



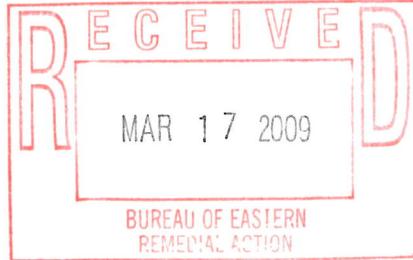
**WALDEN ASSOCIATES**

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*Via e-mail 3/10/09 to J. Dyber  
Certified Mail # 7008 1830 0003 3629 3429*

March 10, 2009

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



Re: Progress Report: February 2009  
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.

### **February Work Completed**

The following tasks were completed in February 2009:

#### **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.

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New York State Department of Environmental Conservation  
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- Quantitative sampling of the influent and effluent SVE system air flow was conducted on February 26, 2009. Results of quantitative sampling with one liter summa canisters for TO-15 analysis are summarized in Table D-1 in Appendix D.

#### GCW System

- An amended *Groundwater Circulation Well System Full Scale Remedial Design Plans*, dated December 2008 (Revised February 5, 2009), was submitted to the NYSDEC on February 5, 2009.

#### Source Delineation

- A *Proposal for 89 Frost Street Source Delineation Sampling* letter was submitted to the NYSDEC on February 6, 2009.
- Groundwater samples for source delineation were collected on February 9-13 and 18, 2009. Results will be presented in a forthcoming report following receipt and evaluation of sample analysis.

#### March Work Items

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

#### 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.
- Quantitative sampling of influent and effluent SVE system air for analysis scheduled for March 23, 2009.
- 3<sup>rd</sup> quarter 2008 groundwater monitoring sampling event (annual sampling of 29 Site related wells – completed in September 2008) and 4<sup>th</sup> quarter 2008 groundwater monitoring sampling event (quarterly sampling of 8 Site related wells – completed in December 2008) results will be presented in forthcoming quarterly groundwater monitoring reports following receipt, evaluation, and data validation of quarterly groundwater sample analysis.

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New York State Department of Environmental Conservation  
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- 1st quarter 2009 groundwater monitoring sampling event (quarterly sampling of 8 Site related wells – completed in December 2007) was completed the first week in March.

Soil Vapor Intrusion

- Follow-up soil vapor intrusion investigation work for two subslab/indoor air sampling locations at the western end of the Century 21 Building scheduled to begin the week of March 16, 2009.

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.  
G. Bobersky  
G. Litwin  
A. Cava  
J. Nealon  
R. Weitzman  
D. Engel, Esq.  
H. Szenicer, Esq.  
F. Werfel  
K. Maldonado

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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:	GLW	Date:	2/26/2009	Weather:	Mostly Cloudy ~35F																																																																		
Arrival Time:	9:10	SVE 1 Clock:	SVE 2 Clock:																																																																				
Departure Time:	11:00	SVE 1 Clock:	SVE 2 Clock:																																																																				
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<b>NOTES</b> <p>1022 - Collect Effluent 2/26/09 sample</p> <p>1027 - Collect Influent 2/26/09 sample</p> <p>Outside KO tank contains approximately 350/625 ga</p>																																																																							

## 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
<i>2006 Total</i>	<i>37,041</i>		
March 30, 2007	6,913	Envirotrol Inc.	PAD987270725
September 20, 2007	6,164	Envirotrol Inc.	PAD987270725
<i>2007 Total</i>	<i>13,077</i>		
January 16, 2008	8,750	Siemens Water Technologies	PAD987270725
April 29, 2008	7,814	Siemens Water Technologies	PAD987270725
September 12, 2008	5,469	Siemens Water Technologies	PAD987270725
<i>2008 Total</i>	<i>22,033</i>		
January 28, 2009	7,004	Siemens Water Technologies	PAD987270725
<i>2009 Total</i>	<i>7,004</i>		
<b>Project Total</b>	<b>79,155</b>		

## 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)

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
<b>Target Compound</b>														
Vinyl Chloride	460u	430u	0.25u	60.2U	60.2U	23.5U	1.22U	1.22U	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	710u	670u	0.39u	43.7U	43.7U	11.0U	1.01U	1.01U	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	710u	670u	0.39u	49.7U	49.7U	12.5U	0.99U	0.99U	ND	ND	ND	ND	ND	ND
1,1,1,2-Dichloroethene	730u	690u	0.40u	42.6U	42.6U	10.5U	0.85U	0.85U	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	710u	670u	0.39u	63.6U	63.6U	16.0U	1.27U	1.27U	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	730u	690u	0.40u	349U	349U	86.0U	1.01U	1.01U	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	980u	930u	0.53u	82.0U	82.0U	15.0U	1.64U	1.64U	ND	ND	ND	ND	ND	ND
Trichloroethene	2,700	3,200	110	1.480	4,690	1,120	1.35U	1.35U	1,900	1,100	970	330		
1,1,2-Trichloroethane	980u	930u	0.53u	68.4U	68.4U	12.5U	1.37U	1.37U	ND	ND	ND	ND	ND	ND
Terachloroethene	190,000	180,000	10,000	129,000	116,000	13,700	145,000	137,500	92,000	73,000	62,000	27,000		
1,1,2,2-Tetrachloroethane	1200u	1,200u	0.67u	53.4U	53.4U	12.5U	1.07U	1.07U	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	710u	670u	0.39u	50.7U	50.7U	12.5U	0.87U	0.87U	ND	ND	ND	ND	ND	ND

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
<b>Target Compound</b>														
Vinyl Chloride	180,000	0.51u	0.51u	1.20U	1.20U	0.47U	1.22U	1.22U	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	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	ND	ND	ND	ND	ND	ND
1,1,1-Dichloroethane	none	0.81u	0.81u	0.85U	0.85U	0.21U	0.85U	0.85U	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	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.81u	0.81u	0.81u	6.98U	6.98U	1.72U	1.01U	1.01U	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	68,000	1.1u	1.1u	1.64U	1.64U	0.30U	1.61U	1.64U	ND	ND	ND	ND	ND	ND
Trichloroethene	54,000	4.1	1.4	1.1u	1.1u	16.6	2.75	1.35U	3,000	ND	ND	690	80	
1,1,2-Trichloroethane	none	1.1u	1.1u	1.37U	1.37U	0.25U	1.37U	1.37U	ND	ND	ND	ND	ND	ND
Terachloroethene	1,000	55	26	8.8	54.4	196	2.84	1,680	107	9,580	25	9,2	21,000	6,000
1,1,2,2-Tetrachloroethane	1.4u	1.4u	1.4u	1.07U	1.07U	0.25U	1.07U	1.07U	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	none	0.79u	0.79u	1.01U	1.01U	0.25U	0.87U	0.87U	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 its 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 Seven Trent Laboratories

4/4/07 - 8/15/07 data analyzed by United Chemis

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

FROST STREET SITES  
WESTBURY, NEW YORK

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

Influent		1/21/2008**	2/28/2008	3/20/2008	4/30/2008	5/28/2008	6/27/2008	7/23/2008	8/20/2008	9/29/2008	10/20/2008	11/17/2008	12/23/2008	1/20/2009	1/26/2009
<b>Target Compound</b>															
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Effluent		1/21/2008	2/28/2008	3/20/2008	4/30/2008	5/28/2008	6/27/2008	7/23/2008	8/20/2008	9/29/2008	10/20/2008	11/17/2008	12/23/2008	1/20/2009	1/19/2009
<b>Target Compound</b>															
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	none	ND	ND	ND	ND	ND									
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	68,000	ND	ND	ND	ND	ND									
Trichloroethene	54,000	ND	17	480	480	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	none	ND	ND	ND	ND	ND									
Tetrachloroethene	1,000	15	580	7,000	1,700	49	4.1	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane (total)	none	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

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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

FILE ON EDOC'S	YES	NO
SITE NAME		
SITE #		
COUNTY	TOWN	
FOILABLE	YES	NO
SC/PSA	RI/FS	
RD	RA	
SM	OTHER	
NAME DESCRIPTION:		