WALDEN ASSOCIATES

Certified Mail # 7012 3050 0000 4697 2484
Via email to jldyber@gw.dec.state.ny.us

August 7, 2014

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

Re: Progress Report: July 2014
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 for work completed in July 2014.

Work Completed in July 2014

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).

- Periodic SVE/AS remedial system O&M was conducted.
- Repair and maintenance tasks were completed as needed to ensure proper operation of the SVE/AS system.
- Periodic monitoring of individual SVE well lines and combined effluent flow at the interior system sampling ports for VOC concentrations utilizing a calibrated PID was conducted.
- Periodic PID readings of the influent and effluent sampling ports for the on-site SVE system vapor phase granular activated carbon (GAC) treatment vessels were taken.
- Spent vapor phase GAC totals to date are summarized in Table C-1 in Appendix C.

- Quantitative sampling of the influent and effluent SVE system air flow was conducted with one liter summa canisters for TO-15 analysis on July 29, 2014. The sample results for the July 29th sampling event are not yet available and will be presented in the next monthly report.
- The laboratory analytical data report for the June 26, 2014 quantitative sampling event is attached in Appendix D.

Quarterly/Annual Groundwater Monitoring

- The second quarter 2014 groundwater sampling analytical data (8 monitoring wells – completed on June 24 and 25, 2014) is being validated by a third party data validator. The original laboratory analytical data report is attached in Appendix E.

89 Frost Street Site Source Area

- NYSDEC approved the June 19, 2014 revised Source Zone Treatment System Optimization proposal in a letter dated July 10, 2014.

Upcoming Work

- Monthly operation and maintenance visits to monitor the SVE system parameters will be completed.
- Monthly individual SVE well line and combined effluent flow monitoring at the interior system sampling ports for VOC concentrations utilizing a calibrated PID will be completed.
- Monthly readings of the sampling ports at the influent and effluent points of the GAC system with a PID will be taken.
- Monthly quantitative sampling of influent and effluent SVE system air for analysis will be completed.
- The June 2014 quarterly groundwater sampling analytical data shall be submitted to NYSDEC per the Electronic Data Deliverable (EDD) requirements upon completion of the data validation report.
- A quarterly groundwater monitoring report summarizing the March 2014 sampling event shall be submitted to the NYSDEC.
- The work described in the approved June 19, 2014 revised Source Zone Treatment System Optimization proposal shall be performed in accordance with the schedule presented in the proposal.

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
J. Nealon
J. DeFranco
H. Szenicer, Esq.
C. Anderson
K. Maldonado, Esq.
J. Privitera, Esq.
J. LaPoma, USEPA
C. Wise, Ensafe

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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:	TMJ/AMD	Date:	7/29/2014	Weather:	Sunny
Arrival Time:	8:57	SVE 1 Clock	35,896.70	AS 1 Clock:	25,020.50
Departure Time:	10:45	SVE 2 Clock	37,532.70	AS 2 Clock:	15,147.30

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	Yes No
Drained Filter/collector 1	Yes
Drained Filter/collector 2	Yes
Compressor Discharge Pressure	--- psi
Compressor Holding tank Pressure	100 psi

PID	ppm range	ppb range
Calibrated	Yes/No	Yes
Concentration:	--- ppm	10,000 ppb

SVE SYSTEM	
Knockout Tank Level	F / 75 / 50 / 25 / E
Knockout Discharge to Sewer	gallons

Carbon Vessels	Pre-Carbon PID		Post Carbon PID		Bypassed
Carbon Vessel 1	--- ppm	--- ppb	--- ppm	--- ppb	Yes
Carbon Vessel 2	--- ppm	4632 ppb	--- ppm	256 ppb	No
Carbon Vessel 3	--- ppm	--- ppb	--- ppm	--- ppb	

Monitoring Well Depth to Water Readings	
2a	52.84'
4a	50.64'
6a	46.60'

SVE WELL READINGS (INSIDE TRAILER)

SVE	Velocity		Flow	Vacuum		PID Concentration	
V1	7900	FPM	scfm	50	inch H_2O	ppm	9533 ppb
V2	5000	FPM	scfm	53	inch H_2O	ppm	9868 ppb
V3a	4800	FPM	scfm	44	inch H_2O	ppm	1861 ppb
V3	5800	FPM	scfm	45	inch H_2O	ppm	9204 ppb
V4	5800	FPM	scfm	44	inch H_2O	ppm	654 ppb
V6	4000	FPM	scfm	44	inch H_2O	ppm	673 ppb
V5	3400	FPM	scfm	44	inch H_2O	ppm	860 ppb
V7	3400	FPM	scfm	46	inch H_2O	ppm	99 ppb
Pre-Knockout Port				4	inch Hg vac	ppm	ppb
SVE Flow Rate	4400	FPM	scfm				

AS WELL READINGS (INSIDE TRAILER)

AS WELL #	Pressure		Air Flow		AS WELL #	Pressure		Air Flow	
AS Well #1	15	psi	6	SCFM	AS Well #16	15	psi	7	SCFM
AS Well #2	15.5	psi	8	SCFM	AS Well #12	---	psi	---	SCFM
AS Well #4	15.5	psi	4	SCFM	AS Well #10	---	psi	---	SCFM
AS Well #3	15.5	psi	10	SCFM	AS Well #13	---	psi	---	SCFM
AS Well #5	15.75	psi	6	SCFM	AS Well #14	15	psi	6.5	SCFM
AS Well #7	14.5	psi	8	SCFM	AS Well #18	16	psi	7	SCFM
AS Well #9	15.5	psi	6.5	SCFM	AS Well #17	15.5	psi	10	SCFM
AS Well #8	14.5	psi	6.5	SCFM	AS Well #15	16	psi	9	SCFM
AS Well #6	14.5	psi	9.5	SCFM	AS Well #19	15.5	psi	7	SCFM
AS Well #11	15	psi	5	SCFM					

NOTES

Air Compressor #1 and SVE #1 Filter fault lights on.

Main Compressor Pressure = 60 psi.

9:48 AM Collected influent air sample in canister ISC00251.

9:49 AM Collected effluent air sample in canister ISC00908.

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
September 12, 2008	5,469	Siemens Water Technologies	PAD987270725
2008 Total	*22,033*		
January 28, 2009	7,004	Siemens Water Technologies	PAD987270725
June 4, 2009	6,814	Siemens Water Technologies	PAD987270725
December 8, 2009	6,924	Siemens Water Technologies	PAD987270725
2009 Total	*20,742*		
June 3, 2010	7,207	Siemens Water Technologies	PAD987270725
2010 Total	*7,207*		
January 19, 2011	7,102	Siemens Water Technologies	PAD987270725
2011 Total	*7,102*		
January 25, 2012	7,394	Siemens Water Technologies	PAD987270725
2012 Total	*7,394*		
July 1, 2013	6,757	Siemens Water Technologies	PAD987270725
2013 Total	*6,757*		
March 11, 2014	8,023	Siemens Water Technologies	PAD987270725
2014 Total	*8,023*		
Project Total	**129,376**		

Appendix D

SVE System Influent/Effluent Sampling (TO-15)
Laboratory Analytical Results (on CD)

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

New Cassel Industrial Area, Westbury, New York

Appendix E

June 2014 Groundwater Sampling
Laboratory Analytical Results (on CD)
Frost Street Sites - Site ID #s1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York