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Semi-Annual Status Report – January 2003 to June 2003
Air Sparge/SVE System - Operation & Maintenance
Norwich Former MGP Site

Birdsall Road, Norwich, Chenango County, New York

July 29, 2003

Shaw Project: 108196

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July 29, 2003

Mr. Bert W. Finch
New York State Electric & Gas Corporation
Corporate Drive, Kirkwood Industrial Park
P.O. Box 5224
Binghamton, New York 13902-5224

Subject: **Semi-Annual Status Report – January 2003 to June 2003**
Air Sparge/SVE System - Operation & Maintenance
Norwich Former MGP Site
Birdsall Road, Norwich, Chenango County, New York
Shaw Project: 108196

Dear Mr. Finch;

This status report details the operational status of the Air Sparge/Soil Vapor Extraction treatment system at the Norwich former manufactured gas plant (MGP) site. This semi-annual status report covers the period from January 1, 2003 to June 9, 2003.

Total run time for the air sparge and soil vapor extraction (SVE) system during the current reporting period was approximately 74.7%. The system was down upon arrival for the April Operation and Maintenance (O&M) visit. Several alarm conditions were listed due to power outages in mid to late March and other power outage alarms were received periodically during the reporting period. The power outages were related to grid issues according to NYSEG field personnel. The power outages caused approximately 678 hours of downtime. The air sparge and SVE system was restarted on March 25, 2003 and during the April O&M visit, and was operational for the remainder of the reporting period. The air sparge/SVE system was shut down at the conclusion of the June 9, 2003 visit pending a third party evaluation of the system.

The following sections present data associated with each component of the air sparge/SVE system from January 1, 2003 to June 9, 2003.

O&M visits were performed monthly during the reporting period. O&M visits were performed on January 31, February 20, March 17, April 14, May 20 and June 9, 2003.

OPERATION AND MAINTENANCE

During each O&M visit, the system was monitored for airflow and volatile organic compounds (VOCs) utilizing a thermal anemometer and a photoionization detector (PID). Sparge Point Monitoring Points (SPMPs) and selected monitoring wells were monitored for depth to water and dissolved oxygen to track trends in groundwater. Vapor Point Monitoring Points (VPMPs) were checked for vacuum influence during each visit to verify the presence of a net negative pressure within the subsurface of the treatment zone. Individual system components were also monitored to ensure that all process systems were operating within design parameters.

In addition, routine maintenance was performed on treatment system equipment, including greasing of motors, bearings, and oil changes for the rotary lobe blowers. Building ventilation openings were checked regularly to maintain the required ventilation through the treatment building. The SVE heat exchanger was checked during each O&M visit to insure influent and effluent process air temperatures were within desired ranges.

SIGNIFICANT OPERATIONAL NOTES

As previously mentioned, several alarm conditions were listed due to power outages in mid to late March. Other power outage alarms were received periodically during the reporting period. The power outages were related to grid issues according to NYSEG field personnel. No other significant operational issues were encountered during this reporting period.

SOIL VAPOR EXTRACTION SYSTEM

The SVE system was initially activated on December 17, 1999. The three primary horizontal vapor extraction legs were active on a rotational basis until January 2002. A new leg of the SVE system was installed in December 2001. Based upon PID readings collected from the SVE blower effluent, the leg containing HVI-4, HVI-5, HVI-6, and HVI-11 (Leg 3) was idled initially. While PID readings were detected from the other two original system legs as well as from the new leg, no VOCs were detected during the system startup from Leg 3. Groundwater data indicated that this area contained the lowest remaining VOC and SVOC concentrations. Therefore, until this reporting period, Leg 3 had remained idle since the activation of Leg 4. Motor operated valves (MOVs) connected to electronic timers control individual ball valves on each of the active SVE legs. Each SVE leg is programmed to run for 8 hours per day.

The system was alternated between the operation of Legs 1, 2, and 3 during this reporting period, with the exception of Leg 4, which was operated during the entire period due to its proximity to the residential properties.

The SVE system operated at an average flow of 1,456 standard cubic feet per minute (scfm) during the reporting period as measured at the SVE blower effluent. Calculations show a total of 0.9 pounds of Benzene, Toluene, Ethylbenzene and total Xylene (BTEX) were removed during the current reporting period and a cumulative total of 586.04 pounds of BTEX removed since start-up. A total of 760.87 pounds of total VOCs have been calculated to have been removed by the system since start up. System operating data and removal calculations are shown in **Table 1**. VOC recovery data is graphed and illustrated in **Figure 1**. Condensate was not found in the knock out drum from the SVE system during the reporting period.

SVE SYSTEM EFFLUENT

Vapor phase carbon units were installed in the treatment system to adsorb VOCs and maintain a system discharge within New York State Department of Environmental Conservation permitted levels. During early periods of system operation, these vapor phase units were effective in reducing VOC levels in the system final effluent. As system operation continued, a reduction in efficiency was observed. However, declining influent VOC levels allowed the system to continue operating while keeping within permitted discharge levels.

Vapor phase carbon was removed and replaced on December 21, 2001. This allowed the throughput of potential higher concentrations of VOCs as a result of operating the additional air sparge/SVE Leg 4 which was recently installed.

Air samples were collected for laboratory analysis during the June 2003 site visit to track system removal efficiency, and to verify compliance with the air discharge permit. Analytical results of air samples collected during the current period, historical data, and permitted short term and annual guidance levels are presented in **Table 2**. All analytes in these samples show effluent concentrations below permitted levels. Annual discharges for the system continue to be within acceptable levels. Laboratory analytical reports have been included as **Appendix A**.

AIR SPARGE SYSTEM

The air sparge system was initially activated on January 7, 2000. The sparge system is divided into three individual legs, each corresponding to one of the three individual SVE legs. An additional leg was added in December 2001. As discussed previously, operation of Legs 1, 2 and 3 were rotated in order to allow for the operation of the new leg (Leg 4). Each sparge leg runs for 6 hours and idles for an hour prior to and after the respective SVE leg shuts down. There are a total of 26 active sparge points connected to the treatment system. Each sparge

point has operated at a flow rate of approximately 9.3 scfm during the reporting period, with an average flow of approximately 60 scfm per active leg.

Dissolved oxygen levels were measured in monitoring wells during O&M visits beginning in February 2000. Based upon the data collected, effective distribution of sparge air is being achieved. Historical dissolved oxygen data available since February 2000 is tabulated and shown in **Table 3**.

SYSTEM TREATMENT EFFICIENCY

Select monitoring wells as well as SPMPs have been sampled quarterly to track the progress of the treatment system. Monitoring wells were sampled during the current reporting period on June 9, 2003. The groundwater samples were analyzed per USEPA Method 8021 for VOCs and USEPA Method 8270 for SVOCs (PAHs only). All available data has been tabulated and is presented in **Table 4**. A site layout map showing the site surface features, subsurface and above grade piping layout, and monitoring well locations has been included as **Appendix B**.

SPMP-1 and SPMP-2 are the primary monitoring points in the vicinity of the treatment area that would be affected by Legs 1, 2, and 3. Analytical results in well SPMP-2 have shown fluctuating total VOC and SVOC concentrations since May 2001, while total VOC and SVOC concentrations observed in well SPMP-1 during recent sample events are similar to those observed in May 2001. Additional monitoring wells were added to monitor the efficiency of the new leg of the system (Leg 4). Analytical data from monitoring well GW01-14 has not indicated a noticeable decrease in concentration of VOCs since Leg 4 went on line. However, analytical data from monitoring well GW91-6 indicated a substantial decrease in VOC and SVOC concentrations.

In correspondence received on June 17, 2002, the NYSDEC requested that Shaw Environmental evaluate the effect of water table elevation changes on mass removal efficiency. Graphs illustrating fluctuations in water table elevation as compared to mass removal estimates have been included in **Appendix C**. The data contained in the graphs prepared for Leg 1 and Leg 4 are inconclusive due to non-detect blower effluent PID readings observed during this reporting period.

PROPOSED ACTIVITIES

No operation and maintenance activities, with the exception of waste removal from the site, are proposed as the air sparge/SVE system is currently idle. The air sparge/SVE system will remain idle pending the receipt of the third party evaluation of the system. The removal of

carbon, purge water and debris waste streams for disposal at a permitted facility is planned for August 2003.

It is our continuing effort to provide NYSEG with the highest quality environmental services. Should you have any questions or comments concerning this status report, please do not hesitate to contact the undersigned at (518) 783-1996.

Sincerely,

Shaw Environmental, Inc.

John Skaarup
Project Engineer/Project Manager

Shaw Environmental, Inc.

Kurt Bedore, P.E.
Senior Engineer/Project Manager

Attachments:

Table 1	BTEX Recovery
Table 2	Treatment Efficiency
Table 3	Dissolved Oxygen Measured in Performance Monitoring Wells
Table 4	Monitoring Well Data
Figure 1	Soil Vapor Extraction System VOC Recovery
Appendix A	Laboratory Analytical Results
Appendix B	Site Map
Appendix C	Graphs

TABLES

Table 1
NYSEG Former MGP Site
Norwich, New York
Air Sparge/Soil Vapor Extraction System
BTEX Recovery

Sampling Date	Run Time Since Last Visit (hrs) Available / Actual	SVE Operation Since Last O&M Visit (%)	SVE Blower Effluent Flow Velocity (6" diam.) (fpm)	Average SVE Blower Effluent Flow Rate (cfm)	Average SVE Blower Effluent PID Reading (ppmv)	SVE Blower Effluent Lab Result (BTEX only) (ppmv)	VOC Removal Rate (BTEX only) (lbs/hr)	VOC Removal Rate (total) (lbs/hr)	VOCs Recovered Since Last O&M Visit (lbs BTEX)	VOC's Recovered Since Last O&M Visit (total lbs.)	Cumulative lbs. of VOC' Recovered (lbs BTEX)	Cumulative lbs. of VOC's Recovered (total lbs.)
12/17/1999	0 / 0	0.00%	7017	1378	14.49	0.9200	0.1007	0.3115	0.00	0.00	0.00	0.00
12/21/1999	96 / 90	93.75%	6933	1361	23.80	0.6800	0.0952	0.4090	8.57	36.81	8.57	36.81
01/07/2000	119 / 101	84.87%	7000	1374	4.73	0.8300	0.0906	0.3044	9.15	30.75	17.72	67.56
01/11/2000	96 / 93	96.88%	7000	1374	5.00	0.8100	0.0885	0.1043	8.23	9.70	25.95	77.26
02/14/2000	816 / 800	98.04%	7000	1374	11.63	0.6500	0.0743	0.1783	59.41	142.65	85.36	219.91
02/21/2000	168 / 165	98.21%	7000	1374	11.63	0.4000	0.0437	0.2494	7.21	41.15	92.57	261.07
03/03/2000	264 / 75	28.41%	6967	1368	10.00	0.5200	0.0348	0.2314	2.61	17.35	95.17	278.42
03/21/2000	432 / 428	99.07%	6967	1368	10.00	0.1800	0.0196	0.2134	8.37	91.33	103.55	369.75
04/14/2000	576 / 362	62.85%	6767	1329	1.73	0.1300	0.0137	0.1234	4.97	44.67	108.52	414.41
05/03/2000	456 / 453	99.34%	7300	1433	2.97	0.1110	0.0126	0.0506	5.73	22.93	114.24	437.35
06/15/2000	1032 / 300	29.07%	6933	1361	0.00	0.0900	0.0097	0.0323	2.92	9.70	117.16	447.05
07/24/2000	936 / 934	99.79%	7233	1420	5.67	2.1000	0.2370	0.0615	221.34	57.41	338.50	504.46
08/17/2000	576 / 16	2.78%	7233	1420	3.53	2.0000	0.2257	0.1019	3.61	1.63	342.11	506.09
09/13/2000	648 / 161	24.85%	7250	1424	2.47	1.8000	0.2036	0.0665	32.78	10.71	374.89	516.80
10/16/2000	792 / 406.2	51.29%	4500	884	2.00	0.6500	0.0456	0.0402	18.54	16.32	393.43	533.13
11/09/2000	576 / 2.8	0.49%	6750	1325	1.50	0.5200	0.0548	0.0302	0.15	0.08	393.58	533.21
12/19/2000	960 / 786	81.88%	6500	1276	1.00	0.2800	0.0284	0.0254	22.32	19.94	415.90	553.15
01/17/2001	696 / 1.5	0.22%	6750	1325	0.00	0.2200	0.0232	0.0101	0.03	0.02	415.93	553.16
02/14/2001	672 / 457	68.01%	6750	1325	0.00	0.1500	0.0158	0.0000	7.22	0.00	423.15	553.16
03/27/2001	984 / 984	100.00%	6750	1325	0.00	0.1400	0.0147	0.0000	14.51	0.00	437.66	553.16
04/23/2001	648 / 1.1	0.17%	7000	1374	0.00	0.1200	0.0131	0.0000	0.01	0.00	437.68	553.16
05/21/2001	672 / 664	98.81%	7083	1391	0.00	0.1100	0.0122	0.0000	8.07	0.00	445.75	553.16
06/15/2001	600 / 598	99.67%	7067	1388	1.20	0.1000	0.0110	0.0130	6.59	7.78	452.34	560.94
07/12/2001	648 / 647	99.85%	7000	1374	0.00	0.0514	0.0056	0.0129	3.63	8.36	455.97	569.30
08/07/2001	624 / 600	96.15%	7167	1407	0.00	0.0028	0.0003	0.0000	0.19	0.00	456.16	569.30
09/28/2001	1248 / 1247	99.92%	6933	1361	0.00	0.0028	0.0003	0.0000	0.37	0.00	456.53	569.30
10/01/2001	72 / 24	33.33%	5849	1148	0.00	0.0028	0.0003	0.0000	0.01	0.00	456.54	569.30
11/20/2001	1200 / 292	24.33%	4763	935	0.00	0.0028	0.0002	0.0000	0.06	0.00	456.59	569.30
12/28/2001	912 / 648	71.05%	4483	880	1.87	0.0028	0.0002	0.0132	0.13	8.56	456.72	577.87
01/16/2002	456 / 444.3	97.43%	7600	1492	3.50	0.9010	0.1068	0.0497	47.46	22.06	504.18	599.93
02/20/2002	840 / 819.7	97.58%	7500	1473	0.53	0.0195	0.0023	0.0466	1.87	38.20	506.06	638.12
03/26/2002	816 / 816	100.00%	7567	1486	3.10	0.4	0.0472	0.0419	38.53	34.17	544.59	672.30
04/16/2002	504 / 504	100.00%	7583	1489	0.00	0.0050	0.0006	0.0360	0.30	18.12	544.89	690.42
05/13/2002	648 / 648	100.00%	7567	1486	1.23	0.005	0.0006	0.0143	0.37	9.25	545.26	699.67
06/14/2002	768 / 691	89.97%	7833	1538	3.80	0.5	0.0550	0.0593	38.00	40.99	583.26	740.65
07/23/2002	933 / 204	21.86%	7533	1479	0.00	0.0028	0.0003	0.0447	0.07	9.12	583.33	749.77
08/14/2002	528 / 528	100.00%	7583	1489	0.00	0.0028	0.0003	0.0000	0.17	0.00	583.50	749.77
09/25/2002	1408 / 728	51.70%									583.50	749.77
11/12/2002	1152 / 0	0.00%	7500	1473	0.93	0.0483	0.0057	0.0053	0.00	0.00	583.50	749.77
12/18/2002	864 / 864	100.00%	7583	1489	0.00	0.0160	0.0019	0.0107	1.64	9.28	585.14	759.05
01/31/2003	1056 / 1055	99.91%	7583	1489	0.00	0.0028	0.0003	0.0000	0.35	0.00	585.49	759.05
02/20/2003	480 / 103	21.46%	7167	1407	0.00	0.0028	0.0003	0.0000	0.03	0.00	585.42	759.05
03/17/2003	/						0.0000	0.0000	0.00	0.00	585.42	759.05
04/14/2003	1272 / 678	53.30%			0.00	0.0028	0.0000	0.0000	0.00	0.00	585.42	759.05
05/20/2003	864 / 864	100.00%	7500	1473	0.18	0.0028	0.0003	0.0010	0.28	0.87	585.80	759.92
06/09/2003	480 / 475	98.96%	7417	1456	0.00	0.0043	0.0005	0.0020	0.24	0.95	586.04	760.87
Averages		68.3%	6964	1367	2.9			0.06		16.91		

Notes:

VOC concentrations are estimated for dates with no laboratory analytical available (shaded cells).

Table 2
NYSEG Former MGP Site
Norwich, New York
Air Sparge/Soil Vapor Extraction System
Treatment Efficiency

Date	Compound	SVE Influent (ppmv)	Carbon 1 Effluent (ppmv)	Carbon 2 Effluent (ppmv)	Annual Discharge		Short Term Discharge	
					Allowable (ug/m3)	Actual (ug/m3)	Allowable (ug/m3)	Actual (ug/m3)
01/11/2000	Benzene	0.1600	NS	0.0120	0.120	0.010	30	0.600
	Toluene	0.1000	NS	0.0150	1400	0.020	100,000	1.000
	Ethyl Benzene	0.1200	NS	0.0007	2000	0.000	45,000	0.000
	Xylenes	0.4300	NS	0.0030	300	0.000	100,000	0.200
05/03/2000	Benzene	0.0200	0.0230	0.0140	0.120	0.010	30	0.700
	Toluene	0.0120	0.0140	0.0410	1400	0.040	100,000	2.700
	Ethyl Benzene	0.0093	0.0260	0.0770	2000	0.070	45,000	4.400
	Xylenes	0.0700	0.2400	0.1040	300	0.110	100,000	6.900
07/24/2000	Benzene	NS	NS	0.0940	0.120	0.070	30	4.600
	Toluene	NS	NS	0.0560	1400	0.060	100,000	3.700
	Ethyl Benzene	NS	NS	0.5100	2000	0.450	45,000	29.200
	Xylenes	NS	NS	1.4400	300	1.460	100,000	95.100
11/09/2000	Benzene	0.1900	0.0160	0.0037	0.120	0.000	30	0.200
	Toluene	0.0550	0.0120	0.0140	1400	0.010	100,000	0.800
	Ethyl Benzene	0.0610	0.0054	0.0130	2000	0.010	45,000	0.800
	Xylenes	0.2160	0.0440	0.2040	300	0.200	100,000	13.300
02/14/2001	Benzene	ND	NS	0.0020	0.120	0.000	30	0.100
	Toluene	0.0019	NS	0.0084	1400	0.010	100,000	0.500
	Ethyl Benzene	0.0007	NS	0.0068	2000	0.010	45,000	0.400
	Xylenes	0.0049	NS	0.1300	300	0.130	100,000	8.500
05/22/2001	Benzene	0.0023	NS	ND	0.120	0.000	30	0.000
	Toluene	0.0012	NS	0.0010	1400	0.000	100,000	0.100
	Ethyl Benzene	0.0045	NS	0.0080	2000	0.010	45,000	0.500
	Xylenes	0.0230	NS	0.0880	300	0.090	100,000	6.000
08/07/2001	Benzene	ND	NS	ND	0.120	0.000	30	0.000
	Toluene	0.0021	NS	0.0020	1400	0.000	100,000	0.100
	Ethyl Benzene	ND	NS	ND	2000	0.000	45,000	0.000
	Xylenes	0.0016	NS	0.0270	300	0.020	100,000	1.600
01/16/2002	Benzene	0.1200	NS	ND	0.120	0.000	30	0.000
	Toluene	0.0320	NS	ND	1400	0.000	100,000	0.000
	Ethyl Benzene	0.5800	NS	0.0004	2000	0.000	45,000	0.000
	Xylenes	0.1690	NS	0.0012	300	0.000	100,000	0.100
02/20/2002	Benzene	ND	NS	ND	0.120	0.000	30	0.000
	Toluene	0.0041	NS	0.0043	1400	0.000	100,000	0.300
	Ethyl Benzene	0.0045	NS	ND	2000	0.000	45,000	0.000
	Xylenes	0.0109	NS	0.0041	300	0.000	100,000	0.300

Table 2
NYSEG Former MGP Site
Norwich, New York
Air Sparge/Soil Vapor Extraction System
Treatment Efficiency

Date	Compound	SVE Influent (ppmv)	Carbon 1 Effluent (ppmv)	Carbon 2 Effluent (ppmv)	Annual Discharge		Short Term Discharge	
					Allowable (ug/m3)	Actual (ug/m3)	Allowable (ug/m3)	Actual (ug/m3)
05/13/2002	Benzene	ND	NS	ND	0.120	0.000	30	0.000
	Toluene	0.0049	NS	0.0034	1400	0.000	100,000	0.200
	Ethyl Benzene	ND	NS	ND	2000	0.000	45,000	0.000
	Xylenes	ND	NS	ND	300	0.000	100,000	0.000
11/13/2002	Benzene	0.0170	NS	ND	0.120	0.000	30	0.000
	Toluene	0.0094	NS	0.0066	1400	0.010	100,000	0.400
	Ethyl Benzene	0.0160	NS	ND	2000	0.000	45,000	0.000
	Xylenes	0.0059	NS	ND	300	0.000	100,000	0.000
12/19/2002	Benzene	ND	NS	ND	0.120	0.000	30	0.000
	Toluene	0.0130	NS	0.0160	1400	0.010	100,000	0.800
	Ethyl Benzene	ND	NS	ND	2000	0.000	45,000	0.000
	Xylenes	ND	NS	ND	300	0.000	100,000	0.000
06/09/2003	Benzene	ND	NS	ND	0	0.000	30	0.000
	Toluene	0.0016	NS	0.0015	1400	6.100	100,000	6.100
	Ethyl Benzene	ND	NS	ND	2000	0.000	45,000	0.000
	Xylenes	0.0027	NS	0.0034	300	12.000	100,000	12.000

Air discharge allowances based on average discharge flow of 1344 scfm., Air Guide 1.
Shaded cells indicate concentrations exceeding guidance values.

Table 3
Dissolved Oxygen Measured in Performance Monitoring Wells
(mg/L)

Date	Status of Sparge System/Flowrate (avg scfm/point)	SPMP-1D	SPMP-1S	SPMP-2D	SPMP-2S	GGW01-14	GW91-06
2/14/00	Prior to Sparge Startup	0.70	NM	11.62	NM	NM	NM
2/14/00	On / 7.35	1.53	NM	12.52	NM	NM	NM
3/21/00	On / 7.35	9.43	9.48	0.93	5.42	NM	NM
5/3/00	On / 7.00	9.08	7.60	2.27	4.60	NM	NM
6/15/00	On / 6.12	6.40	3.22	1.80	2.98	NM	NM
7/24/00	On / 7.76	1.90	6.09	NM	1.43	NM	NM
8/14/00	On / 8.0	9.01	9.16	9.10	8.63	NM	NM
9/11/00	On / 7.29	NM	NM	NM	NM	NM	NM
10/16/00	Off / 0.00	NM	NM	NM	NM	NM	NM
11/9/00	On / 7.8	7.52	NM	1.19	5.23	NM	NM
12/19/00	Off / 0.00	NM	NM	NM	NM	NM	NM
1/17/01	On / 9.42	5.27	5.86	7.26	9.61	NM	NM
2/14/01	On / 9.17	9.08	9.23	9.67	9.32	NM	NM
3/27/01	On / 9.6	NM	NM	NM	NM	NM	NM
4/23/01	On / 8.33	NM	NM	NM	NM	NM	NM
5/21/01	On / 8.56	9.94	9.89	0.66	1.45	NM	NM
6/15/01	On / 8.17	7.47	2.77	1.06	1.39	NM	NM
7/12/01	On / 7.65	2.63	2.91	1.23	1.74	NM	NM
8/7/01	On / 6.59	2.59	2.78	0.67	1.01	NM	NM
9/28/01	On / 14.12	8.33	5.50	1.22	0.93	NM	NM
10/16/01	Off / 0.0	NM	NM	NM	NM	NM	NM
11/20/01	On / 10.29	4.52	Dry	0.45	1.27	NM	NM
12/28/01	On / 10.47	13.61	NM	3.70	5.62	NM	NM
1/16/02	On / 11.70	3.16	NM	NM	NM	NM	NM
2/20/02	On / 11.6	5.63	1.84	1.2	2.7	0.79	1.05
3/26/02	On / 13.75	NM	NM	NM	NM	NM	NM
4/16/02	On / 13.2	NM	NM	NM	NM	NM	NM

Table 3
Dissolved Oxygen Measured in Performance Monitoring Wells
(mg/L)

Date	Status of Sparge System/Flowrate (avg scfm/point)	SPMP-1D	SPMP-1S	SPMP-2D	SPMP-2S	GGW01-14	GW91-06
5/13/02	On / 11	1.31	1.06	0.79	0.76	1.73	1.46
6/14/02	On / 8.85	2.04	1.78	0.98	0.56	2.13	2.53
7/23/02	On/ 9.4	6.28	1.66	0.82	0.86	0.73	1.03
8/14/02	On/ 8.9	Dry	Dry	Dry	Dry	0.62	0.53
9/25/02	Off	5.8	6.08	1.42	1.42	NM	1.05
11/12/02	On/ 9.8	0.61	NM	0.73	0.67	0.97	1.32
12/18/02	On/ 7.8	0.61	NM	0.62	0.42	0.93	0.71
6/9/03	On/9.3	0.63	NM	0.93	0.87	0.81	1.04

NM - Not Measured

Notes:

Air Sparge Leg 2 not operational on 11/9/00 and 1/17/01 due to MOV failure. System was down upon arrival during 1/17/01 site visit, but was restarted. System ran for approx. 1 hour before collecting data. System subsequently idled due to problems with heat exchanger motor.

Table 4
NYSEG Norwich - Former MGP Site
Monitoring Well Data (ug/l)

	6/03			12/02			9/02		
Well ID	**VOCs**	**SVOCs**	**Naphth.**	**VOCs**	**SVOCs**	**Naphth.**	**VOCs**	**SVOCs**	**Naphth.**
GW91-4SH	NS	NS	NS	NS	NS	NS	NS	NS	NS
GW91-4D	NS	NS	NS	NS	NS	NS	NS	NS	NS
GW91-5	ND	ND	ND	NS	NS	NS	29	92	18
GW91-6	547	34	ND	2,619	1,271	1,100	2,628	1,420	1,200
GW92-08	19	22	ND	85	21	ND	307	144	11
GW-92-11D	11	ND	ND	4	ND	ND	31	ND	ND
GW92-11SH	26	70	ND	32	NS	NS	14	ND	ND
SPMP-1S	246	1,713	73	454	2,148	ND	488	9,540	250
SPMP-2S	285	599	47	77	172	ND	296	734	45
GW92-12	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW01-14	4,440	514	290	3,169	1,692	1,200	1,862	1,054	290
GW01-15S	626	217	49	545	455	250	2,691	1,770	1,300

Naphth. = Naphthalene (Method 8270)
NS - Not Sampled
NS* - No recovery after well purging
NS** - Well dry
DMG - Sample damaged at lab

Table 4
NYSEG Norwich - Former MGP Site
Monitoring Well Data (ug/l)

	05/02			02/02			11/01		
Well ID	**VOCs**	**SVOCs**	**Naphth.**	**VOCs**	**SVOCs**	**Naphth.**	**VOCs**	**SVOCs**	**Naphth.**
GW91-4SH	NS	NS	NS	NS	NS	NS	NS	NS	NS
GW91-4D	NS	NS	NS	NS	NS	NS	NS	NS	NS
GW91-5	ND	ND	ND	ND	ND	ND	34	ND	ND
GW91-6	2,279	133	630	1,974	136	330	1107	381	900
GW92-08	197	17	17	1,475	130.2	61	504	181	12
GW-92-11D	5	ND	ND	506	26.6	71	8	ND	ND
GW92-11SH	41	ND	ND	7	ND	ND	NS*	NS*	NS*
SPMP-1S	263	1,375	29	268	2,102	80	NS**	NS**	NS**
SPMP-2S	234	253	23	277	616.9	42	232	653	40
GW92-12	NS	NS	NS	NS	NS	NS	ND	ND	ND
GW01-14	2,271	1,838	680	2,000	1,066	480	NS	NS	NS
GW01-15S	1,500	435	270	1,185	730.8	64	NS	NS	NS

Naphth. = Naphthalene (Method 8270)
NS - Not Sampled
NS* - No recovery after well purging
NS** - Well dry
DMG - Sample damaged at lab

Table 4
NYSEG Norwich - Former MGP Site
Monitoring Well Data (ug/l)

	8/01			6/01			5/01		
Well ID	**VOCs**	**SVOCs**	**Naphth.**	**VOCs**	**SVOCs**	**Naphth.**	**VOCs**	**SVOCs**	**Naphth.**
GW91-4SH	NS	NS	NS	NS	NS	NS	5	ND	ND
GW91-4D	NS	NS	NS	NS	NS	NS	1	ND	6
GW91-5	1	ND	ND	3	ND	ND	NS	NS	NS
GW91-6	1510	440	1400	NS	NS	NS	2,545	3,518	1,800
GW92-08	129	166	16	676	82	ND	NS	NS	NS
GW-92-11D	5	ND	ND	NS	NS	NS	78	61	12
GW92-11SH	ND	ND	ND	3	ND	ND	NS	NS	NS
SPMP-1S	157	740	28	NS	NS	NS	139	1,965	330
SPMP-2S	195	557	48	NS	NS	NS	114	615	46
GW92-12	ND	ND	ND	ND	ND	ND	NS	NS	NS
GW01-14	NS	NS	NS	NS	NS	NS	NS	NS	NS
GW01-15S	NS	NS	NS	NS	NS	NS	NS	NS	NS

Naphth. = Naphthalene (Method 8270)
NS - Not Sampled
NS* - No recovery after well purging
NS** - Well dry
DMG - Sample damaged at lab

Table 4
NYSEG Norwich - Former MGP Site
Monitoring Well Data (ug/l)

	2/01			11/00			8/00		
Well ID	**VOCs**	**SVOCs**	**Naphth.**	**VOCs**	**SVOCs**	**Naphth.**	**VOCs**	**SVOCs**	**Naphth.**
GW91-4SH	11	ND	ND	30.9	40	6	16	ND	ND
GW91-4D	ND	ND	ND	14	86	18	9	ND	14
GW91-5	NS	NS	NS	NS	NS	NS	NS	NS	
GW91-6	1,300	2,400	3,100	1,357	3,433	3,200	1,110	ND	3200
GW92-08	NS	NS	NS	NS	NS	NS	88	175	ND
GW-92-11D	0.5	ND	ND	NS	NS	NS	3	ND	ND
GW92-11SH	NS	NS	NS	NS	NS	NS	NS	NS	NS
SPMP-1S	167	4,860	110	NS	NS	NS	351	10,250	1,500
SPMP-2S	68	449	26	NS	NS	NS	103	1,061	92
GW92-12	NS	NS	NS	NS	NS	NS	NS	NS	NS
GW01-14	NS	NS	NS	NS	NS	NS	NS	NS	NS
GW01-15S	NS	NS	NS	NS	NS	NS	NS	NS	NS

Naphth. = Naphthalene (Method 8270)
NS - Not Sampled
NS* - No recovery after well purging
NS** - Well dry
DMG - Sample damaged at lab

Table 4
NYSEG Norwich - Former MGP Site
Monitoring Well Data (ug/l)

	7/00		5/00			5/99		
Well ID	**SVOCs**	**Naphth.**	**VOCs**	**SVOCs**	**Naphth.**	**VOCs**	**SVOCs**	**Naphth.**
GW91-4SH	NS	NS	3.0	324	ND	61.1	62.0	NS
GW91-4D	NS	NS	1.0	ND	22.0	29.9	DMG	NS
GW91-5	NS	NS	NS	NS	NS	81.5	33.0	NS
GW91-6	NS	NS	2,170	ND	5,500	2,229	586	NS
GW92-08	NS	NS	NS	NS	NS	943.9	NS	NS
GW-92-11D	NS	NS	182	ND	430	10.5	NS	NS
GW92-11SH	NS	NS	NS	NS	NS	3.5	NS	NS
SPMP-1S	NS	NS	*4,901	10,460	1,600	NS	NS	NS
SPMP-2S	**1,290	NS	*300	DMG	150.0	NS	NS	NS
GW92-12	NS	NS	NS	NS	NS	NS	NS	NS
GW01-14	NS	NS	NS	NS	NS	NS	NS	NS
GW01-15S	NS	NS	NS	NS	NS	NS	NS	NS

Naphth. = Naphthalene (Method 8270)
NS - Not Sampled
NS* - No recovery after well purging
NS** - Well dry
DMG - Sample damaged at lab

** - Sample was collected to replace the one damaged from the 5/00 sampling event
* - Samples were collected in June, 2000

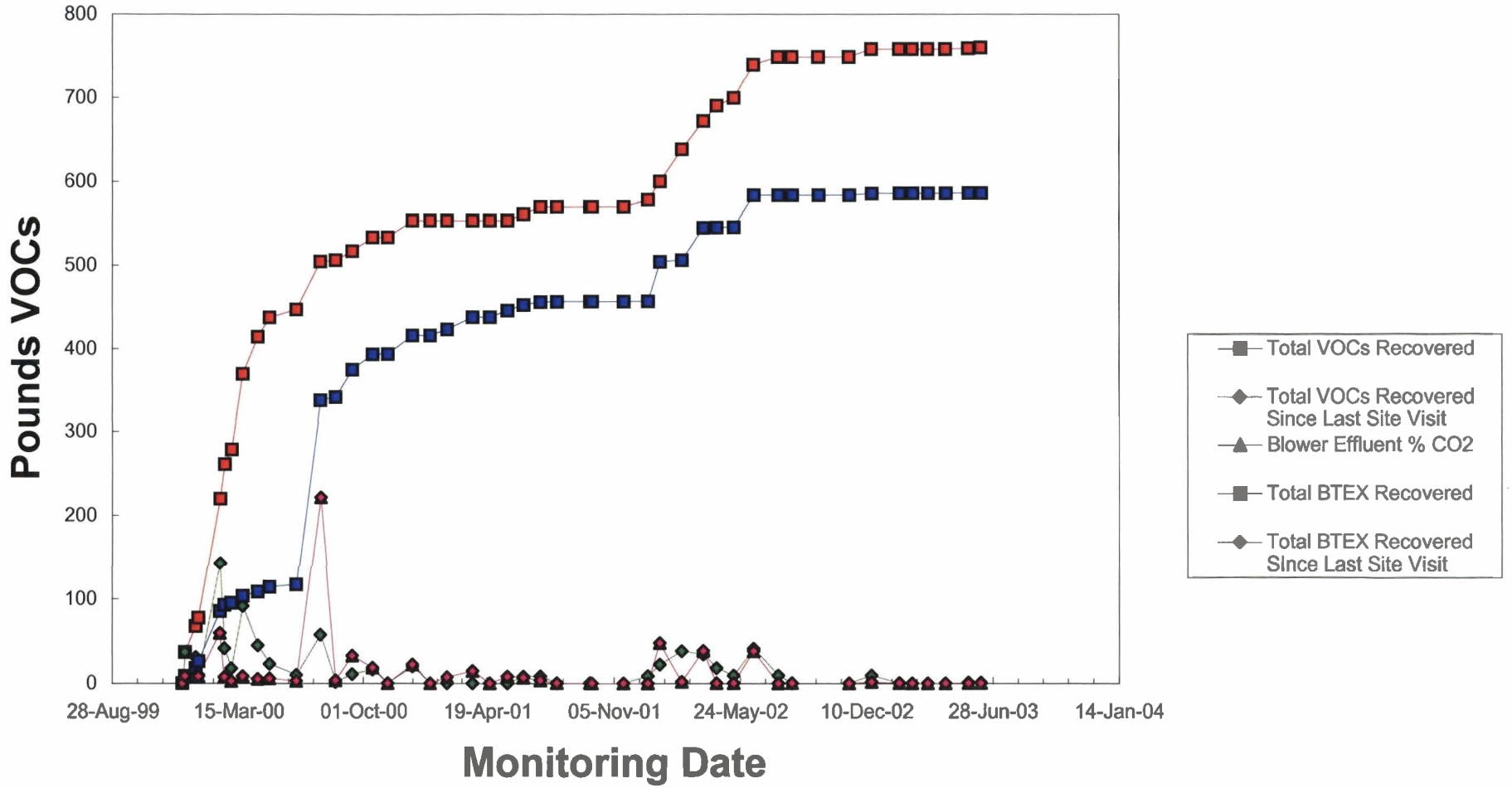
Table 4
NYSEG Norwich - Former MGP Site
Monitoring Well Data (ug/l)

	1998		
Well ID	**VOCs**	**SVOCs**	**Naphth.**
GW91-4SH	37.6	134.3	8.0
GW91-4D	38.5	72.0	110
GW91-5	NS	NS	NS
GW91-6	2,432	210	3600
GW92-08	898.5	NS	NS
GW-92-11D	70.1	NS	NS
GW92-11SH	3.0	NS	NS
SPMP-1S	NS	NS	NS
SPMP-2S	NS	NS	NS
GW92-12	NS	NS	NS
GW01-14	NS	NS	NS
GW01-15S	NS	NS	NS

Naphth. = Naphthalene (Method 8270)
NS - Not Sampled
NS* - No recovery after well purging
NS** - Well dry
DMG - Sample damaged at lab

FIGURES

Figure 1 - Soil Vapor Extraction System VOC Recovery
NYSEG Norwich



APPENDIX A

LABORATORY ANALYTICAL RESULTS

Columbia Analytical Services INC.
An Employee - Owned Company

LABORATORY REPORT

RECEIVED
Route To: John Skaarup
JUL 01
Proj: NYSEG Norwich
File Code: 8A

Client:	SHAW ENVIRONMENTAL	Date of Report:	06/25/03
Address:	13 British American Blvd.	Date Received:	06/10/03
	Latham, NY 12110	CAS Project No:	P2301124
Contact:	Mr. John Skaarup	Purchase Order:	Verbal
Client Project ID: NYSEG Norwich/108196		NY ELAP ID:	11221

Two (2) Tedlar Bag Samples labeled:

"SVE Final Effluent Leg-4" and "SVE Blower Effluent Leg-4"

The samples were received at the laboratory under chain of custody on June 10, 2003. The samples were received intact. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

BTEX Analysis

The samples were analyzed by combined gas chromatography/mass spectrometry (GC/MS) for benzene, toluene, ethylbenzene and total xylenes. The analyses were performed according to the methodology outlined in EPA Method TO-15. However, the method was modified to include the use of Tedlar bags. The analyses were performed by gas chromatography/mass spectrometry, utilizing a direct cryogenic trapping technique. The analytical system used was comprised of a Hewlett Packard Model 5973 GC/MS/DS interfaced to a Tekmar AutoCan Elite whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

Reviewed and Approved:

Svetlana Walsh
Analytical Chemist
Air Quality Laboratory

Reviewed and Approved:

Chris Parnell
GCMS-VOA Team Leader
Air Quality Laboratory

NELAC Accredited
2665 Park Center Drive, Suite D • Simi Valley, California 93065
(805) 526-7161 1-800-695-7222 x13 Fax (805) 526-7270
ACIL Seal of Excellence Laboratory

Columbia Analytical Services INC.
An Employee - Owned Company

CAS Project No: P2301124

The results of analyses are given on the attached data sheets. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

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ACIL Seal of Excellence Laboratory

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Shaw Environmental**
Client Sample ID: **SVE Final Effluent Leg-4**
Client Project ID: **NYSEG Norwich/108196**

CAS Project ID: P2301124
CAS Sample ID: P2301124-001

Test Code: Modified EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Svetlana Walsh
Sampling Media: Tedlar Bag
Test Notes:

Date Collected: 6/9/03
Date Received: 6/10/03
Date(s) Analyzed: 6/10/03
Volume(s) Analyzed: 0.20 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	ND	5.0	ND	1.6	
108-88-3	Toluene	**5.8**	5.0	**1.5**	1.3	
100-41-4	Ethylbenzene	ND	5.0	ND	1.2	
136777-61-2	*m,p*-Xylenes	**15**	5.0	**3.4**	1.2	
95-47-6	o-Xylene	ND	5.0	ND	1.2	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RC Date: 6/24/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Shaw Environmental**
Client Sample ID: **SVE Final Effluent Leg-4**
Client Project ID: **NYSEG Norwich/108196**

CAS Project ID: P2301124
CAS Sample ID: P2301124-001DUP

Test Code: Modified EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Svetlana Walsh
Sampling Media: Tedlar Bag
Test Notes:

Date Collected: 6/9/03
Date Received: 6/10/03
Date(s) Analyzed: 6/10/03
Volume(s) Analyzed: 0.20 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	ND	5.0	ND	1.6	
108-88-3	Toluene	**5.9**	5.0	**1.6**	1.3	
100-41-4	Ethylbenzene	ND	5.0	ND	1.2	
136777-61-2	*m,p*-Xylenes	**15**	5.0	**3.5**	1.2	
95-47-6	o-Xylene	ND	5.0	ND	1.2	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 6/24/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Shaw Environmental**
Client Sample ID: **SVE Blower Effluent Leg-4**
Client Project ID: **NYSEG Norwich/108196**

CAS Project ID: P2301124
CAS Sample ID: P2301124-002

Test Code: Modified EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Svetlana Walsh
Sampling Media: Tedlar Bag
Test Notes:

Date Collected: 6/9/03
Date Received: 6/10/03
Date(s) Analyzed: 6/10/03
Volume(s) Analyzed: 0.20 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	ND	5.0	ND	1.6	
108-88-3	Toluene	**6.1**	5.0	**1.6**	1.3	
100-41-4	Ethylbenzene	ND	5.0	ND	1.2	
136777-61-2	*m,p*-Xylenes	**12**	5.0	**2.7**	1.2	
95-47-6	o-Xylene	ND	5.0	ND	1.2	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RC Date: 6/24/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Shaw Environmental**
Client Sample ID: **Method Blank**
Client Project ID: **NYSEG Norwich/108196**

CAS Project ID: P2301124
CAS Sample ID: P030610-MB

Test Code: Modified EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Svetlana Walsh
Sampling Media: Tedlar Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 6/10/03
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	ND	1.0	ND	0.31	
108-88-3	Toluene	ND	1.0	ND	0.27	
100-41-4	Ethylbenzene	ND	1.0	ND	0.23	
136777-61-2	*m,p*-Xylenes	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	1.0	ND	0.23	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RC Date: 6/24/03

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Shaw Environmental Work order: P2301124

Project: NYSEG Norwich/108196

Sample(s) received on: 6/10/03 Date opened: 6/10/03 by SM

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client or as required by the method/SOP.

		Yes	No	N/A
1	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
2	Were **sample containers** marked with client sample ID?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
	Cooler Temperature NA °C			
	Blank Temperature NA °C			
9	Is pH (acid) **preservation** necessary, according to method/SOP or Client specified information?	☐	☒	☐
	Is there a client indication that the submitted samples are **pH** (acid) preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒

Lab Sample ID	Required pH	pH (as received, if required)	VOA Headspace (Presence/Absence)
P2301124-001			NA
P2301124-002			NA

Explain any discrepancies: (include lab sample ID numbers):

Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

2665 Park Center Drive, Suite D
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Chain of Custody Record
Analytical Services Request

Client / Address	Phone	Fax	ANALYSES	PAI Project No.
Shaw Environmental 13 British American Blvd Latham NY. 12110	518-783-1996	518-783-8397		P2301124
Client Project Name / Location	**Client Project No.**			
NYSEG Norwich Norwich NY.	108196			
Contact	**Sampler (Signature)**	**P. O. No.**		
John Skarup				

Client Sample ID	Date Collected	Time Collected	Lab Sample No.	Type of Sample	Container ID (Serial#)	Regulator ID (Serial#)	10-14 (BTEX only)				Expected Turnaround Time	Remarks
SVE Final Effluent Leg-4	6-9-03	0930		Air	Tedlar		X				Normal	Direct Bill
SVE Blower Effluent Leg-4	6-9-03	0935		Air	Tedlar		X				Normal	NYSEG ATTN: Bert Finch

Relinquished by : (Signature)	Date	Time	Received by : (Signature)	Date	Time
	6-9-03	1600	Sharon Malone	6/10/03	1045
Relinquished by : (Signature)	Date	Time	Received by : (Signature)	Date	Time
Relinquished by : (Signature)	Date	Time	Received by : (Signature)	Date	Time

Adirondack Environmental Services Inc.®
Experience is the solution
314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

June 27, 2003

Sue Wolf
New York State Electric & Gas Corporation
Kirkwood Industrial Park
Corporate Drive
PO B
Binghamton, NY 13902
TEL: (607) 762-8787
FAX: (607) 762-8451

RE: Norwich Order No.: 030610011

Dear Sue Wolf:

Adirondack Environmental Services, Inc received 3 samples on 6/10/2003 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709
AIHA#: 100307

Tara Daniels
Laboratory Manager

CC:
John Skaarup

Adirondack Environmental Services, Inc

Date: *27-Jun-03*

CLIENT: New York State Electric & Gas Corporatio
Project: Norwich
Lab Order: 030610011

Lab ID: 030610011-001
Collection Date: 6/9/2003
Client Sample ID: Purge Water
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE ORGANICS		**E625**		**(E625)**		Analyst: **MT**
1,2,4-Trichlorobenzene	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
1,2-Dichlorobenzene	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
1,2-Diphenylhydrazine	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
1,3-Dichlorobenzene	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
1,4-Dichlorobenzene	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
2,4,6-Trichlorophenol	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
2,4-Dichlorophenol	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
2,4-Dimethylphenol	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
2,4-Dinitrophenol	< 500	500		µg/L	5	6/19/2003 9:24:00 PM
2,4-Dinitrotoluene	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
2,6-Dinitrotoluene	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
2-Chloronaphthalene	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
2-Chlorophenol	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
2-Nitrophenol	< 500	500		µg/L	5	6/19/2003 9:24:00 PM
3,3'-Dichlorobenzidine	< 200	200		µg/L	5	6/19/2003 9:24:00 PM
4,6-Dinitro-2-methylphenol	< 500	500		µg/L	5	6/19/2003 9:24:00 PM
4-Bromophenyl phenyl ether	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
4-Chloro-3-methylphenol	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
4-Chlorophenyl phenyl ether	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
4-Nitrophenol	< 500	500		µg/L	5	6/19/2003 9:24:00 PM
Acenaphthene	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
Acenaphthylene	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
Anthracene	380	100		µg/L	5	6/19/2003 9:24:00 PM
Benz(a)anthracene	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
Benzidine	< 800	800		µg/L	5	6/19/2003 9:24:00 PM
Benzo(a)pyrene	200	100		µg/L	5	6/19/2003 9:24:00 PM
Benzo(b)fluoranthene	300	100		µg/L	5	6/19/2003 9:24:00 PM
Benzo(e)pyrene	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
Benzo(g,h,i)perylene	210	100		µg/L	5	6/19/2003 9:24:00 PM
Benzo(k)fluoranthene	210	100		µg/L	5	6/19/2003 9:24:00 PM
Bis(2-chloroethoxy)methane	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
Bis(2-chloroethyl)ether	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
Bis(2-chloroisopropyl)ether	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
Bis(2-ethylhexyl)phthalate	1400	100		µg/L	5	6/19/2003 9:24:00 PM
Butyl benzyl phthalate	290	100		µg/L	5	6/19/2003 9:24:00 PM
Chrysene	340	100		µg/L	5	6/19/2003 9:24:00 PM
Dibenz(a,h)anthracene	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
Dibenzofuran	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
Diethyl phthalate	< 100	100		µg/L	5	6/19/2003 9:24:00 PM
Dimethyl phthalate	< 100	100		µg/L	5	6/19/2003 9:24:00 PM

Qualifiers:
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B - Analyte detected in the associated Method Blank
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R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *27-Jun-03*

CLIENT: New York State Electric & Gas Corporatio
Project: Norwich
Lab Order: 030610011

SEMI-VOLATILE ORGANICS		E625	(E625)		Analyst: MT
Di-n-butyl phthalate	110	100	µg/L	5	6/19/2003 9:24:00 PM
Di-n-octyl phthalate	< 100	100	µg/L	5	6/19/2003 9:24:00 PM
Fluoranthene	840	100	µg/L	5	6/19/2003 9:24:00 PM
Fluorene	180	100	µg/L	5	6/19/2003 9:24:00 PM
Hexachlorobenzene	< 100	100	µg/L	5	6/19/2003 9:24:00 PM
Hexachlorobutadiene	< 100	100	µg/L	5	6/19/2003 9:24:00 PM
Hexachlorocyclopentadiene	< 100	100	µg/L	5	6/19/2003 9:24:00 PM
Hexachloroethane	< 100	100	µg/L	5	6/19/2003 9:24:00 PM
Indeno(1,2,3-cd)pyrene	220	100	µg/L	5	6/19/2003 9:24:00 PM
Isophorone	< 100	100	µg/L	5	6/19/2003 9:24:00 PM
Methyl Anthracene	< 100	100	µg/L	5	6/19/2003 9:24:00 PM
Naphthalene	170	100	µg/L	5	6/19/2003 9:24:00 PM
Nitrobenzene	< 100	100	µg/L	5	6/19/2003 9:24:00 PM
N-Nitrosodimethylamine	< 100	100	µg/L	5	6/19/2003 9:24:00 PM
N-Nitrosodi-n-propylamine	< 100	100	µg/L	5	6/19/2003 9:24:00 PM
N-Nitrosodiphenylamine	< 100	100	µg/L	5	6/19/2003 9:24:00 PM
Pentachlorophenol	< 500	500	µg/L	5	6/19/2003 9:24:00 PM
Phenanthrene	870	100	µg/L	5	6/19/2003 9:24:00 PM
Phenol	< 100	100	µg/L	5	6/19/2003 9:24:00 PM
Pyrene	740	100	µg/L	5	6/19/2003 9:24:00 PM
VOLATILE ORGANICS		**E624**			Analyst: **MG**
1,1,1-Trichloroethane	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
1,1,2,2-Tetrachloroethane	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
1,1,2-Trichloroethane	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
1,1-Dichloroethane	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
1,1-Dichloroethene	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
1,2-Dichloroethane	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
1,2-Dichloropropane	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
2-Butanone	< 200	200	µg/L	20	6/20/2003 6:27:00 PM
2-Hexanone	< 200	200	µg/L	20	6/20/2003 6:27:00 PM
4-Methyl-2-pentanone	< 200	200	µg/L	20	6/20/2003 6:27:00 PM
Acetone	< 200	200	µg/L	20	6/20/2003 6:27:00 PM
Benzene	1400	100	µg/L	20	6/20/2003 6:27:00 PM
Bromodichloromethane	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
Bromoform	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
Bromomethane	< 200	200	µg/L	20	6/20/2003 6:27:00 PM
Carbon disulfide	< 200	200	µg/L	20	6/20/2003 6:27:00 PM
Carbon tetrachloride	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
Chlorobenzene	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
Chloroethane	< 200	200	µg/L	20	6/20/2003 6:27:00 PM
Chloroform	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
Chloromethane	< 200	200	µg/L	20	6/20/2003 6:27:00 PM
cis-1,2-Dichloroethene	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
cis-1,3-Dichloropropene	< 100	100	µg/L	20	6/20/2003 6:27:00 PM

Qualifiers:

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J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *27-Jun-03*

CLIENT: New York State Electric & Gas Corporatio
Project: Norwich
Lab Order: 030610011

VOLATILE ORGANICS		**E624**			Analyst: **MG**
Dibromochloromethane	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
Ethylbenzene	4300	100	µg/L	20	6/20/2003 6:27:00 PM
m,p-Xylene	3500	100	µg/L	20	6/20/2003 6:27:00 PM
Methylene Chloride	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
o-Xylene	1900	100	µg/L	20	6/20/2003 6:27:00 PM
Styrene	570	100	µg/L	20	6/20/2003 6:27:00 PM
Tetrachloroethene	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
Toluene	4500	100	µg/L	20	6/20/2003 6:27:00 PM
trans-1,2-Dichloroethene	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
trans-1,3-Dichloropropene	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
Trichloroethene	< 100	100	µg/L	20	6/20/2003 6:27:00 PM
Vinyl chloride	< 200	200	µg/L	20	6/20/2003 6:27:00 PM
FLASH POINT		**ASTM_D93-80**			Analyst: **KS**
Flash Point	>200	60.0	°F	1	6/17/2003
CYANIDE, REACTIVE		**SW7.3.3.2**			Analyst: **MC**
Reactive Cyanide	< 1	1	µg/g	1	6/23/2003
REACTIVE SULFIDE		**SW7.3.4.2**			Analyst: **MC**
Reactive Sulfide	< 10	10	µg/g	1	6/20/2003
REACTIVTIY		**SW846 7.3.3**			Analyst: **MC**
Reactivity	Non Reactive	0		1	6/24/2003

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R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *27-Jun-03*

CLIENT: New York State Electric & Gas Corporatio
Project: Norwich
Lab Order: 030610011

Lab ID: 030610011-002
Collection Date: 6/9/2003
Client Sample ID: Carbon
Matrix: CARBON

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TCLP VOLATILES		**SW1311/8260 (SW1311)**				Analyst: **AJ**
1,1-Dichloroethene-TCLP	< 85	85		µg/L	17	6/18/2003
1,2-Dichloroethane-TCLP	< 85	85		µg/L	17	6/18/2003
1,4-Dichlorobenzene-TCLP	< 85	85		µg/L	17	6/18/2003
2-Butanone-TCLP	< 170	170		µg/L	17	6/18/2003
Benzene-TCLP	< 85	85		µg/L	17	6/18/2003
Carbon tetrachloride-TCLP	< 85	85		µg/L	17	6/18/2003
Chlorobenzene-TCLP	< 85	85		µg/L	17	6/18/2003
Chloroform-TCLP	< 85	85		µg/L	17	6/18/2003
Tetrachloroethene-TCLP	< 85	85		µg/L	17	6/18/2003
Trichloroethene-TCLP	< 85	85		µg/L	17	6/18/2003
Vinyl chloride-TCLP	< 170	170		µg/L	17	6/18/2003
CORROSIVITY		**SW9040B**				Analyst: **PL**
Corrosivity	Not Corrosive	0			1	6/25/2003
CYANIDE, REACTIVE		**SW7.3.3.2**				Analyst: **MC**
Reactive Cyanide	< 1	1		µg/g	1	6/24/2003
REACTIVE SULFIDE		**SW7.3.4.2**				Analyst: **MC**
Reactive Sulfide	< 10	10		µg/g	1	6/24/2003
REACTIVTIY		**SW846 7.3.3**				Analyst: **MC**
Reactivity	Non Reactive	0			1	6/24/2003

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B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *27-Jun-03*

CLIENT: New York State Electric & Gas Corporatio
Project: Norwich
Lab Order: 030610011

Lab ID: 030610011-003
Client Sample ID: Trip Blank Lot# 072
Collection Date: 6/9/2003
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS		**E624**				Analyst: **MG**
Chloromethane	< 10	10		µg/L	1	6/16/2003 3:14:00 PM
Bromomethane	< 10	10		µg/L	1	6/16/2003 3:14:00 PM
Vinyl chloride	< 10	10		µg/L	1	6/16/2003 3:14:00 PM
Chloroethane	< 10	10		µg/L	1	6/16/2003 3:14:00 PM
Methylene Chloride	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
Acetone	10	10		µg/L	1	6/16/2003 3:14:00 PM
Carbon disulfide	< 10	10		µg/L	1	6/16/2003 3:14:00 PM
1,1-Dichloroethene	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
1,1-Dichloroethane	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
Chloroform	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
2-Butanone	< 10	10		µg/L	1	6/16/2003 3:14:00 PM
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
Carbon tetrachloride	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
Bromodichloromethane	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
1,2-Dichloropropane	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
cis-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
Trichloroethene	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
Dibromochloromethane	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
Benzene	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
trans-1,3-Dichloropropene	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
Bromoform	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
2-Hexanone	< 10	10		µg/L	1	6/16/2003 3:14:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	6/16/2003 3:14:00 PM
Tetrachloroethene	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
1,1,2,2-Tetrachloroethane	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
Toluene	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
Styrene	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM
o-Xylene	< 5.0	5.0		µg/L	1	6/16/2003 3:14:00 PM

Qualifiers:
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R - RPD outside accepted recovery limits
E - Value above quantitation range

NUSEG- John R.

Adirondack Environmental Services, Inc.®
314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

CHAIN OF CUSTODY RECORD

A full service analytical research laboratory offering solutions to environmental concerns

Client Name:	Address:	
Stearns Environmental	13 British American Blvd Latham NY. 12110	
Send Report To: John Stearns.	Project Name (Location) NUSEG Norwich.	Samplers: (Names) Robert Hyde
Client Phone No: 518-783-1596	PO Number:	Samplers: (Signature)
Client Fax No: 518-783-8397		

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.		Sample Type: Matrix	Comp	Grab	Number of Cont's	Analysis Required
001	Purge Water.	6-4-03	NA	A P	W		X	2	VOC EPA 624
	Purge Water.	6-4-03	NA	A P	W		X	1	SVOC EPA 624
	Purge WATER.	6-4-03	NA	A P	W		X	1	Reactive Sulfide
	Purge WATER	6-4-03	NA	A P	W		X	1	Flash Point Reactivity
	Purge WATER.	6-4-03	NA	A P	W		X	1	Reactive Cyanide
	Carbon	6-4-03	NA	A P	C	X	X	1	Corrosivity, Reactive Cyanide/Reactive Sulfide
002				A P					
	Carbon.	6-4-03	NA	A P	C	X	X	1	TCLP VOC only
				A P					
003	TRIP BLANK LOT #072			A P	WA		X	1	624
				A P					
				A P					
	030610011			A P					
				A P					

Turnaround Time Request:	Special Instructions/Remarks
☐ 1 Day ☐ 3 Day ☑ Normal ☐ 2 Day ☐ 5 Day	
CC Report To:	

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received for Laboratory by:	Date/Time 6/10/03 10:01

Temperature	Properly Preserved	Received Within Holding Times
Ambient or (Chilled)	(Y) N	(Y) N
Notes:	Notes:	Notes:

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

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Experience is the solution
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TERMS, CONDITIONS & LIMITATIONS

All Services rendered by **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

(a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or non-performance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.

(b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed as irrevocably waived.

(c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.

(d) In no event shall **Adirondack Environmental Services, Inc.**, its employees agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.

(e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**

(f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.

Adirondack Environmental Services Inc.®
Experience is the solution
314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

June 27, 2003

John Ruspantini
New York State Electric & Gas Corporation
Kirkwood Industrial Park
Corporate Drive
PO B
Binghamton, NY 13902

TEL: (607) 762-8787
FAX: (607) 762-8451

RE: NYSEG Norwich Order No.: 030610012

Dear John Ruspantini:

Adirondack Environmental Services, Inc received 11 samples on 6/10/2003 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709
AIHA#: 100307

Tara Daniels
Laboratory Manager

CC:
John Skaarup

Adirondack Environmental Services, Inc

Date: *27-Jun-03*

CLIENT: New York State Electric & Gas Corporatio
Project: NYSEG Norwich
Lab Order: 030610012

Lab ID: 030610012-001
Collection Date: 6/9/2003
Client Sample ID: GW-92-12
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 8021 STARS LIST		**SW8021B**				Analyst: **SO**
Benzene	< 0.5	0.5		µg/L	1	6/16/2003
Toluene	< 1.0	1.0		µg/L	1	6/16/2003
Ethylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
m,p-Xylene	< 1.0	1.0		µg/L	1	6/16/2003
o-Xylene	< 1.0	1.0		µg/L	1	6/16/2003
Isopropylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
n-Propylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
1,3,5-Trimethylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
tert-Butylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
1,2,4-Trimethylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
sec-Butylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
4-Isopropyltoluene	< 1.0	1.0		µg/L	1	6/16/2003
n-Butylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
Naphthalene	< 5.0	5.0		µg/L	1	6/16/2003
Methyl tert-butyl ether	< 2.0	2.0		µg/L	1	6/16/2003
POLYNUCLEAR AROMATIC HYDROCARBONS		**E625**		**(E625)**		Analyst: **MT**
2-Methylnaphthalene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Acenaphthene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Acenaphthylene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Anthracene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Benz(a)anthracene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Benzo(a)pyrene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Benzo(b)fluoranthene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Benzo(g,h,i)perylene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Benzo(k)fluoranthene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Chrysene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Dibenz(a,h)anthracene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Dibenzofuran	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Fluoranthene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Fluorene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Indeno(1,2,3-cd)pyrene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Naphthalene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Phenanthrene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM
Pyrene	< 11	11		µg/L	1	6/18/2003 3:50:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *27-Jun-03*

CLIENT: New York State Electric & Gas Corporatio
Project: NYSEG Norwich
Lab Order: 030610012

Lab ID: 030610012-002
Collection Date: 6/9/2003
Client Sample ID: GW-92-08
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 8021 STARS LIST		**SW8021B**				Analyst: **SO**
Benzene	2.7	0.5		µg/L	1	6/16/2003
Toluene	< 1.0	1.0		µg/L	1	6/16/2003
Ethylbenzene	12	1.0		µg/L	1	6/16/2003
m,p-Xylene	< 1.0	1.0		µg/L	1	6/16/2003
o-Xylene	3.5	1.0		µg/L	1	6/16/2003
Isopropylbenzene	1.2	1.0		µg/L	1	6/16/2003
n-Propylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
1,3,5-Trimethylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
tert-Butylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
1,2,4-Trimethylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
sec-Butylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
4-Isopropyltoluene	< 1.0	1.0		µg/L	1	6/16/2003
n-Butylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
Naphthalene	< 5.0	5.0		µg/L	1	6/16/2003
Methyl tert-butyl ether	< 2.0	2.0		µg/L	1	6/16/2003
POLYNUCLEAR AROMATIC HYDROCARBONS		**E625**		**(E625)**		Analyst: **MT**
2-Methylnaphthalene	12	10		µg/L	1	6/18/2003 4:40:00 PM
Acenaphthene	10	10		µg/L	1	6/18/2003 4:40:00 PM
Acenaphthylene	< 10	10		µg/L	1	6/18/2003 4:40:00 PM
Anthracene	< 10	10		µg/L	1	6/18/2003 4:40:00 PM
Benz(a)anthracene	< 10	10		µg/L	1	6/18/2003 4:40:00 PM
Benzo(a)pyrene	< 10	10		µg/L	1	6/18/2003 4:40:00 PM
Benzo(b)fluoranthene	< 10	10		µg/L	1	6/18/2003 4:40:00 PM
Benzo(g,h,i)perylene	< 10	10		µg/L	1	6/18/2003 4:40:00 PM
Benzo(k)fluoranthene	< 10	10		µg/L	1	6/18/2003 4:40:00 PM
Chrysene	< 10	10		µg/L	1	6/18/2003 4:40:00 PM
Dibenz(a,h)anthracene	< 10	10		µg/L	1	6/18/2003 4:40:00 PM
Dibenzofuran	< 10	10		µg/L	1	6/18/2003 4:40:00 PM
Fluoranthene	< 10	10		µg/L	1	6/18/2003 4:40:00 PM
Fluorene	< 10	10		µg/L	1	6/18/2003 4:40:00 PM
Indeno(1,2,3-cd)pyrene	< 10	10		µg/L	1	6/18/2003 4:40:00 PM
Naphthalene	< 10	10		µg/L	1	6/18/2003 4:40:00 PM
Phenanthrene	< 10	10		µg/L	1	6/18/2003 4:40:00 PM
Pyrene	< 10	10		µg/L	1	6/18/2003 4:40:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *27-Jun-03*

CLIENT: New York State Electric & Gas Corporatio
Project: NYSEG Norwich
Lab Order: 030610012

Lab ID: 030610012-003
Collection Date: 6/9/2003
Client Sample ID: GW-92-11S
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 8021 STARS LIST		**SW8021B**				Analyst: **SO**
Benzene	8.8	0.5		µg/L	1	6/16/2003
Toluene	< 1.0	1.0		µg/L	1	6/16/2003
Ethylbenzene	6.8	1.0		µg/L	1	6/16/2003
m,p-Xylene	< 1.0	1.0		µg/L	1	6/16/2003
o-Xylene	5.3	1.0		µg/L	1	6/16/2003
Isopropylbenzene	2.5	1.0		µg/L	1	6/16/2003
n-Propylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
1,3,5-Trimethylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
tert-Butylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
1,2,4-Trimethylbenzene	2.2	1.0		µg/L	1	6/16/2003
sec-Butylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
4-Isopropyltoluene	< 1.0	1.0		µg/L	1	6/16/2003
n-Butylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
Naphthalene	< 5.0	5.0		µg/L	1	6/16/2003
Methyl tert-butyl ether	< 2.0	2.0		µg/L	1	6/16/2003
POLYNUCLEAR AROMATIC HYDROCARBONS		**E625**		**(E625)**		Analyst: **MT**
2-Methylnaphthalene	46	11		µg/L	1	6/18/2003 5:32:00 PM
Acenaphthene	24	11		µg/L	1	6/18/2003 5:32:00 PM
Acenaphthylene	< 11	11		µg/L	1	6/18/2003 5:32:00 PM
Anthracene	< 11	11		µg/L	1	6/18/2003 5:32:00 PM
Benz(a)anthracene	< 11	11		µg/L	1	6/18/2003 5:32:00 PM
Benzo(a)pyrene	< 11	11		µg/L	1	6/18/2003 5:32:00 PM
Benzo(b)fluoranthene	< 11	11		µg/L	1	6/18/2003 5:32:00 PM
Benzo(g,h,i)perylene	< 11	11		µg/L	1	6/18/2003 5:32:00 PM
Benzo(k)fluoranthene	< 11	11		µg/L	1	6/18/2003 5:32:00 PM
Chrysene	< 11	11		µg/L	1	6/18/2003 5:32:00 PM
Dibenz(a,h)anthracene	< 11	11		µg/L	1	6/18/2003 5:32:00 PM
Dibenzofuran	< 11	11		µg/L	1	6/18/2003 5:32:00 PM
Fluoranthene	< 11	11		µg/L	1	6/18/2003 5:32:00 PM
Fluorene	< 11	11		µg/L	1	6/18/2003 5:32:00 PM
Indeno(1,2,3-cd)pyrene	< 11	11		µg/L	1	6/18/2003 5:32:00 PM
Naphthalene	< 11	11		µg/L	1	6/18/2003 5:32:00 PM
Phenanthrene	< 11	11		µg/L	1	6/18/2003 5:32:00 PM
Pyrene	< 11	11		µg/L	1	6/18/2003 5:32:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *27-Jun-03*

CLIENT: New York State Electric & Gas Corporatio
Project: NYSEG Norwich
Lab Order: 030610012

Lab ID: 030610012-004
Collection Date: 6/9/2003
Client Sample ID: GW-92-11D
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 8021 STARS LIST		**SW8021B**				Analyst: **SO**
Benzene	8.8	0.5		µg/L	1	6/16/2003
Toluene	< 1.0	1.0		µg/L	1	6/16/2003
Ethylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
m,p-Xylene	< 1.0	1.0		µg/L	1	6/16/2003
o-Xylene	2.3	1.0		µg/L	1	6/16/2003
Isopropylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
n-Propylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
1,3,5-Trimethylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
tert-Butylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
1,2,4-Trimethylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
sec-Butylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
4-Isopropyltoluene	< 1.0	1.0		µg/L	1	6/16/2003
n-Butylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
Naphthalene	< 5.0	5.0		µg/L	1	6/16/2003
Methyl tert-butyl ether	< 2.0	2.0		µg/L	1	6/16/2003
POLYNUCLEAR AROMATIC HYDROCARBONS		**E625**		**(E625)**		Analyst: **MT**
2-Methylnaphthalene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Acenaphthene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Acenaphthylene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Anthracene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Benz(a)anthracene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Benzo(a)pyrene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Benzo(b)fluoranthene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Benzo(g,h,i)perylene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Benzo(k)fluoranthene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Chrysene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Dibenz(a,h)anthracene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Dibenzofuran	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Fluoranthene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Fluorene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Indeno(1,2,3-cd)pyrene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Naphthalene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Phenanthrene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM
Pyrene	< 10	10		µg/L	1	6/18/2003 6:24:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *27-Jun-03*

CLIENT: New York State Electric & Gas Corporatio
Project: NYSEG Norwich
Lab Order: 030610012

Lab ID: 030610012-005
Collection Date: 6/9/2003
Client Sample ID: GW-91-5
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 8021 STARS LIST		**SW8021B**				Analyst: **SO**
Benzene	< 0.5	0.5		µg/L	1	6/16/2003
Toluene	< 1.0	1.0		µg/L	1	6/16/2003
Ethylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
m,p-Xylene	< 1.0	1.0		µg/L	1	6/16/2003
o-Xylene	< 1.0	1.0		µg/L	1	6/16/2003
Isopropylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
n-Propylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
1,3,5-Trimethylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
tert-Butylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
1,2,4-Trimethylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
sec-Butylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
4-Isopropyltoluene	< 1.0	1.0		µg/L	1	6/16/2003
n-Butylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
Naphthalene	< 5.0	5.0		µg/L	1	6/16/2003
Methyl tert-butyl ether	< 2.0	2.0		µg/L	1	6/16/2003
POLYNUCLEAR AROMATIC HYDROCARBONS		**E625**		**(E625)**		Analyst: **MT**
2-Methylnaphthalene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Acenaphthene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Acenaphthylene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Anthracene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Benz(a)anthracene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Benzo(a)pyrene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Benzo(b)fluoranthene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Benzo(g,h,i)perylene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Benzo(k)fluoranthene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Chrysene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Dibenz(a,h)anthracene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Dibenzofuran	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Fluoranthene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Fluorene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Indeno(1,2,3-cd)pyrene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Naphthalene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Phenanthrene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM
Pyrene	< 10	10		µg/L	1	6/18/2003 7:14:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *27-Jun-03*

CLIENT: New York State Electric & Gas Corporatio
Project: NYSEG Norwich
Lab Order: 030610012

Lab ID: 030610012-006
Collection Date: 6/9/2003
Client Sample ID: GW-91-6
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 8021 STARS LIST		**SW8021B**				Analyst: **SO**
Benzene	23	0.5		µg/L	1	6/16/2003
Toluene	2.2	1.0		µg/L	1	6/16/2003
Ethylbenzene	72	1.0		µg/L	1	6/16/2003
m,p-Xylene	7.0	1.0		µg/L	1	6/16/2003
o-Xylene	49	1.0		µg/L	1	6/16/2003
Isopropylbenzene	7.8	1.0		µg/L	1	6/16/2003
n-Propylbenzene	1.9	1.0		µg/L	1	6/16/2003
1,3,5-Trimethylbenzene	3.2	1.0		µg/L	1	6/16/2003
tert-Butylbenzene	< 1.0	1.0		µg/L	1	6/16/2003
1,2,4-Trimethylbenzene	40	1.0		µg/L	1	6/16/2003
sec-Butylbenzene	8.2	1.0		µg/L	1	6/16/2003
4-Isopropyltoluene	< 1.0	1.0		µg/L	1	6/16/2003
n-Butylbenzene	2.5	1.0		µg/L	1	6/16/2003
Naphthalene	330	50		µg/L	10	6/17/2003
Methyl tert-butyl ether	< 2.0	2.0		µg/L	1	6/16/2003
POLYNUCLEAR AROMATIC HYDROCARBONS		**E625**		**(E625)**		Analyst: **MT**
2-Methylnaphthalene	< 10	10		µg/L	1	6/18/2003 8:05:00 PM
Acenaphthene	34	10		µg/L	1	6/18/2003 8:05:00 PM
Acenaphthylene	< 10	10		µg/L	1	6/18/2003 8:05:00 PM
Anthracene	< 10	10		µg/L	1	6/18/2003 8:05:00 PM
Benz(a)anthracene	< 10	10		µg/L	1	6/18/2003 8:05:00 PM
Benzo(a)pyrene	< 10	10		µg/L	1	6/18/2003 8:05:00 PM
Benzo(b)fluoranthene	< 10	10		µg/L	1	6/18/2003 8:05:00 PM
Benzo(g,h,i)perylene	< 10	10		µg/L	1	6/18/2003 8:05:00 PM
Benzo(k)fluoranthene	< 10	10		µg/L	1	6/18/2003 8:05:00 PM
Chrysene	< 10	10		µg/L	1	6/18/2003 8:05:00 PM
Dibenz(a,h)anthracene	< 10	10		µg/L	1	6/18/2003 8:05:00 PM
Dibenzofuran	< 10	10		µg/L	1	6/18/2003 8:05:00 PM
Fluoranthene	< 10	10		µg/L	1	6/18/2003 8:05:00 PM
Fluorene	< 10	10		µg/L	1	6/18/2003 8:05:00 PM
Indeno(1,2,3-cd)pyrene	< 10	10		µg/L	1	6/18/2003 8:05:00 PM
Naphthalene	< 10	10		µg/L	1	6/18/2003 8:05:00 PM
Phenanthrene	< 10	10		µg/L	1	6/18/2003 8:05:00 PM
Pyrene	< 10	10		µg/L	1	6/18/2003 8:05:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *27-Jun-03*

CLIENT: New York State Electric & Gas Corporatio
Project: NYSEG Norwich
Lab Order: 030610012

Lab ID: 030610012-007
Collection Date: 6/9/2003
Client Sample ID: GW-01-14
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 8021 STARS LIST		**SW8021B**				Analyst: **SO**
Benzene	160	10		µg/L	20	6/17/2003
Toluene	< 20	20		µg/L	20	6/17/2003
Ethylbenzene	630	20		µg/L	20	6/17/2003
m,p-Xylene	69	20		µg/L	20	6/17/2003
o-Xylene	240	20		µg/L	20	6/17/2003
Isopropylbenzene	60	20		µg/L	20	6/17/2003
n-Propylbenzene	23	20		µg/L	20	6/17/2003
1,3,5-Trimethylbenzene	61	20		µg/L	20	6/17/2003
tert-Butylbenzene	< 20	20		µg/L	20	6/17/2003
1,2,4-Trimethylbenzene	330	20		µg/L	20	6/17/2003
sec-Butylbenzene	98	20		µg/L	20	6/17/2003
4-Isopropyltoluene	< 20	20		µg/L	20	6/17/2003
n-Butylbenzene	69	20		µg/L	20	6/17/2003
Naphthalene	2700	100		µg/L	20	6/17/2003
Methyl tert-butyl ether	< 40	40		µg/L	20	6/17/2003
POLYNUCLEAR AROMATIC HYDROCARBONS		**E625**		**(E625)**		Analyst: **MT**
2-Methylnaphthalene	44	21		µg/L	2	6/19/2003 1:02:00 PM
Acenaphthene	110	21		µg/L	2	6/19/2003 1:02:00 PM
Acenaphthylene	< 21	21		µg/L	2	6/19/2003 1:02:00 PM
Anthracene	< 21	21		µg/L	2	6/19/2003 1:02:00 PM
Benz(a)anthracene	< 21	21		µg/L	2	6/19/2003 1:02:00 PM
Benzo(a)pyrene	< 21	21		µg/L	2	6/19/2003 1:02:00 PM
Benzo(b)fluoranthene	< 21	21		µg/L	2	6/19/2003 1:02:00 PM
Benzo(g,h,i)perylene	< 21	21		µg/L	2	6/19/2003 1:02:00 PM
Benzo(k)fluoranthene	< 21	21		µg/L	2	6/19/2003 1:02:00 PM
Chrysene	< 21	21		µg/L	2	6/19/2003 1:02:00 PM
Dibenz(a,h)anthracene	< 21	21		µg/L	2	6/19/2003 1:02:00 PM
Dibenzofuran	< 21	21		µg/L	2	6/19/2003 1:02:00 PM
Fluoranthene	< 21	21		µg/L	2	6/19/2003 1:02:00 PM
Fluorene	29	21		µg/L	2	6/19/2003 1:02:00 PM
Indeno(1,2,3-cd)pyrene	< 21	21		µg/L	2	6/19/2003 1:02:00 PM
Naphthalene	290	21		µg/L	2	6/19/2003 1:02:00 PM
Phenanthrene	41	21		µg/L	2	6/19/2003 1:02:00 PM
Pyrene	< 21	21		µg/L	2	6/19/2003 1:02:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *27-Jun-03*

CLIENT: New York State Electric & Gas Corporatio
Project: NYSEG Norwich
Lab Order: 030610012

Lab ID: 030610012-008
Collection Date: 6/9/2003
Client Sample ID: SPMP-1S
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 8021 STARS LIST		**SW8021B**				Analyst: **SO**
Benzene	3.5	1.0		µg/L	2	6/18/2003
Toluene	< 2.0	2.0		µg/L	2	6/18/2003
Ethylbenzene	5.9	2.0		µg/L	2	6/18/2003
m,p-Xylene	4.3	2.0		µg/L	2	6/18/2003
o-Xylene	21	2.0		µg/L	2	6/18/2003
Isopropylbenzene	< 2.0	2.0		µg/L	2	6/18/2003
n-Propylbenzene	< 2.0	2.0		µg/L	2	6/18/2003
1,3,5-Trimethylbenzene	11	2.0		µg/L	2	6/18/2003
tert-Butylbenzene	< 2.0	2.0		µg/L	2	6/18/2003
1,2,4-Trimethylbenzene	13	2.0		µg/L	2	6/18/2003
sec-Butylbenzene	14	2.0		µg/L	2	6/18/2003
4-Isopropyltoluene	2.2	2.0		µg/L	2	6/18/2003
n-Butylbenzene	31	2.0		µg/L	2	6/18/2003
Naphthalene	140	10		µg/L	2	6/18/2003
Methyl tert-butyl ether	< 4.0	4.0		µg/L	2	6/18/2003
POLYNUCLEAR AROMATIC HYDROCARBONS		**E625**		**(E625)**		Analyst: **MT**
2-Methylnaphthalene	33	12		µg/L	1	6/18/2003 9:45:00 PM
Acenaphthene	280	12	E	µg/L	1	6/18/2003 9:45:00 PM
Acenaphthylene	37	12		µg/L	1	6/18/2003 9:45:00 PM
Anthracene	120	12		µg/L	1	6/18/2003 9:45:00 PM
Benz(a)anthracene	< 12	12		µg/L	1	6/18/2003 9:45:00 PM
Benzo(a)pyrene	93	12		µg/L	1	6/18/2003 9:45:00 PM
Benzo(b)fluoranthene	49	12		µg/L	1	6/18/2003 9:45:00 PM
Benzo(g,h,i)perylene	39	12		µg/L	1	6/18/2003 9:45:00 PM
Benzo(k)fluoranthene	55	12		µg/L	1	6/18/2003 9:45:00 PM
Chrysene	100	12		µg/L	1	6/18/2003 9:45:00 PM
Dibenz(a,h)anthracene	< 12	12		µg/L	1	6/18/2003 9:45:00 PM
Dibenzofuran	16	12		µg/L	1	6/18/2003 9:45:00 PM
Fluoranthene	190	12		µg/L	1	6/18/2003 9:45:00 PM
Fluorene	120	12		µg/L	1	6/18/2003 9:45:00 PM
Indeno(1,2,3-cd)pyrene	38	12		µg/L	1	6/18/2003 9:45:00 PM
Naphthalene	73	12		µg/L	1	6/18/2003 9:45:00 PM
Phenanthrene	220	12	E	µg/L	1	6/18/2003 9:45:00 PM
Pyrene	250	12	E	µg/L	1	6/18/2003 9:45:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *27-Jun-03*

CLIENT: New York State Electric & Gas Corporatio
Project: NYSEG Norwich
Lab Order: 030610012

Lab ID: 030610012-009
Collection Date: 6/9/2003
Client Sample ID: SPMP-2S
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 8021 STARS LIST		**SW8021B**				Analyst: **SO**
Benzene	< 1.0	1.0		µg/L	2	6/18/2003
Toluene	< 2.0	2.0		µg/L	2	6/18/2003
Ethylbenzene	50	2.0		µg/L	2	6/18/2003
m,p-Xylene	3.3	2.0		µg/L	2	6/18/2003
o-Xylene	43	2.0		µg/L	2	6/18/2003
Isopropylbenzene	7.0	2.0		µg/L	2	6/18/2003
n-Propylbenzene	2.8	2.0		µg/L	2	6/18/2003
1,3,5-Trimethylbenzene	3.2	2.0		µg/L	2	6/18/2003
tert-Butylbenzene	< 2.0	2.0		µg/L	2	6/18/2003
1,2,4-Trimethylbenzene	82	2.0		µg/L	2	6/18/2003
sec-Butylbenzene	26	2.0		µg/L	2	6/18/2003
4-Isopropyltoluene	< 2.0	2.0		µg/L	2	6/18/2003
n-Butylbenzene	8.5	2.0		µg/L	2	6/18/2003
Naphthalene	59	10		µg/L	2	6/18/2003
Methyl tert-butyl ether	< 4.0	4.0		µg/L	2	6/18/2003
POLYNUCLEAR AROMATIC HYDROCARBONS		**E625**		**(E625)**		Analyst: **MT**
2-Methylnaphthalene	150	11		µg/L	1	6/19/2003 2:43:00 PM
Acenaphthene	86	11		µg/L	1	6/19/2003 2:43:00 PM
Acenaphthylene	37	11		µg/L	1	6/19/2003 2:43:00 PM
Anthracene	30	11		µg/L	1	6/19/2003 2:43:00 PM
Benz(a)anthracene	< 11	11		µg/L	1	6/19/2003 2:43:00 PM
Benzo(a)pyrene	12	11		µg/L	1	6/19/2003 2:43:00 PM
Benzo(b)fluoranthene	< 11	11		µg/L	1	6/19/2003 2:43:00 PM
Benzo(g,h,i)perylene	< 11	11		µg/L	1	6/19/2003 2:43:00 PM
Benzo(k)fluoranthene	< 11	11		µg/L	1	6/19/2003 2:43:00 PM
Chrysene	14	11		µg/L	1	6/19/2003 2:43:00 PM
Dibenz(a,h)anthracene	< 11	11		µg/L	1	6/19/2003 2:43:00 PM
Dibenzofuran	< 11	11		µg/L	1	6/19/2003 2:43:00 PM
Fluoranthene	34	11		µg/L	1	6/19/2003 2:43:00 PM
Fluorene	44	11		µg/L	1	6/19/2003 2:43:00 PM
Indeno(1,2,3-cd)pyrene	< 11	11		µg/L	1	6/19/2003 2:43:00 PM
Naphthalene	47	11		µg/L	1	6/19/2003 2:43:00 PM
Phenanthrene	97	11		µg/L	1	6/19/2003 2:43:00 PM
Pyrene	48	11		µg/L	1	6/19/2003 2:43:00 PM

Qualifiers:
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J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *27-Jun-03*

CLIENT: New York State Electric & Gas Corporatio
Project: NYSEG Norwich
Lab Order: 030610012

Lab ID: 030610012-010
Client Sample ID: GW01-15S
Collection Date: 6/9/2003
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 8021 STARS LIST		**SW8021B**				Analyst: **SO**
Benzene	14	2.5		µg/L	5	6/18/2003
Toluene	< 5.0	5.0		µg/L	5	6/18/2003
Ethylbenzene	76	5.0		µg/L	5	6/18/2003
m,p-Xylene	15	5.0		µg/L	5	6/18/2003
o-Xylene	40	5.0		µg/L	5	6/18/2003
Isopropylbenzene	< 5.0	5.0		µg/L	5	6/18/2003
n-Propylbenzene	< 5.0	5.0		µg/L	5	6/18/2003
1,3,5-Trimethylbenzene	12	5.0		µg/L	5	6/18/2003
tert-Butylbenzene	< 5.0	5.0		µg/L	5	6/18/2003
1,2,4-Trimethylbenzene	43	5.0		µg/L	5	6/18/2003
sec-Butylbenzene	16	5.0		µg/L	5	6/18/2003
4-Isopropyltoluene	< 5.0	5.0		µg/L	5	6/18/2003
n-Butylbenzene	10	5.0		µg/L	5	6/18/2003
Naphthalene	400	25		µg/L	5	6/18/2003
Methyl tert-butyl ether	< 10	10		µg/L	5	6/18/2003
POLYNUCLEAR AROMATIC HYDROCARBONS		**E625**		**(E625)**		Analyst: **MT**
2-Methylnaphthalene	18	10		µg/L	1	6/19/2003 3:34:00 PM
Acenaphthene	77	10		µg/L	1	6/19/2003 3:34:00 PM
Acenaphthylene	< 10	10		µg/L	1	6/19/2003 3:34:00 PM
Anthracene	14	10		µg/L	1	6/19/2003 3:34:00 PM
Benz(a)anthracene	< 10	10		µg/L	1	6/19/2003 3:34:00 PM
Benzo(a)pyrene	< 10	10		µg/L	1	6/19/2003 3:34:00 PM
Benzo(b)fluoranthene	< 10	10		µg/L	1	6/19/2003 3:34:00 PM
Benzo(g,h,i)perylene	< 10	10		µg/L	1	6/19/2003 3:34:00 PM
Benzo(k)fluoranthene	< 10	10		µg/L	1	6/19/2003 3:34:00 PM
Chrysene	< 10	10		µg/L	1	6/19/2003 3:34:00 PM
Dibenz(a,h)anthracene	< 10	10		µg/L	1	6/19/2003 3:34:00 PM
Dibenzofuran	< 10	10		µg/L	1	6/19/2003 3:34:00 PM
Fluoranthene	< 10	10		µg/L	1	6/19/2003 3:34:00 PM
Fluorene	22	10		µg/L	1	6/19/2003 3:34:00 PM
Indeno(1,2,3-cd)pyrene	< 10	10		µg/L	1	6/19/2003 3:34:00 PM
Naphthalene	49	10		µg/L	1	6/19/2003 3:34:00 PM
Phenanthrene	24	10		µg/L	1	6/19/2003 3:34:00 PM
Pyrene	13	10		µg/L	1	6/19/2003 3:34:00 PM

Qualifiers:
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J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *27-Jun-03*

CLIENT: New York State Electric & Gas Corporatio
Project: NYSEG Norwich
Lab Order: 030610012

Lab ID: 030610012-011
Collection Date: 6/9/2003
Client Sample ID: Trip Blank Lot#069
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 8021 STARS LIST		**SW8021B**				Analyst: **SO**
Benzene	< 0.5	0.5		µg/L	1	6/17/2003
Toluene	< 1.0	1.0		µg/L	1	6/17/2003
Ethylbenzene	< 1.0	1.0		µg/L	1	6/17/2003
m,p-Xylene	< 1.0	1.0		µg/L	1	6/17/2003
o-Xylene	< 1.0	1.0		µg/L	1	6/17/2003
Isopropylbenzene	< 1.0	1.0		µg/L	1	6/17/2003
n-Propylbenzene	< 1.0	1.0		µg/L	1	6/17/2003
1,3,5-Trimethylbenzene	< 1.0	1.0		µg/L	1	6/17/2003
tert-Butylbenzene	< 1.0	1.0		µg/L	1	6/17/2003
1,2,4-Trimethylbenzene	< 1.0	1.0		µg/L	1	6/17/2003
sec-Butylbenzene	< 1.0	1.0		µg/L	1	6/17/2003
4-Isopropyltoluene	< 1.0	1.0		µg/L	1	6/17/2003
n-Butylbenzene	< 1.0	1.0		µg/L	1	6/17/2003
Naphthalene	< 5.0	5.0		µg/L	1	6/17/2003
Methyl tert-butyl ether	< 2.0	2.0		µg/L	1	6/17/2003

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NYSEG - John Ruspantini

Adirondack Environmental Services, Inc.®
314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

CHAIN OF CUSTODY RECORD

A full service analytical research laboratory offering solutions to environmental concerns

Client Name:	Address:	
Stantec Environmental	13 British American Blvd Latham NY. 12110	
Send Report To:	Project Name (Location)	Samplers: (Names)
John Skarupa.	NYSEG Norwich NY.	Robert Hyde
Client Phone No: 518-783-1956	PO Number:	Samplers: (Signature)
Client Fax No: 518-783-8397		

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type Matrix	Comp	Grab	Number of Cont's	Analysis Required
001	GW-92-12	6/5/03	1300 A P	GW		X	3	8021 STARS / 8270 TAL
002 ~~DUP~~	GW 92-08		1310 A P					
003	~~Equip~~ S GW92-11S		1320 A P					
	GW 92 11 D		1330 A P					
004	GW92 11D MS		1330 A P					
	GW 92 11D MSD		1330 A P					
005	GW 91-5		1345 A P					
006	GW91-6		1350 A P					
007	GW01-14		1400 A P					
008	SPMP -1S		1410 A P					
009	SPMP -2S		1420 A P					
010	GW01-15S		1430 A P					
011	TRIP BLANK LOT # 069		A P	WA		X	2	
			A P					

Turnaround Time Request:
☐ 1 Day ☐ 3 Day ☐ Normal
☐ 2 Day ☒ 5 Day

Special Instructions/Remarks: 030610012

CC Report To:

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received for Laboratory by:	Date/Time 6/10/03 10:01

Temperature: Ambient or Chilled
Notes:

Properly Preserved: Y N
Notes:

Received Within Holding Times: Y N
Notes:

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

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TERMS, CONDITIONS & LIMITATIONS

All Services rendered by **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

(a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or non-performance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.

(b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed as irrevocably waived.

(c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.

(d) In no event shall **Adirondack Environmental Services, Inc.**, its employees agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.

(e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**

(f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.

APPENDIX B

SITE MAP

NOTES:
1. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE.
2. SKETCH OF EXISTING STRUCTURES AND ACCESS ROADS MADE FROM OBSERVATION.
3. LOCATION/SIZE OF 1,000 GALLON FUEL OIL UST APPROXIMATE.

N/F
COUNTY OF CHENANGO

APPROXIMATE PROPERTY LINE

TOPS MARKET

NYSEG SUBSTATION

FORMER RELIEF HOLDER

POLE

GAS REGULATOR BUILDING

N/F
ROBERT O. &
HELEN M. BROTEN

N/F
VALORI S. &
PATRICIA W. MARTINS

APPROXIMATE LOCATION OF SVE BLOWER DISCHARGE POINT

APPROXIMATE LOCATION OF TREATMENT EQUIPMENT

NYSEG BUILDING

OVERHEAD PIPING

TRENCH FOR AS/SVE PIPING

NYSEG #7
2500 L

GUY POLE

APPROXIMATE LOCATION EXISTING 1,000 GALLON FUEL OIL UNDERGROUND STORAGE TANK

SW-1 SW-2 SW-3 SW-4 SW-5 SW-6 SW-7 SW-8 SW-9 SW-10 SW-11 SW-12 SW-13 SW-14 SW-15 SW-16 SW-17 SW-18 SW-19 SW-20 SW-21 SW-22 SW-23 SW-24 SW-25 SW-26

HV-1 HV-2 HV-3 HV-4 HV-5 HV-6 HV-7 HV-8 HV-9 HV-10 HV-11 HV-12 HV-13 HV-14 HV-15 HV-16

SPARGE-15/16 VPMP-1 VPMP-2 25/20

GW91-15D GW91-15SH GW91-16S GW91-5 GW91-6 GW91-14 GW92-8 GW92-11D GW92-11SH GW92-12 GW92-13

TMP-1 TMP-2 TMP-3 TMP-4 TMP-5 TMP-6

A A'

G GAS MAIN
G/E OVERHEAD ELECTRIC LINE
GV GAS VALVE
HYD FIRE HYDRANT
UP UTILITY POLE
UP UTILITY POLE WITH LIGHT
LP LIGHT POLE

LEGEND
- CHAIN LINK FENCE
- GAS MAIN
- OVERHEAD ELECTRIC LINE
- GAS VALVE
- FIRE HYDRANT
- UTILITY POLE
- UTILITY POLE WITH LIGHT
- LIGHT POLE
- GUY WIRE AND ANCHOR
- TEMPORARY MONITORING POINT
- MONITORING POINT
- SPARGE WELL
- MONITORING WELL
- HORIZONTAL VENT
- APPROXIMATE TRENCH LOCATION

SCALE
0 20 40 60 FEET

Shaw™
Shaw E & I, Inc.

NEW YORK STATE ELECTRIC & GAS

SITE LAYOUT MAP

NORWICH FORMER MGP SITE
NORWICH, NEW YORK

DRAWING NUMBER	APPROVED BY	CHECKED BY	DRAWN BY
108196D12			S. SHKOLNIK 02-11-02

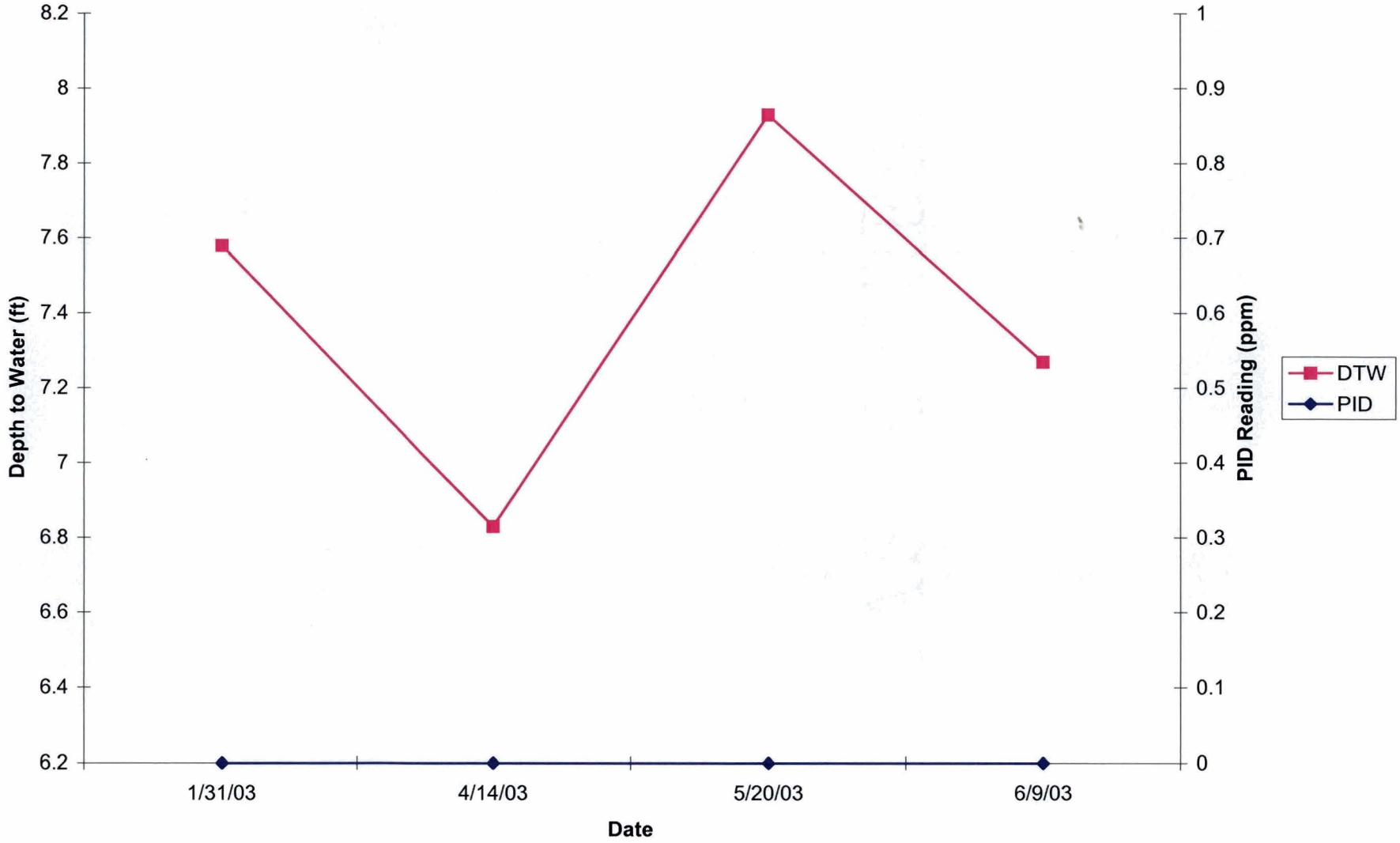
OFFICE
ALBANY, NY

L:\project\NYSEG\NORWICH.PRJ\108196\108196D12.dwg
Plot Date/Time: 07/25/02 02:51pm
Format Revised: 11/23/99
Image:
Xref:

APPENDIX C

GRAPHS

Depth to Water (GW91-6) Versus Blower Effluent PID Readings (Leg 4)



Depth to Water (SPMP-1S) Versus Blower Effluent PID Readings (Leg 1)