WALDEN ASSOCIATES

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Via e-mail 7/10/08 to J. Dyber
Certified Mail # 7007 2680 0002 4501 6770
July 10, 2008

Mr. Jeffrey Dyber, PE
NYSDEC, Remedial Bureau A
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

Re: Progress Report: June 2008
Frost Street Sites: Site ID #s 1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Mr. Dyber:

Walden Associates (Walden) is pleased to submit the Progress Report for the above-referenced Site.

June Work Completed

The following tasks were completed in June 2008:

SVE/AS System O&M

Refer to Appendix A for a summary of SVE/AS System O&M procedures. During periodic O&M visits, system parameters were logged on dedicated O&M log forms (Refer to Appendix B).

- Monthly SVE/AS remedial system O&M.
- Monthly individual SVE well lines and combined effluent flow monitoring at the interior system sampling ports for VOC concentrations utilizing a calibrated PID.
- Monthly PID readings of the sampling ports at the GAC system influent and effluent points.
- Quantitative sampling of influent and effluent SVE system air flow conducted on June 27, 2008. Results of quantitative sampling with one liter summa canisters for TO-15 analysis are summarized in Table D-1 in Appendix D.
- 2nd quarter 2008 groundwater monitoring sampling event (quarterly sampling of 8 Site related wells) was completed the second week of June 2008.

- SVE-2 well point, which was damaged at the surface, was repaired and finished at the surface with a new heavy-duty flushmount manhole cover by Delta Well & Pump on June 12, 2008.

July Work Items

The following is a list of work scheduled to be completed during the month of July:

SVE/AS System O&M

- Monthly operation and maintenance visits to monitor SVE system parameters.
- Monthly individual SVE well line and combined effluent flow monitoring at the interior system sampling ports for VOC concentrations utilizing a calibrated PID.
- Monthly readings of the sampling ports at the influent and effluent points of the GAC system with a PID.
- The slow recharge rates at MW-1B and MW-9A will be addressed by developing the wells to minimize silting of the screens and increase recharge rates.
- Quantitative sampling of influent and effluent SVE system air for analysis scheduled for July 18, 2008.

Please contact Kristin Scroope or me if you have any questions or require additional information.

Very truly yours,
Walden Associates

Joseph M. Heaney, III P.E.
Principal

cc: A. Tamuno, Esq.
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Appendix A

Summary of SVE/AS System O & M Procedures

Frost Street Sites - Site ID #s1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Summary of SVE/AS System O&M Activities

During periodic O&M visits, system parameters were logged on dedicated O&M log forms (Refer to Appendix B). The following summarizes SVE/AS system O&M procedures:

Periodic SVE/AS Remedial System O&M

- All SVE well lines and the combined effluent air flow were monitored at the interior system sampling ports for volatile organic compounds (VOCs) using a calibrated photo-ionization detector PID to assess the remedial performance of the SVE/AS system.
- Mechanical checks of the SVE/AS system were performed periodically in accordance with the O&M Manual maintenance schedule.

Vapor Phase Granular Activated Carbon Treatment System Monitoring

- Monthly readings at the influent and effluent sampling ports were made with a calibrated PID to check the GAC system to detect carbon breakthrough. Qualitative VOC monitoring with a PID was utilized to record the performance of the GAC absorption system.
- PID-recorded VOC concentrations (reported in calibrant-gas-equivalents) were used to determine when the GAC in the lead unit requires replacement. The flow from the SVE lines to the lead carbon unit was typically changed to a new lead unit when the intermediate VOC reading is 25 percent or greater of the influent VOC concentration.
- Refer to Appendix C for a log of spent GAC totals to date.

Appendix B

SVE/AS System O & M Log Forms

Frost Street Sites - Site ID #s1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

O & M CHECKLIST FOR SVE/AIR SPARGE SYSTEM
101 Frost Street, Westbury, New York

Inspected By:	GLS & EB	Date:	6/4/2008	Weather: Cloudy and Muggy, ~75F

Arrival Time:	1530	SVE 1 Clock:	131200	SVE 2 Clock:	106161
Departure Time:		SVE 1 Clock:		SVE 2 Clock:	

CONTROL PANEL	Arrival	Departure
AS System	On	On
SVE System	On	On
Surge Protection	Lit	Lit
Lightning Protection	White	White
Sensaphone	On	On

AIR SPARGE SYSTEM		
Cleaned Particulate Filter	No	
Drained Filter/collector 1	Yes	
Drained Filter/collector 2	Yes	
Compressor Discharge Pressure	30	psi
Compressor Holding tank Pressure	90	psi

PID		
Calibrated	Yes	
Concentration:	100	ppb

SVE SYSTEM		
Knockout Tank Level	Empty	gallons
Knockout Discharge to Sewer	NA	gallons

Carbon Vessels	Pre-Carbon PID		Post Carbon PID		Bypassed
Carbon Vessel 1	4.1	ppm		ppm	No
Carbon Vessel 2	4.1	ppm	0.0	ppm	No
Carbon Vessel 3		ppm		ppm	Yes

Monitoring Well Depth to Water Readings	
2a	
4a	
6a	

SVE WELL READINGS (INSIDE TRAILER)							
SVE	Velocity		Flow		Vacuum		PID Concentration	
V1	7500	FPM		scfm	46	inch H_20	2.6	ppm
V2	5400	FPM		scfm	50	inch H_20	10.5	ppm
V3a	4700	FPM		scfm	42	inch H_20	0.0	ppm
V3	5000	FPM		scfm	40	inch H_20	0.7	ppm
V4	4600	FPM		scfm	41	inch H_20	0.0	ppm
V6	3800	FPM		scfm	40	inch H_20	0.0	ppm
V5	3400	FPM		scfm	42	inch H_20	0.0	ppm
V7	3200	FPM		scfm	41	inch H_20	0.0	ppm
Pre-Knockout Port					3.5	inch Hg vac	7.1	ppm
SVE Flow Rate	4100	FPM		scfm				

AS WELL READINGS (INSIDE TRAILER)								
AS WELL #	Pressure		Air Flow		AS WELL #	Pressure		Air Flow	
AS Well #1	14.5	psi	3.75	SCFM	AS Well #16	15.5	psi	3.5	SCFM
AS Well #2	14.5	psi	4	SCFM	AS Well #12	17	psi	>2	SCFM
AS Well #4	14.5	psi	6	SCFM	AS Well #10	17.5	psi	>2	SCFM
AS Well #3	16	psi	5	SCFM	AS Well #13	18	psi	>2	SCFM
AS Well #5	15.5	psi	5	SCFM	AS Well #14	15	psi	5	SCFM
AS Well #7	15	psi	4.5	SCFM	AS Well #18	15	psi	5.5	SCFM
AS Well #9	15	psi	8.5	SCFM	AS Well #17	15.5	psi	4.5	SCFM
AS Well #8	14	psi	6	SCFM	AS Well #15	15	psi	7.5	SCFM
AS Well #6	15	psi	5.5	SCFM	AS Well #19	15.5	psi	4.5	SCFM
AS Well #11	15.5	psi	2.75	SCFM					

NOTES
Lines PID'd when system shut down and without use of pump

O & M CHECKLIST FOR SVE/AIR SPARGE SYSTEM
101 Frost Street, Westbury, New York

Inspected By:	GLS & EJL	Date:	6/27/2008	Weather: Cloudy and Muggy, ~80F

Arrival Time:	900	SVE 1 Clock:	133209	SVE 2 Clock:	108152
Departure Time:		SVE 1 Clock:		SVE 2 Clock:	

CONTROL PANEL	Arrival	Departure
AS System	On	On
SVE System	On	On
Surge Protection	Lit	Lit
Lightning Protection	White	White
Sensaphone	On	On

AIR SPARGE SYSTEM		
Cleaned Particulate Filter	No	
Drained Filter/collector 1	Yes	
Drained Filter/collector 2	Yes	
Compressor Discharge Pressure	30	psi
Compressor Holding tank Pressure	75	psi

PID		
Calibrated	Yes	
Concentration:	100	ppb

SVE SYSTEM		
Knockout Tank Level	Empty	gallons
Knockout Discharge to Sewer	NA	gallons

Carbon Vessels	Pre-Carbon PID		Post Carbon PID		Bypassed
Carbon Vessel 1	4.6	ppm	0.0	ppm	No
Carbon Vessel 2	0.0	ppm	0.0	ppm	No
Carbon Vessel 3		ppm		ppm	Yes

Monitoring Well Depth to Water Readings	
2a	50.09
4a	49.59
6a	45.55

SVE WELL READINGS (INSIDE TRAILER)							
SVE	Velocity		Flow		Vacuum		PID Concentration	
V1	8000	FPM		scfm	48	inch H_20	12.0	ppm
V2	5500	FPM		scfm	52	inch H_20	38.2	ppm
V3a	4800	FPM		scfm	43	inch H_20	0.0	ppm
V3	5500	FPM		scfm	42	inch H_20	14.6	ppm
V4	4800	FPM		scfm	42	inch H_20	0.0	ppm
V6	3900	FPM		scfm	42	inch H_20	0.0	ppm
V5	3500	FPM		scfm	44	inch H_20	0.0	ppm
V7	3300	FPM		scfm	43	inch H_20	0.0	ppm
Pre-Knockout Port					3.75	inch Hg vac	5.2	ppm
SVE Flow Rate	4200	FPM		scfm				

AS WELL READINGS (INSIDE TRAILER)								
AS WELL #	Pressure		Air Flow		AS WELL #	Pressure		Air Flow	
AS Well #1	14.5	psi	3.5	SCFM	AS Well #16	15	psi	3.5	SCFM
AS Well #2	14.25	psi	3.75	SCFM	AS Well #12	16.5	psi	>2	SCFM
AS Well #4	14.5	psi	5	SCFM	AS Well #10	17	psi	>2	SCFM
AS Well #3	15.75	psi	5	SCFM	AS Well #13	17.5	psi	>2	SCFM
AS Well #5	15	psi	5.25	SCFM	AS Well #14	14.5	psi	4.75	SCFM
AS Well #7	15	psi	4.5	SCFM	AS Well #18	14.5	psi	5	SCFM
AS Well #9	14.5	psi	7	SCFM	AS Well #17	15	psi	4.5	SCFM
AS Well #8	13.75	psi	5.5	SCFM	AS Well #15	15	psi	7	SCFM
AS Well #6	15	psi	5	SCFM	AS Well #19	15	psi	4	SCFM
AS Well #11	15.25	psi	2.75	SCFM					

NOTES
0955 - Collect Effluent 6/27/08 sample
1000 - Collect Influent 6/27/08 sample

Appendix C

Log of Spent Vapor Phase GAC Totals to Date

Frost Street Sites - Site ID #s1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Frost Street Sites
Westbury, New York

Table C1
Spent Vapor Phase GAC Totals

Date of Transport from Site	Spent GAC Weight (pounds)	Carbon Facility	RCRA Facility #
January 19, 2006	7,500	Giant Resource Recovery-Sumter Inc.	SCD036275626
February 2, 2006	11,441	Envirotrol Inc.	PAD987270725
April 7, 2006	6,486	Envirotrol Inc.	PAD987270725
August 25, 2006	5,923	Envirotrol Inc.	PAD987270725
December 5, 2006	5,691	Envirotrol Inc.	PAD987270725
2006 Total	***37,041***		
March 30, 2007	6,913	Envirotrol Inc.	PAD987270725
September 20, 2007	6,164	Envirotrol Inc.	PAD987270725
2007 Total	***13,077***		
January 16, 2008	8,750	Siemens Water Technologies	PAD987270725
April 29, 2008	7,814	Siemens Water Technologies	PAD987270725
2008 Total	***16,564***		
Project Total	**66,682**		

Appendix D

Summary of SVE System Influent/Effluent Results (TO-15)

Frost Street Sites - Site ID #s1-30043 I, L, M

New Cassel Industrial Area, Westbury, New York

FROST STREET SITES
WESTBURY, NEW YORK

TABLE 1
SUMMARY OF SVE SYSTEM INFLUENT/EFFLUENT AIR SAMPLE RESULTS (TO-15)

Target Compound	Influent																	
	10/23/2006	12/7/2006	1/18/2007	4/4/2007	4/27/2007	5/16/2007	6/15/2007	7/18/2007	8/15/2007	10/10/2007	10/19/2007	11/19/2007	12/18/2007	1/21/2008**	2/28/2008	3/20/2008	4/30/2008	5/28/2008
	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Vinyl Chloride	460u	430u	0.25u	60.2U	60.2U	23.5U	1.22U	1.22U	1.22U	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	710u	670u	0.39u	43.7U	43.7U	11.0U	1.01U	1.01U	1.01U	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	710u	670u	0.39u	49.7U	49.7U	12.5U	0.99U	0.99U	0.99U	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	730u	690u	0.40u	42.6U	42.6U	10.5U	0.85U	0.85U	0.85U	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	710u	670u	0.39u	63.6U	63.6U	16.0U	1.27U	1.27U	1.27U	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	730u	690u	0.40u	349U	349U	86.0U	1.01U	1.01U	1.01U	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	980u	930u	0.53u	82.0U	82.0U	15.0U	1.64U	1.64U	1.64U	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	2,700	3,200	110	1,480	4,690	1,120	1.35U	1.35U	1.35U	1,900	1,100	970	330	ND	1,500	840	1,100	850
1,1,2-Trichloroethane	980u	930u	0.53u	68.4U	68.4U	12.5U	1.37U	1.37U	1.37U	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	190,000	180,000	10,000	129,000	116,000	13,700	145,000	37,500	13,500	92,000	73,000	62,000	27,000	9.4	80,000	65,000	60,000	61,000
1,1,2,2-Tetrachloroethane	1200u	1,200u	0.67u	53.4U	53.4U	12.5U	1.07U	1.07U	1.07U	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	710u	670u	0.39u	50.7U	50.7U	12.5U	0.87U	0.87U	0.87U	ND	ND	ND	ND	ND	ND	ND	ND	ND

Target Compound	NYSDEC DAR-1 SGC	Effluent																
		10/19/2006	12/7/2006	1/18/2007	4/4/2007	4/27/2007	5/16/2007	6/15/2007	7/18/2007	8/15/2007 *	9/26/2007	10/19/2007	11/19/2007	12/18/2007	1/21/2008	2/28/2008	3/20/2008	4/30/2008	5/28/2008
	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Vinyl Chloride	180,000	0.51u	0.51u	0.51u	1.20U	1.20U	0.47U	1.22U	1.22U	1.22U	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene		0.79u	0.79u	0.79u	0.87U	0.87U	0.22U	1.01U	1.01U	1.01U	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene		0.79u	0.79u	0.79u	0.99U	0.99U	0.25U	0.99U	0.99U	0.99U	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	none	0.81u	0.81u	0.81u	0.85U	0.85U	0.21U	0.85U	0.85U	0.85U	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene		0.79u	0.79u	0.79u	1.27U	1.27U	0.32U	1.27U	1.27U	1.27U	ND	ND	ND	ND	ND	16	49	49	ND
1,2-Dichloroethane		0.81u	0.81u	0.81u	6.98U	6.98U	1.72U	1.01U	1.01U	1.01U	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	68,000	1.1u	1.1u	1.1u	1.64U	1.64U	0.30U	1.64U	1.64U	1.64U	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	54,000	4.1	1.4	1.1u	1.35U	16.6	2.75	1.35U	1.35U	3,000	ND	ND	690	80	ND	17	480	480	ND
1,1,2-Trichloroethane	none	1.1u	1.1u	1.1u	1.37U	1.37U	0.25U	1.37U	1.37U	1.37U	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1,000	55	26	8.8	54.4	196	2.84	1,680	107	9,580	25	9.2	21,000	6,000	15	580	7,000	1,700	49
1,1,2,2-Tetrachloroethane		1.4u	1.4u	1.4u	1.07U	1.07U	0.25U	1.07U	1.07U	1.07U	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	none	0.79u	0.79u	0.79u	1.01U	1.01U	0.25U	0.87U	0.87U	0.87U	ND	ND	ND	ND	ND	ND	ND	ND	ND

SGC = short-term guideline concentration
u = compound not detected at concentration above the listed reporting limit
U = compound not detected at concentration above the Method Detection Limit (MDL)
ND = Compound was analyzed for but not detected above the laboratory reporting limit.
10/23/06 - 1/18/07 results analyzed by Severn Trent Laboratories
4/4/07 - 8/15/07 data analyzed by United Chemists
9/26/07 to present data analyzed by Columbia Analytical Services
Note: Lower concentrations detected on 1/18/07, 5/16/07, 7/18/07, 8/15/07 likely due to Air Sparging System component fault - System temporarily down around time of sampling event.
* Effluent sample secured post primary carbon vessel.
** Suma canister leaked after filling