1/1/04	BD
MTBE	<5	ug/l		1/1/04	BD
Toluene	710	ug/l		1/1/04	BD
Xylenes (Total)	150	ug/l		1/1/04	BD
t-Butyl alcohol	<1000	ug/l		1/1/04	BD
Surrogate (1,2-DCA-d4)	88	%R		1/1/04	BD
Surrogate (Tol-d8)	108	%R		1/1/04	BD
Surrogate (4-BFB)	102	%R		1/1/04	BD
(1) ITEM #GW-02- , EPA 601 Vol.					
Bromodichloromethane	<5	ug/l		1/1/04	BD
Bromoform	<5	ug/l		1/1/04	BD
Bromomethane	<5	ug/l		1/1/04	BD
Carbon tetrachloride	<5	ug/l		1/1/04	BD
Chlorobenzene	<5	ug/l		1/1/04	BD
Chloroethane	<5	ug/l		1/1/04	BD
2-Chloroethylvinyl ether	<50	ug/l		1/1/04	BD
Chloroform	<5	ug/l		1/1/04	BD
Chloromethane	<5	ug/l		1/1/04	BD
Dibromochloromethane	<5	ug/l		1/1/04	BD
1,2-Dichlorobenzene	<5	ug/l		1/1/04	BD
1,3-Dichlorobenzene	<5	ug/l		1/1/04	BD
1,4-Dichlorobenzene	<5	ug/l		1/1/04	BD
Dichlorodifluoromethane	<5	ug/l		1/1/04	BD
1,1-Dichloroethane	67	ug/l		1/1/04	BD
1,2-Dichloroethane	<5	ug/l		1/1/04	BD
1,1-Dichloroethene	<5	ug/l		1/1/04	BD
trans-1,2-Dichloroethene	<5	ug/l		1/1/04	BD
1,2-Dichloropropane	<5	ug/l		1/1/04	BD
cis-1,3-Dichloropropene	<5	ug/l		1/1/04	BD
trans-1,3-Dichloropropene	<5	ug/l		1/1/04	BD
Methylene chloride	<5	ug/l		1/1/04	BD
1,1,2,2-Tetrachloroethane	<5	ug/l		1/1/04	BD
Tetrachloroethene	<5	ug/l		1/1/04	BD
1,1,1-Trichloroethane	39	ug/l		1/1/04	BD
1,1,2-Trichloroethane	<5	ug/l		1/1/04	BD
Trichloroethene	52	ug/l		1/1/04	BD
Trichlorofluoromethane (Freon 11)	<5	ug/l		1/1/04	BD
Vinyl chloride	200	ug/l		1/1/04	BD
Surrogate (1,2-DCA-d4)	88	%R		1/1/04	BD
Surrogate (Tol-d8)	108	%R		1/1/04	BD
Surrogate (4-BFB)	102	%R		1/1/04	BD

Life Science Laboratories, Inc.

Date Printed: 1/5/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: WP-5D Influent **LSL Sample ID:** 0320215-004

Location:

Sampled: 12/23/03 9:20 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01- ,EPA 602 Vol. Xyl.+MTBE+TBA					
Benzene	<1	ug/l		1/1/04	BD
Chlorobenzene	<1	ug/l		1/1/04	BD
1,2-Dichlorobenzene	<1	ug/l		1/1/04	BD
1,3-Dichlorobenzene	<1	ug/l		1/1/04	BD
1,4-Dichlorobenzene	<1	ug/l		1/1/04	BD
Ethyl benzene	<1	ug/l		1/1/04	BD
MTBE	<1	ug/l		1/1/04	BD
Toluene	<1	ug/l		1/1/04	BD
Xylenes (Total)	<1	ug/l		1/1/04	BD
t-Butyl alcohol	<200	ug/l		1/1/04	BD
Surrogate (1,2-DCA-d4)	91	%R		1/1/04	BD
Surrogate (Tol-d8)	114	%R		1/1/04	BD
Surrogate (4-BFB)	96	%R		1/1/04	BD
(1) ITEM #GW-02- , EPA 601 Vol.					
Bromodichloromethane	<1	ug/l		1/1/04	BD
Bromoform	<1	ug/l		1/1/04	BD
Bromomethane	<1	ug/l		1/1/04	BD
Carbon tetrachloride	<1	ug/l		1/1/04	BD
Chlorobenzene	<1	ug/l		1/1/04	BD
Chloroethane	11	ug/l		1/1/04	BD
2-Chloroethylvinyl ether	<10	ug/l		1/1/04	BD
Chloroform	<1	ug/l		1/1/04	BD
Chloromethane	<1	ug/l		1/1/04	BD
Dibromochloromethane	<1	ug/l		1/1/04	BD
1,2-Dichlorobenzene	<1	ug/l		1/1/04	BD
1,3-Dichlorobenzene	<1	ug/l		1/1/04	BD
1,4-Dichlorobenzene	<1	ug/l		1/1/04	BD
Dichlorodifluoromethane	<1	ug/l		1/1/04	BD
1,1-Dichloroethane	<1	ug/l		1/1/04	BD
1,2-Dichloroethane	<1	ug/l		1/1/04	BD
1,1-Dichloroethene	<1	ug/l		1/1/04	BD
trans-1,2-Dichloroethene	<1	ug/l		1/1/04	BD
1,2-Dichloropropane	<1	ug/l		1/1/04	BD
cis-1,3-Dichloropropene	<1	ug/l		1/1/04	BD
trans-1,3-Dichloropropene	<1	ug/l		1/1/04	BD
Methylene chloride	<1	ug/l		1/1/04	BD
1,1,2,2-Tetrachloroethane	<1	ug/l		1/1/04	BD
Tetrachloroethene	<1	ug/l		1/1/04	BD
1,1,1-Trichloroethane	<1	ug/l		1/1/04	BD
1,1,2-Trichloroethane	<1	ug/l		1/1/04	BD
Trichloroethene	<1	ug/l		1/1/04	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		1/1/04	BD
Vinyl chloride	53	ug/l		1/1/04	BD
Surrogate (1,2-DCA-d4)	91	%R		1/1/04	BD
Surrogate (Tol-d8)	114	%R		1/1/04	BD
Surrogate (4-BFB)	96	%R		1/1/04	BD

Life Science Laboratories, Inc.

Date Printed: 1/5/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: Trip Blank **LSL Sample ID:** 0320215-005

Location:

Sampled: 12/23/03 9:15 **Sampled By:** MG

Sample Matrix: TB

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01- ,EPA 602 Vol. Xyl.+MTBE+TBA					
Benzene	<1	ug/l		1/1/04	BD
Chlorobenzene	<1	ug/l		1/1/04	BD
1,2-Dichlorobenzene	<1	ug/l		1/1/04	BD
1,3-Dichlorobenzene	<1	ug/l		1/1/04	BD
1,4-Dichlorobenzene	<1	ug/l		1/1/04	BD
Ethyl benzene	<1	ug/l		1/1/04	BD
MTBE	<1	ug/l		1/1/04	BD
Toluene	<1	ug/l		1/1/04	BD
Xylenes (Total)	<1	ug/l		1/1/04	BD
t-Butyl alcohol	<200	ug/l		1/1/04	BD
Surrogate (1,2-DCA-d4)	90	%R		1/1/04	BD
Surrogate (Tol-d8)	114	%R		1/1/04	BD
Surrogate (4-BFB)	99	%R		1/1/04	BD
(1) ITEM #GW-02- , EPA 601 Vol.					
Bromodichloromethane	<1	ug/l		1/1/04	BD
Bromoform	<1	ug/l		1/1/04	BD
Bromomethane	<1	ug/l		1/1/04	BD
Carbon tetrachloride	<1	ug/l		1/1/04	BD
Chlorobenzene	<1	ug/l		1/1/04	BD
Chloroethane	<1	ug/l		1/1/04	BD
2-Chloroethylvinyl ether	<10	ug/l		1/1/04	BD
Chloroform	<1	ug/l		1/1/04	BD
Chloromethane	<1	ug/l		1/1/04	BD
Dibromochloromethane	<1	ug/l		1/1/04	BD
1,2-Dichlorobenzene	<1	ug/l		1/1/04	BD
1,3-Dichlorobenzene	<1	ug/l		1/1/04	BD
1,4-Dichlorobenzene	<1	ug/l		1/1/04	BD
Dichlorodifluoromethane	<1	ug/l		1/1/04	BD
1,1-Dichloroethane	<1	ug/l		1/1/04	BD
1,2-Dichloroethane	<1	ug/l		1/1/04	BD
1,1-Dichloroethene	<1	ug/l		1/1/04	BD
trans-1,2-Dichloroethene	<1	ug/l		1/1/04	BD
1,2-Dichloropropane	<1	ug/l		1/1/04	BD
cis-1,3-Dichloropropene	<1	ug/l		1/1/04	BD
trans-1,3-Dichloropropene	<1	ug/l		1/1/04	BD
Methylene chloride	<1	ug/l		1/1/04	BD
1,1,2,2-Tetrachloroethane	<1	ug/l		1/1/04	BD
Tetrachloroethene	<1	ug/l		1/1/04	BD
1,1,1-Trichloroethane	<1	ug/l		1/1/04	BD
1,1,2-Trichloroethane	<1	ug/l		1/1/04	BD
Trichloroethene	<1	ug/l		1/1/04	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		1/1/04	BD
Vinyl chloride	<1	ug/l		1/1/04	BD
Surrogate (1,2-DCA-d4)	90	%R		1/1/04	BD
Surrogate (Tol-d8)	114	%R		1/1/04	BD
Surrogate (4-BFB)	99	%R		1/1/04	BD

Life Science Laboratories, Inc.

Date Printed: 1/5/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

8/14/02

Method	Surrogate(s)	Water Limits, %R	SHW Limits, %R
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

STRATEGIC ENVIRONMENTAL MANAGEMENT, INC

SAMPLE CUSTODY RECORD

0320215
NYSDEC7SyrCR

BALDWINSVILLE OFFICE
25 ½ Water Street
Baldwinsville, New York 13027
Telephone: (315) 635-8936
Facsimile: (315) 635-2380

SEM Project Number: 3003.0050
SEM Contact Person: Mark Graves
Project Location: Canastota, New York

[illegible] York 13027
Telephone: (315) 386-2736
Facsimile: (315) 386-4736

Laboratory: Life Science Laboratories
Project Identification: NES NYSDEC Spill No. 01-60024/PIN No. H-~~530~~ 524
Page _1__ of _1__

Report and Invoice Address: Christine Rossi, NYSDEC Region 7, 615 Erie Blvd West. Syracuse. NY 13204-2400, Phone: 315-426-7466

Client's Sample Identification	Date	Collection Time	Sample Location	Number of Containers	Comp or Grab	Preservatives	Sample Matrix	Parameters: EPA 601/602				Notes/Comments
001A	12/23/03	0940	Outfall 001A	2	G	HCl	NPW	X				Samples hand delivered to lab In
PA/PC		0935	Post Stripper-Precarbon	2	G	HCl	NPW	X				cooler on ice.
RW-1		0930	RW-1 Influent	2	G	HCl	NPW	X				
WP-5D		0920	WP- 5D Influent	2	G	HCl	NPW	X				
TB	〃	0915	Trip Blank	2	G	HCl	NPW	X				

001AB
002
003
004
005

Copy of Report to Mark Graves
Strategic Environmental Mngt.
25 ½ Water Street
Baldwinsville, New York 13027

Sample Custody SAMPLE COLLECTION	Sample Custody RELINQUISH SAMPLE CUSTODY	Sample Custody ACCEPT AND RECEIVE SAMPLE CUSTODY
Name: Mark Graves	Name: Mark Graves Time:	Name: Time:
Signature: Mark Graves	Signature: Mark Graves Date: 12/23/03	Signature: Date:
Sample TAT: Normal 14 Day	Name: Time:	Laboratory: Time:
	Signature: Date:	Signature: Date:

36° on Ice

12-23-03 11:51 RCVD

01/05/04 16:22 FAX 315 445 1301 LSL 009

Revised
23 Dec 03

Christine Rossi
New York State DEC - Region 7, ER
615 Erie Blvd. W.
Syracuse, NY 13204-2400

Phone: (315) 426-7519
FAX: (315) 426-2653

Revised Laboratory Analysis Report for the New York State Department of Environmental Conservation

Contract Number: C200209

NYS DEC Spill #: **01-60024**

NYS DEC Pin #: **H-529**

LSL Project ID: **0320215**

Receive Date/Time: 12/23/03 11:51 **by:** GS

"I certify that this laboratory has current ELAP certification to provide the analytical results in this report and that the data package is in compliance with the terms and conditions of the contract."

Linda Waters QC 2/2/04

Reviewed By **Date**

Life Science Laboratories, Inc.

LSL Central Lab	LSL North Lab	LSL Finger Lakes Lab	LSL Southern Tier Lab	LSL Middlesex Lab
5854 Butternut Drive	131 St. Lawrence Avenue	16 N. Main St., PO Box 424	30 East Main St.	5611 Water St.
East Syracuse, NY 13057	Waddington, NY 13694	Wayland, NY 14572	Cuba, NY 14727	Middlesex, NY 14507
Tel. (315) 445-1105	Tel. (315) 388-4476	Tel. (585) 728-3320	Tel. (585) 968-2640	Tel. (585) 554-5347
Fax (315) 445-1301	Fax (315) 388-4061	Fax (585) 728-2711	Fax (585) 968-0906	Fax. (585) 554-6743
NYS DOH ELAP #10248	NYS DOH ELAP #10900	NYS DOH ELAP #11667	NYS DOH ELAP #10760	NYS DOH ELAP #11369

-- REVISED LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: Outfall 001A **LSL Sample ID:** 0320215-001

Location:

Sampled: 12/23/03 9:40 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01-C,EPA 602 Volatiles by 624					
Benzene	<1	ug/l		12/31/03	BD
Ethyl benzene	<1	ug/l		12/31/03	BD
Toluene	<1	ug/l		12/31/03	BD
1,2,4-Trimethylbenzene	<1	ug/l		12/31/03	BD
1,3,5-Trimethylbenzene	<1	ug/l		12/31/03	BD
Xylenes (Total)	<1	ug/l		12/31/03	BD
Surrogate (1,2-DCA-d4)	87	%R		12/31/03	BD
Surrogate (Tol-d8)	115	%R		12/31/03	BD
Surrogate (4-BFB)	96	%R		12/31/03	BD
(1) ITEM #GW-02-C, EPA 601 Volatiles by 624					
Carbon tetrachloride	<1	ug/l		12/31/03	BD
Chloroethane	<1	ug/l		12/31/03	BD
Chloroform	<1	ug/l		12/31/03	BD
1,1-Dichloroethane	<1	ug/l		12/31/03	BD
1,2-Dichloroethane	<1	ug/l		12/31/03	BD
1,1-Dichloroethene	<1	ug/l		12/31/03	BD
cis-1,2-Dichloroethene	<1	ug/l		12/31/03	BD
trans-1,2-Dichloroethene	<1	ug/l		12/31/03	BD
1,2-Dichloroethene, Total	<1	ug/l		12/31/03	BD
Methylene chloride	<1	ug/l		12/31/03	BD
Tetrachloroethene	<1	ug/l		12/31/03	BD
1,1,1-Trichloroethane	<1	ug/l		12/31/03	BD
1,1,2-Trichloroethane	<1	ug/l		12/31/03	BD
Trichloroethene	<1	ug/l		12/31/03	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		12/31/03	BD
Vinyl chloride	<1	ug/l		12/31/03	BD
Surrogate (1,2-DCA-d4)	87	%R		12/31/03	BD
Surrogate (Tol-d8)	115	%R		12/31/03	BD
Surrogate (4-BFB)	96	%R		12/31/03	BD

Original Report Date: 01/05/04 **Life Science Laboratories, Inc.** **Date Printed:** 2/2/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

- - REVISED LABORATORY ANALYSIS REPORT - -

New York State DEC - Region 7, ER Syracuse, NY

Sample ID: Post Stripper-Precarbon **LSL Sample ID:** 0320215-002

Location:

Sampled: 12/23/03 9:35 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01-C,EPA 602 Volatiles by 624					
Benzene	<1	ug/l		1/1/04	BD
Ethyl benzene	<1	ug/l		1/1/04	BD
Toluene	<1	ug/l		1/1/04	BD
1,2,4-Trimethylbenzene	<1	ug/l		1/1/04	BD
1,3,5-Trimethylbenzene	<1	ug/l		1/1/04	BD
Xylenes (Total)	<1	ug/l		1/1/04	BD
Surrogate (1,2-DCA-d4)	88	%R		1/1/04	BD
Surrogate (Tol-d8)	116	%R		1/1/04	BD
Surrogate (4-BFB)	97	%R		1/1/04	BD
(1) ITEM #GW-02-C, EPA 601 Volatiles by 624					
Carbon tetrachloride	<1	ug/l		1/1/04	BD
Chloroethane	<1	ug/l		1/1/04	BD
Chloroform	<1	ug/l		1/1/04	BD
1,1-Dichloroethane	<1	ug/l		1/1/04	BD
1,2-Dichloroethane	<1	ug/l		1/1/04	BD
1,1-Dichloroethene	<1	ug/l		1/1/04	BD
cis-1,2-Dichloroethene	<1	ug/l		1/1/04	BD
trans-1,2-Dichloroethene	<1	ug/l		1/1/04	BD
1,2-Dichloroethene, Total	<1	ug/l		1/1/04	BD
Methylene chloride	<1	ug/l		1/1/04	BD
Tetrachloroethene	<1	ug/l		1/1/04	BD
1,1,1-Trichloroethane	<1	ug/l		1/1/04	BD
1,1,2-Trichloroethane	<1	ug/l		1/1/04	BD
Trichloroethene	<1	ug/l		1/1/04	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		1/1/04	BD
Vinyl chloride	<1	ug/l		1/1/04	BD
Surrogate (1,2-DCA-d4)	88	%R		1/1/04	BD
Surrogate (Tol-d8)	116	%R		1/1/04	BD
Surrogate (4-BFB)	97	%R		1/1/04	BD

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- REVISED LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: RW-1 Influent **LSL Sample ID:** 0320215-003

Location:

Sampled: 12/23/03 9:30 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01-C,EPA 602 Volatiles by 624					
Benzene	<5	ug/l		1/1/04	BD
Ethyl benzene	33	ug/l		1/1/04	BD
Toluene	710	ug/l		1/1/04	BD
1,2,4-Trimethylbenzene	18	ug/l		1/1/04	BD
1,3,5-Trimethylbenzene	<5	ug/l		1/1/04	BD
Xylenes (Total)	150	ug/l		1/1/04	BD
Surrogate (1,2-DCA-d4)	88	%R		1/1/04	BD
Surrogate (Tol-d8)	108	%R		1/1/04	BD
Surrogate (4-BFB)	102	%R		1/1/04	BD
(1) ITEM #GW-02-C, EPA 601 Volatiles by 624					
Carbon tetrachloride	<5	ug/l		1/1/04	BD
Chloroethane	<5	ug/l		1/1/04	BD
Chloroform	<5	ug/l		1/1/04	BD
1,1-Dichloroethane	67	ug/l		1/1/04	BD
1,2-Dichloroethane	<5	ug/l		1/1/04	BD
1,1-Dichloroethene	<5	ug/l		1/1/04	BD
cis-1,2-Dichloroethene	720	ug/l		1/1/04	BD
trans-1,2-Dichloroethene	<5	ug/l		1/1/04	BD
1,2-Dichloroethene, Total	720	ug/l		1/1/04	BD
Methylene chloride	<5	ug/l		1/1/04	BD
Tetrachloroethene	<5	ug/l		1/1/04	BD
1,1,1-Trichloroethane	39	ug/l		1/1/04	BD
1,1,2-Trichloroethane	<5	ug/l		1/1/04	BD
Trichloroethene	52	ug/l		1/1/04	BD
Trichlorofluoromethane (Freon 11)	<5	ug/l		1/1/04	BD
Vinyl chloride	200	ug/l		1/1/04	BD
Surrogate (1,2-DCA-d4)	88	%R		1/1/04	BD
Surrogate (Tol-d8)	108	%R		1/1/04	BD
Surrogate (4-BFB)	102	%R		1/1/04	BD

Original Report Date: 01/05/04 **Life Science Laboratories, Inc.** **Date Printed:** 2/2/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- REVISED LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: WP-5D Influent **LSL Sample ID:** 0320215-004

Location:

Sampled: 12/23/03 9:20 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01-C,EPA 602 Volatiles by 624					
Benzene	<1	ug/l		1/1/04	BD
Ethyl benzene	<1	ug/l		1/1/04	BD
Toluene	<1	ug/l		1/1/04	BD
1,2,4-Trimethylbenzene	<1	ug/l		1/1/04	BD
1,3,5-Trimethylbenzene	<1	ug/l		1/1/04	BD
Xylenes (Total)	<1	ug/l		1/1/04	BD
Surrogate (1,2-DCA-d4)	91	%R		1/1/04	BD
Surrogate (Tol-d8)	114	%R		1/1/04	BD
Surrogate (4-BFB)	96	%R		1/1/04	BD
(1) ITEM #GW-02-C, EPA 601 Volatiles by 624					
Carbon tetrachloride	<1	ug/l		1/1/04	BD
Chloroethane	11	ug/l		1/1/04	BD
Chloroform	<1	ug/l		1/1/04	BD
1,1-Dichloroethane	<1	ug/l		1/1/04	BD
1,2-Dichloroethane	<1	ug/l		1/1/04	BD
1,1-Dichloroethene	<1	ug/l		1/1/04	BD
cis-1,2-Dichloroethene	6.6	ug/l		1/1/04	BD
trans-1,2-Dichloroethene	<1	ug/l		1/1/04	BD
1,2-Dichloroethene, Total	6.6	ug/l		1/1/04	BD
Methylene chloride	<1	ug/l		1/1/04	BD
Tetrachloroethene	<1	ug/l		1/1/04	BD
1,1,1-Trichloroethane	<1	ug/l		1/1/04	BD
1,1,2-Trichloroethane	<1	ug/l		1/1/04	BD
Trichloroethene	<1	ug/l		1/1/04	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		1/1/04	BD
Vinyl chloride	53	ug/l		1/1/04	BD
Surrogate (1,2-DCA-d4)	91	%R		1/1/04	BD
Surrogate (Tol-d8)	114	%R		1/1/04	BD
Surrogate (4-BFB)	96	%R		1/1/04	BD

Original Report Date: 01/05/04 **Life Science Laboratories, Inc.** **Date Printed:** 2/2/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- REVISED LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: Trip Blank **LSL Sample ID:** 0320215-005

Location:

Sampled: 12/23/03 9:15 **Sampled By:** MG

Sample Matrix: TB

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01-C,EPA 602 Volatiles by 624					
Benzene	<1	ug/l		1/1/04	BD
Ethyl benzene	<1	ug/l		1/1/04	BD
Toluene	<1	ug/l		1/1/04	BD
1,2,4-Trimethylbenzene	<1	ug/l		1/1/04	BD
1,3,5-Trimethylbenzene	<1	ug/l		1/1/04	BD
Xylenes (Total)	<1	ug/l		1/1/04	BD
Surrogate (1,2-DCA-d4)	90	%R		1/1/04	BD
Surrogate (Tol-d8)	114	%R		1/1/04	BD
Surrogate (4-BFB)	99	%R		1/1/04	BD
(1) ITEM #GW-02-C, EPA 601 Volatiles by 624					
Carbon tetrachloride	<1	ug/l		1/1/04	BD
Chloroethane	<1	ug/l		1/1/04	BD
Chloroform	<1	ug/l		1/1/04	BD
1,1-Dichloroethane	<1	ug/l		1/1/04	BD
1,2-Dichloroethane	<1	ug/l		1/1/04	BD
1,1-Dichloroethene	<1	ug/l		1/1/04	BD
cis-1,2-Dichloroethene	<1	ug/l		1/1/04	BD
trans-1,2-Dichloroethene	<1	ug/l		1/1/04	BD
1,2-Dichloroethene, Total	<1	ug/l		1/1/04	BD
Methylene chloride	<1	ug/l		1/1/04	BD
Tetrachloroethene	<1	ug/l		1/1/04	BD
1,1,1-Trichloroethane	<1	ug/l		1/1/04	BD
1,1,2-Trichloroethane	<1	ug/l		1/1/04	BD
Trichloroethene	<1	ug/l		1/1/04	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		1/1/04	BD
Vinyl chloride	<1	ug/l		1/1/04	BD
Surrogate (1,2-DCA-d4)	90	%R		1/1/04	BD
Surrogate (Tol-d8)	114	%R		1/1/04	BD
Surrogate (4-BFB)	99	%R		1/1/04	BD

Original Report Date: 01/05/04 **Life Science Laboratories, Inc.** **Date Printed:** 2/2/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

8/14/02

Method	Surrogate(s)	Water Limits, %R	SHW Limits, %R
EPA 504	TCMX	60-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	60-120	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	60-120	NA
EPA 552.2	2,3-DBPA	60-120	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

STRATEGIC ENVIRONMENTAL MANAGEMENT, INC

SAMPLE CUSTODY RECORD

0320215
NYSDEC7SyrCR

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25 ½ Water Street
Baldwinsville, New York 13027
Telephone: (315) 635-8936
Facsimile: (315) 635-2380

SEM Project Number: 3003.0050
SEM Contact Person: Mark Graves
Project Location: Canastota, New York

Telephone: (315) 386-2736
Facsimile: (315) 38[illegible]4736

Laboratory: Life Science Laboratories
Project Identification: NES NYSDEC Spill No. 01-60024/PIN No. H-~~530~~ 529
Page _1__ of _1__

Report and Invoice Address: Christine Rossi, NYSDEC Region 7, 615 Erie Blvd West. Syracuse, NY 13204-2400, Phone: 315-426-7466

Client's Sample Identification	Date	Collection Time	Sample Location	Number of Containers	Comp or Grab	Preservatives	Sample Matrix	Parameters: EPA 601/602				Notes/Comments
001A	12/23/03	0940	Outfall 001A	2	G	HCl	NPW	X				Samples hand delivered to lab in
PA/PC		0935	Post Stripper-Precarbon	2	G	HCl	NPW	X				cooler on ice.
RW-1		0930	RW-1 influent	2	G	HCl	NPW	X				
WP-5D		0920	WP- 5D Influent	2	G	HCl	NPW	X				
TB		0915	Trip Blank	2	G	HCl	NPW	X				

001A
002
003
004
005

Sample Custody SAMPLE COLLECTION	Sample Custody RELINQUISH SAMPLE CUSTODY	Sample Custody ACCEPT AND RECEIVE SAMPLE CUSTODY
Name: Mark Graves	Name: Mark Graves Time:	Name: Time:
Signature: Mark Graves	Signature: Mark Graves Date: 12/23/03	Signature: Date:
Sample TAT: Normal 14 Day	Name: Time:	Laboratory: Time:
	Signature: Date:	Signature: Date: 12-23-03 11:51 RCVD

LSL

Christine Rossi
New York State DEC - Region 7, ER
615 Erie Blvd. W.
Syracuse, NY 13204-2400

Phone: (315) 426-7519
FAX: (315) 426-2653

Revised Laboratory Analysis Report for the New York State Department of Environmental Conservation

Contract Number: C200209

NYS DEC Spill #: **0160024**

NYS DEC Pin #: **H-0529**

LSL Project ID: **0320412**

Receive Date/Time: 12/30/03 12:31 **by:** DB

"I certify that this laboratory has current ELAP certification to provide the analytical results in this report and that the data package is in compliance with the terms and conditions of the contract."

Brenda Waters QC 2/2/04

Reviewed By **Date**

Life Science Laboratories, Inc.

LSL Central Lab	LSL North Lab	LSL Finger Lakes Lab	LSL Southern Tier Lab	LSL Middlesex Lab
5854 Butternut Drive	131 St. Lawrence Avenue	16 N. Main St., PO Box 424	30 East Main St.	5611 Water St.
East Syracuse, NY 13057	Waddington, NY 13694	Wayland, NY 14572	Cuba, NY 14727	Middlesex, NY 14507
Tel. (315) 445-1105	Tel. (315) 388-4476	Tel. (585) 728-3320	Tel. (585) 968-2640	Tel. (585) 554-5347
Fax (315) 445-1301	Fax (315) 388-4061	Fax (585) 728-2711	Fax (585) 968-0906	Fax. (585) 554-6743
NYS DOH ELAP #10248	NYS DOH ELAP #10900	NYS DOH ELAP #11667	NYS DOH ELAP #10760	NYS DOH ELAP #11369

A copy of this report was sent to: *SEM*

Original Report Date: 01/13/04 **Date Printed:** 2/2/04

-- REVISED LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: Influent-RW-1 **LSL Sample ID:** 0320412-001

Location: NES

Sampled: 12/30/03 11:00 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01-C,EPA 602 Volatiles by 624					
Benzene	<5	ug/l		1/6/04	BD
Ethyl benzene	34	ug/l		1/6/04	BD
Toluene	760	ug/l		1/6/04	BD
1,2,4-Trimethylbenzene	20	ug/l		1/6/04	BD
1,3,5-Trimethylbenzene	5.5	ug/l		1/6/04	BD
Xylenes (Total)	180	ug/l		1/6/04	BD
Surrogate (1,2-DCA-d4)	97	%R		1/6/04	BD
Surrogate (Tol-d8)	111	%R		1/6/04	BD
Surrogate (4-BFB)	122	%R		1/6/04	BD
(1) ITEM #GW-02-C, EPA 601 Volatiles by 624					
Carbon tetrachloride	<5	ug/l		1/6/04	BD
Chloroethane	<5	ug/l		1/6/04	BD
Chloroform	<5	ug/l		1/6/04	BD
1,1-Dichloroethane	60	ug/l		1/6/04	BD
1,2-Dichloroethane	<5	ug/l		1/6/04	BD
1,1-Dichloroethene	6.6	ug/l		1/6/04	BD
cis-1,2-Dichloroethene	790	ug/l		1/6/04	BD
trans-1,2-Dichloroethene	<5	ug/l		1/6/04	BD
1,2-Dichloroethene, Total	790	ug/l		1/6/04	BD
Methylene chloride	<5	ug/l		1/6/04	BD
Tetrachloroethene	<5	ug/l		1/6/04	BD
1,1,1-Trichloroethane	44	ug/l		1/6/04	BD
1,1,2-Trichloroethane	<5	ug/l		1/6/04	BD
Trichloroethene	59	ug/l		1/6/04	BD
Trichlorofluoromethane (Freon 11)	<5	ug/l		1/6/04	BD
Vinyl chloride	190	ug/l		1/6/04	BD
Surrogate (1,2-DCA-d4)	97	%R		1/6/04	BD
Surrogate (Tol-d8)	111	%R		1/6/04	BD
Surrogate (4-BFB)	122	%R		1/6/04	BD

Original Report Date: 01/13/04 **Life Science Laboratories, Inc.** **Date Printed:** 2/2/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

- - REVISED LABORATORY ANALYSIS REPORT - -

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: **Influent WP-5D** **LSL Sample ID:** **0320412-002**

Location: NES

Sampled: 12/30/03 11:05 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01-C,EPA 602 Volatiles by 624					
Benzene	<1	ug/l		1/6/04	BD
Ethyl benzene	<1	ug/l		1/6/04	BD
Toluene	<1	ug/l		1/6/04	BD
1,2,4-Trimethylbenzene	<1	ug/l		1/6/04	BD
1,3,5-Trimethylbenzene	<1	ug/l		1/6/04	BD
Xylenes (Total)	<1	ug/l		1/6/04	BD
Surrogate (1,2-DCA-d4)	103	%R		1/6/04	BD
Surrogate (Tol-d8)	113	%R		1/6/04	BD
Surrogate (4-BFB)	125	%R		1/6/04	BD
(1) ITEM #GW-02-C, EPA 601 Volatiles by 624					
Carbon tetrachloride	<1	ug/l		1/6/04	BD
Chloroethane	6.8	ug/l		1/6/04	BD
Chloroform	<1	ug/l		1/6/04	BD
1,1-Dichloroethane	<1	ug/l		1/6/04	BD
1,2-Dichloroethane	<1	ug/l		1/6/04	BD
1,1-Dichloroethene	<1	ug/l		1/6/04	BD
cis-1,2-Dichloroethene	6.9	ug/l		1/6/04	BD
trans-1,2-Dichloroethene	<1	ug/l		1/6/04	BD
1,2-Dichloroethene, Total	6.9	ug/l		1/6/04	BD
Methylene chloride	<1	ug/l		1/6/04	BD
Tetrachloroethene	<1	ug/l		1/6/04	BD
1,1,1-Trichloroethane	<1	ug/l		1/6/04	BD
1,1,2-Trichloroethane	<1	ug/l		1/6/04	BD
Trichloroethene	<1	ug/l		1/6/04	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		1/6/04	BD
Vinyl chloride	42	ug/l		1/6/04	BD
Surrogate (1,2-DCA-d4)	103	%R		1/6/04	BD
Surrogate (Tol-d8)	113	%R		1/6/04	BD
Surrogate (4-BFB)	125	%R		1/6/04	BD

Original Report Date: 01/13/04 **Life Science Laboratories, Inc.** **Date Printed:** 2/2/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

- - REVISED LABORATORY ANALYSIS REPORT - -

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: **Post-Air Stripper (Pre-Carbon)** **LSL Sample ID:** **0320412-003**

Location: NES

Sampled: 12/30/03 11:10 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01-C,EPA 602 Volatiles by 624					
Benzene	<1	ug/l		1/6/04	BD
Ethyl benzene	<1	ug/l		1/6/04	BD
Toluene	<1	ug/l		1/6/04	BD
1,2,4-Trimethylbenzene	<1	ug/l		1/6/04	BD
1,3,5-Trimethylbenzene	<1	ug/l		1/6/04	BD
Xylenes (Total)	<1	ug/l		1/6/04	BD
Surrogate (1,2-DCA-d4)	103	%R		1/6/04	BD
Surrogate (Tol-d8)	112	%R		1/6/04	BD
Surrogate (4-BFB)	123	%R		1/6/04	BD
(1) ITEM #GW-02-C, EPA 601 Volatiles by 624					
Carbon tetrachloride	<1	ug/l		1/6/04	BD
Chloroethane	<1	ug/l		1/6/04	BD
Chloroform	<1	ug/l		1/6/04	BD
1,1-Dichloroethane	<1	ug/l		1/6/04	BD
1,2-Dichloroethane	<1	ug/l		1/6/04	BD
1,1-Dichloroethene	<1	ug/l		1/6/04	BD
cis-1,2-Dichloroethene	<1	ug/l		1/6/04	BD
trans-1,2-Dichloroethene	<1	ug/l		1/6/04	BD
1,2-Dichloroethene, Total	<1	ug/l		1/6/04	BD
Methylene chloride	<1	ug/l		1/6/04	BD
Tetrachloroethene	<1	ug/l		1/6/04	BD
1,1,1-Trichloroethane	<1	ug/l		1/6/04	BD
1,1,2-Trichloroethane	<1	ug/l		1/6/04	BD
Trichloroethene	<1	ug/l		1/6/04	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		1/6/04	BD
Vinyl chloride	<1	ug/l		1/6/04	BD
Surrogate (1,2-DCA-d4)	103	%R		1/6/04	BD
Surrogate (Tol-d8)	112	%R		1/6/04	BD
Surrogate (4-BFB)	123	%R		1/6/04	BD

Original Report Date: 01/13/04 **Life Science Laboratories, Inc.** **Date Printed:** 2/2/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

- - REVISED LABORATORY ANALYSIS REPORT - -

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: **Final GWT System Discharge (Outfall 01A)** **LSL Sample ID:** **0320412-004**

Location: NES

Sampled: 12/30/03 11:15 **Sampled By:** MG

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01-C,EPA 602 Volatiles by 624					
Benzene	<1	ug/l		1/6/04	BD
Ethyl benzene	<1	ug/l		1/6/04	BD
Toluene	<1	ug/l		1/6/04	BD
1,2,4-Trimethylbenzene	<1	ug/l		1/6/04	BD
1,3,5-Trimethylbenzene	<1	ug/l		1/6/04	BD
Xylenes (Total)	<1	ug/l		1/6/04	BD
Surrogate (1,2-DCA-d4)	104	%R		1/6/04	BD
Surrogate (Tol-d8)	113	%R		1/6/04	BD
Surrogate (4-BFB)	121	%R		1/6/04	BD
(1) ITEM #GW-02-C, EPA 601 Volatiles by 624					
Carbon tetrachloride	<1	ug/l		1/6/04	BD
Chloroethane	<1	ug/l		1/6/04	BD
Chloroform	<1	ug/l		1/6/04	BD
1,1-Dichloroethane	<1	ug/l		1/6/04	BD
1,2-Dichloroethane	<1	ug/l		1/6/04	BD
1,1-Dichloroethene	<1	ug/l		1/6/04	BD
cis-1,2-Dichloroethene	<1	ug/l		1/6/04	BD
trans-1,2-Dichloroethene	<1	ug/l		1/6/04	BD
1,2-Dichloroethene, Total	<1	ug/l		1/6/04	BD
Methylene chloride	<1	ug/l		1/6/04	BD
Tetrachloroethene	<1	ug/l		1/6/04	BD
1,1,1-Trichloroethane	<1	ug/l		1/6/04	BD
1,1,2-Trichloroethane	<1	ug/l		1/6/04	BD
Trichloroethene	<1	ug/l		1/6/04	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		1/6/04	BD
Vinyl chloride	<1	ug/l		1/6/04	BD
Surrogate (1,2-DCA-d4)	104	%R		1/6/04	BD
Surrogate (Tol-d8)	113	%R		1/6/04	BD
Surrogate (4-BFB)	121	%R		1/6/04	BD

Original Report Date: 01/13/04 **Life Science Laboratories, Inc.** **Date Printed:** 2/2/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- REVISED LABORATORY ANALYSIS REPORT --

New York State DEC - Region 7, ER *Syracuse, NY*

Sample ID: Trip Blank **LSL Sample ID:** 0320412-005

Location: NES

Sampled: 12/22/03 0:00 **Sampled By:**

Sample Matrix: TB

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ITEM #GW-01-C,EPA 602 Volatiles by 624					
Benzene	<1	ug/l		1/6/04	BD
Ethyl benzene	<1	ug/l		1/6/04	BD
Toluene	<1	ug/l		1/6/04	BD
1,2,4-Trimethylbenzene	<1	ug/l		1/6/04	BD
1,3,5-Trimethylbenzene	<1	ug/l		1/6/04	BD
Xylenes (Total)	<1	ug/l		1/6/04	BD
Surrogate (1,2-DCA-d4)	103	%R		1/6/04	BD
Surrogate (Tol-d8)	114	%R		1/6/04	BD
Surrogate (4-BFB)	120	%R		1/6/04	BD
(1) ITEM #GW-02-C, EPA 601 Volatiles by 624					
Carbon tetrachloride	<1	ug/l		1/6/04	BD
Chloroethane	<1	ug/l		1/6/04	BD
Chloroform	<1	ug/l		1/6/04	BD
1,1-Dichloroethane	<1	ug/l		1/6/04	BD
1,2-Dichloroethane	<1	ug/l		1/6/04	BD
1,1-Dichloroethene	<1	ug/l		1/6/04	BD
cis-1,2-Dichloroethene	<1	ug/l		1/6/04	BD
trans-1,2-Dichloroethene	<1	ug/l		1/6/04	BD
1,2-Dichloroethene, Total	<1	ug/l		1/6/04	BD
Methylene chloride	<1	ug/l		1/6/04	BD
Tetrachloroethene	<1	ug/l		1/6/04	BD
1,1,1-Trichloroethane	<1	ug/l		1/6/04	BD
1,1,2-Trichloroethane	<1	ug/l		1/6/04	BD
Trichloroethene	<1	ug/l		1/6/04	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		1/6/04	BD
Vinyl chloride	<1	ug/l		1/6/04	BD
Surrogate (1,2-DCA-d4)	103	%R		1/6/04	BD
Surrogate (Tol-d8)	114	%R		1/6/04	BD
Surrogate (4-BFB)	120	%R		1/6/04	BD

Original Report Date: 01/13/04 **Life Science Laboratories, Inc.** **Date Printed:** 2/2/04

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

8/14/02

Method	Surrogate(s)	Water Limits, %R	SHW Limits, %R
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

0320412
NYSDEC7SyrCR

STRATEGIC ENVIRONMENTAL MANAGEMENT, INC.

SAMPLE CUSTODY RECORD

BALDWINSVILLE OFFICE
25 ½ Water Street
Baldwinsville, New York 13027
Telephone: (315) 635-8936
Facsimile: (315) 635-2380

SEM Project Number: 3003.0050
SEM Contact Person: Mark Graves
Project Location: Canastota, New York

CANTON OFFICE
3 Remington Avenue, Suite D
Canton, New York 13617
Telephone: (315) 386-2736
Facsimile: (315) 386-4736

Laboratory: Life Science Laboratories
Project Identification: NES NYSDEC Spill No. 01-60024/Pin # H-0529
Page _1__ of _1__

Report and Invoice Address: ~~Timothy DiGiulio, P.E.~~ Chris Rossi
NYSDEC Region 7
615 Erie Boulevard W.
Syracuse, NY 13202
Phone: 315-426-7471

Client's Sample Identification	Date	Collection Time	Sample Location	Number of Containers	Comp or Grab	Preservatives	Sample Matrix	Parameters: EPA Method 601 + 602				Notes/Comments
001AB RW-1	12/30/03	1100	Influent-RW-1	2	G	HCl	NPW	X				Hand deliver
002AB WP-5D		1105	Influent WP-5D	2	G	HCl	NPW	X				samples in cooler
003AB PA/PC		1110	Post-Air Stripper (Pre-Carbon)	2	G	HCl	NPW	X				on ice.
004AB O1A		1115	Final GWT System Discharge (Outfall 01A)	2	G	HCl	NPW	X				
005AB TB		—	Trip Blank	2	G	HCl	NPW	X				

Copy of Report to Mark Graves
Strategic Environmental Mngt.
25 ½ Water Street
Baldwinsville, New York 13027

Sample Custody SAMPLE COLLECTION	Sample Custody RELINQUISH SAMPLE CUSTODY	Sample Custody ACCEPT AND RECEIVE SAMPLE CUSTODY
Name: MARK GRAVES	Name: MARK GRAVES Time:	Name: Time:
Signature: Mark Graves	Signature: Mark Graves Date: 12/30/03	Signature: Date:
Sample TAT: Normal 14 Day	Name: Time:	Laboratory: Time:
	Signature: Date:	Signature: 12-30-03 12:31 RCVD Date:

7.6°C on ice