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Via email to jldyber@gv.dec.state.ny.us*

March 10, 2014

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

Re: Progress Report: January – February 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 from January through February 2014.

The last progress report submitted to NYSDEC was dated February 21, 2014 and covered the activities completed from September through December 2013.

Work Completed from January 2014 – February 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.
 - Due to operational issues with the two SVE blowers identified in late December 2013, the SVE-2 blower ran continuously throughout January and February.

- The SVE-2 blower had worn belts between the motor and the pump which were immediately replaced in late December 2013.
- A replacement motor was ordered for the SVE-1 blower based on wear observed on the motor. The replacement motor was subsequently installed on February 25, 2014.
 - In January 2014, repairs were made to the PVC piping connecting the SVE system moisture knockout tank, the transfer pump, and the liquid phase carbon vessel.
- Periodic individual SVE well lines and combined effluent flow monitoring 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.
- No change of the GAC in the three (3) on-site SVE system vapor phase carbon treatment vessels were completed during this reporting period.
 - The last carbon change for the three (3) SVE/AS system GAC treatment vessels was completed on July 1, 2013.
 - Spent vapor phase GAC totals to date are summarized in Table C-1 in Appendix C.
- The Annual Hazardous Waste Report for the waste carbon disposed in 2013 was electronically submitted to NYSDEC on February 27, 2014.
- Quantitative sampling of the influent and effluent SVE system air flow was conducted with one liter summa canisters for TO-15 analysis on January 30 and March 3, 2014.
 - Received laboratory analytical data for the first of these quantitative sampling events which are attached in Appendix D. The sample results for the latter sampling event are not yet available and will be presented in the next monthly report.
 - Note that the March 3 sampling was done as representative of February 2014. Sampling was attempted on February 28, but had to be rescheduled due to sampling equipment malfunction.
- A discharge permit letter, dated December 27, 2013, was submitted to the NCDPW for annual permit renewal for discharge of carbon treated groundwater sampling and SVE/AS remedial system knockout water to the NCDPW sewer system.
 - NCDPW issued a letter dated January 15, 2014 approving this permitted discharge through December 31, 2014.
- Carbon treated SVE/AS remedial system knockout water was discharged to the NCDPW sewer system via the sewer cleanout pipe located at the end of Main Street, behind the Century 21 Building, and just west of the 101 Frost Street sewer line clean-out.
 - The extended NCDPW discharge permit requires semi-annual reporting of discharge documentation, and a copy of this report will be forwarded to the NYSDEC upon completion.

Quarterly/Annual Groundwater Monitoring

- The October 2013 annual sampling groundwater monitoring analytical data were submitted to NYSDEC per the Electronic Data Deliverable (EDD) requirements on February 19, 2014.

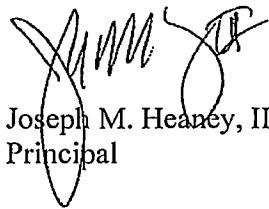
Upcoming Work

- Monthly operation and maintenance visits to monitor 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.
- Change of media within the three (3) SVE system vapor phase carbon vessels is scheduled to be completed on March 11, 2014.
- Change of media in the liquid phase carbon vessel that is used to treat knockout tank accumulations prior to discharge is scheduled for March 2014.
- Quantitative sampling of influent and effluent SVE system air for analysis is scheduled for March 27, 2014.
- 1st quarter groundwater sampling (8 monitoring wells) is scheduled to be completed March 25-26, 2014. The NYSDEC was notified of this schedule via email on March 6, 2014.

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

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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	Date: 1/30/2014	Weather: Sunny @ 22° F
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Arrival Time:	16:00 PM	SVE 1 Clock: 34091.0	AS 1 Clock: 24808.2
Departure Time:	18:00 PM	SVE 2 Clock: 34429.7	AS 2 Clock: 15147.5

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
Drained Filter/collector 1	Yes
Drained Filter/collector 2	Yes
Compressor Discharge Pressure	35 psi
Compressor Holding tank Pressure	120 psi

PID	ppm range	ppb range
Calibrated	Yes	Yes
Concentration:	100 ppm	10 ppb

SVE SYSTEM	
Knockout Tank Level	75
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	--	ppb	--	ppm	--	ppb	Yes
Carbon Vessel 3	0	ppm	427	ppb	--	ppm	--	ppb	No

Monitoring Well Depth to Water Readings (feet)	
2a	Covered by snow
4a	50.75
6a	50.53

SVE WELL READINGS (INSIDE TRAILER)

SVE	Velocity	Flow	Vacuum	PID Concentration
V1	1100 FPM	-- scfm	24 inch H ₂ O	0 ppm 924 ppb
V2	500 FPM	-- scfm	23 inch H ₂ O	0 ppm 2642 ppm
V3a	500 FPM	-- scfm	23 inch H ₂ O	0.0 ppm 48 ppb
V3	500 FPM	-- scfm	24 inch H ₂ O	0.0 ppm 976 ppb
V4	3000 FPM	-- scfm	24 inch H ₂ O	0.0 ppm 22 ppb
V6	1200 FPM	-- scfm	22 inch H ₂ O	0.0 ppm 12 ppb
V5	2000 FPM	-- scfm	32 inch H ₂ O	0.0 ppm 24 ppb
V7	5000 FPM	-- scfm	30 inch H ₂ O	0.0 ppm 1 ppb
Pre-Knockout Port			1.0 inch Hg vac	ppm ppb
SVE Flow Rate	-- FPM	-- scfm		

AS WELL READINGS (INSIDE TRAILER)

AS WELL #	Pressure	Air Flow	AS WELL #	Pressure
AS Well #1	15 psi	1.0 SCFM	AS Well #16	12 psi
AS Well #2	13 psi	1.0 SCFM	AS Well #12	13 psi
AS Well #4	15 psi	1.0 SCFM	AS Well #10	-- psi
AS Well #3	14.5 psi	1.0 SCFM	AS Well #13	13.5 psi
AS Well #5	15 psi	1.0 SCFM	AS Well #14	13 psi
AS Well #7	15 psi	1.0 SCFM	AS Well #18	12.5 psi
AS Well #9	14.5 psi	1.0 SCFM	AS Well #17	14 psi
AS Well #8	14.5 psi	1.0 SCFM	AS Well #15	15 psi
AS Well #6	14 psi	1.0 SCFM	AS Well #19	13 psi
AS Well #11	12 psi	1.0 SCFM		2.0
				SCFM

NOTES

1033 Collected effluent 01302014 air sample in canister 1SC01155.

1043 Collected influent 01302014 air sample in canister 1SC01103.

Pressure 1032 hPa

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

Inspected By: JWB	Date: 3/3/2014	Weather: Cloudy/ Snow @ 29° F
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Arrival Time: 9:00	SVE 1 Clock: 34091.0	AS 1 Clock: 24808.2
Departure Time: 12:15	SVE 2 Clock: 35864.4	AS 2 Clock: 15147.5

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

PID	ppm range	ppb range
Calibrated	Yes	Yes
Concentration:	100 ppm	10 ppb

Carbon Vessels	Pre-Carbon PID		Post Carbon PID		Bypassed
Carbon Vessel 1	--	ppm	--	ppb	--
Carbon Vessel 2	--	ppm	--	ppb	--
Carbon Vessel 3	0	ppm	427	ppb	--

AIR SPARGE SYSTEM	
Cleaned Particulate Filter	Yes
Drained Filter/collector 1	Yes
Drained Filter/collector 2	Yes
Compressor Discharge Pressure	30 psi
Compressor Holding tank Pressure	110 psi

SVE SYSTEM	
Knockout Tank Level	25
Knockout Discharge to Sewer	-- gallons

SVE WELL READINGS (INSIDE TRAILER)										
SVE	Velocity		Flow		Vacuum		PID Concentration			
V1	7500	FPM	--	scfm	50	inch H ₂ O	0.3	ppm	1106	ppb
V2	4500	FPM	--	scfm	52	inch H ₂ O	1.6	ppm	3690	ppm
V3a	4200	FPM	--	scfm	42	inch H ₂ O	0.0	ppm	47	ppb
V3	5000	FPM	--	scfm	44	inch H ₂ O	0.0	ppm	514	ppb
V4	4000	FPM	--	scfm	42	inch H ₂ O	0.0	ppm	56	ppb
V6	3400	FPM	--	scfm	42	inch H ₂ O	0.0	ppm	41	ppb
V5	3200	FPM	--	scfm	42	inch H ₂ O	0.0	ppm	8	ppb
V7	3400	FPM	--	scfm	44	inch H ₂ O	0.0	ppm	8	ppb
Pre-Knockout Port					4.0	inch Hg vac	0.5	ppm	1,356	ppb
SVE Flow Rate	4000	FPM	--	scfm						

AS WELL READINGS (INSIDE TRAILER)						
AS WELL #	Pressure	Air Flow	AS WELL #	Pressure		
AS Well #1	15	psi	3.5	SCFM	AS Well #16	12.5
AS Well #2	13	psi	3.0	SCFM	AS Well #12	12.5
AS Well #4	14.5	psi	4.0	SCFM	AS Well #10	-
AS Well #3	13.5	psi	3.0	SCFM	AS Well #13	13
AS Well #5	14	psi	3.0	SCFM	AS Well #14	13
AS Well #7	14	psi	5.0	SCFM	AS Well #18	12
AS Well #9	14	psi	3.0	SCFM	AS Well #17	13.5
AS Well #8	14	psi	3.5	SCFM	AS Well #15	15
AS Well #6	13	psi	3.0	SCFM	AS Well #19	12.5
AS Well #11	12	psi	3.0	SCFM		

NOTES

1020 Collected influent 03032014 air sample in canister 1SC00727.

1025 Collected effluent 03032014 air sample in canister 1SC00070.

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
June 4, 2009	6,814	Siemens Water Technologies	PAD987270725
December 8, 2009	6,924	Siemens Water Technologies	PAD987270725
<i>2009 Total</i>	<i>20,742</i>		
June 3, 2010	7,207	Siemens Water Technologies	PAD987270725
<i>2010 Total</i>	<i>7,207</i>		
January 25, 2012	7,394	Siemens Water Technologies	PAD987270725
<i>2012 Total</i>	<i>7,394</i>		
July 1, 2013	6,757	Siemens Water Technologies	PAD987270725
<i>2013 Total</i>	<i>6,757</i>		
Project Total	121,353		

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