



Status Report
Little Valley Superfund Site
Cattaraugus Cutlery Area
300 Sixth Street
Little Valley, New York

Date: January 15, 2010

Reporting Period: **October 30, 2009- January 15, 2010**

For:

Louis DiGuardia, OSC

U.S. EPA Region II

Emergency & Remedial Response Division
Removal Action Branch

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John DiMartino, RPM

U.S. EPA Region II

Emergency & Remedial Response Division
New York Remedial Branch

290 Broadway

New York, NY 10007-1866

A. **Summary of Actions Conducted During Reporting Period**

- Week of December 15, 2009
 1. System was on upon arrival.
 2. Performed soil vapor extraction/sub-slab system O&M.
 3. Performed soil vapor extraction/sub-slab system air monitoring.
Note: Wells 7-10, 12, 25, 26, 30 and 32 and all sub-slabs except SDS-01 are closed. SS-1 cannot be monitored because the roof above it has collapsed.
 4. Changed the system oil and grease
 5. Installed an air monitoring valve in the influent after the SVE system but before the carbon vessel. This will now be used as the influent monitoring port.
 6. Drained the piping in well 34. The well sucked up water again after about 5 minutes. This well was therefore closed off from the system.
 7. Performed general site cleanup including weeding.
- Week of January 12, 2010
 1. System was off upon arrival. The knockout tank was full. The low level float switch in the tank was reading dry even though there was water in the tank. The system shut off when the high level float detected water. The system did not drain the tank and restart



because the low level float was reading dry. According to the hours, the system ran for approximately 11 days.

2. Drained the knockout tank and pulled the low level float. It was cleaned off and reinstalled, after which it worked properly. The system was then restarted. The float will be cleaned during every site visit from now on.
3. Performed soil vapor extraction/sub-slab system air monitoring. Note: Wells 7-10, 12, 25, 26, 30, 32 and 34 and all sub-slabs except SDS-01 are closed. SS-1 cannot be monitored because the roof above it has collapsed.
4. Changed the system oil and grease
5. Performed general site cleanup including snow removal.

B. **Monitoring, Sampling, Test Results and Figures**

See Appendix 1 for SVE/Sub-Slab Monitoring Log for December 16, 2009 and January 13, 2010; Appendix 2 for SVE/Sub-Slab Well Locations Map and SVE/Sub-Slab System Piping Map and Appendix 3 for SVE Wells Map Showing Radius of Influence

C. **Communications Transmitted to EPA**

None

D. **Summary of Actions Scheduled for Next Reporting Period**

- SVE system O&M, site maintenance
- Continue SVE system monitoring
- Installation of insulation on the new wells inside the building
- Update of SVE/sub-slab recovery rates

E. **Other Information Relating to Progress of Completion**

F. **Project Progress**

Continued monitoring of SVE and sub-slab system and data evaluation.

G. **Deviations to the Project Schedule**

None



Appendix 1:

Soil Vapor Extraction/Sub-Slab System Air Monitoring Log



Date: 12-16-09
WRS Project #: 33-64-060026

Soil Vapor Extraction/Sub Slab Air Monitoring Log

Well	MultiRAE Plus PID						Pipe Diameter	Veloci-Calc Plus				Vacuum
	Well Depth (Ft bgs*)	VOC (ppm)	Oxygen	H ₂ S	LEL	CO		Flow	Humidity	Temp.	Dew Pt.	
1	7	0.0	20.9	0	0	0	2"	3.30	95.5	27.7	26.7	13.5
2	7	0.0	20.9	0	0	0	2"	OVER	94.0	27.5	26.4	14.5
3	7	0.0	20.9	0	0	0	2"	15.00	86.4	27.1	24.1	14.0
4	7	0.0	20.9	0	0	0	2"	10.00	92.0	30.0	28.4	15.0
5	12	0.0	20.9	0	0	0	2"	4.40	100.0	26.1	26	15.0
6	12	Frozen					2"	Frozen				
7*	7											
8*	7						2"					
9*	7						2"					
10*	7						2"					
11	12	0.1	20.8	0	0	0	2"	7.50	94.5	24.8	25.0	13.0
12*	7	Frozen					2"	Frozen				
13	7	0.0	20.9	0	0	0	2"	3.00	94.0	20.7	19.6	13.0
16	12	0.0	20.9	0	0	0	2"	3.50	93.7	23.1	21.7	12.0
18	12	0.0	20.9	0	0	0	2"	9.15	77.2	26.0	20.7	13.0
19	7	0.0	20.9	0	0	0	2"	15.00	69.5	35.0	26.7	9.0
20	12	0.0	20.9	0	0	0	2"	5.10	99.6	27.2	27.1	13.0
24	7	0.0	20.9	0	0	0	2"	6.50	84.8	22.9	19.5	13.0
25*	12	-										
26*	7	-										
27	7	0.0	20.9	0	0	0	2"	6.20	92.8	23.8	22.3	13.0
28	7	0.0	20.9	0	0	0	2"	15.00	75.0	25.9	19.0	15.0
29	7	0.7	20.9	0	0	0	2"	6.00	77.0	26.0	20.5	13.5
30*	7						6"					

*Wells 7-10, 12, 25-26 and 30 are currently closed

Please note flow is measured in SCFM or ACFM.

Readings Performed by: Rob Derrick

Blower hours: 10393

FID: Flame Ionization Detector

VOC: Volatile Organic Compounds (in ppm); CO: Carbon Monoxide

LEL: Lower Explosive Limit

ppm: parts per million

Temperature: measured in degrees Fahrenheit

Vacuum: measured in inches of water (taken with the VelociCalc)

Humidity: percent relative Humidity

Flow: Actual Cubic feet per minute at existing temperature and pressure at time of measurement.



Little Valley Superfund Site (Cattaraugus Cutlery Area)

Date: 12-16-09
WRS Project #: 33-64-060026

Soil Vapor Extraction/Sub Slab Air Monitoring Log

Well	Well Depth (Ft bgs*)	MultiRAE Plus PID					Pipe Diameter	Veloci-Calc Plus				Vacuum
		VOC (ppm)	Oxygen	H ₂ S	LEL	CO		Flow	Humidity	Temp.	Dew Pt.	
32*	7	-					2"					
33	7	0.0	20.9	0	0	0	2"	8.50	82.9	28.0	24.7	12.00
34	12	0.5	20.7	0	0	0	2"	13.00	100.0	25.7	25.7	8.00
35	12	0.1	20.4	0	0	0	2"	1.00	93.3	30.6	29.1	7.00
36	12	0.0	20.9	0	0	0	2"	23.00	95.7	36.7	33.5	11.00
37	12	0.0	20.9	0	0	0	2"	32.50	98.3	35.2	34.6	9.00
38	12	0.0	20.9	0	0	0	2"	37.00	98.6	37.3	36.9	11.00
39	12	0.0	20.9	0	0	0	2"	1.25	95.0	31.2	29.9	12.00
40	12	0.0	20.9	0	0	0	2"	20.00	47.4	31.6	15.7	12.50
41	9.5	0.0	20.9	0	0	0	2"	3.00	94.3	21.9	20.7	13.00
42	12	0.0	20.9	0	0	0	2"	3.35	74.0	28.2	21.5	13.00
43	12	0.0	20.9	0	0	0	2"	3.50	97.7	23.0	22.5	13.00
44	7	0.0	20.9	0	0	0	2"	1.50	97.0	23.4	23.4	15.00
SDS-01	N/A	0.0	20.9	0	0	0	2"	49.15	97.7	32.4	31.8	8.00
SDS-02*	N/A	-										
SDS-05*	N/A	-										
SDS-07*	N/A	-										
SDS-09*	N/A	-										
SDS-10*	N/A	-										
SDS-11*	N/A	-										
SDS12*	N/A	-										
SS-1*	N/A	-										
Effluent	N/A	0.0	20.3	0	0	0	6"	440.00	50.8	53.5	36.0	N/A
Combined	N/A	0.0	20.9	0	0	0	6"	560.00	41.4	46.6	25.3	N/A
Background	N/A	0.0	20.9	0	0	0	N/A	N/A		25.0		N/A

*All of the sub-slabs but SDS-01 are closed and well 32 is currently closed. The roof has fallen in on SS-1 and thus it could not be monitored

Please note flow is measured in SCFM or ACFM.

Readings Performed by: Rob Derrick

Blower hours: 10393

Air Flow: 375 (475 on gauge) CFM Inlet Vacuum: 15" H₂O (gauge) Discharge Pressure: 13" H₂O

FID: Flame Ionization Detector

VOC: Volatile Organic Compounds (in ppm); CO: Carbon Monoxide

LEL: Lower Explosive Limit

ppm: parts per million

Temperature: measured in degrees Fahrenheit

Vacuum: measured in inches of water (taken with the VelociCalc)

Humidity: percent relative Humidity

Flow: Actual Cubic feet per minute at existing temperature and pressure at time of measurement.



Little Valley Superfund Site (Cattaraugus Cutlery Area)

Date: 1-13-10
WRS Project #: 33-64-060026

Soil Vapor Extraction/Sub Slab Air Monitoring Log

Well	Well Depth (Ft bgs*)	MultiRAE Plus PID					Pipe Diameter	Veloci-Calc Plus				Vacuum
		VOC (ppm)	Oxygen	H ₂ S	LEL	CO		Flow	Humidity	Temp.	Dew Pt.	
1	7	0.0	20.9	0	0	0	2"	7.75	97.0	31.4	30.9	12.0
2	7	0.0	20.9	0	0	0	2"	13.00	98.0	29.9	29.5	11.5
3	7	0.0	20.9	0	0	0	2"	10.15	92.0	34.8	32.8	13.0
4	7	0.0	20.9	0	0	0	2"	8.75	97.8	26.0	25.0	12.5
5	12	0.0	20.9	0	0	0	2"	2.30	80.1	27.1	20.9	12.0
6	12	Frozen					2"	Frozen				
7*	7	-					2"					
8*	7	-					2"					
9*	7	-					2"					
10*	7	-					2"					
11	12	0.0	20.8	0	0	0	2"	9.85	78.6	26.3	21.3	15.0
12*	7						2"					
13	7	0.0	20.9	0	0	0	2"	6.25	80.0	23.6	19.2	11.5
16	12	0.0	20.9	0	0	0	2"	7.15	82.5	23.1	19.3	11.5
18	12	0.0	20.9	0	0	0	2"	8.00	75.0	28.5	22.4	11.0
19	7	0.0	20.9	0	0	0	2"	30.00	75.0	29.0	23.2	8.0
20	12	0.0	20.9	0	0	0	2"	3.00	88.0	32.0	21.7	11.0
24	7	0.0	20.9	0	0	0	2"	5.40	69.5	26.6	19.1	11.0
25*	12	-					2"					
26*	7	-					2"					
27	7	0.0	20.9	0	0	0	2"	6.00	83.5	26.9	23.2	11.5
28	7	0.0	20.9	0	0	0	2"	17.00	76.5	29.5	23.7	12.5
29	7	0.7	20.9	0	0	0	2"	4.75	62.0	33.5	23.0	11.0
30*	7	-					2"					

*Wells 7-10, 12, 25-26 and 30 are currently closed

Please note flow is measured in SCFM or ACFM.

Readings Performed by: Rob Derrick

Blower hours: 10659

FID: Flame Ionization Detector

VOC: Volatile Organic Compounds (in ppm); CO: Carbon Monoxide

LEL: Lower Explosive Limit

ppm: parts per million

Temperature: measured in degrees Fahrenheit

Vacuum: measured in inches of water (taken with the VelociCalc)

Humidity: percent relative Humidity

Flow: Actual Cubic feet per minute at existing temperature and pressure at time of measurement.



Little Valley Superfund Site (Cattaraugus Cutlery Area)

Date: 1-13-10
WRS Project #: 33-64-060026

Soil Vapor Extraction/Sub Slab Air Monitoring Log

Well	Well Depth (Ft bgs*)	MultiRAE Plus PID					Pipe Diameter	Veloci-Calc Plus				Vacuum
		VOC (ppm)	Oxygen	H ₂ S	LEL	CO		Flow	Humidity	Temp.	Dew Pt.	
32*	7	-					2"					
33	7	0.0	20.9	0	0	0	2"	13.15	77.3	28.5	20.1	11.50
34	12						2"					
35	12	0.0	20.4	0	0	0	2"	2.00	100.0	26.8	26.8	12.00
36	12	0.0	20.9	0	0	0	2"	15.00	98.8	31.2	31.3	11.00
37	12	0.0	20.9	0	0	0	2"	25.00	93.0	30.3	28.7	7.00
38	12	0.0	20.9	0	0	0	2"	25.75	99.8	35.6	35.5	7.50
39	12	0.0	20.9	0	0	0	2"	6.00	80.5	24.4	19.9	12.00
40	12	0.0	20.9	0	0	0	2"	4.75	86.0	24.3	20.7	11.50
41	9.5	0.0	20.9	0	0	0	2"	1.80	86.3	24.5	21.0	11.50
42	12	0.0	20.9	0	0	0	2"	5.40	84.0	25.2	21.7	11.50
43	12	0.0	20.9	0	0	0	2"	2.00	87.5	31.1	28.3	11.50
44	7	0.0	20.9	0	0	0	2"	3.60	100.0	25.5	25.5	13.00
SDS-01	N/A	0.0	20.9	0	0	0	2"	9.35	100.0	26.7	26.7	9.00
SDS-02*	N/A	-										
SDS-05*	N/A	-										
SDS-07*	N/A	-										
SDS-09*	N/A	-										
SDS-10*	N/A	-										
SDS-11*	N/A	-										
SDS12*	N/A	-										
SS-1*	N/A	-										
Effluent	N/A	0.0	20.3	0	0	0	6"	535.00	58.0	51.7	37.4	N/A
Combined	N/A	0.0	20.9	0	0	0	6"	645.00	34.0	67.4	37.5	N/A
Background	N/A	0.0	20.9	0	0	0	N/A	N/A	80.0	19.0	12.0	N/A

*All of the sub-slabs but SDS-01 are closed and wells 32 and 34 are closed. The roof has fallen in on SS-1 and thus it could not be monitored

Please note flow is measured in SCFM or ACFM.

Readings Performed by: Rob Derrick

Blower hours: 10659 Air Flow: 300 (475 on gauge) CFM Inlet Vacuum: 15" H₂O (gauge) Discharge Pressure: 13" H₂O

FID: Flame Ionization Detector

VOC: Volatile Organic Compounds (in ppm); CO: Carbon Monoxide

LEL: Lower Explosive Limit

ppm: parts per million

Temperature: measured in degrees Fahrenheit

Vacuum: measured in inches of water (taken with the VelociCalc)

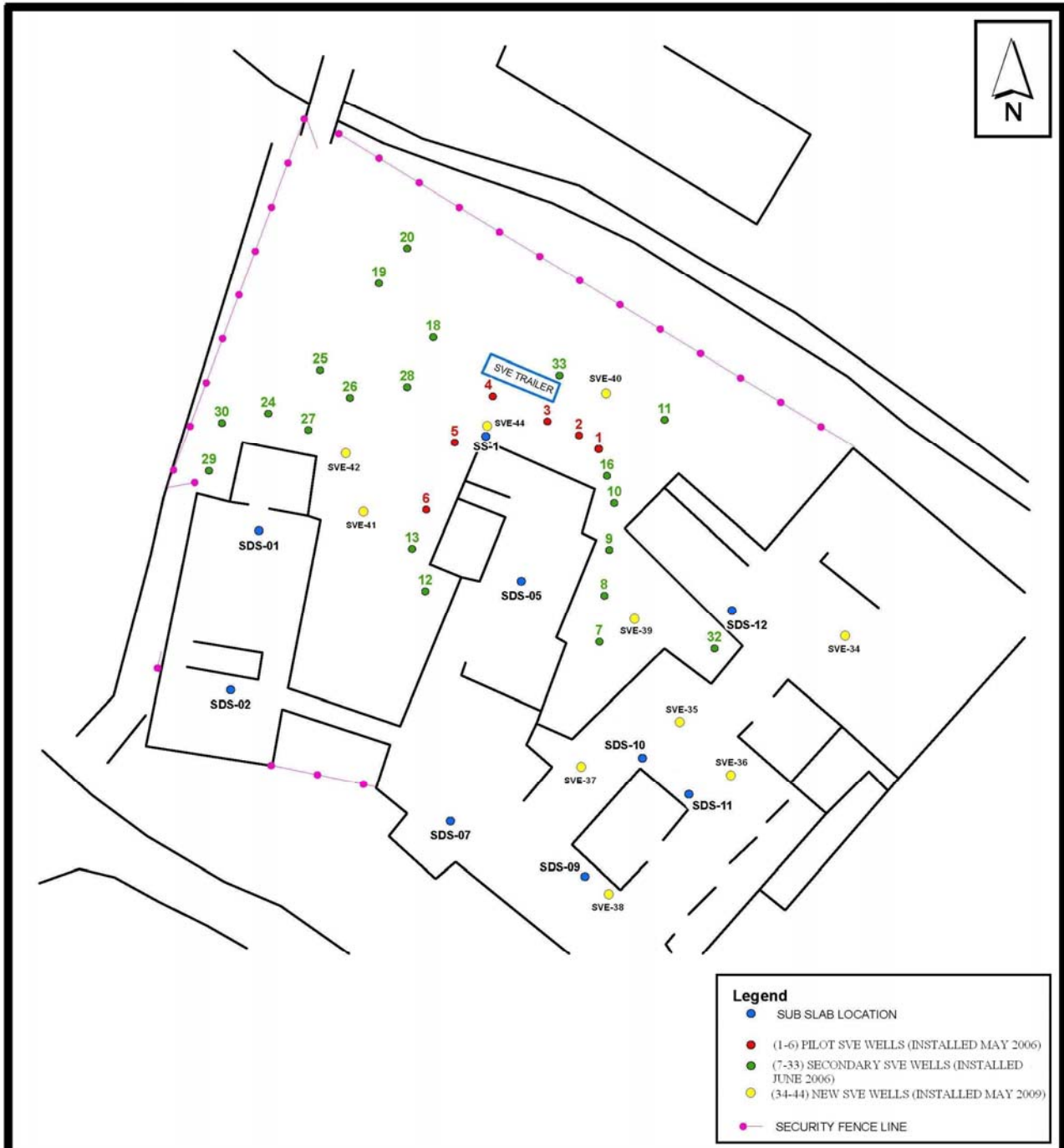
Humidity: percent relative Humidity

Flow: Actual Cubic feet per minute at existing temperature and pressure at time of measurement.



Appendix 2:

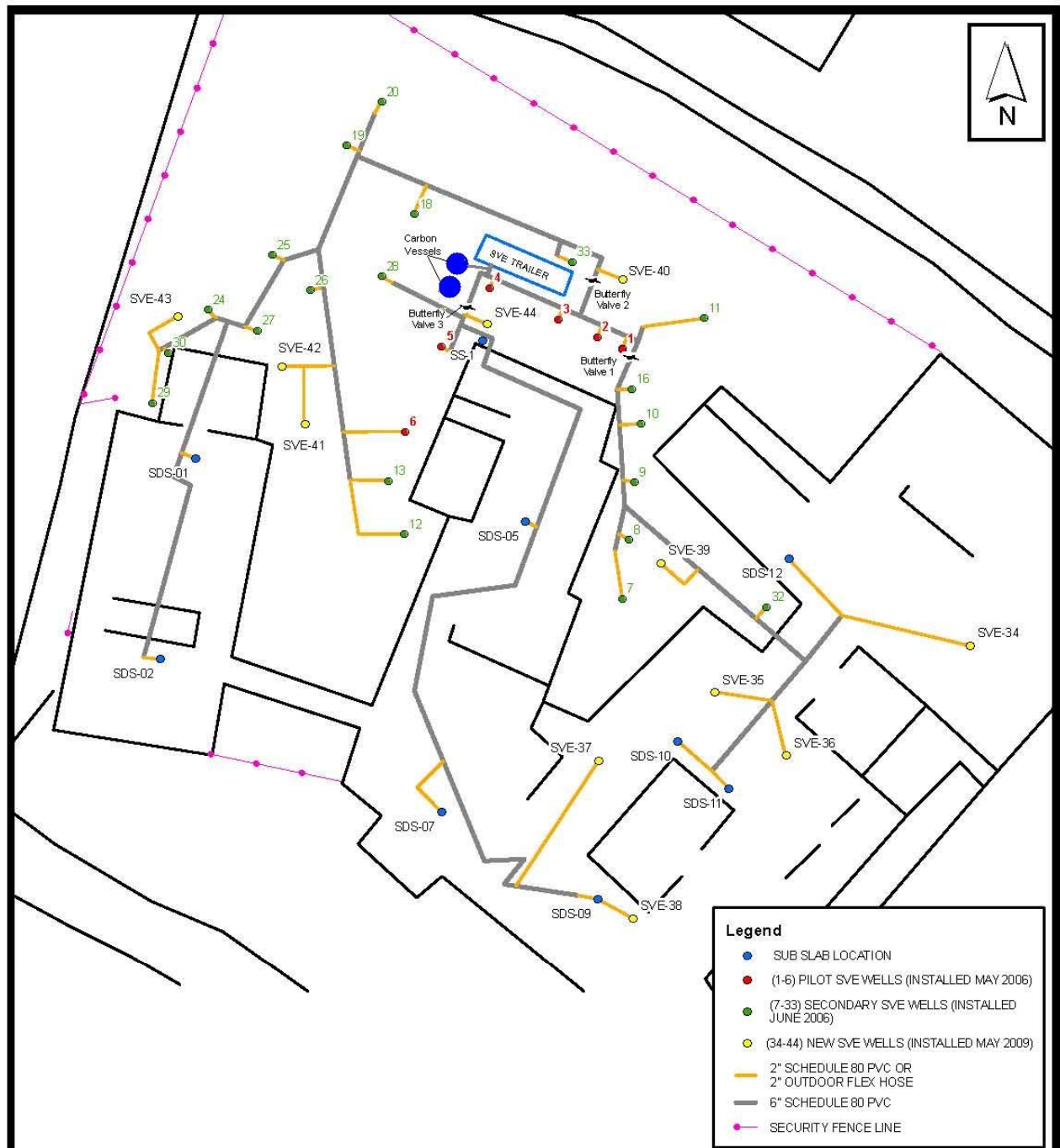
SVE/Sub-Slab Well Locations Map and
SVE/Sub-Slab System Piping Map



DRAWING STATUS	DRAFT	FINAL	Approximate Scale	0	25	50	100 Feet
PROJECT NO.:	33-64-060026	PROJECT MANAGER:	JOHN LEE				
PROJECT ID:	3364060026A_004	SCALE:	AS SHOWN	PLOT DATE:	02/26/2009	CHK BY:	JL
REVISION NO.:		REVISION DATE:		DRN DATE:	02/26/2009	APPVD BY:	JL
		DRAWN BY:	JPR			APPVD DATE:	02/26/2009



SOIL VAPOR EXTRACTION WELLS
AND SUB SLABS LOCATIONS
LITTLE VALLEY SITE
USEPA REGION 2
LITTLE VALLEY, CATTARAUGUS COUNTY, NEW YORK



DRAWING STATUS: DRAFT ☐ FINAL ☒

Approximate Scale: 0 25 50 100 Feet

PROJECT NO.: 33-64-060026

PROJECT MANAGER: JOHN LEE

PROJECT ID: 3364060026A_004

SCALE: AS SHOWN

PLOT DATE: 05/28/2009

CHK BY: JL

CHK DATE: 02/27/2009

REVISION NO.: 01

REVISION DATE:

DRAWN BY: JPR

DRN DATE: 02/27/2009

APPVD BY: JL

APPVD DATE: 02/27/2009



SOIL VAPOR EXTRACTION
AND SUB SLAB SYSTEM MAP
LITTLE VALLEY SITE
USEPA REGION 2
LITTLE VALLEY, CATTARAUGUS COUNTY, NEW YORK



Appendix 3:

Soil Vapor Extraction Well Map Showing Radius of Influence



DRAWING STATUS ☐ DRAFT ☒ FINAL

Approximate Scale 0 25 50 100 Feet

PROJECT NO.: 33-64-060026

PROJECT MANAGER: JOHN LEE

PROJECT ID: 3364060026A_001

SCALE: AS SHOWN

PLOT DATE: 02/26/2009

CHK BY: JL

CHK DATE: 02/26/2009

REVISION NO.: 03

REVISION DATE:

DRAWN BY: JPR

DRN DATE: 02/26/2009

APPVD BY: JL

APPVD DATE: 02/26/2009



SOIL VAPOR EXTRACTION WELLS
(WITH RADIUS OF INFLUENCE) AND SUB SLABS
LITTLE VALLEY SITE
USEPA REGION 2
LITTLE VALLEY, CATTARAUGUS COUNTY, NEW YORK

From: Rob Derrick <rderrick@wrscompass.com>
To: "lcross@gw.dec.state.ny.us" <lcross@gw.dec.state.ny.us>, "DiMartino.John..."
CC: "DiGuardia.Lou@epamail.epa.gov" <DiGuardia.Lou@epamail.epa.gov>
Date: 1/15/2010 2:09 PM
Subject: Little Valley Status Report
Attachments: Little Valley - WRS Status Report - Period October 30 2009-January 15 2010.doc

Linda/John

Here is the Status Report for Little Valley for this time period. Please let me know if you have any comments or questions.

Thanks and have a great weekend,

Rob Derrick