

Michael Schmoller
Project Manager
Wisconsin Department of Natural Resources
South Central Region
3911 Fish Hatchery Road
Fitchburg, WI 53711

Subject:

Soil Vapor Extraction (SVE) System Progress Report, March 2015 through August 2015, Madison-Kipp Corporation (MKC) Site, 201 Waubesa Street, Madison, Wisconsin.

Dear Mr. Schmoller:

On behalf of MKC, this progress report provides a summary of the SVE system monitoring completed as part of the MKC site located at 201 Waubesa Street in Madison, Wisconsin. This SVE Progress Report provides a summary of tasks completed during the period of March 1 through August 31, 2015.

Tasks Completed – March 1 through August 31, 2015

During the reporting period, SVE system Operation, Maintenance and Monitoring (OM&M) was performed by ARCADIS and/or MKC personnel each week. All water generated during SVE maintenance activities from March 1 through July 13 was incorporated by MKC with the facility process water on site. Monthly SVE OM&M was performed by MKC personnel March 18, April 23, May 21 and June 17.

On July 14, 2015, the SVE system effluent was combined with effluent from the groundwater extraction and treatment system (GETS) air stripper of the on the site. As part of the system modification, the carbon vessel and granular carbon were replaced for the combined system discharge treatment. Additionally, after July 14 any water generated during SVE maintenance activities was incorporated, treated, and discharged by the GETS. In accordance with Wisconsin Administrative Code NR 419, effluent samples were collected during the first three days of combined system operation, weekly for the next three weeks, and monthly thereafter. During the reporting period, system OM&M was performed and samples were collected on July 14, 15, 16, 24, 30, August 5, and August 13, 2015. All samples were submitted for laboratory analysis of volatile organic compounds by United States Environmental Protection Agency Method TO-15.

Imagine the result

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ENVIRONMENT

Date:

September 30, 2015

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Our ref:

WI001368.0031

Laboratory analytical data collected during the OM&M events is included in Table 1. As shown on Table 1, there has been an increase in both influent and effluent VOC concentrations since the combined system started. This is due to the addition of the air stripper discharge. Field data collected during the OM&M events is included in Table 2. The air emission tables are also included as Tables 3 through 7. A review of the air emission tables indicates the emissions rates are several orders of magnitude lower than the Wisconsin Administrative Code NR445 Emission Threshold Values.

Tasks In-Progress

The following tasks are scheduled to be completed from September 1 through December 31, 2015.

- Weekly and monthly SVE system OM&M activities. The OM&M activities and data collected will be used to optimize system operation and evaluate the need for future operation of the SVE system.
- The combined SVE & GETS air effluent and OM&M activities will be reported with the GETS groundwater remediation activities on a semi-annual basis using the WDNR's Remediation Site Operation, Maintenance, Monitoring & Optimization Report Form 4400-194.


If you have any questions or require any additional information, please contact us at 414.276.7742.

Sincerely,

ARCADIS U.S., Inc.



Christopher D. Kubacki, PE
Senior Engineer



Jennine L. Trask, PE
Project Manager

Attachments:

- Table 1 – SVE System Analytical Data
- Table 2 – Extraction Well Manifold Monitoring Data
- Table 3 – Estimate of Post-Carbon Emissions
- Table 4 – Estimate of Post-Carbon Emissions of Tetrachloroethene
- Table 5 – Estimate of Post-Carbon Emissions of Trichloroethene
- Table 6 – Estimate of Post-Carbon Emissions of Cis-1,2-Dichloroethene
- Table 7 – Estimate of Post-Carbon Emissions of Vinyl Chloride

Electronic Copies:

David Crass – Michael Best
Alina Satkoski – Madison Kipp

**Table 1
System Air Effluent Analytical Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Sample Location Sample Date	Effluent			Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
	3/9/2012	3/10/2012	3/11/2012	3/16/2012	3/23/2012	3/30/2012	4/11/2012				
1,1,1-Trichloroethane	<0.18	<0.35	<0.35	<2.4	<0.035	<1.8	<0.053	<1.8	<0.14	<0.94	<0.02
1,1-Dichloroethene	<0.15	<0.3	<0.3	<2.1	<0.03	<1.5	<0.045	<1.5	<0.12	<4	0.16 J
1,2,4-Trimethylbenzene	<0.26	<0.52	<0.52	<3.6	0.17 J	<2.6	0.079 J	5.7 J	2.4	<0.98	<0.021
1,2-Dichloroethane	<0.16	<0.31	<0.31	<2.2	<0.031	<1.6	<0.047	<1.6	<0.12	<0.84	<0.018
1,3,5-Trimethylbenzene	<0.26	<0.51	<0.51	<3.6	0.069 J	<2.6	<0.077	<2.6	0.69 J	<0.89	<0.019
1,4-Dichlorobenzene	<0.22	<0.44	<0.44	<3.1	0.049 J	<2.2	<0.066	<2.2	<0.18	<0.84	<0.018
Benzene	<0.09	<0.18	<0.18	<1.3	0.71	<0.9	0.69	<0.9	0.57 J	11	0.15 J
Chloroethane	<0.08	<0.16	<0.16	<1.1	<0.016	<0.8	<0.024	<0.8	0.56 J	<1.5	<0.033
Chloroform	<0.16	<0.31	<0.31	<2.2	<0.031	<1.6	<0.047	<1.6	<0.12	<1.1	0.037 J
Chloromethane	5.2	0.86 J	<0.13	<0.91	0.30 J	<0.65	0.65 J	<0.65	0.87 J	<1.6	0.60
cis-1,2-Dichloroethene	<0.07	<0.14	<0.14	78	0.50	190	14	150	17	240	19
Dichlorodifluoromethane	<0.19	0.94 J	0.56 J	<2.6	0.55	<1.9	0.44 J	<1.9	0.73 J	<0.94	0.47 J
Ethylbenzene	<0.11	<0.22	<0.22	<1.5	0.084 J	<1.1	<0.033	2.2 J	0.66 J	<0.7	<0.015
Methylene Chloride	<0.065	<0.13	<0.13	<0.91	0.26 JB	<0.65	0.50 J	<0.65	0.62 J	2.5 JB	0.16 JB
Styrene	<0.15	<0.3	<0.3	<2.1	<0.03	<1.5	<0.045	<1.5	<0.12	<0.52	<0.011
Tetrachloroethene	<0.055	<0.11	<0.11	1,500	14	1,900	38	890	98	700	0.16 J
Toluene	0.23 J	0.32 J	0.22 J	<1.3	0.33	1.0 J	0.14 J	6.1 J	2.7	1.2 J	<0.014
Trichlorofluoromethane	<0.17	<0.34	<0.34	<2.4	0.21	<1.7	0.18 J	<1.7	<0.14	<0.98	0.12 J
Trichloroethene	<0.15	<0.3	<0.3	76	0.20	130	1.2	100	4.4	110	0.061 J
Vinyl chloride	<0.15	10	13	16	18	37	33	34	31	8.7 J	7.6
Xylene (total)	<0.11	<0.22	<0.22	<1.5	0.53	<1.1	0.17 J	10	3.5	<0.75	<0.016
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, o-	<0.11	<0.22	<0.22	<1.5	0.17 J	<1.1	0.052 J	3.1 J	1.1	<0.75	<0.016

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**Table 1
System Air Effluent Analytical Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Sample Location Sample Date	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent			
	5/9/2012		6/14/2012		6/12/2012		7/10/2012		8/14/2012		9/12/2012		9/16/2012		10/16/2012
1,1,1-Trichloroethane	<4	<1.2	<5	<1.4	<7.3	<0.4	<2	<1	<2.4	<0.75	<12	<0.4			
1,1-Dichloroethene	<4	<1.2	<5	<1.4	<7.3	<0.4	<2	<1	<2.4	<0.75	<12	<0.4			
1,2,4-Trimethylbenzene	<4	<1.2	<5	<1.4	<7.3	2.0	<2	3.4	<2.4	<0.75	<12	<0.4			
1,2-Dichloroethane	<4	<1.2	<5	<1.4	<7.3	1.2	<2	<1	<2.4	<0.75	<12	<0.4			
1,3,5-Trimethylbenzene	<4	<1.2	<5	<1.4	<7.3	0.62	<2	1.3	<2.4	<0.75	<12	<0.4			
1,4-Dichlorobenzene	<4	<1.2	<5	<1.4	<7.3	1.5	<2	2.0	<2.4	<0.75	<12	<0.4			
Benzene	<4	<1.2	<5	<1.4	<7.3	0.41	<2	<1	<2.4	<0.75	<12	<0.4			
Chloroethane	<10	<3	<13	<3.5	<18	<1	<5	<2.5	<6	<1.9	<29	<1			
Chloroform	<4	<1.2	<5	<1.4	<7.3	0.67	<2	<1	<2.4	<0.75	<12	<0.4			
Chloromethane	<10	<3	<13	<3.5	<18	1.1	<5	<2.5	<6	<1.9	<29	<1			
cis-1,2-Dichloroethene	170	230	150	180	190	65	51	120	84	110	400	42			
Dichlorodifluoromethane	<10	<3	<13	<3.5	<18	<1	<5	<2.5	<6	<1.9	<29	<1			
Ethylbenzene	<4	<1.2	<5	<1.4	<7.3	1.1	<2	<1	<2.4	<0.75	<12	<0.4			
Methylene Chloride	<10	<3	<13	<3.5	<18	1.4	<5	<2.5	<6	<1.9	<29	<1			
Styrene	<4	<1.2	<5	<1.4	<7.3	0.84	<2	<1	<2.4	<0.75	<12	<0.4			
Tetrachloroethene	440	36	580	<1.4	650	<0.4	250	<1	290	1.9	1,500	41			
Toluene	<4	2.0	<5	2.2	<7.3	12	<2	1.2	<2.4	<0.75	<12	<0.4			
Trichlorofluoromethane	<4	<1.2	<5	<1.4	<7.3	<0.4	<2	<1	<2.4	<0.75	<12	<0.4			
Trichloroethene	80	3.0	71	8.7	96	3.4	27	7.6	38	7.9	160	5.1			
Vinyl chloride	<4	3.0	<5	<1.4	<7.3	2.4	<2	1.6	<2.4	1.8	20	0.74			
Xylene (total)	<4	<1.2	<5	1.4	<7.3	4.1	<2	2.5	<2.4	<0.75	<12	<0.4			
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Xylene, o-	<4	<1.2	<5	<1.4	<7.3	1.1	<2	<1	<2.4	<0.75	<12	<0.4			

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Madison-Kipp Corporation
Madison, Wisconsin**

Sample Location Sample Date	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
	11/14/2012		12/18/2012		1/16/2013		2/15/2013		3/13/2013		4/23/2013	
1,1,1-Trichloroethane	<0.8	<1.2	<9.1	<0.2	<2.6	<0.3	<6	<0.2	<4	<0.8	<1	<0.32
1,1-Dichloroethene	<0.8	<1.2	<9.1	<0.2	<2.6	<0.3	<6	<0.2	<4	<0.8	<1	<0.32
1,2,4-Trimethylbenzene	<0.8	<1.2	<9.1	0.26	<2.6	<0.3	<6	<0.2	<4	<0.8	<1	<0.32
1,2-Dichloroethane	<0.8	<1.2	<9.1	<0.2	<2.6	<0.3	<6	<0.2	<4	<0.8	<1	<0.32
1,3,5-Trimethylbenzene	<0.8	<1.2	<9.1	<0.2	<2.6	<0.3	<6	<0.2	<4	<0.8	<1	<0.32
1,4-Dichlorobenzene	<0.8	<1.2	<9.1	<0.2	<2.6	<0.3	<6	<0.2	<4	<0.8	<1	<0.32
Benzene	<0.8	<1.2	<9.1	<0.2	<2.6	<0.3	<6	<0.2	<4	<0.8	<1	<0.32
Chloroethane	<2	<3	<23	<0.5	<6.6	<0.75	<15	<0.5	<10	<2	<2.5	<0.8
Chloroform	<0.8	<1.2	<9.1	<0.2	<2.6	<0.3	<6	<0.2	<4	<0.8	<1	<0.32
Chloromethane	<2	<3	<23	<0.5	<6.6	<0.75	<15	0.57	<10	<2	<2.5	<0.8
cis-1,2-Dichloroethene	20	32	380	33	250	27	95	23	94	25	170	61
Dichlorodifluoromethane	<2	<3	<23	0.54	<6.6	<0.75	<15	0.67	<10	<2	<2.5	<0.8
Ethylbenzene	<0.8	<1.2	<9.1	<0.2	<2.6	<0.3	<6	<0.2	<4	<0.8	<1	<0.32
Methylene Chloride	<2	<3	<23	<0.5	<6.6 *	<0.75 *	<15	<0.5	<10	<2	<2.5	<0.8
Styrene	<0.8	<1.2	<9.1	<0.2	<2.6	<0.3	<6	<0.2	<4	<0.8	<1	<0.32
Tetrachloroethene	150	170	1,200	36	460	42	260	4.5	200	11	190	0.61
Toluene	<0.8	<1.2	<9.1	2.0	<2.6	1.8	<6	0.38	<4	5.4	<1	<0.32
Trichlorofluoromethane	<0.8	<1.2	<9.1	<0.2	<2.6	<0.3	<6	<0.2	<4	<0.8	<1	<0.32
Trichloroethene	13	11	140	3.9	74	4.7	36	0.82	29	1.3	48	1.3
Vinyl chloride	<0.8	4.3	12	5.9	3.1	4.2	<6	4.5	<4	2.7	<1	0.64
Xylene (total)	<0.8	<1.2	<9.1	0.37	<2.6	<0.3	6.9	<0.2	<4	<0.8	<1	<0.32
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, o-	<0.8	<1.2	<9.1	<0.2	<2.6	<0.3	<6	<0.2	<4	<0.8	<1	<0.32

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System Air Effluent Analytical Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Sample Location Sample Date	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
	5/14/2013		6/13/2013		7/15/2013		8/13/2013		9/10/2013		10/15/2013	
1,1,1-Trichloroethane	<6	<0.4	<10	<1	<6	<0.2	<4	<0.2	<3.9	<0.2	<3.4	<0.25
1,1-Dichloroethene	<6	<0.4	<10	<1	<6	<0.2	<4	<0.2	<3.9	<0.2	<3.4	<0.25
1,2,4-Trimethylbenzene	<6	<0.4	<10	<1	<6	<0.2	<4	0.25	<3.9	<0.2	<3.4	<0.25
1,2-Dichloroethane	<6	<0.4	<10	<1	<6	<0.2	<4	<0.2	<3.9	<0.2	<3.4	<0.25
1,3,5-Trimethylbenzene	<6	<0.4	<10	<1	<6	<0.2	<4	<0.2	<3.9	<0.2	<3.4	<0.25
1,4-Dichlorobenzene	<6	<0.4	<10	<1	<6	<0.2	<4	<0.2	<3.9	<0.2	<3.4	<0.25
Benzene	<6	<0.4	<10	<1	<6	<0.2	<4	<0.2	<3.9	<0.2	<3.4	<0.25
Chloroethane	<15	<1	<25	<2.5	<15	<0.5	<10	<0.5	<9.9	<0.5	<8.6	<0.63
Chloroform	<6	<0.4	<10	<1	<6	<0.2	<4	<0.2	<3.9	<0.2	<3.4	<0.25
Chloromethane	<15	<1	<25	<2.5	<15	0.57	<10	<0.5	<9.9	<0.5	<8.6	<0.63
cis-1,2-Dichloroethene	340	1.9	450	6.1	240	<0.2	320	<0.2	180	0.30	200	43
Dichlorodifluoromethane	<15	<1	<25	<2.5	<15	<0.5	<10	0.52	<9.9	0.56	<8.6	0.67
Ethylbenzene	<6	<0.4	<10	<1	<6	0.31	<4	0.20	<3.9	<0.2	<3.4	<0.25
Methylene Chloride	<15	<1	<25	<2.5	<15	1.4	<10	<0.5	<9.9	<0.5	<8.6	<0.63
Styrene	<6	<0.4	<10	<1	<6	<0.2	<4	<0.2	<3.9	<0.2	<3.4	<0.25
Tetrachloroethene	860	41	1,900	140	670	4.3	700	1.2	600	0.30	470	36
Toluene	<6	2.0	<10	1.8	<6	4.1	<4	3.0	<3.9	0.37	<3.4	<0.25
Trichlorofluoromethane	<6	<0.4	<10	<1	<6	<0.2	<4	<0.2	<3.9	<0.2	<3.4	<0.25
Trichloroethene	140	1.9	270	7.4	150	<0.2	130	<0.2	83	<0.2	86	3.2
Vinyl chloride	<6	<0.4	<10	<1	<6	0.54	<4	0.52	<3.9	1.2	<3.4	0.56
Xylene (total)	<6	1.5	<10	1.4	<6	0.88	<4	0.71	<3.9	0.38	<3.4	<0.25
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, o-	<6	0.44	<10	<1	<6	0.24	<4	0.20	<3.9	<0.2	<3.4	<0.25

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**Table 1
System Air Effluent Analytical Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Sample Location Sample Date	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
	11/6/2013		12/11/2013		1/16/2014		2/12/2014		3/10/2014		4/10/2014	
1,1,1-Trichloroethane	<3.2	<0.2	<1.4	<0.5	<3.0	0.32	<1.0	<0.20	<0.89	<0.20	<0.80	<0.20
1,1-Dichloroethene	<3.2	<0.2	<1.4	<0.5	<3.0	<0.20	<1.0	<0.20	<0.89	<0.20	<0.80	<0.20
1,2,4-Trimethylbenzene	<3.2	<0.2	<1.4	3.3	<3.0	<0.20	<1.0	<0.20	<0.89	<0.20	<0.80	0.22
1,2-Dichloroethane	<3.2	<0.2	<1.4	<0.5	<3.0	<0.20	<1.0	<0.20	<0.89	<0.20	<0.80	0.22
1,3,5-Trimethylbenzene	<3.2	<0.2	<1.4	1.3	<3.0	<0.20	<1.0	<0.20	<0.89	<0.20	<0.80	<0.20
1,4-Dichlorobenzene	<3.2	<0.2	<1.4	0.58	<3.0	<0.20	<1.0	<0.20	<0.89	<0.20	<0.80	<0.20
Benzene	<3.2	<0.2	<1.4	<0.5	<3.0	<0.20	<1.0	0.25	<0.89	<0.20	<0.80	<0.20
Chloroethane	<7.9	<0.5	<3.5	<1.3	<7.5	<0.50	<2.5	<0.50	<2.2	<0.50	<2.0	<0.50
Chloroform	<3.2	<0.2	<1.4	<0.5	<3.0	<0.20	<1.0	<0.20	<0.89	<0.20	<0.80	<0.20
Chloromethane	<7.9	<0.5	<3.5	<1.3	<7.5	<0.50	<2.5	<0.50	<2.2	0.51	<2.0	0.52
cis-1,2-Dichloroethene	210	20	110	15	200	23	81	0.64	130	6.5	74	3.2
Dichlorodifluoromethane	<7.9	<0.5	<3.5	1.3	<7.5	<0.50	<2.5	<0.50	<2.2	0.70	<2.0	<0.50
Ethylbenzene	<3.2	<0.2	<1.4	6.4	<3.0	<0.20	<1.0	<0.20	<0.89	<0.20	<0.80	0.48
Methylene Chloride	<7.9	<0.5	<3.5	<1.3	<7.5	<0.50	<2.5	<0.50	<2.2	<0.50	<2.0	0.73
Styrene	<3.2	<0.2	<1.4	<0.5	<3.0	<0.20	<1.0	<0.20	<0.89	<0.20	<0.80	0.41
Tetrachloroethene	580	1.5	230	71	430	19	39	2.7	120	13	140	16
Toluene	<3.2	0.23	<1.4	6.5	<3.0	<0.20	<1.0	<0.20	<0.89	0.30	<0.80	14
Trichlorofluoromethane	<3.2	<0.2	<1.4	<0.5	<3.0	<0.20	<1.0	<0.20	<0.89	<0.20	<0.80	<0.20
Trichloroethene	83	0.22	37	6.0	61	1.8	15	0.41	54	2.0	40	1.6
Vinyl chloride	<3.2	0.63	<1.4	1.4	7.2	4.3	6.2	<0.20	3.4	8.7	<0.80	0.44
Xylene (total)	<3.2	0.29	<1.4	15	<3.0	0.23	<1.0	<0.20	<0.89	<0.20	<0.80	1.5
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, o-	<3.2	<0.2	<1.4	3.6	<3.0	<0.20	<1.0	<0.20	<0.89	<0.20	<0.80	0.38

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**Table 1
System Air Effluent Analytical Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Sample Location Sample Date	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
	5/13/2014		6/11/2014		7/16/2014		8/13/2014		9/17/2014		10/16/2014	
1,1,1-Trichloroethane	<0.21	<0.021	<0.77	<0.042	<0.47	<0.20	<0.74	<0.20	<0.60	<0.84	<0.91	<0.48
1,1-Dichloroethene	<0.24	0.11 J	<0.88	0.46	<0.55	<0.24	<0.88	<0.23	<1.4	<1.9	<1.1	<0.57
1,2,4-Trimethylbenzene	0.87 J	1.2	<0.52	0.35 J	<0.51	<0.22	<0.81	<0.22	<0.56	<0.78	<1.0	<0.52
1,2-Dichloroethane	<0.17	0.091 J	<0.63	<0.034	<0.72	<0.32	<1.2	<0.30	<0.82	<1.1	<1.4	<0.74
1,3,5-Trimethylbenzene	0.33 J	0.42	<0.44	0.11 J	<0.34	<0.15	<0.54	<0.14	<0.42	<0.59	<0.66	<0.35
1,4-Dichlorobenzene	<0.14	0.13 J	<0.52	0.13 J	<0.44	<0.19	<0.70	<0.18	<1.0	<1.4	<0.86	<0.45
Benzene	<0.19	0.12 J	<0.70	0.87	<0.50	<0.22	<0.79	<0.21	<0.64	<0.88	<0.97	<0.51
Chloroethane	<0.30	0.25 J	<1.1	<0.060	<0.92	<0.40	<1.5	<0.39	<4.6	<6.4	<1.8	<0.94
Chloroform	<0.25	<0.025	<0.92	<0.050	<0.48	<0.21	<0.77	<0.20	<0.42	<0.58	<0.95	<0.50
Chloromethane	<1.4	<0.14	<5.0	<0.27	<1.4 J	<0.62 J	<2.3	<0.60	<4.7	<6.5	<2.8	<1.4
cis-1,2-Dichloroethene	90	11	230	46	150	120	270	280	220	1,000	230	580
Dichlorodifluoromethane	<0.30	0.47 J	<1.1	0.55 J	<0.49	<0.22	<0.79	<0.21	<0.83	<1.2	<0.97	<0.50
Ethylbenzene	0.81 J	1.2	<0.48	1.0	<0.61	<0.26	<0.96	<0.26	<3.4	<4.7	<2.2	<1.1
Methylene Chloride	<1.3	0.91	<4.6	0.89 J	<1.1	<0.48	<1.8	<0.47	<0.79	<1.1	<1.2	<0.62
Styrene	<0.18	0.20	<0.66	<0.036	<0.57	<0.25	<0.91	<0.24	<0.97	<1.4	<1.1	<0.58
Tetrachloroethene	210	22	1,000	0.72	620	3.0	820	<0.20	1,000	<0.94	1,000	8.5
Toluene	1.8 J	17	<0.63	0.98	<0.32	1.1	<0.51	<0.13	<0.82	<1.1	<0.62	<0.33
Trichlorofluoromethane	<0.30	0.22	<1.1	0.51	<0.58	<0.25	<0.92	<0.24	<0.59	<0.82	<1.1	<0.59
Trichloroethene	46	1.6	140	0.25 J	100	0.97	130	<0.34	150	6.8	160	15
Vinyl chloride	<0.38	0.35	<1.4	0.33 J	<0.44	<0.19	<0.70	<0.19	<0.61	<0.84	<0.86	<0.45
Xylene (total)	4.5	6.1	<1.3	4.1	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	NA	NA	NA	NA	<0.30	<0.13	<0.48	<0.13	<0.36	<0.50	<0.59	<0.31
Xylene, o-	1.1 J	1.6	<0.59	1.1	<0.45	<0.20	<0.72	<0.19	<0.81	<1.1	<0.88	<0.46

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**Table 1
System Air Effluent Analytical Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Sample Location Sample Date	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Combined System	
	2/20/2015		3/18/2015		4/23/2015		5/21/2015		6/17/2015		7/14/2015	
1,1,1-Trichloroethane	<0.11	<0.11	<2.0	<0.84	<1.7	<0.86	<2.8	<0.86	<3.9	<1.5	<14	<3.6
1,1-Dichloroethene	<0.27	<0.27	<2.0	<0.84	<1.7	<0.86	<2.8	<0.86	<3.9	<1.5	<14	<3.6
1,2,4-Trimethylbenzene	<0.038	<0.038	<2.0	<0.84	<1.7	<0.86	<2.8	<0.86	<3.9	<1.5	<14	<3.6
1,2-Dichloroethane	<0.089	<0.089	<2.0	<0.84	<1.7	<0.86	<2.8	<0.86	<3.9	<1.5	<14	<3.6
1,3,5-Trimethylbenzene	<0.091	<0.091	<2.0	<0.84	<1.7	<0.86	<2.8	<0.86	<3.9	<1.5	<14	<3.6
1,4-Dichlorobenzene	<0.13	<0.13	<2.0	<0.84	<1.7	<0.86	<2.8	<0.86	<3.9	<1.5	<14	<3.6
Benzene	<0.15	<0.15	<2.0	<0.84	<1.7	<0.86	<2.8	<0.86	<3.9	<1.5	<14	<3.6
Chloroethane	<0.63	<0.63	<8.0	<3.4	<6.7	<3.4	<11	<3.4	<16	<6.1	<56	<14
Chloroform	<0.16	<0.16	<2.0	<0.84	<1.7	<0.86	<2.8	<0.86	<3.9	<1.5	<14	<3.6
Chloromethane	<0.79 J	<0.79 J	<20	<8.4	<17	<8.6	<28	<8.6	<39	<15	<56	<36
cis-1,2-Dichloroethene	160	54	260	73	81	160	120	260	140	570	1,900	220
Dichlorodifluoromethane	<0.18	<0.18	<2.0	<0.84	<1.7	<0.86	<2.8	<0.86	<3.9	<1.5	<14	<3.6
Ethylbenzene	<0.75	<0.75	<2.0	<0.84	<1.7	<0.86	<2.8	<0.86	<3.9	<1.5	<14	<3.6
Methylene Chloride	<0.16	<0.16	<20	<8.4	<17	<8.6	<28	<8.6	<39	<15	<14	<36
Styrene	<0.068	<0.068	<2.0	<0.84	<1.7	<0.86	<2.8	<0.86	<3.9	<1.5	<14	<3.6
Tetrachloroethene	180	<0.099	410	5.2	350	15	560	5.2	890	12	7,400	800
Toluene	0.76	0.96	<2.0	0.86	<1.7	1.4	6.2	<0.86	<3.9	2.0	<14	<3.6
Trichlorofluoromethane	<0.20	<0.20	<2.0	<0.84	<1.7	<0.86	<2.8	<0.86	<3.9	<1.5	<14	<3.6
Trichloroethene	40	0.82	120	<0.84	47	8.6	73	9.1	140	16	880	130
Vinyl chloride	<0.18	<0.18	<2.0	<0.84	<1.7	<0.86	<2.8	<0.86	<3.9	<1.5	31	3.8
Xylene (total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	1.2	0.95	<2.0	<0.84	<1.7	<0.86	<2.8	<0.86	<3.9	1.7	<14	<3.6
Xylene, o-	<0.16	<0.16	<2.0	<0.84	<1.7	<0.86	<2.8	<0.86	<3.9	<1.5	<14	<3.6

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**Table 1
System Air Effluent Analytical Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Sample Location Sample Date	Combined System		Combined System		Combined System		Combined System		Combined System		Combined System	
	Influent	Effluent	Composite	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
	7/15/2015		7/16/2015		7/24/2015		7/30/2015		8/5/2015		8/13/2015	
1,1,1-Trichloroethane	<34	<2.8	<14	<0.70	<11	<0.69	<19	<0.74	<9.5	<0.82	<7.6	<0.80
1,1-Dichloroethene	<34	<2.8	<14	<0.70	<11	<0.69	<19	<0.74	<9.5	<0.82	<7.6	<0.80
1,2,4-Trimethylbenzene	<34	<2.8	<14	<0.70	<11	<0.69	<19	<0.74	<9.5	<0.82	9.3	<0.80
1,2-Dichloroethane	<34	<2.8	<14	<0.70	<11	<0.69	<19	<0.74	<9.5	<0.82	<7.6	<0.80
1,3,5-Trimethylbenzene	<34	<2.8	<14	<0.70	<11	<0.69	<19	<0.74	<9.5	<0.82	<7.6	<0.80
1,4-Dichlorobenzene	<34	<2.8	<14	<0.70	<11	<0.69	<19	<0.74	<9.5	<0.82	<7.6	<0.80
Benzene	<34	2.9	<14	1.5	<11	0.69	<19	1.9	<9.5	0.95	<7.6	1.9
Chloroethane	<140	<11	<55	<2.8	<45	<2.8	<74	<3.0	<38	<3.3	<31	<3.2
Chloroform	<34	<2.8	<14	<0.70	<11	<0.69	<19	<0.74	<9.5	<0.82	<7.6	<0.80
Chloromethane	<340	<28	<55	<7.0 J	<45	<6.9	<190	<7.4	<38	<8.2	<31	<8.0
cis-1,2-Dichloroethene	1,900	260	2,200	36	2,300	20	1,500	30	2,700	30	970	13
Dichlorodifluoromethane	<34	<2.8	<14	<0.70	<11	0.84	<19	<0.74	<9.5	<0.82	<7.6	<0.80
Ethylbenzene	<34	<2.8	<14	<0.70	<11	<0.69	<19	<0.74	<9.5	<0.82	<7.6	<0.80
Methylene Chloride	<340	<28	<14	<7.0	<11	<6.9	<190	<7.4	<9.5	<8.2	<7.6	<8.0
Styrene	<34	<2.8	<14	<0.70	<11	<0.69	<19	<0.74	<9.5	<0.82	<7.6	<0.80
Tetrachloroethene	6,500	960	7,500	130	6,100	59	5,000	74	7,500	100	6,200	100
Toluene	120	<2.8	<14	<0.70	<11	1.8	<19	<0.74	18	<0.82	<7.6	0.88
Trichlorofluoromethane	<34	<2.8	<14	<0.70	<11	<0.69	<19	<0.74	<9.5	<0.82	<7.6	<0.80
Trichloroethene	1,100	150	1,000	19	880	10	820	14	1,000	15	450	7.9
Vinyl chloride	<34	<2.8	25	<0.70	21	4.6	28	18	23	25	<7.6	17
Xylene (total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	<34	<2.8	<14	<0.70	<11	<0.69	<19	<0.74	<9.5	<0.82	<7.6	<0.80
Xylene, o-	<34	<2.8	<14	<0.70	<11	<0.69	<19	<0.74	<9.5	<0.82	<7.6	<0.80

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Table 1
System Air Effluent Analytical Data

Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin

General Notes:

Only detected constituents are noted. Constituent concentrations are reported as ppbv.

Between March 9 and October 16, 2012, the system operated with the dilution air valve 50% open to maintain system operation within maximum range of blower vacuum. On October 16, 2012, the blower was replaced and modified to allow more efficient system performance and operation with the dilution air valve fully closed.

Influent sampling began on 3/16/2012 to evaluate the effectiveness of carbon treatment.

System sampling occurred daily for the first 3 days of startup, weekly for the next 3 weeks, and monthly thereafter.

Interim system was shut down 4/29/2013. The permanent SVE system was started 5/13/2013.

The combined SVE and GETS system started operating 7/14/2015.

Acronyms and Abbreviations:

< = Constituent not detected above noted laboratory detection limit.

-- = Not monitored or sampled.

B = Compound was found in the blank and sample.

Bold = Constituent detected above laboratory detection limit.

GETS = Groundwater extraction and treatment system

J = Constituent concentration is an approximate value.

ppbv = Parts per billion by volume.

SVE = Soil vapor extraction.

**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-1	03/09/12	-88.4	20	109.7 ¹
SVE-1	03/09/12	-74.8	30	47.4 ²
SVE-1	03/10/12	-81.6	30	27.3
SVE-1	03/11/12	-81.6	30	25.1
SVE-1	03/16/12	-74.8	20	15.9
SVE-1	03/23/12	-81.6	25	--
SVE-1	03/23/12	-81.6	25	13.5
SVE-1 ³	03/29/12	-40.8	20	--
SVE-1 ⁴	03/29/12	-54.4	30	--
SVE-1	03/30/12	-68.0	25	14.8
SVE-1	04/11/12	-68.0	25	14.1
SVE-1	04/16/12	-68.0	25	--
SVE-1	04/23/12	-68.0	100	--
SVE-1	04/30/12	-68.0	30	--
SVE-1	05/07/12	-68.0	10	--
SVE-1	05/09/12	-68.0	30	4.3
SVE-1	05/14/12	-68.0	30	--
SVE-1	05/21/12	-68.0	10	--
SVE-1	05/30/12	-54.4	20	--
SVE-1	06/04/12	-68.0	30	--
SVE-1	06/11/12	-68.0	30	--
SVE-1	06/12/12	-61.2	28	6
SVE-1	06/14/12	-47.6	22	--
SVE-1	06/18/12	-27.2	20	--
SVE-1	06/25/12	-27.2	10	--
SVE-1	07/02/12	-27.2	20	--
SVE-1	07/09/12	-27.2	20	--
SVE-1	07/10/12	-27.2	18	12.6
SVE-1	07/16/12	-27.2	20	--
SVE-1	07/23/12	-27.2	20	--
SVE-1	07/30/12	-27.2	20	--
SVE-1	08/06/12	-27.2	20	--
SVE-1	08/14/12	-27.2	19	34.69
SVE-1	08/20/12	-27.2	20	--
SVE-1	08/27/12	-27.2	20	--
SVE-1	09/04/12	-13.6	20	--
SVE-1	09/10/12	-27.2	20	--
SVE-1	09/12/12	-27.2	12	1.02
SVE-1	09/17/12	-27.2	20	--
SVE-1	09/24/12	-27.2	20	--
SVE-1	10/01/12	-27.2	20	--
SVE-1	10/08/12	-27.2	20	--
SVE-1	10/16/12	-51.0	30	0
SVE-1	10/22/12	-54.4	30	--
SVE-1	10/29/12	-54.4	30	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-1	11/05/12	-54.4	30	--
SVE-1	11/12/12	-54.4	25	--
SVE-1	11/14/12	-54.4	30	0
SVE-1	11/19/12	-54.4	20	--
SVE-1	11/26/12	-54.4	20	--
SVE-1	12/03/12	-54.4	40	--
SVE-1	12/10/12	-54.4	20	--
SVE-1	12/14/12	-47.6	40	--
SVE-1	12/17/12	-47.6	40	--
SVE-1	12/18/12	-47.6	35	0.2
SVE-1	01/02/13	--	60	--
SVE-1	01/07/13	--	--	--
SVE-1	01/16/13	-136.0	0	NM
SVE-1	01/21/13	-88.4	30	--
SVE-1	01/28/13	-74.8	40	--
SVE-1	02/04/13	-34.0	50	--
SVE-1	02/11/13	-40.8	20	--
SVE-1	02/15/13	-68.0	--	9.7
SVE-1	02/18/13	-115.6	20	--
SVE-1	02/22/13	-81.6	20	--
SVE-1	02/24/13	-68.0	20	--
SVE-1	03/04/13	-95.2	15	--
SVE-1	03/13/13	-81.6	<20	12.1
SVE-1	03/18/13	-68.0	20	--
SVE-1	03/25/13	-68.0	20	--
SVE-1	04/01/13	-81.6	20	--
SVE-1	04/02/13	-68.0	10	--
SVE-1	04/04/13	-68.0	10	--
SVE-1	04/09/13	-81.6	16	--
SVE-1	04/15/13	-81.6	10	--
SVE-1	04/16/13	-95.2	10	--
SVE-1	04/18/13	-108.8	10	--
SVE-1	04/19/13	-108.8	7	--
SVE-1	04/21/13	-68.0	8	--
SVE-1	04/22/13	-68.0	8	1.3
SVE-1	05/14/13	-78.0	19	11.4
SVE-1	05/20/13	-90.0	13	--
SVE-1	05/28/13	-98.0	19	--
SVE-1	05/30/13	-100.0	19	--
SVE-1	06/04/13	-90.0	19	--
SVE-1	06/10/13	-80.0	19	--
SVE-1	06/12/13	-80.0	19	1.3
SVE-1	06/17/13	-94.0	23	--
SVE-1	06/18/13	-90.0	23	--
SVE-1	06/24/13	-98.0	23	--
SVE-1	07/01/13	-90.0	23	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-1	07/11/13	-68.0	19	2.8
SVE-1	07/15/13	-68.0	26	--
SVE-1	07/22/13	-68.0	13	--
SVE-1	07/30/13	-54.4	23	--
SVE-1	08/06/13	-54.4	--	--
SVE-1	08/12/13	-54.4	23	--
SVE-1	08/13/13	-54.4	13	0.5
SVE-1	08/19/13	-40.8	19	--
SVE-1	08/22/13	-40.8	13	--
SVE-1	08/26/13	-47.6	26	--
SVE-1	09/03/13	-34.0	23	--
SVE-1	09/10/13	-40.8	18	1.4
SVE-1	09/16/13	-40.8	23	--
SVE-1	09/23/13	-54.4	23	--
SVE-1	09/30/13	-54.4	23	--
SVE-1	10/15/13	-40.8	13	1.6
SVE-1	10/28/13	-40.8	19	--
SVE-1	11/04/13	-54.4	19	--
SVE-1	11/06/13	-54.4	13	2
SVE-1	12/02/13	-40.8	23	--
SVE-1	12/09/13	-54.4	27	--
SVE-1	12/11/13	-54.4	19	0.5
SVE-1	12/16/13	-54.4	19	--
SVE-1	12/23/13	-61.2	33	--
SVE-1	12/30/13	-61.2	24	--
SVE-1	01/06/14	-48	24	--
SVE-1	01/13/14	-68	19	--
SVE-1	01/16/14	-68	19	0.4
SVE-1	01/20/14	-68	19	--
SVE-1	01/26/14	-82	24	--
SVE-1	02/10/14	-136	19	--
SVE-1	02/12/14	-136	0	0
SVE-1	02/18/14	-122	19	--
SVE-1	02/24/14	-136	27	--
SVE-1	02/25/14	-136	0	--
SVE-1	02/25/14	-136	0	--
SVE-1	02/25/14	-136	0	--
SVE-1	02/27/14	-136	0	--
SVE-1	02/27/14	-82	0	--
SVE-1	03/03/14	-81.6	23.3	--
SVE-1	03/10/14	-88.4	0	0.6
SVE-1	03/11/14	-81.6	23.2	--
SVE-1	03/17/14	-81.6	23.2	--
SVE-1	04/14/14	-95.2	23.2	--
SVE-1	04/22/14	-68	34.7	--
SVE-1	04/29/14	-68	34.7	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-1	05/05/14	-68	45.9	--
SVE-1	05/12/14	-68	45.4	--
SVE-1	05/13/14	-68	11.4	0
SVE-1	05/14/14	-68	45.8	--
SVE-1	05/27/14	-54.4	34.1	--
SVE-1	06/02/14	-68	45.2	--
SVE-1	06/11/14	-62.5	124.9	0
SVE-1	06/16/14	-54.4	34	--
SVE-1	06/23/14	-54.4	22.6	--
SVE-1	07/07/14	-47.6	33.9	--
SVE-1	07/16/14	-54.4	15.9	0
SVE-1	07/21/14	-54.4	45.2	--
SVE-1	07/25/14	-61.2	34	--
SVE-1	08/04/14	-54.4	45.4	--
SVE-1	08/11/14	-61.2	44.5	--
SVE-1	08/13/14	-66.6	67.8	2.6
SVE-1	08/18/14	-68	45	--
SVE-1	08/29/14	-68	45.3	--
SVE-1	09/08/14	-54.4	44.9	--
SVE-1	09/15/14	-68	45.5	--
SVE-1	09/17/14	-68	22.7	0.4
SVE-1	10/01/14	-54.4	11.4	--
SVE-1	10/10/14	-68	11.4	--
SVE-1	10/15/14	-68	34.2	45.9
SVE-1	11/04/14	-54.4	34.4	--
SVE-1	11/12/14	-68	34.6	0.1
SVE-1	11/21/14	-61.2	34.7	--
SVE-1	11/24/14	-68	34.7	--
SVE-1	12/03/14	-68	34.7	--
SVE-1	12/16/14	-68	23.2	0.1
SVE-1	01/15/15	-61.2	23.3	--
SVE-1	01/22/15	-61.2	34.9	0
SVE-1	01/30/15	-61.2	23.3	--
SVE-1	02/05/15	-61.2	35.1	--
SVE-1	02/13/15	-54.4	23.3	--
SVE-1	02/20/15	-88.4	0	--
SVE-1	03/06/15	-102.0	35	--
SVE-1	03/12/15	-68.0	11	--
SVE-1	03/13/15	-68.0	11	--
SVE-1	03/18/15	-95.2	12	0.0
SVE-1	03/27/15	-68.0	23	--
SVE-1	03/27/15	-68.0	35	--
SVE-1	04/02/15	-61.2	23	--
SVE-1	04/06/15	-54.4	23	--
SVE-1	04/15/15	-68.0	23	--
SVE-1	04/23/15	-68.0	23	0.3

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-1	04/30/15	-68.0	23	--
SVE-1	05/07/15	-68.0	67	--
SVE-1	05/14/15	-68.0	22	--
SVE-1	05/21/15	-68.0	22	0.5
SVE-1	05/29/15	-81.6	23	--
SVE-1	06/05/15	-68.0	34	--
SVE-1	06/10/15	-68.0	22	--
SVE-1	06/17/15	-81.6	22	1.6
SVE-1	07/10/15	-81.6	34	--
SVE-1	07/15/15	-68.0	22	--
SVE-1	07/24/15	-68.0	22	0.2
SVE-1	07/30/15	-68.0	22	--
SVE-1	08/07/15	-68.0	22	--
SVE-1	08/13/15	-61.2	22	--
SVE-1	08/21/15	-68.0	22	--
SVE-1	08/28/15	-68.0	22	--
SVE-2	03/09/12	-40.8	40	105.8 ¹
SVE-2	03/09/12	-54.4	60	11.5 ²
SVE-2	03/10/12	-47.6	55	10.3
SVE-2	03/11/12	-47.6	50	8.2
SVE-2	03/16/12	-47.6	50	5.3
SVE-2	03/23/12	-44.2	40	--
SVE-2	03/23/12	-44.2	40	6.1
SVE-2 ³	03/29/12	-20.4	25	--
SVE-2 ⁴	03/29/12	-34.0	37	--
SVE-2	03/30/12	-40.8	40	6.9
SVE-2	04/11/12	-34.0	35	6.3
SVE-2	04/16/12	-34.0	40	--
SVE-2	04/23/12	-34.0	120	--
SVE-2	04/30/12	-40.8	40	--
SVE-2	05/07/12	-34.0	30	--
SVE-2	05/09/12	-40.8	35	2.6
SVE-2	05/14/12	-40.8	50	--
SVE-2	05/21/12	-34.0	45	--
SVE-2	05/30/12	-34.0	40	--
SVE-2	06/04/12	-40.8	45	--
SVE-2	06/11/12	-34.0	45	--
SVE-2	06/12/12	-34.0	40	6.6
SVE-2	06/14/12	-47.6	25	--
SVE-2	06/18/12	-13.6	20	--
SVE-2	06/25/12	-13.6	20	--
SVE-2	07/02/12	NM ⁵	20	--
SVE-2	07/09/12	-13.6	20	--
SVE-2	07/10/12	-13.6	20	8.8
SVE-2	07/16/12	NM ⁵	10	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-2	07/23/12	NM ⁵	20	--
SVE-2	07/30/12	-13.6	10	--
SVE-2	08/06/12	NM ⁵	20	--
SVE-2	08/14/12	-8.4	19	32.36
SVE-2	08/20/12	-8.0	20	--
SVE-2	08/27/12	-7.0	20	--
SVE-2	09/04/12	-6.0	20	--
SVE-2	09/10/12	-6.0	20	--
SVE-2	09/12/12	-6.5	20	22.26
SVE-2	09/17/12	-5.5	20	--
SVE-2	09/24/12	-9.0	20	--
SVE-2	10/01/12	-8.0	20	--
SVE-2	10/08/12	-9.0	20	--
SVE-2	10/16/12	>-15.0 ⁷	50	1.6
SVE-2	10/22/12	NM ⁵	50	--
SVE-2	10/29/12	NM ⁵	50	--
SVE-2	11/05/12	NM ⁵	50	--
SVE-2	11/12/12	NM ⁵	45	--
SVE-2	11/14/12	NM ⁵	55	1.2
SVE-2	11/19/12	NM ⁵	60	--
SVE-2	11/26/12	NM ⁵	50	--
SVE-2	12/03/12	NM ⁵	50	--
SVE-2	12/10/12	NM ⁵	60	--
SVE-2	12/14/12	NM ⁵	50	--
SVE-2	12/17/12	NM ⁵	50	--
SVE-2	12/18/12	NM ⁵	50	2.7
SVE-2	01/02/13	--	60	--
SVE-2	01/07/13	NM ⁵	55	--
SVE-2	01/16/13	NM ⁵	60	0.3
SVE-2	01/21/13	-81.6	20	--
SVE-2	01/28/13	-95.2	20	--
SVE-2	02/04/13	-34.0	50	--
SVE-2	02/11/13	NM ⁵	15	--
SVE-2	02/15/13	-27.2	40	12
SVE-2	02/18/13	-27.2	35	--
SVE-2	02/22/13	-54.4	35	--
SVE-2	02/24/13	-40.8	70	--
SVE-2	03/04/13	-34.0	30	--
SVE-2	03/13/13	-40.8	45	10.6
SVE-2	03/18/13	-40.8	48	--
SVE-2	03/25/13	-40.8	35	--
SVE-2	04/01/13	-40.8	50	--
SVE-2	04/02/13	-40.8	20	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-2	04/04/13	-27.2	20	--
SVE-2	04/09/13	-54.4	20	--
SVE-2	04/15/13	-40.8	20	--
SVE-2	04/16/13	-40.8	20	--
SVE-2	04/18/13	-68.0	15	--
SVE-2	04/19/13	-68.0	18	--
SVE-2	04/21/13	-40.8	15	--
SVE-2	04/22/13	-40.8	15	2.2
SVE-2	05/14/13	-80.0	46	13.2
SVE-2	05/20/13	-90.0	48	--
SVE-2	05/28/13	-98.0	46	--
SVE-2	05/30/13	-100.0	46	--
SVE-2	06/04/13	-90.0	44	--
SVE-2	06/10/13	-80.0	46	--
SVE-2	06/12/13	-84.0	48	1.2
SVE-2	06/17/13	-84.0	30	--
SVE-2	06/18/13	-84.0	32	--
SVE-2	06/24/13	-95.0	26	--
SVE-2	07/01/13	-100.0	23	--
SVE-2	07/11/13	-61.2	37	12.7
SVE-2	07/15/13	-54.4	39	--
SVE-2	07/22/13	-54.4	29	--
SVE-2	07/30/13	-40.8	29	--
SVE-2	08/06/13	-47.6	--	--
SVE-2	08/12/13	-47.6	29	--
SVE-2	08/13/13	-40.8	29	0.5
SVE-2	08/19/13	-34.0	30	--
SVE-2	08/22/13	-34.0	29	--
SVE-2	08/26/13	-40.8	32	--
SVE-2	09/03/13	-34.0	30	--
SVE-2	09/10/13	-20.4	29	0.9
SVE-2	09/16/13	-40.8	29	--
SVE-2	09/23/13	-34.0	29	--
SVE-2	09/30/13	-40.8	30	--
SVE-2	10/15/13	-34.0	30	1.2
SVE-2	10/28/13	-40.8	30	--
SVE-2	11/04/13	-40.8	30	--
SVE-2	11/06/13	-40.8	32	0.4
SVE-2	12/02/13	-40.8	30	--
SVE-2	12/09/13	-40.8	33	--
SVE-2	12/11/13	-40.8	31	0.2
SVE-2	12/16/13	-40.8	31	--
SVE-2	12/23/13	-40.8	31	--
SVE-2	12/30/13	-47.6	31	--

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Table 2
Extraction Well Manifold Monitoring Data

Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-2	01/06/14	-41	30	--
SVE-2	01/13/14	-54	33	--
SVE-2	01/16/14	-61	36	0.4
SVE-2	01/20/14	-54	33	--
SVE-2	01/26/14	-68	36	--
SVE-2	02/10/14	-95	49	--
SVE-2	02/12/14	-109	51	0
SVE-2	02/18/14	-109	52	--
SVE-2	02/24/14	-136	61	--
SVE-2	02/25/14	-136	59	--
SVE-2	02/25/14	-136	58	--
SVE-2	02/25/14	-136	58	--
SVE-2	02/27/14	-122	56	--
SVE-2	02/27/14	-82	43	--
SVE-2	03/03/14	-81.6	128	--
SVE-2	03/10/14	-88.4	115.8	1.6
SVE-2	03/11/14	-81.6	115.8	--
SVE-2	03/17/14	-81.6	127.9	--
SVE-2	04/14/14	-95.2	104.2	--
SVE-2	04/22/14	-54.4	46.2	--
SVE-2	04/29/14	-68	57.8	--
SVE-2	05/05/14	-54.4	57.4	--
SVE-2	05/12/14	-54.4	56.8	--
SVE-2	05/13/14	-68	114.1	0.2
SVE-2	05/14/14	-68	114.6	--
SVE-2	05/27/14	-68	56.8	--
SVE-2	06/02/14	-68	56.5	--
SVE-2	06/11/14	-39.4	45.4	0
SVE-2	06/16/14	-54.4	56.6	--
SVE-2	06/23/14	-68	56.5	--
SVE-2	07/07/14	-54.4	56.4	--
SVE-2	07/16/14	-54.4	68.1	0.2
SVE-2	07/21/14	-54.4	56.5	--
SVE-2	07/25/14	-61.2	56.6	--
SVE-2	08/04/14	-68	56.8	--
SVE-2	08/11/14	-68	55.6	--
SVE-2	08/13/14	-58.5	67.8	3.3
SVE-2	08/18/14	-68	67.5	--
SVE-2	08/29/14	-68	113.3	--
SVE-2	09/08/14	-68	89.8	--
SVE-2	09/15/14	-54.4	79.6	--
SVE-2	09/17/14	-54.4	90.8	0
SVE-2	10/01/14	-54.4	68.1	--
SVE-2	10/10/14	-54.4	79.5	--
SVE-2	10/15/14	-68	68.4	19.4
SVE-2	11/04/14	-54.4	68.8	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-2	11/12/14	-54.4	80.6	0
SVE-2	11/21/14	-54.4	69.5	--
SVE-2	11/24/14	-54.4	69.5	--
SVE-2	12/03/14	-61.2	81	--
SVE-2	12/16/14	-54.4	81	0.2
SVE-2	01/15/15	-54.4	81.4	--
SVE-2	01/22/15	-54.4	81.4	1.4
SVE-2	01/30/15	-54.4	81.4	--
SVE-2	02/05/15	-54.4	70.2	--
SVE-2	02/13/15	-54.4	69.8	--
SVE-2	02/20/15	-81.6	116.9	44
SVE-2	03/06/15	-95.2	140	--
SVE-2	03/12/15	-68.0	23	--
SVE-2	03/13/15	-68.0	34	--
SVE-2	03/18/15	-95.2	23	0.8
SVE-2	03/27/15	-61.2	117	--
SVE-2	03/27/15	-54.4	58	--
SVE-2	04/02/15	-54.4	57	--
SVE-2	04/06/15	-54.4	57	--
SVE-2	04/15/15	-61.2	92	--
SVE-2	04/23/15	-68.0	81	0.0
SVE-2	04/30/15	-54.4	80	--
SVE-2	05/07/15	-68.0	78	--
SVE-2	05/14/15	-61.2	79	--
SVE-2	05/21/15	-54.4	79	0.2
SVE-2	05/29/15	-81.6	79	--
SVE-2	06/05/15	-61.2	67	--
SVE-2	06/10/15	-68.0	44	--
SVE-2	06/17/15	-74.8	56	5.1
SVE-2	07/10/15	-68.0	79	--
SVE-2	07/15/15	-61.2	78	--
SVE-2	07/24/15	-66.6	74	3.0
SVE-2	07/30/15	-61.2	78	--
SVE-2	08/07/15	-54.4	45	--
SVE-2	08/13/15	-54.4	45	--
SVE-2	08/21/15	-54.4	67	--
SVE-2	08/28/15	-61.2	45	--
SVE-3	03/09/12	-30.6	60	85.3 ¹
SVE-3	03/09/12	-40.8	85	5.92 ²
SVE-3	03/09/12	0.0	0	--
SVE-3	03/10/12	-34.0	80	6.1
SVE-3	03/11/12	-34.0	75	4.5
SVE-3	03/16/12	-34.0	60	1.6
SVE-3	03/23/12	-40.8	60	--
SVE-3	03/23/12	-40.8	60	4.4

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-3 ³	03/29/12	-27.2	30	--
SVE-3 ⁴	03/29/12	-34.0	50	--
SVE-3	03/30/12	-54.4	50	6.1
SVE-3	04/11/12	-40.8	50	4.9
SVE-3	04/16/12	-34.0	50	--
SVE-3	04/23/12	-34.0	140	--
SVE-3	04/30/12	-35.3	50	--
SVE-3	05/07/12	-40.8	50	--
SVE-3	05/09/12	-40.8	40	5.9
SVE-3	05/14/12	-40.8	50	--
SVE-3	05/21/12	-40.8	50	--
SVE-3	05/30/12	-47.6	50	--
SVE-3	06/04/12	-40.8	50	--
SVE-3	06/11/12	-34.0	50	--
SVE-3	06/12/12	-30.6	50	9.3
SVE-3	06/14/12	-27.2	40	--
SVE-3	06/18/12	-13.6	20	--
SVE-3	06/25/12	-13.6	25	--
SVE-3	07/02/12	-13.6	20	--
SVE-3	07/09/12	-13.6	20	--
SVE-3	07/10/12	-13.6	21	7.6
SVE-3	07/16/12	-13.6	20	--
SVE-3	07/23/12	NM ⁵	20	--
SVE-3	07/30/12	-13.6	20	--
SVE-3	08/06/12	NM ⁵	25	--
SVE-3	08/14/12	-9.8	21	33.73
SVE-3	08/20/12	-10.5	30	--
SVE-3	08/27/12	-9.0	20	--
SVE-3	09/04/12	-8.0	20	--
SVE-3	09/10/12	-9.0	20	--
SVE-3	09/12/12	-7.0	20	0.88
SVE-3	09/17/12	-6.5	20	--
SVE-3	09/24/12	-15.0	20	--
SVE-3	10/01/12	-7.0	20	--
SVE-3	10/08/12	>-15.0 ⁷	20	--
SVE-3	10/16/12	>-15.0 ⁷	55	0.2
SVE-3	10/22/12	NM ⁵	50	--
SVE-3	10/29/12	NM ⁵	55	--
SVE-3	11/05/12	NM ⁵	50	--
SVE-3	11/12/12	NM ⁵	50	--
SVE-3	11/14/12	NM ⁵	50	0.5
SVE-3	11/19/12	NM ⁵	50	--
SVE-3	11/26/12	NM ⁵	50	--
SVE-3	12/03/12	NM ⁵	40	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-3	12/10/12	NM ⁵	50	--
SVE-3	12/14/12	NM ⁵	40	--
SVE-3	12/17/12	NM ⁵	45	--
SVE-3	12/18/12	NM ⁵	40	2.8
SVE-3	01/02/13	--	70	--
SVE-3	01/07/13	NM ⁵	60	--
SVE-3	01/16/13	-54.4	40	0
SVE-3	01/21/13	-81.6	30	--
SVE-3	01/28/13	-149.5	10	--
SVE-3	02/04/13	-136.0	10	--
SVE-3	02/11/13	-40.8	20	--
SVE-3	02/15/13	-40.8	30	15.6
SVE-3	02/18/13	-34.0	30	--
SVE-3	02/22/13	-54.4	30	--
SVE-3	02/24/13	-68.0	50	--
SVE-3	03/04/13	-40.8	35	--
SVE-3	03/13/13	-54.4	40	14.5
SVE-3	03/18/13	-47.6	35	--
SVE-3	03/25/13	-40.8	30	--
SVE-3	04/01/13	-40.8	40	--
SVE-3	04/02/13	-40.8	20	--
SVE-3	04/04/13	-40.8	15	--
SVE-3	04/09/13	-95.2	10	--
SVE-3	04/15/13	-68.0	10	--
SVE-3	04/16/13	-68.0	10	--
SVE-3	04/18/13	-108.8	8	--
SVE-3	04/19/13	-68.0	7	--
SVE-3	04/21/13	-54.4	10	--
SVE-3	04/22/13	-54.4	9	1.7
SVE-3	05/14/13	-80.0	23	11.6
SVE-3	05/20/13	-90.0	23	--
SVE-3	05/28/13	-98.0	13	--
SVE-3	05/30/13	-98.0	19	--
SVE-3	06/04/13	-80.0	23	--
SVE-3	06/10/13	-70.0	23	--
SVE-3	06/12/13	-84.0	23	1.9
SVE-3	06/17/13	-98.0	26	--
SVE-3	06/18/13	-90.0	23	--
SVE-3	06/24/13	-98.0	26	--
SVE-3	07/01/13	-98.0	19	--
SVE-3	07/11/13	-68.0	23	21.9
SVE-3	07/15/13	-68.0	26	--
SVE-3	07/22/13	-68.0	37	--
SVE-3	07/30/13	-54.4	39	--
SVE-3	08/06/13	-54.4	--	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-3	08/12/13	-54.4	45	--
SVE-3	08/13/13	-54.4	44	1.7
SVE-3	08/19/13	-34.0	43	--
SVE-3	08/22/13	-40.8	43	--
SVE-3	08/26/13	-40.8	45	--
SVE-3	09/03/13	-34.0	42	--
SVE-3	09/10/13	-27.2	41	4
SVE-3	09/16/13	-54.4	45	--
SVE-3	09/23/13	-40.8	49	--
SVE-3	09/30/13	-54.4	51	--
SVE-3	10/15/13	-40.8	48	7.8
SVE-3	10/28/13	-34.0	52	--
SVE-3	11/04/13	-40.8	52	--
SVE-3	11/06/13	-54.4	54	1
SVE-3	12/02/13	-40.8	52	--
SVE-3	12/09/13	-54.4	56	--
SVE-3	12/11/13	-54.4	58	1
SVE-3	12/16/13	-54.4	56	--
SVE-3	12/23/13	-54.4	56	--
SVE-3	12/30/13	-54.4	61	--
SVE-3	01/06/14	-48	61	--
SVE-3	01/13/14	-68	68	--
SVE-3	01/16/14	-68	66	1.2
SVE-3	01/20/14	-68	60	--
SVE-3	01/26/14	-82	36	--
SVE-3	02/10/14	-136	31	--
SVE-3	02/12/14	-136	31	0
SVE-3	02/18/14	-136	30	--
SVE-3	02/24/14	-136	33	--
SVE-3	02/25/14	-143	36	--
SVE-3	02/25/14	-143	36	--
SVE-3	02/25/14	-143	36	--
SVE-3	02/27/14	-136	33	--
SVE-3	02/27/14	-82	33	--
SVE-3	03/03/14	-81.6	58.2	--
SVE-3	03/10/14	-95.2	34.7	1
SVE-3	03/11/14	-81.6	57.9	--
SVE-3	03/17/14	-81.6	58.1	--
SVE-3	04/14/14	-95.2	57.9	--
SVE-3	04/22/14	-54.4	46.2	--
SVE-3	04/29/14	-68	57.8	--
SVE-3	05/05/14	-54.4	57.4	--
SVE-3	05/12/14	-54.4	56.8	--
SVE-3	05/13/14	-68	45.6	0.3
SVE-3	05/14/14	-68	57.3	--
SVE-3	05/27/14	-68	56.8	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-3	06/02/14	-68	56.5	--
SVE-3	06/11/14	-39.4	34.1	3.2
SVE-3	06/16/14	-54.4	56.6	--
SVE-3	06/23/14	-68	56.5	--
SVE-3	07/07/14	-54.4	56.4	--
SVE-3	07/16/14	-54.4	45.4	5
SVE-3	07/21/14	-54.4	56.5	--
SVE-3	07/25/14	-61.2	113.3	--
SVE-3	08/04/14	-68	102.2	--
SVE-3	08/11/14	-68	66.7	--
SVE-3	08/13/14	-68	56.5	4.6
SVE-3	08/18/14	-68	67.5	--
SVE-3	08/29/14	-68	68	--
SVE-3	09/08/14	-68	67.3	--
SVE-3	09/15/14	-54.4	68.2	--
SVE-3	09/17/14	-61.2	56.8	4.4
SVE-3	10/01/14	-54.4	113.5	--
SVE-3	10/10/14	-61.2	90.8	--
SVE-3	10/15/14	-68	45.6	20.3
SVE-3	11/04/14	-54.4	68.8	--
SVE-3	11/12/14	-68	92.2	0.1
SVE-3	11/21/14	-54.4	92.6	--
SVE-3	11/24/14	-61.2	69.5	--
SVE-3	12/03/14	-68	69.5	--
SVE-3	12/16/14	-68	69.5	0.3
SVE-3	01/15/15	-61.2	58.2	--
SVE-3	01/22/15	-61.2	69.8	1.4
SVE-3	01/30/15	-68	69.8	--
SVE-3	02/05/15	-54.4	81.9	--
SVE-3	02/13/15	-61.2	81.4	--
SVE-3	02/20/15	-95.2	58.5	27
SVE-3	03/06/15	-108.8	12	--
SVE-3	03/12/15	-81.6	23	--
SVE-3	03/13/15	-81.6	23	--
SVE-3	03/18/15	-108.8	23	1.7
SVE-3	03/27/15	-68.0	58	--
SVE-3	03/27/15	-61.2	47	--
SVE-3	04/02/15	-61.2	46	--
SVE-3	04/06/15	-54.4	46	--
SVE-3	04/15/15	-68.0	34	--
SVE-3	04/23/15	-68.0	35	1.1
SVE-3	04/30/15	-68.0	46	--
SVE-3	05/07/15	-68.0	45	--
SVE-3	05/14/15	-68.0	56	--
SVE-3	05/21/15	-68.0	56	2.3
SVE-3	05/29/15	-81.6	57	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-3	06/05/15	-68.0	67	--
SVE-3	06/10/15	-68.0	67	--
SVE-3	06/17/15	-81.6	34	4.6
SVE-3	07/10/15	-68.0	45	--
SVE-3	07/15/15	-68.0	45	--
SVE-3	07/24/15	-68.0	49	1.9
SVE-3	07/30/15	-68.0	33	--
SVE-3	08/07/15	-61.2	67	--
SVE-3	08/13/15	-54.4	67	--
SVE-3	08/21/15	-68.0	45	--
SVE-3	08/28/15	-68.0	56	--
SVE-4	03/09/12	-88.4	33	105.1 ¹
SVE-4	03/09/12	-88.4	32	5.1 ²
SVE-4	03/09/12	-7.1	0	--
SVE-4	03/09/12	-1.5	0	--
SVE-4	03/10/12	-88.4	30	2.1
SVE-4	03/11/12	-88.4	28	5.2
SVE-4	03/16/12	-95.2	28	3.1
SVE-4	03/23/12	-108.8	27	--
SVE-4	03/23/12	-95.2	27	9.7
SVE-4 ³	03/29/12	-47.6	25	--
SVE-4 ⁴	03/29/12	-61.2	30	--
SVE-4	03/30/12	-95.2	25	10.3
SVE-4	04/11/12	-54.4	20	10
SVE-4	04/16/12	-102.0	17	--
SVE-4	04/23/12	-102.0	20	--
SVE-4	04/30/12	-103.3	27	--
SVE-4	05/07/12	-95.2	18	--
SVE-4	05/09/12	-95.2	18	9.4
SVE-4	05/14/12	-95.2	20	--
SVE-4	05/21/12	-95.2	30	--
SVE-4	05/30/12	-95.2	33	--
SVE-4	06/04/12	-95.2	30	--
SVE-4	06/11/12	-95.2	30	--
SVE-4	06/12/12	-95.2	23	8.3
SVE-4	06/12/12	-80.2	23	--
SVE-4	06/12/12	-78.2	23	--
SVE-4	06/14/12	-78.2	23	--
SVE-4	06/18/12	-54.4	17	--
SVE-4	06/25/12	-54.4	18	--
SVE-4	07/02/12	-54.4	18	--
SVE-4	07/09/12	-54.4	20	--
SVE-4	07/10/12	-57.1	22	9.8
SVE-4	07/16/12	-68.0	20	--
SVE-4	07/23/12	-54.4	18	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-4	07/30/12	-54.4	18	--
SVE-4	08/06/12	-54.4	18	--
SVE-4	08/14/12	-57.1	27	32.28 ⁶
SVE-4	08/20/12	-54.4	18	--
SVE-4	08/27/12	-54.4	18	--
SVE-4	09/04/12	-54.4	20	--
SVE-4	09/10/12	-54.4	20	--
SVE-4	09/12/12	-54.4	17	1.58
SVE-4	09/17/12	-54.4	20	--
SVE-4	09/24/12	-47.6	15	--
SVE-4	10/01/12	-54.4	15	--
SVE-4	10/08/12	-40.8	20	--
SVE-4	10/16/12	-68.0	27	1.4
SVE-4	10/22/12	-68.0	25	--
SVE-4	10/29/12	-68.0	25	--
SVE-4	11/05/12	-81.6	25	--
SVE-4	11/12/12	-74.8	25	--
SVE-4	11/14/12	-81.6	22	0
SVE-4	11/19/12	-81.6	22	--
SVE-4	11/26/12	-81.6	25	--
SVE-4	12/03/12	-81.6	22	--
SVE-4	12/10/12	-95.2	22	--
SVE-4	12/14/12	-81.6	25	--
SVE-4	12/17/12	-81.6	25	--
SVE-4	12/18/12	-81.6	24	5
SVE-4	01/02/13	--	25	--
SVE-4	01/07/13	-54.4	15	--
SVE-4	01/16/13	-102.0	20	0.3
SVE-4	01/21/13	-81.6	17	--
SVE-4	01/28/13	-149.5	8	--
SVE-4	02/04/13	-136.0	0	--
SVE-4	02/11/13	-95.2	0	--
SVE-4	02/15/13	-68.0	16	11.2
SVE-4	02/18/13	-95.2	15	--
SVE-4	02/22/13	-95.2	15	--
SVE-4	02/24/13	-95.2	0	--
SVE-4	03/04/13	-95.2	20	--
SVE-4	03/13/13	-108.8	20	9.8
SVE-4	03/18/13	-108.8	18	--
SVE-4	03/25/13	-95.2	20	--
SVE-4	04/01/13	-115.6	-8	--
SVE-4	04/02/13	-108.8	22	--
SVE-4	04/04/13	-95.2	20	--
SVE-4	04/09/13	-122.4	20	--
SVE-4	04/15/13	-95.2	30	--
SVE-4	04/16/13	-95.2	25	--

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Table 2
Extraction Well Manifold Monitoring Data

Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-4	04/18/13	-108.8	25	--
SVE-4	04/19/13	-108.8	25	--
SVE-4	04/21/13	-95.2	25	--
SVE-4	04/22/13	-95.2	25	2.6
SVE-4	05/14/13	-80.0	23	12.7
SVE-4	05/20/13	-90.0	30	--
SVE-4	05/28/13	-100.0	27	--
SVE-4	05/30/13	-100.0	26	--
SVE-4	06/04/13	-90.0	26	--
SVE-4	06/10/13	-80.0	26	--
SVE-4	06/12/13	-84.0	26	5
SVE-4	06/17/13	-80.0	26	--
SVE-4	06/18/13	-90.0	26	--
SVE-4	06/24/13	-98.0	26	--
SVE-4	07/01/13	-96.0	26	--
SVE-4	07/11/13	-68.0	23	4.4
SVE-4	07/15/13	-54.4	26	--
SVE-4	07/22/13	-68.0	26	--
SVE-4	07/30/13	-54.4	26	--
SVE-4	08/06/13	-54.4	--	--
SVE-4	08/12/13	-54.4	29	--
SVE-4	08/13/13	-54.4	26	1.1
SVE-4	08/19/13	-40.8	30	--
SVE-4	08/22/13	-40.8	23	--
SVE-4	08/26/13	-47.6	27	--
SVE-4	09/03/13	-34.0	30	--
SVE-4	09/10/13	-40.8	23	2
SVE-4	09/16/13	-54.4	29	--
SVE-4	09/23/13	-68.0	32	--
SVE-4	09/30/13	-68.0	30	--
SVE-4	10/15/13	-40.8	24	6.1
SVE-4	10/28/13	-40.8	30	--
SVE-4	11/04/13	-54.4	27	--
SVE-4	11/06/13	-54.4	26	5
SVE-4	12/02/13	-40.8	30	--
SVE-4	12/09/13	-54.4	30	--
SVE-4	12/11/13	-54.4	31	0.5
SVE-4	12/16/13	-54.4	31	--
SVE-4	12/23/13	-47.6	31	--
SVE-4	12/30/13	-54.4	31	--
SVE-4	01/06/14	-41	27	--
SVE-4	01/13/14	-68	19	--
SVE-4	01/16/14	-68	43	0.2
SVE-4	01/20/14	-68	30	--
SVE-4	01/26/14	-82	31	--
SVE-4	02/10/14	-122	19	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-4	02/12/14	-136	14	0
SVE-4	02/18/14	-136	19	--
SVE-4	02/24/14	-136	27	--
SVE-4	02/25/14	-136	14	--
SVE-4	02/25/14	-136	14	--
SVE-4	02/25/14	-136	14	--
SVE-4	02/27/14	-136	14	--
SVE-4	02/27/14	-82	14	--
SVE-4	03/03/14	-81.6	23.3	--
SVE-4	03/10/14	-88.4	11.6	0.3
SVE-4	03/11/14	-81.6	23.2	--
SVE-4	03/17/14	-81.6	23.2	--
SVE-4	04/14/14	-95.2	34.7	--
SVE-4	04/22/14	-54.4	46.2	--
SVE-4	04/29/14	-68	57.8	--
SVE-4	05/05/14	-54.4	57.4	--
SVE-4	05/12/14	-68	56.8	--
SVE-4	05/13/14	-68	22.8	0
SVE-4	05/14/14	-68	57.3	--
SVE-4	05/27/14	-68	56.8	--
SVE-4	06/02/14	-68	56.5	--
SVE-4	06/11/14	-40.8	28.4	2.4
SVE-4	06/16/14	-54.4	56.6	--
SVE-4	06/23/14	-68	56.5	--
SVE-4	07/07/14	-54.4	56.4	--
SVE-4	07/16/14	-54.4	27.2	5.7
SVE-4	07/21/14	-54.4	45.2	--
SVE-4	07/25/14	-68	56.6	--
SVE-4	08/04/14	-61.2	56.8	--
SVE-4	08/11/14	-68	55.6	--
SVE-4	08/13/14	-58.5	33.9	6.1
SVE-4	08/18/14	-68	56.2	--
SVE-4	08/29/14	-68	56.6	--
SVE-4	09/08/14	-68	56.1	--
SVE-4	09/15/14	-68	56.9	--
SVE-4	09/17/14	-61.2	34.1	6
SVE-4	10/01/14	-54.4	34.1	--
SVE-4	10/10/14	-54.4	34.1	--
SVE-4	10/15/14	-68	34.2	18.8
SVE-4	11/04/14	-54.4	45.8	--
SVE-4	11/12/14	-61.2	34.6	0.2
SVE-4	11/21/14	-54.4	46.3	--
SVE-4	11/24/14	-61.2	34.7	--
SVE-4	12/03/14	-61.2	46.3	--
SVE-4	12/16/14	-61.2	34.7	0.4
SVE-4	01/15/15	-54.4	23.3	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-4	01/22/15	-54.4	34.9	1
SVE-4	01/30/15	-54.4	34.9	--
SVE-4	02/05/15	-54.4	35.1	--
SVE-4	02/13/15	-54.4	34.9	--
SVE-4	02/20/15	-81.6	11.7	--
SVE-4	03/06/15	-102.0	23	--
SVE-4	03/12/15	-68.0	23	--
SVE-4	03/13/15	-68.0	11	--
SVE-4	03/18/15	-102.0	12	0.9
SVE-4	03/27/15	-68.0	35	--
SVE-4	03/27/15	-54.4	47	--
SVE-4	04/02/15	-54.4	34	--
SVE-4	04/06/15	-54.4	34	--
SVE-4	04/15/15	-61.2	34	--
SVE-4	04/23/15	-68.0	58	0.7
SVE-4	04/30/15	-68.0	46	--
SVE-4	05/07/15	-68.0	45	--
SVE-4	05/14/15	-61.2	45	--
SVE-4	05/21/15	-54.4	34	2.0
SVE-4	05/29/15	-81.6	34	--
SVE-4	06/05/15	-68.0	45	--
SVE-4	06/10/15	-68.0	33	--
SVE-4	06/17/15	-68.0	45	6.3
SVE-4	07/10/15	-68.0	45	--
SVE-4	07/15/15	-68.0	56	--
SVE-4	07/24/15	-65.3	45	2.7
SVE-4	07/30/15	-68.0	44	--
SVE-4	08/07/15	-54.4	45	--
SVE-4	08/13/15	-54.4	45	--
SVE-4	08/21/15	-61.2	45	--
SVE-4	08/28/15	-61.2	45	--
SVE-5	03/09/12	-88.4	35	47.2 ¹
SVE-5	03/09/12	-88.4	34	15.0 ²
SVE-5	03/10/12	-88.4	33	10.8
SVE-5	03/11/12	-88.4	32	3.6
SVE-5	03/16/12	-81.6	34	2.9
SVE-5	03/23/12	-95.2	32	--
SVE-5	03/23/12	-81.6	32	3
SVE-5 ³	03/29/12	-61.2	30	--
SVE-5 ⁴	03/29/12	-74.8	37	--
SVE-5	03/30/12	-95.2	35	2.8
SVE-5	04/11/12	-81.6	27	3.3
SVE-5	04/16/12	-81.6	27	--
SVE-5	04/23/12	-81.6	25	--
SVE-5	04/30/12	-95.2	38	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-5	05/07/12	-81.6	26	--
SVE-5	05/09/12	-81.6	27	1
SVE-5	05/14/12	-81.6	27	--
SVE-5	05/21/12	-81.6	28	--
SVE-5	05/30/12	-81.6	38	--
SVE-5	06/04/12	-81.6	35	--
SVE-5	06/11/12	-81.6	35	--
SVE-5	06/12/12	-71.4	30	3.6
SVE-5	06/14/12	-68.0	29	--
SVE-5	06/18/12	-54.4	22	--
SVE-5	06/25/12	-54.4	22	--
SVE-5	07/02/12	-54.4	22	--
SVE-5	07/09/12	-54.4	22	--
SVE-5	07/10/12	-43.5	30	5.3
SVE-5	07/16/12	-54.4	25	--
SVE-5	07/23/12	-54.4	20	--
SVE-5	07/30/12	-68.0	15	--
SVE-5	08/06/12	-54.4	20	--
SVE-5	08/14/12	-54.4	29	28.95 ⁶
SVE-5	08/20/12	-68.0	20	--
SVE-5	08/27/12	-54.4	23	--
SVE-5	09/04/12	-68.0	25	--
SVE-5	09/10/12	-68.0	23	--
SVE-5	09/12/12	-51.0	23	1.33
SVE-5	09/17/12	-40.8	25	--
SVE-5	09/24/12	-40.8	25	--
SVE-5	10/01/12	-40.8	25	--
SVE-5	10/08/12	-27.2	25	--
SVE-5	10/16/12	-74.8	27	0.6
SVE-5	10/22/12	-81.6	25	--
SVE-5	10/29/12	-81.6	25	--
SVE-5	11/05/12	-81.6	25	--
SVE-5	11/12/12	-74.8	22	--
SVE-5	11/14/12	-81.6	20	0.2
SVE-5	11/19/12	-68.0	25	--
SVE-5	11/26/12	-68.0	27	--
SVE-5	12/03/12	-68.0	27	--
SVE-5	12/10/12	-68.0	25	--
SVE-5	12/14/12	-74.8	28	--
SVE-5	12/17/12	-81.6	25	--
SVE-5	12/18/12	-81.6	28	0.8
SVE-5	01/02/13	--	25	--
SVE-5	01/07/13	-81.6	30	--
SVE-5	01/16/13	-68.0	24	0
SVE-5	01/21/13	-68.0	18	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-5	01/28/13	-149.5	NM	--
SVE-5	02/04/13	-13.6	50	--
SVE-5	02/11/13	-68.0	20	--
SVE-5	02/15/13	-61.2	25	10.1
SVE-5	02/18/13	-81.6	22	--
SVE-5	02/22/13	-74.8	31	--
SVE-5	02/24/13	-68.0	15	--
SVE-5	03/04/13	-68.0	30	--
SVE-5	03/13/13	-81.6	24	8.9
SVE-5	03/18/13	-81.6	32	--
SVE-5	03/25/13	-68.0	28	--
SVE-5	04/01/13	-108.8	15	--
SVE-5	04/02/13	-108.8	30	--
SVE-5	04/04/13	-81.6	25	--
SVE-5	04/09/13	-108.8	30	--
SVE-5	04/15/13	-81.6	32	--
SVE-5	04/16/13	-81.6	30	--
SVE-5	04/18/13	-95.2	35	--
SVE-5	04/19/13	-81.6	35	--
SVE-5	04/21/13	-81.6	32	--
SVE-5	04/22/13	-81.6	35	1.8
SVE-5	05/14/13	-88.0	30	10.9
SVE-5	05/20/13	-100.0	35	--
SVE-5	05/28/13	-100.0	38	--
SVE-5	05/30/13	-100.0	32	--
SVE-5	06/04/13	-90.0	32	--
SVE-5	06/10/13	-80.0	32	--
SVE-5	06/12/13	-90.0	35	4.5
SVE-5	06/17/13	-88.0	32	--
SVE-5	06/18/13	-88.0	32	--
SVE-5	06/24/13	-98.0	32	--
SVE-5	07/01/13	-90.0	29	--
SVE-5	07/11/13	-74.8	32	2.8
SVE-5	07/15/13	-68.0	32	--
SVE-5	07/22/13	-68.0	32	--
SVE-5	07/30/13	-54.4	29	--
SVE-5	08/06/13	-68.0	--	--
SVE-5	08/12/13	-68.0	32	--
SVE-5	08/13/13	-54.4	35	0.8
SVE-5	08/19/13	-40.8	32	--
SVE-5	08/22/13	-54.4	35	--
SVE-5	08/26/13	-54.4	32	--
SVE-5	09/03/13	-40.8	32	--
SVE-5	09/10/13	-27.2	35	1.7
SVE-5	09/16/13	-54.4	32	--
SVE-5	09/23/13	-40.8	29	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-5	09/30/13	-40.8	30	--
SVE-5	10/15/13	-51.0	35	0
SVE-5	10/28/13	-47.6	30	--
SVE-5	11/04/13	-54.4	30	--
SVE-5	11/06/13	-54.4	32	5
SVE-5	12/02/13	-54.4	30	--
SVE-5	12/09/13	-54.4	33	--
SVE-5	12/11/13	-68.0	36	0.6
SVE-5	12/16/13	-54.4	31	--
SVE-5	12/23/13	-61.2	33	--
SVE-5	12/30/13	-68.0	43	--
SVE-5	01/06/14	-54	43	--
SVE-5	01/13/14	-68	52	--
SVE-5	01/16/14	-68	49	0.3
SVE-5	01/20/14	-68	43	--
SVE-5	01/26/14	-82	55	--
SVE-5	02/10/14	-122	31	--
SVE-5	02/12/14	-136	28	0
SVE-5	02/18/14	-136	19	--
SVE-5	02/24/14	-136	27	--
SVE-5	02/25/14	-136	14	--
SVE-5	02/25/14	-136	14	--
SVE-5	02/25/14	-136	14	--
SVE-5	02/27/14	-136	19	--
SVE-5	02/27/14	-82	14	--
SVE-5	03/03/14	-81.6	23.3	--
SVE-5	03/10/14	-88.4	23.2	0.1
SVE-5	03/11/14	-81.6	23.2	--
SVE-5	03/17/14	-81.6	23.2	--
SVE-5	04/14/14	-81.6	34.7	--
SVE-5	04/22/14	-68	46.2	--
SVE-5	04/29/14	-68	46.2	--
SVE-5	05/05/14	-68	57.4	--
SVE-5	05/12/14	-54.4	56.8	--
SVE-5	05/13/14	-81.6	45.6	0
SVE-5	05/14/14	-68	57.3	--
SVE-5	05/27/14	-68	45.4	--
SVE-5	06/02/14	-68	45.2	--
SVE-5	06/11/14	-54.4	28.4	1.1
SVE-5	06/16/14	-54.4	56.6	--
SVE-5	06/23/14	-68	56.5	--
SVE-5	07/07/14	-54.4	56.4	--
SVE-5	07/16/14	-61.2	45.4	2.7
SVE-5	07/21/14	-54.4	56.5	--
SVE-5	07/25/14	-68	56.6	--
SVE-5	08/04/14	-61.2	56.8	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-5	08/11/14	-68	55.6	--
SVE-5	08/13/14	-68	56.5	4
SVE-5	08/18/14	-68	56.2	--
SVE-5	08/29/14	-68	56.6	--
SVE-5	09/08/14	-54.4	56.1	--
SVE-5	09/15/14	-68	56.9	--
SVE-5	09/17/14	-68	56.8	2.9
SVE-5	10/01/14	-61.2	45.4	--
SVE-5	10/10/14	-68	56.8	--
SVE-5	10/15/14	-68	45.6	30.4
SVE-5	11/04/14	-61.2	45.8	--
SVE-5	11/12/14	-68	46.1	0.2
SVE-5	11/21/14	-61.2	57.9	--
SVE-5	11/24/14	-68	46.3	--
SVE-5	12/03/14	-68	46.3	--
SVE-5	12/16/14	-68	46.3	0.2
SVE-5	01/15/15	-68	69.8	--
SVE-5	01/22/15	-68	58.2	0.5
SVE-5	01/30/15	-68	58.2	--
SVE-5	02/05/15	-61.2	58.5	--
SVE-5	02/13/15	-61.2	58.2	--
SVE-5	02/20/15	-95.2	46.8	--
SVE-5	03/06/15	-108.8	35	--
SVE-5	03/12/15	-68.0	11	--
SVE-5	03/13/15	-74.8	0	--
SVE-5	03/18/15	-102.0	19	0.1
SVE-5	03/27/15	-68.0	35	--
SVE-5	03/27/15	-68.0	35	--
SVE-5	04/02/15	-68.0	34	--
SVE-5	04/06/15	-54.4	34	--
SVE-5	04/15/15	-68.0	34	--
SVE-5	04/23/15	-68.0	35	0.3
SVE-5	04/30/15	-68.0	46	--
SVE-5	05/07/15	-68.0	45	--
SVE-5	05/14/15	-68.0	34	--
SVE-5	05/21/15	-68.0	34	0.6
SVE-5	05/29/15	-81.6	68	--
SVE-5	06/05/15	-68.0	56	--
SVE-5	06/10/15	-68.0	44	--
SVE-5	06/17/15	-81.6	56	2.0
SVE-5	07/10/15	-68.0	56	--
SVE-5	07/15/15	-68.0	56	--
SVE-5	07/24/15	-69.3	56	1.4
SVE-5	07/30/15	-68.0	55	--
SVE-5	08/07/15	-68.0	56	--
SVE-5	08/13/15	-61.2	56	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-5	08/21/15	-68.0	56	--
SVE-5	08/28/15	-68.0	56	--
SVE-6	03/09/12	-115.6	19	37.5 ¹
SVE-6	03/09/12	-108.8	19	3.7 ²
SVE-6	03/10/12	-108.8	20	1.3
SVE-6	03/11/12	-108.8	20	2.8
SVE-6	03/16/12	-102.0	16	1.9
SVE-6	03/23/12	-122.4	--	--
SVE-6	03/23/12	-122.4	17	2.2
SVE-6 ³	03/29/12	-81.6	23	--
SVE-6 ⁴	03/29/12	-95.2	24	--
SVE-6	03/30/12	-122.4	17	2
SVE-6	04/11/12	-95.2	17	2.3
SVE-6	04/16/12	-108.8	5	--
SVE-6	04/23/12	-102.0	19	--
SVE-6	04/30/12	-122.4	25	--
SVE-6	05/07/12	-81.6	18	--
SVE-6	05/09/12	-81.6	13	0.5
SVE-6	05/14/12	-95.2	15	--
SVE-6	05/21/12	-95.2	25	--
SVE-6	05/30/12	-95.2	24	--
SVE-6	06/04/12	-95.2	20	--
SVE-6	06/11/12	-95.2	20	--
SVE-6	06/17/12	-68.0	15	--
SVE-6	06/23/12	-81.6	15	--
SVE-6	06/12/12	-91.8	16	3.1
SVE-6	06/12/12	-81.6	15	--
SVE-6	06/12/12	-81.6	16	--
SVE-6	06/14/12	-81.6	19	--
SVE-6	06/18/12	-68.0	15	--
SVE-6	06/25/12	-68.0	15	--
SVE-6	07/02/12	-68.0	15	--
SVE-6	07/09/12	-68.0	15	--
SVE-6	07/10/12	-62.6	21	3.9
SVE-6	07/16/12	-68.0	15	--
SVE-6	07/23/12	-68.0	15	--
SVE-6	07/30/12	-68.0	13	--
SVE-6	08/06/12	-68.0	12	--
SVE-6	08/14/12	-68.0	18	24.71 ⁶
SVE-6	08/20/12	-68.0	12	--
SVE-6	08/27/12	-68.0	8	--
SVE-6	09/04/12	-54.4	12	--
SVE-6	09/12/12	-64.6	10	0.79
SVE-6	09/17/12	-54.4	12	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-6	09/24/12	-54.4	22	--
SVE-6	10/01/12	-54.4	25	--
SVE-6	10/08/12	-40.8	20	--
SVE-6	10/16/12	-81.6	20	0
SVE-6	10/22/12	-81.6	20	--
SVE-6	10/29/12	-81.6	20	--
SVE-6	11/05/12	-81.6	20	--
SVE-6	11/12/12	-81.6	20	--
SVE-6	11/14/12	-81.6	18	0
SVE-6	11/19/12	-81.6	17	--
SVE-6	11/26/12	-81.6	25	--
SVE-6	12/03/12	-68.0	25	--
SVE-6	12/10/12	-81.6	17	--
SVE-6	12/14/12	-95.2	22	--
SVE-6	12/17/12	-95.2	20	--
SVE-6	12/18/12	-95.2	19	0.3
SVE-6	01/02/13	--	20	--
SVE-6	01/07/13	-68.0	23	--
SVE-6	01/16/13	-88.4	25	0
SVE-6	01/21/13	-136.0	10	--
SVE-6	01/28/13	-81.6	30	--
SVE-6	02/04/13	-54.4	0	--
SVE-6	02/11/13	-81.6	15	--
SVE-6	02/15/13	-102.0	23	8.7
SVE-6	02/18/13	-81.6	15	--
SVE-6	02/22/13	-95.2	26	--
SVE-6	02/24/13	-108.8	10	--
SVE-6	03/04/13	-68.0	18	--
SVE-6	03/13/13	-108.8	25	7.7
SVE-6	03/18/13	-81.6	25	--
SVE-6	03/25/13	-81.6	25	--
SVE-6	04/01/13	-108.8	15	--
SVE-6	04/02/13	-108.8	30	--
SVE-6	04/04/13	-68.0	25	--
SVE-6	04/09/13	-95.2	25	--
SVE-6	04/15/13	-81.6	28	--
SVE-6	04/16/13	-68.0	30	--
SVE-6	04/18/13	-81.6	32	--
SVE-6	04/19/13	-81.6	28	--
SVE-6	04/21/13	-68.0	30	--
SVE-6	04/22/13	-68.0	30	1.3
SVE-6	05/14/13	-80.0	23	11.3
SVE-6	05/20/13	-90.0	26	--
SVE-6	05/28/13	-98.0	23	--
SVE-6	05/30/13	-100.0	26	--
SVE-6	06/04/13	-92.0	26	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-6	06/10/13	-80.0	30	--
SVE-6	06/12/13	-82.0	26	2.8
SVE-6	06/17/13	-80.0	26	--
SVE-6	06/18/13	-84.0	26	--
SVE-6	06/24/13	-98.0	26	--
SVE-6	07/01/13	-94.0	26	--
SVE-6	07/11/13	-68.0	29	2
SVE-6	07/15/13	-68.0	29	--
SVE-6	07/22/13	-68.0	18	--
SVE-6	07/30/13	-54.4	26	--
SVE-6	08/06/13	-54.4	--	--
SVE-6	08/12/13	-54.4	32	--
SVE-6	08/13/13	-54.4	32	0.5
SVE-6	08/19/13	-40.8	32	--
SVE-6	08/22/13	-40.8	32	--
SVE-6	08/26/13	-40.8	26	--
SVE-6	09/03/13	-40.8	30	--
SVE-6	09/10/13	-34.0	32	1.3
SVE-6	09/16/13	-54.4	29	--
SVE-6	09/23/13	-54.4	29	--
SVE-6	09/30/13	-68.0	32	--
SVE-6	10/15/13	-40.8	32	0
SVE-6	10/28/13	-54.4	30	--
SVE-6	11/04/13	-54.4	30	--
SVE-6	11/06/13	-54.4	26	7.1
SVE-6	12/02/13	-54.4	27	--
SVE-6	12/09/13	-54.4	27	--
SVE-6	12/11/13	-54.4	19	0.4
SVE-6	12/16/13	-54.4	27	--
SVE-6	12/23/13	-54.4	31	--
SVE-6	12/30/13	-54.4	31	--
SVE-6	01/06/14	-54	30	--
SVE-6	01/13/14	-68	33	--
SVE-6	01/16/14	-68	36	0.2
SVE-6	01/20/14	-68	33	--
SVE-6	01/26/14	-82	31	--
SVE-6	02/10/14	-41	19	--
SVE-6	02/12/14	-129	0	0.1
SVE-6	02/18/14	-136	19	--
SVE-6	02/24/14	-136	27	--
SVE-6	02/25/14	-136	0	--
SVE-6	02/25/14	-136	0	--
SVE-6	02/25/14	-136	0	--
SVE-6	02/27/14	-136	14	--
SVE-6	02/27/14	-82	14	--
SVE-6	03/03/14	-81.6	23.3	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-6	03/10/14	-81.6	0	0
SVE-6	03/11/14	-81.6	23.2	--
SVE-6	03/17/14	-81.6	23.2	--
SVE-6	04/14/14	-95.2	34.7	--
SVE-6	04/22/14	-68	46.2	--
SVE-6	04/29/14	-68	46.2	--
SVE-6	05/05/14	-54.4	45.9	--
SVE-6	05/12/14	-54.4	45.4	--
SVE-6	05/13/14	-68	22.8	0
SVE-6	05/14/14	-68	57.3	--
SVE-6	05/27/14	-54.4	45.4	--
SVE-6	06/02/14	-68	45.2	--
SVE-6	06/11/14	-34	15.9	0
SVE-6	06/16/14	-54.4	45.3	--
SVE-6	06/23/14	-68	56.5	--
SVE-6	07/07/14	-54.4	56.4	--
SVE-6	07/16/14	-54.4	29.5	0.6
SVE-6	07/21/14	-54.4	56.5	--
SVE-6	07/25/14	-68	56.6	--
SVE-6	08/04/14	-54.4	56.8	--
SVE-6	08/11/14	-61.2	55.6	--
SVE-6	08/13/14	-58.5	45.2	2.5
SVE-6	08/18/14	-68	56.2	--
SVE-6	08/29/14	-54.4	56.6	--
SVE-6	09/08/14	-54.4	56.1	--
SVE-6	09/15/14	-68	56.9	--
SVE-6	09/17/14	-61.2	34.1	0
SVE-6	10/01/14	-54.4	34.1	--
SVE-6	10/10/14	-61.2	34.1	--
SVE-6	10/15/14	-68	22.8	59.2
SVE-6	11/04/14	-54.4	34.4	--
SVE-6	11/12/14	-61.2	46.1	0.2
SVE-6	11/21/14	-54.4	46.3	--
SVE-6	11/24/14	-61.2	23.2	--
SVE-6	12/03/14	-61.2	34.7	--
SVE-6	12/16/14	-68	23.2	0.1
SVE-6	01/15/15	-54.4	34.9	--
SVE-6	01/22/15	-54.4	46.5	0.2
SVE-6	01/30/15	-54.4	34.9	--
SVE-6	02/05/15	-54.4	46.8	--
SVE-6	02/13/15	-54.4	46.5	--
SVE-6	02/20/15	-81.6	58.5	--
SVE-6	03/06/15	-95.2	0	--
SVE-6	03/12/15	-68.0	11	--
SVE-6	03/13/15	-68.0	11	--
SVE-6	03/18/15	-95.2	0	0.0

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-6	03/27/15	-68.0	35	--
SVE-6	03/27/15	-61.2	23	--
SVE-6	04/02/15	-54.4	34	--
SVE-6	04/06/15	-54.4	34	--
SVE-6	04/15/15	-68.0	23	--
SVE-6	04/23/15	-68.0	12	0.2
SVE-6	04/30/15	-68.0	34	--
SVE-6	05/07/15	-68.0	34	--
SVE-6	05/14/15	-61.2	11	--
SVE-6	05/21/15	-54.4	11	0.3
SVE-6	05/29/15	-81.6	23	--
SVE-6	06/05/15	-81.6	11	--
SVE-6	06/10/15	-68.0	22	--
SVE-6	06/17/15	-74.8	22	1.5
SVE-6	07/10/15	-68.0	22	--
SVE-6	07/15/15	-68.0	11	--
SVE-6	07/24/15	-66.6	178	0.7
SVE-6	07/24/15	-66.6	178	0.7
SVE-6	07/30/15	-68.0	22	--
SVE-6	08/07/15	-61.2	22	--
SVE-6	08/13/15	-54.4	22	--
SVE-6	08/21/15	-61.2	22	--
SVE-6	08/28/15	-61.2	22	--
SVE-7	03/09/12	-81.6	40	96.2 ¹
SVE-7	03/09/12	-74.8	30	11.8 ²
SVE-7	03/10/12	-74.8	30	10.5
SVE-7	03/11/12	-71.4	30	7.3
SVE-7	03/16/12	-74.8	30	3.6
SVE-7	03/23/12	-81.6	35	--
SVE-7	03/23/12	-81.6	35	3.4
SVE-7 ³	03/29/12	-47.6	20	--
SVE-7 ⁴	03/29/12	-54.4	30	--
SVE-7	03/30/12	-68.0	30	3
SVE-7	04/11/12	-54.4	25	7
SVE-7	04/16/12	-68.0	25	--
SVE-7	04/23/12	-68.0	120	--
SVE-7	04/30/12	-68.0	30	--
SVE-7	05/07/12	-68.0	25	--
SVE-7	05/09/12	-68.0	30	0.6
SVE-7	05/14/12	-68.0	30	--
SVE-7	05/21/12	-68.0	40	--
SVE-7	05/30/12	-54.4	30	--
SVE-7	06/04/12	-68.0	40	--
SVE-7	06/11/12	-54.4	40	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-7	06/12/12	-61.2	35	4
SVE-7	06/14/12	-47.6	25	--
SVE-7	06/18/12	-34.0	20	--
SVE-7	06/25/12	-27.2	15	--
SVE-7	07/02/12	-27.2	20	--
SVE-7	07/09/12	-13.6	20	--
SVE-7	07/10/12	-32.4	16	4.9
SVE-7	07/16/12	-13.6	10	--
SVE-7	07/23/12	-13.6	20	--
SVE-7	07/30/12	-13.6	20	--
SVE-7	08/06/12	-27.2	20	--
SVE-7	08/14/12	-31.3	20	25.27 ⁶
SVE-7	08/20/12	-27.2	20	--
SVE-7	08/27/12	-13.6	20	--
SVE-7	09/04/12	-13.6	20	--
SVE-7	09/10/12	-13.6	20	--
SVE-7	09/12/12	-27.2	12	1.12
SVE-7	09/17/12	-13.6	20	--
SVE-7	09/24/12	-27.2	20	--
SVE-7	10/01/12	-27.2	20	--
SVE-7	10/08/12	-27.2	20	--
SVE-7	10/16/12	-47.6	40	0.7
SVE-7	10/22/12	-47.6	30	--
SVE-7	10/29/12	-27.2	45	--
SVE-7	11/05/12	-40.8	40	--
SVE-7	11/12/12	-40.8	40	--
SVE-7	11/14/12	-47.6	30	0.3
SVE-7	11/19/12	-54.4	30	--
SVE-7	11/26/12	-54.4	35	--
SVE-7	12/03/12	-54.4	30	--
SVE-7	12/10/12	-54.4	30	--
SVE-7	12/14/12	-54.4	30	--
SVE-7	12/17/12	-54.4	30	--
SVE-7	12/18/12	-54.4	30	0.5
SVE-7	01/02/13	--	50	--
SVE-7	01/07/13	-40.8	40	--
SVE-7	01/16/13	-61.2	30	0
SVE-7	01/21/13	-95.2	15	--
SVE-7	01/28/13	-163.1	10	--
SVE-7	02/04/13	-68.0	30	--
SVE-7	02/11/13	-54.4	10	--
SVE-7	02/15/13	-68.0	NM	9.7
SVE-7	02/18/13	-68.0	20	--
SVE-7	02/22/13	-61.2	20	--
SVE-7	02/24/13	-68.0	60	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-7	03/04/13	-47.6	20	--
SVE-7	03/13/13	-81.6	25	9.2
SVE-7	03/18/13	-68.0	20	--
SVE-7	03/25/13	-68.0	30	--
SVE-7	04/01/13	-81.6	20	--
SVE-7	04/02/13	-68.0	10	--
SVE-7	04/04/13	-68.0	10	--
SVE-7	04/09/13	-68.0	10	--
SVE-7	04/15/13	-81.6	10	--
SVE-7	04/16/13	-81.6	10	--
SVE-7	04/18/13	-136.0	8	--
SVE-7	04/19/13	-122.4	10	--
SVE-7	04/21/13	-68.0	8	--
SVE-7	04/22/13	-68.0	10	1.9
SVE-7	05/14/13	-80.0	19	10.6
SVE-7	05/20/13	-95.0	23	--
SVE-7	05/28/13	-100.0	19	--
SVE-7	05/30/13	-100.0	13	--
SVE-7	06/04/13	-90.0	23	--
SVE-7	06/10/13	-80.0	23	--
SVE-7	06/12/13	-84.0	23	2.0
SVE-7	06/17/13	-90.0	23	--
SVE-7	06/18/13	-90.0	19	--
SVE-7	06/24/13	-100.0	23	--
SVE-7	07/01/13	-90.0	26	--
SVE-7	07/11/13	-68.0	23	1.1
SVE-7	07/15/13	-54.4	26	--
SVE-7	07/22/13	-68.0	18	--
SVE-7	07/30/13	-54.4	26	--
SVE-7	08/06/13	-68.0	--	--
SVE-7	08/12/13	-54.4	26	--
SVE-7	08/13/13	-54.4	19	0.3
SVE-7	08/19/13	-40.8	26	--
SVE-7	08/22/13	-47.6	19	--
SVE-7	08/26/13	-47.6	26	--
SVE-7	09/03/13	-40.8	26	--
SVE-7	09/10/13	-34.0	23	0.4
SVE-7	09/16/13	-68.0	32	--
SVE-7	09/23/13	-68.0	29	--
SVE-7	09/30/13	-68.0	30	--
SVE-7	10/15/13	-47.6	19	0
SVE-7	10/28/13	-40.8	27	--
SVE-7	11/04/13	-54.4	27	--
SVE-7	11/06/13	-54.4	19	5
SVE-7	12/02/13	-54.4	27	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-7	12/09/13	-54.4	27	--
SVE-7	12/11/13	-54.4	24	0.4
SVE-7	12/16/13	-54.4	27	--
SVE-7	12/23/13	-47.6	31	--
SVE-7	12/30/13	-54.4	31	--
SVE-7	01/06/14	-54	30	--
SVE-7	01/13/14	-68	30	--
SVE-7	01/16/14	-68	27	0.1
SVE-7	01/20/14	-68	30	--
SVE-7	01/26/14	-82	31	--
SVE-7	02/10/14	-122	24	--
SVE-7	02/12/14	-136	45	0
SVE-7	02/18/14	-136	19	--
SVE-7	02/24/14	-136	27	--
SVE-7	02/25/14	-136	14	--
SVE-7	02/25/14	-136	14	--
SVE-7	02/25/14	-136	14	--
SVE-7	02/27/14	-136	14	--
SVE-7	02/27/14	-82	14	--
SVE-7	03/03/14	-81.6	23.3	--
SVE-7	03/10/14	-88.4	11.6	0.6
SVE-7	03/11/14	-81.6	23.2	--
SVE-7	03/17/14	-81.6	23.2	--
SVE-7	04/14/14	-95.2	34.7	--
SVE-7	04/22/14	-68	46.2	--
SVE-7	04/29/14	-68	46.2	--
SVE-7	05/05/14	-54.4	45.9	--
SVE-7	05/12/14	-54.4	45.4	--
SVE-7	05/13/14	-68	22.8	0
SVE-7	05/14/14	-68	45.8	--
SVE-7	05/27/14	-54.4	34.1	--
SVE-7	06/02/14	-68	45.2	--
SVE-7	06/11/14	-43.5	6.8	0
SVE-7	06/16/14	-54.4	45.3	--
SVE-7	06/23/14	-68	56.5	--
SVE-7	07/07/14	-54.4	45.1	--
SVE-7	07/16/14	-54.4	204.3	0
SVE-7	07/21/14	-54.4	56.5	--
SVE-7	07/25/14	-68	45.3	--
SVE-7	08/04/14	-54.4	56.8	--
SVE-7	08/11/14	-68	55.6	--
SVE-7	08/13/14	-68	29.4	1.7
SVE-7	08/18/14	-68	56.2	--
SVE-7	08/29/14	-54.4	56.6	--
SVE-7	09/08/14	-68	56.1	--
SVE-7	09/15/14	-68	56.9	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-7	09/17/14	-61.2	34.1	0
SVE-7	10/01/14	-54.4	34.1	--
SVE-7	10/10/14	-68	45.4	--
SVE-7	10/15/14	-68	34.2	51.7
SVE-7	11/04/14	-54.4	45.8	--
SVE-7	11/12/14	-68	46.1	0.1
SVE-7	11/21/14	-54.4	46.3	--
SVE-7	11/24/14	-68	46.3	--
SVE-7	12/03/14	-68	57.9	--
SVE-7	12/16/14	-68	46.3	0.1
SVE-7	01/15/15	-54.4	34.9	--
SVE-7	01/22/15	-61.2	46.5	0
SVE-7	01/30/15	-61.2	46.5	--
SVE-7	02/05/15	-61.2	46.8	--
SVE-7	02/13/15	-61.2	46.5	--
SVE-7	02/20/15	-95.2	105.2	--
SVE-7	03/06/15	-108.8	58	--
SVE-7	03/12/15	-68.0	23	--
SVE-7	03/13/15	-68.0	11	--
SVE-7	03/18/15	-102.0	12	0.0
SVE-7	03/27/15	-68.0	58	--
SVE-7	03/27/15	-54.4	58	--
SVE-7	04/02/15	-54.4	46	--
SVE-7	04/06/15	-54.4	57	--
SVE-7	04/15/15	-68.0	57	--
SVE-7	04/23/15	-68.0	46	0.1
SVE-7	04/30/15	-68.0	57	--
SVE-7	05/07/15	-68.0	11	--
SVE-7	05/14/15	-61.2	34	--
SVE-7	05/21/15	-61.2	34	0.0
SVE-7	05/29/15	-81.6	45	--
SVE-7	06/05/15	-68.0	45	--
SVE-7	06/10/15	-68.0	44	--
SVE-7	06/17/15	-81.6	45	0.4
SVE-7	07/10/15	-68.0	45	--
SVE-7	07/15/15	-68.0	45	--
SVE-7	07/24/15	-68.0	36	0.2
SVE-7	07/30/15	-68.0	44	--
SVE-7	08/07/15	-61.2	33	--
SVE-7	08/13/15	-54.4	33	--
SVE-7	08/21/15	-68.0	45	--
SVE-7	08/28/15	-68.0	34	--
SVE-8	03/09/12	-95.2	30	34.2 ¹
SVE-8	03/09/12	-95.2	30	7.2 ²
SVE-8	03/10/12	-95.2	31	4.3
SVE-8	03/11/12	-88.4	33	6.7

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-8	03/16/12	-88.4	32	2.4
SVE-8	03/23/12	-95.2	35	--
SVE-8	03/23/12	-95.2	35	2.5
SVE-8 ³	03/29/12	-68.0	29	--
SVE-8 ⁴	03/29/12	-74.8	35	--
SVE-8	03/30/12	-81.6	37	2.9
SVE-8	04/11/12	-81.6	27	2
SVE-8	04/16/12	-81.6	25	--
SVE-8	04/23/12	-81.6	25	--
SVE-8	04/30/12	-81.6	40	--
SVE-8	05/07/12	-81.6	25	--
SVE-8	05/09/12	-81.6	27	0.5
SVE-8	05/14/12	-81.6	27	--
SVE-8	05/21/12	-81.6	38	--
SVE-8	05/30/12	-81.6	38	--
SVE-8	06/04/12	-95.2	35	--
SVE-8	06/11/12	-81.6	35	--
SVE-8	06/12/12	-74.8	28	3.4
SVE-8	06/14/12	-68.0	27	--
SVE-8	06/18/12	-40.8	18	--
SVE-8	06/25/12	-54.4	20	--
SVE-8	07/02/12	-54.4	18	--
SVE-8	07/09/12	-54.4	20	--
SVE-8	07/10/12	-53.0	24	4.3
SVE-8	07/16/12	-54.4	22	--
SVE-8	07/23/12	-54.4	20	--
SVE-8	07/30/12	-54.4	20	--
SVE-8	08/06/12	-54.4	18	--
SVE-8	08/14/12	-54.4	27	23.24 ⁶
SVE-8	08/20/12	-54.4	25	--
SVE-8	08/27/12	-54.4	22	--
SVE-8	09/04/12	-54.4	22	--
SVE-8	09/10/12	-54.4	25	--
SVE-8	09/12/12	-54.4	21	1.95
SVE-8	09/17/12	-54.4	22	--
SVE-8	09/24/12	-40.8	22	--
SVE-8	10/01/12	-40.8	25	--
SVE-8	10/08/12	-40.8	22	--
SVE-8	10/16/12	-68.0	40	0
SVE-8	10/22/12	-68.0	30	--
SVE-8	10/29/12	-68.0	32	--
SVE-8	11/05/12	-68.0	30	--
SVE-8	11/12/12	-68.0	30	--
SVE-8	11/14/12	-68.0	30	0

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-8	11/19/12	-68.0	30	--
SVE-8	11/26/12	-68.0	32	--
SVE-8	12/03/12	-68.0	30	--
SVE-8	12/10/12	-68.0	30	--
SVE-8	12/14/12	-74.8	30	--
SVE-8	12/17/12	-74.8	30	--
SVE-8	01/02/13	--	22	--
SVE-8	01/07/13	-122.4	~8	--
SVE-8	01/16/13	-40.8	18	0
SVE-8	01/21/13	-129.2	18	--
SVE-8	01/28/13	-136.0	10	--
SVE-8	02/04/13	-136.0	0	--
SVE-8	02/11/13	-81.6	0	--
SVE-8	02/15/13	-108.8	10	6.8
SVE-8	02/18/13	-95.2	10	--
SVE-8	02/22/13	-20.4	17	--
SVE-8	02/24/13	-122.4	0	--
SVE-8	03/04/13	-95.2	15	--
SVE-8	03/13/13	-108.8	18	6.2
SVE-8	03/18/13	-108.8	NM	--
SVE-8	03/25/13	-95.2	NM	--
SVE-8	04/01/13	-102.0	20	--
SVE-8	04/02/13	-95.2	35	--
SVE-8	04/04/13	-81.6	35	--
SVE-8	04/09/13	-122.4	11	--
SVE-8	04/15/13	-95.2	15	--
SVE-8	04/16/13	-81.6	25	--
SVE-8	04/18/13	-108.8	8	--
SVE-8	04/19/13	-108.8	20	--
SVE-8	04/21/13	-81.6	25	--
SVE-8	04/22/13	-81.6	25	1.3
SVE-8	05/14/13	-76.0	23	9.7
SVE-8	05/20/13	-90.0	0	--
SVE-8	05/28/13	-92.0	13	--
SVE-8	05/30/13	-100.0	13	--
SVE-8	06/04/13	-94.0	23	--
SVE-8	06/10/13	-88.0	13	--
SVE-8	06/12/13	-88.0	23	1.7
SVE-8	06/17/13	-90.0	26	--
SVE-8	06/18/13	-88.0	23	--
SVE-8	06/24/13	-100.0	26	--
SVE-8	07/01/13	-88.0	26	--
SVE-8	07/11/13	-68.0	26	1.1
SVE-8	07/15/13	-68.0	29	--
SVE-8	07/22/13	-68.0	13	--
SVE-8	07/30/13	-54.4	23	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-8	08/06/13	-54.4	--	--
SVE-8	08/12/13	-54.4	0	--
SVE-8	08/13/13	-54.4	9	0.3
SVE-8	08/19/13	-40.8	0	--
SVE-8	08/22/13	-47.6	13	--
SVE-8	08/26/13	-47.6	18	--
SVE-8	09/03/13	-34.0	23	--
SVE-8	09/10/13	-40.8	18	0.4
SVE-8	09/16/13	-54.4	29	--
SVE-8	09/23/13	-54.4	32	--
SVE-8	09/30/13	-54.4	32	--
SVE-8	10/15/13	-47.6	13	4.4
SVE-8	10/28/13	-54.4	23	--
SVE-8	11/04/13	-54.4	19	--
SVE-8	11/06/13	-54.4	0	5.3
SVE-8	12/02/13	-54.4	27	--
SVE-8	12/09/13	-54.4	27	--
SVE-8	12/11/13	-54.4	27	0.4
SVE-8	12/16/13	-54.4	27	--
SVE-8	12/23/13	-61.2	27	--
SVE-8	12/30/13	-68.0	31	--
SVE-8	01/06/14	-54	30	--
SVE-8	01/13/14	-68	19	--
SVE-8	01/16/14	-68	0	0.5
SVE-8	01/20/14	-68	23	--
SVE-8	01/26/14	-82	24	--
SVE-8	02/10/14	-136	19	--
SVE-8	02/12/14	-136	0	0
SVE-8	02/18/14	-136	19	--
SVE-8	02/24/14	-136	27	--
SVE-8	02/25/14	-136	0	--
SVE-8	02/25/14	-136	0	--
SVE-8	02/25/14	-136	0	--
SVE-8	02/27/14	-136	0	--
SVE-8	02/27/14	-82	0	--
SVE-8	03/03/14	-81.6	23.3	--
SVE-8	03/10/14	-95.2	0	0.7
SVE-8	03/11/14	-81.6	23.2	--
SVE-8	03/17/14	-81.6	23.2	--
SVE-8	04/14/14	-95.2	23.2	--
SVE-8	04/22/14	-68	34.7	--
SVE-8	04/29/14	-68	34.7	--
SVE-8	05/05/14	-68	45.9	--
SVE-8	05/12/14	-68	45.4	--
SVE-8	05/13/14	-68	0	4
SVE-8	05/14/14	-68	45.8	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-8	05/27/14	-54.4	34.1	--
SVE-8	06/02/14	-68	45.2	--
SVE-8	06/11/14	-62.5	6.8	0
SVE-8	06/16/14	-54.4	34	--
SVE-8	06/23/14	-61.2	45.2	--
SVE-8	07/07/14	-47.6	45.1	--
SVE-8	07/16/14	-57.1	27.2	0
SVE-8	07/21/14	-54.4	45.2	--
SVE-8	07/25/14	-68	45.3	--
SVE-8	08/04/14	-54.4	45.4	--
SVE-8	08/11/14	-61.2	44.5	--
SVE-8	08/13/14	-68	36.2	1.4
SVE-8	08/18/14	-54.4	45	--
SVE-8	08/29/14	-68	56.6	--
SVE-8	09/08/14	-68	56.1	--
SVE-8	09/15/14	-68	56.9	--
SVE-8	09/17/14	-68	56.8	0
SVE-8	10/01/14	-61.2	34.1	--
SVE-8	10/10/14	-68	56.8	--
SVE-8	10/15/14	-68	79.8	26.7
SVE-8	11/04/14	-54.4	91.7	--
SVE-8	11/12/14	-68	115.2	0.1
SVE-8	11/21/14	-54.4	115.8	--
SVE-8	11/24/14	-68	138.9	--
SVE-8	12/03/14	-68	127.3	--
SVE-8	12/16/14	-68	104.2	0.1
SVE-8	01/15/15	-61.2	93.1	--
SVE-8	01/22/15	-61.2	104.7	0
SVE-8	01/30/15	-61.2	104.7	--
SVE-8	02/05/15	-61.2	105.2	--
SVE-8	02/13/15	-54.4	104.7	--
SVE-8	02/20/15	-95.2	35.1	--
SVE-8	03/06/15	-102.0	199	--
SVE-8	03/12/15	-68.0	68	--
SVE-8	03/13/15	-68.0	69	--
SVE-8	03/18/15	-102.0	0	0.8
SVE-8	03/27/15	-68.0	94	--
SVE-8	03/27/15	-61.2	70	--
SVE-8	04/02/15	-61.2	68	--
SVE-8	04/06/15	-54.4	0	--
SVE-8	04/15/15	-68.0	80	--
SVE-8	04/23/15	-68.0	69	0.3
SVE-8	04/30/15	-68.0	69	--
SVE-8	05/07/15	-68.0	45	--
SVE-8	05/14/15	-68.0	56	--
SVE-8	05/21/15	-61.2	56	0.0

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-8	05/29/15	-81.6	34	--
SVE-8	06/05/15	-68.0	34	--
SVE-8	06/10/15	-68.0	44	--
SVE-8	06/17/15	-81.6	34	0.6
SVE-8	07/10/15	-68.0	45	--
SVE-8	07/15/15	-68.0	33	--
SVE-8	07/24/15	-68.0	42	0.4
SVE-8	07/30/15	-68.0	33	--
SVE-8	08/07/15	-61.2	45	--
SVE-8	08/13/15	-54.4	33	--
SVE-8	08/21/15	-68.0	33	--
SVE-8	08/28/15	-68.0	34	--
SVE-9	03/09/12	-129.2	13	196.1 ¹
SVE-9	03/09/12	-122.4	15	172.1 ²
SVE-9	03/10/12	-122.4	15	144.5
SVE-9	03/11/12	-122.4	15	131.2
SVE-9	03/16/12	-122.4	15	26.3
SVE-9	03/23/12	-129.2	17	--
SVE-9	03/23/12	-136.0	17	29.7
SVE-9 ³	03/29/12	-95.2	13	--
SVE-9 ⁴	03/29/12	-115.6	17	--
SVE-9	03/30/12	-122.4	17	30.6
SVE-9	04/11/12	-115.6	13	5
SVE-9	04/16/12	-122.4	7	--
SVE-9	04/23/12	-122.4	4	--
SVE-9	04/30/12	-122.4	22	--
SVE-9	05/07/12	-122.4	8	--
SVE-9	05/09/12	-108.8	13	4.3
SVE-9	05/14/12	-108.8	10	--
SVE-9	05/21/12	-108.8	25	--
SVE-9	05/30/12	-108.8	25	--
SVE-9	06/04/12	-108.8	22	--
SVE-9	06/11/12	-108.8	22	--
SVE-9	06/12/12	-108.8	18	6.9
SVE-9	06/14/12	-98.6	17	--
SVE-9	06/18/12	-81.6	12	--
SVE-9	06/25/12	-81.6	14	--
SVE-9	07/02/12	-81.6	12	--
SVE-9	07/09/12	-81.6	15	--
SVE-9	07/10/12	-74.8	17	12
SVE-9	07/16/12	-81.6	15	--
SVE-9	07/23/12	-81.6	15	--
SVE-9	07/30/12	-81.6	13	--
SVE-9	08/06/12	-81.6	12	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-9	08/14/12	-77.5	20	28.9 ⁶
SVE-9	08/20/12	-81.6	15	--
SVE-9	08/27/12	-68.0	15	--
SVE-9	09/04/12	-68.0	15	--
SVE-9	09/10/12	-68.0	15	--
SVE-9	09/12/12	-74.8	14	1.76
SVE-9	09/17/12	-68.0	12	--
SVE-9	09/24/12	-68.0	12	--
SVE-9	10/01/12	-68.0	12	--
SVE-9	10/08/12	-68.0	12	--
SVE-9	10/16/12	-95.2	20	0.2
SVE-9	10/22/12	-95.2	15	--
SVE-9	10/29/12	-95.2	20	--
SVE-9	11/05/12	-95.2	20	--
SVE-9	11/12/12	-95.2	20	--
SVE-9	11/14/12	-95.2	17	0.6
SVE-9	11/19/12	-95.2	17	--
SVE-9	11/26/12	-95.2	17	--
SVE-9	12/03/12	-95.2	15	--
SVE-9	12/10/12	-95.2	17	--
SVE-9	12/14/12	-108.8	18	--
SVE-9	12/17/12	-95.2	20	--
SVE-9	12/18/12	-108.8	17	2.7
SVE-9	01/02/13	--	10	--
SVE-9	01/07/13	-149.5	0	--
SVE-9	01/16/13	-136.0	8	0
SVE-9	01/21/13	-142.7	NM	--
SVE-9	01/28/13	-68.0	NM	--
SVE-9	02/04/13	-163.1	0	--
SVE-9	02/11/13	-95.2	0	--
SVE-9	02/15/13	-95.2	17	11.7
SVE-9	02/18/13	-81.6	NM	--
SVE-9	02/22/13	-115.6	9	--
SVE-9	02/24/13	-136.0	10	--
SVE-9	03/04/13	-108.8	10	--
SVE-9	03/13/13	-95.2	18	8.6
SVE-9	03/18/13	-108.8	24	--
SVE-9	03/25/13	-95.2	25	--
SVE-9	04/01/13	-122.4	18	--
SVE-9	04/02/13	-122.4	25	--
SVE-9	04/04/13	-108.8	23	--
SVE-9	04/09/13	-136.0	23	--
SVE-9	04/15/13	-122.4	18	--
SVE-9	04/16/13	-108.8	25	--
SVE-9	04/18/13	-122.4	22	--
SVE-9	04/19/13	-122.4	20	--

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Table 2
Extraction Well Manifold Monitoring Data

Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-9	04/21/13	-108.8	20	--
SVE-9	04/22/13	-108.8	20	2.7
SVE-9	05/14/13	-82.0	23	10.2
SVE-9	05/20/13	--	23	--
SVE-9	05/28/13	--	27	--
SVE-9	05/30/13	--	26	--
SVE-9	06/04/13	--	23	--
SVE-9	06/10/13	--	23	--
SVE-9	06/12/13	--	23	1.2
SVE-9	06/17/13	--	26	--
SVE-9	06/18/13	--	26	--
SVE-9	06/24/13	--	23	--
SVE-9	07/01/13	--	23	--
SVE-9	07/11/13	-74.8	23	2
SVE-9	07/15/13	-81.6	26	--
SVE-9	07/22/13	-81.6	23	--
SVE-9	07/30/13	-27.2	26	--
SVE-9	08/06/13	-40.8	--	--
SVE-9	08/12/13	-40.8	26	--
SVE-9	08/13/13	-40.8	23	0.6
SVE-9	08/19/13	-34.0	0	--
SVE-9	08/22/13	-40.8	19	--
SVE-9	08/26/13	-27.2	26	--
SVE-9	09/03/13	-13.6	26	--
SVE-9	09/10/13	-40.8	23	2
SVE-9	09/16/13	-27.2	26	--
SVE-9	09/23/13	-27.2	26	--
SVE-9	09/30/13	-27.2	19	--
SVE-9	10/15/13	-17.0	19	0
SVE-9	10/28/13	-27.2	19	--
SVE-9	11/04/13	-27.2	19	--
SVE-9	11/06/13	-13.6	23	1.1
SVE-9	12/02/13	-40.8	27	--
SVE-9	12/09/13	-27.2	27	--
SVE-9	12/11/13	-27.2	24	0.7
SVE-9	12/16/13	-27.2	19	--
SVE-9	12/23/13	-40.8	19	--
SVE-9	12/30/13	-40.8	19	--
SVE-9	01/06/14	-34	24	--
SVE-9	01/13/14	-68	19	--
SVE-9	01/16/14	-54	0	0.8
SVE-9	01/20/14	-54	19	--
SVE-9	01/26/14	-41	24	--
SVE-9	02/10/14	-95	19	--
SVE-9	02/12/14	-109	0	0
SVE-9	02/18/14	-109	19	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-9	02/24/14	-109	27	--
SVE-9	02/25/14	-109	10	--
SVE-9	02/25/14	-109	10	--
SVE-9	02/25/14	-109	10	--
SVE-9	02/27/14	-82	43	--
SVE-9	02/27/14	-54	14	--
SVE-9	03/03/14	-68	23.3	--
SVE-9	03/10/14	-81.6	0	0
SVE-9	03/11/14	-81.6	23.2	--
SVE-9	03/17/14	-68	23.2	--
SVE-9	04/14/14	-68	23.2	--
SVE-9	04/22/14	-54.4	23.1	--
SVE-9	04/29/14	-68	46.2	--
SVE-9	05/05/14	-54.4	45.9	--
SVE-9	05/12/14	-54.4	45.4	--
SVE-9	05/13/14	-54.4	22.8	0
SVE-9	05/14/14	-54.4	45.8	--
SVE-9	05/27/14	-40.8	34.1	--
SVE-9	06/02/14	-68	45.2	--
SVE-9	06/11/14	-17	15.9	0
SVE-9	06/16/14	-40.8	34	--
SVE-9	06/23/14	-54.4	22.6	--
SVE-9	07/07/14	-40.8	33.9	--
SVE-9	07/16/14	-27.2	28.4	0
SVE-9	07/21/14	-40.8	45.2	--
SVE-9	07/25/14	-40.8	34	--
SVE-9	08/04/14	-54.4	45.4	--
SVE-9	08/11/14	-54.4	44.5	--
SVE-9	08/13/14	-34	33.9	2.5
SVE-9	08/18/14	-54.4	45	--
SVE-9	08/29/14	-54.4	45.3	--
SVE-9	09/08/14	-54.4	44.9	--
SVE-9	09/15/14	-40.8	56.9	--
SVE-9	09/17/14	-27.2	34.1	0.2
SVE-9	10/01/14	-34	34.1	--
SVE-9	10/10/14	-54.4	22.7	--
SVE-9	10/15/14	-54.4	34.2	26.8
SVE-9	11/04/14	-27.2	34.4	--
SVE-9	11/12/14	-68	23	0.2
SVE-9	11/21/14	-40.8	46.3	--
SVE-9	11/24/14	-61.2	46.3	--

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-9	12/03/14	-40.8	23.2	--
SVE-9	12/16/14	-102	34.7	0.1
SVE-9	01/15/15	-27.2	46.5	--
SVE-9	01/22/15	-20.4	46.5	0.4
SVE-9	01/30/15	-6.8	34.9	--
SVE-9	02/05/15	-13.6	35.1	--
SVE-9	02/13/15	-54.4	46.5	--
SVE-9	02/20/15	-27.2	0	--
SVE-9	03/06/15	-88.4	12	--
SVE-9	03/12/15	-68.0	11	--
SVE-9	03/13/15	-13.6	11	--
SVE-9	03/18/15	-68.0	0	1.5
SVE-9	03/27/15	-40.8	35	--
SVE-9	03/27/15	-27.2	23	--
SVE-9	04/02/15	-34.0	23	--
SVE-9	04/06/15	-54.4	23	--
SVE-9	04/15/15	-54.4	23	--
SVE-9	04/23/15	-40.8	23	0.5
SVE-9	04/30/15	-61.2	23	--
SVE-9	05/07/15	-61.2	22	--
SVE-9	05/14/15	-40.8	22	--
SVE-9	05/21/15	-40.8	22	1.2
SVE-9	05/29/15	-61.2	23	--
SVE-9	06/05/15	-54.4	34	--
SVE-9	06/10/15	-81.6	22	--
SVE-9	06/17/15	-74.8	34	2.0
SVE-9	07/10/15	-34.0	34	--
SVE-9	07/15/15	-68.0	33	--
SVE-9	07/24/15	-66.6	31	0.7

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**Table 2
Extraction Well Manifold Monitoring Data**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Well ID	Date	System Manifold		
		Vacuum (in H ₂ O)	Flow Rate (cfm)	VOCs (ppm)
SVE-9	07/30/15	-68.0	33	--
SVE-9	08/07/15	-34.0	22	--
SVE-9	08/13/15	-61.2	33	--
SVE-9	08/21/15	-54.4	33	--
SVE-9	08/28/15	-34.0	34	--

General Notes:

Start system at 1:15 pm on March 9, 2012.
 Vacuum measured with inline vacuum gauge in units of in Hg. Vacuum converted to in H₂O for comparison.
 Extraction well flow rate measured with inline air flow meter.
 VOCs measured with a PID (calibrated to 100 ppm isobutylene).
 System flow and vacuum variable due to freezing conditions at the influent lines starting 1/7/2013. System flow balanced by opening make-up air valve.
 Interim system was shut down 4/29/2013. The permanent SVE system was started 5/13/2013.
 Initial permanent system readings recorded 5/14/2013 after optimization.
 The combined SVE and GETS system started operating 7/14/2015.

Acronyms and Abbreviations:

- ¹ = Vacuum measured at well head at 12:55 pm.
- ² = Vacuum measured at well head at 5:30 pm.
- ³ = System restarted with make-up air valve open 100 percent to reduce backpressure on blower.
- ⁴ = Make-up air valve closed to 50% open to continue operation of system consistent with previous settings.
- ⁵ = Vacuum measured at well head indicates influence is still being achieved at this well.
- ⁶ = PID results were analyzed from tedlar bag approximately 4 hours after collection due to instrument malfunction.
- ⁷ = Gauge reading above calibrated range.
- = Not monitored.
- cfm = Cubic feet per minute.
- GETS = Groundwater extraction system.
- in Hg = Inches of mercury.
- in H₂O = Inches of water column.
- NM = Not measured.
- PID = Photoionization detector.
- ppm = Parts per million.
- SVE = Soil vapor extraction.
- VOCs = Volatile organic compounds reported as isobutylene.

**Table 3
Estimate of Post-Carbon Emissions**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Date	Total VOC Concentration ¹	System Flow Rate	Emission Rate ²
	µg/m ³	cfm	lb/hr
3/9/2012 ³	16.03	450	--
3/10/2012	43.89	450	7.39E-05
3/11/2012	47.07	450	7.93E-05
3/16/2012	154.42	450	2.60E-04
3/23/2012	418.29	450	7.05E-04
3/30/2012 ⁴	887.68	450	1.50E-03
4/11/2012	101.77	450	1.71E-04
5/9/2012	1,250.95	450	2.11E-03
6/12/2012	775.20	450	1.31E-03
7/10/2012	395.50	450	6.66E-04
8/14/2012	596.70	450	1.01E-03
9/16/2012	514.65	450	8.67E-04
10/16/2012 ⁴	495.70	450	8.35E-04
11/14/2012 ⁴	1,453.20	275	1.50E-03
12/18/2012 ⁴	425.11	275	4.38E-04
1/16/2013	445.23	275	4.58E-04
2/15/2013	148.94	275	1.53E-04
3/13/2013	241.10	275	2.48E-04
4/23/2013	266.75	275	2.75E-04
5/14/2013	328.10	192	2.36E-04
6/13/2013	1,057.40	223	8.83E-04
7/15/2013	64.41	223	5.38E-05
8/13/2013	35.29	222	2.93E-05
9/10/2013	20.11	230	1.73E-05
10/15/2013	451.02	230	3.88E-04
11/6/2013	103.16	225	8.69E-05
12/11/2013	732.35	241	6.61E-04
1/16/2014	252.13	245	2.31E-04
2/12/2014	32.09	184	2.21E-05
3/10/2014	158.04	218	1.29E-04
4/10/2014	206.14	236	1.82E-04
5/13/2014	314.25	232	2.73E-04
6/11/2014	230.28	235	2.03E-04
7/16/2014	550.70	235	4.84E-04
8/13/2014	1,169.75	235	1.03E-03
9/17/2014	4,369.50	237	3.88E-03
10/16/2014	746.00	230	6.42E-04
11/12/2014	398.80	236	3.52E-04
12/16/2014	469.25	231	4.06E-04
1/22/2015	279.85	233	2.44E-04
2/20/2015	270.05	238	2.41E-04
3/18/2015	382.2	231	3.30E-04
4/23/2015	834.6	242	7.56E-04
5/21/2015	1,139.0	235	1.00E-03
6/17/2015	2,570.1	235	2.26E-03

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**Table 3
Estimate of Post-Carbon Emissions**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Date	Total VOC Concentration ¹	System Flow Rate	Emission Rate ²
	µg/m ³	cfm	lb/hr
7/14/2015	7,224.1	235	6.35E-03
7/15/2015	8,481.5	235	7.46E-03
7/16/2015	1,143.0	235	1.01E-03
7/24/2015	585.0	403	8.82E-04
7/30/2015	741.4	415	1.15E-03
8/5/2015	1,007.7	436	1.64E-03
8/13/2015	898.1	415	1.40E-03

Average Emission Rate = 9.32E-04

NR 445 Emission Threshold = 5.7

General Notes:

¹ = Total VOC concentration was based on the sum of all detected analyte concentrations in post-carbon effluent samples for dates shown. When compounds are not detected above the laboratory reporting limit, emissions are calculated using 1/2 the reporting limit.

² = Emission rates were determined using the following equation:

$$\text{Emission Rate} = \text{Conc.} * \text{Flow Rate} * 60 \text{ min/hr} * (1 \text{ m}^3/35.31 \text{ ft}^3) * (1 \text{ lb}/4.54 \times 10^8 \text{ } \mu\text{g})$$

³ = SVE system began operation on 3/9/2012.

⁴ = System flow rate optimized 10/16/2012 by closing make-up air valve.

Interim system was shut down 4/29/2013. The permanent system was started 5/13/2013.

The initial permanent system sample was collected 5/14/2013 after system optimization.

The combined SVE and GETS system started operating 7/14/2015.

Acronyms and Abbreviations:

cfm = Cubic feet per minute.

lb/hr = Pounds per hour.

µg/m³ = Micrograms per cubic meter.

VOCs = Volatile organic compound.

SVE = Soil vapor extraction.

GETS = Groundwater extraction and treatment system.

Table 4
Estimate of Post-Carbon Emissions of Tetrachloroethene

Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin

Date	Total PCE Concentration ¹	System Flow Rate	Emission Rate ²	Percent of NR 445 Emission Threshold ⁴
	µg/m ³	cfm	lb/hr	%
3/9/2012 ³	0.19	450	--	--
3/10/2012	0.38	450	6.32E-07	1.78E-06
3/11/2012	0.38	450	6.32E-07	1.78E-06
3/16/2012	93	450	1.57E-04	4.42E-04
3/23/2012	260	450	4.38E-04	1.24E-03
3/30/2012	660	450	1.11E-03	3.14E-03
4/11/2012	1.1	450	1.85E-06	5.23E-06
5/9/2012	240	450	4.04E-04	1.14E-03
6/12/2012	4.7	450	7.92E-06	2.24E-05
7/10/2012	1.4	450	2.27E-06	6.42E-06
8/14/2012	3.4	450	5.73E-06	1.62E-05
9/16/2012	13	450	2.19E-05	6.19E-05
10/16/2012 ⁵	280	450	4.72E-04	1.33E-03
11/14/2012 ⁵	1200	275	1.24E-03	3.49E-03
12/18/2012 ⁵	240	275	2.47E-04	6.98E-04
1/16/2013	280	275	2.88E-04	8.14E-04
2/15/2013	30	275	3.09E-05	8.72E-05
3/13/2013	74	275	7.62E-05	2.15E-04
4/23/2013	4	275	4.32E-06	1.22E-05
5/14/2013	280	192	2.01E-04	5.68E-04
6/13/2013	920	223	7.68E-04	2.17E-03
7/15/2013	15	223	1.21E-05	3.42E-05
8/13/2013	4	222	3.37E-06	9.51E-06
9/10/2013	4	230	3.49E-06	9.85E-06
10/15/2013	250	230	2.15E-04	6.08E-04
11/6/2013	10	225	8.42E-06	2.38E-05
12/11/2013	480	241	4.33E-04	1.22E-03
1/16/2014	130	245	1.19E-04	3.37E-04
2/12/2014	18	184	1.24E-05	3.50E-05
3/10/2014	87	218	7.10E-05	2.01E-04
4/10/2014	110	236	9.72E-05	2.74E-04
5/13/2014	150	232	1.30E-04	3.68E-04
6/11/2014	5	235	4.31E-06	1.22E-05
7/16/2014	20	235	1.76E-05	4.97E-05
8/13/2014	3	235	2.77E-06	7.83E-06
9/17/2014	17	237	1.51E-05	4.26E-05
10/16/2014	9	230	7.32E-06	2.07E-05
11/12/2014	76	236	6.71E-05	1.90E-04
12/16/2014	88	231	7.61E-05	2.15E-04
1/22/2015	65	233	5.67E-05	1.60E-04
2/20/2015	3	238	2.32E-06	6.54E-06
3/18/2015	35	231	4.75E-04	1.34E-03
4/23/2015	100	242	7.43E-04	2.10E-03
5/21/2015	35	235	1.20E-03	3.40E-03
6/17/2015	85	235	7.47E-05	2.11E-04
7/14/2015	5,400	235	4.75E-03	1.34E-02

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Table 4
Estimate of Post-Carbon Emissions of Tetrachloroethene

Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin

Date	Total PCE Concentration ¹	System Flow Rate	Emission Rate ²	Percent of NR 445 Emission Threshold ⁴
	µg/m ³	cfm	lb/hr	%
7/15/2015	6,500	235	5.72E-03	1.62E-02
7/16/2015	860	235	7.56E-04	2.14E-03
7/24/2015	400	403	6.03E-04	1.70E-03
7/30/2015	500	568	1.06E-03	3.00E-03
8/5/2015	690	436	1.13E-03	3.18E-03
8/13/2015	710	415	1.10E-03	3.12E-03

Average Emission Rate = 4.79E-04 lb/hr

NR 445 Emission Threshold = 35.4 lb/hr

General Notes:

¹ = VOC concentration was based on the detected analyte concentration in post-carbon effluent samples for dates shown. When compound was not detected above the laboratory reporting limit, emissions were calculated using 1/2 the reporting limit.

² = Emission rates were determined using the following equation:

³ = SVE system began Emission Rate = Conc. * Flow Rate * 60 min/hr * (1 m³/35.31 ft³) * (1 lb/4.54x10⁸ µg)

⁴ = Post-carbon emissions presented as a percentage of the threshold level using the following equation:

⁵ = System flow rate opt Percent of Threshold = (Emission rate / NR 445 Emission Threshold) * 100

System flow variable due to freezing conditions at the influent lines starting 1/7/2013. System flow balanced by opening make-up air valve.

Interim system was shut down 4/29/2013. The permanent system was started 5/13/2013.

The initial permanent system sample was collected 5/14/2013 after system optimization.

The combined SVE and GETS system started operating 7/14/2015.

Acronyms and Abbreviations:

lb/yr = Pounds per year.

lb/hr = Pounds per hour.

µg/m³ = Micrograms per cubic meter.

VC = Vinyl Chloride.

SVE = Soil vapor extraction.

GETS = Groundwater extraction and treatment system.

Table 5
Estimate of Post-Carbon Emissions of Trichloroethene

Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin

Date	Total TCE Concentration ¹	System Flow Rate	Emission Rate ²	Percent of NR 445 Emission Threshold ⁴
	µg/m ³	cfm	lb/hr	%
3/9/2012 ³	0.41	450	--	--
3/10/2012	0.80	450	1.35E-06	2.40E-06
3/11/2012	0.80	450	1.35E-06	2.40E-06
3/16/2012	1.1	450	1.85E-06	3.30E-06
3/23/2012	6.5	450	1.09E-05	1.95E-05
3/30/2012	24	450	4.04E-05	7.21E-05
4/11/2012	0.3	450	5.56E-07	9.91E-07
5/9/2012	16	450	2.69E-05	4.80E-05
6/12/2012	47	450	7.92E-05	1.41E-04
7/10/2012	19	450	3.20E-05	5.70E-05
8/14/2012	41	450	6.91E-05	1.23E-04
9/16/2012	43	450	7.24E-05	1.29E-04
10/16/2012 ⁵	27	450	4.55E-04	8.11E-04
11/14/2012 ⁵	59	275	6.07E-04	1.08E-03
12/18/2012 ⁵	21	275	2.16E-04	3.85E-04
1/16/2013	25	275	2.57E-04	4.59E-04
2/15/2013	4	275	4.53E-05	8.07E-05
3/13/2013	7	275	7.20E-05	1.28E-04
4/23/2013	7	275	7.10E-05	1.27E-04
5/14/2013	10	192	7.19E-05	1.28E-04
6/13/2013	40	223	3.34E-04	5.95E-04
7/15/2013	1	223	4.59E-06	8.18E-06
8/13/2013	1	222	4.57E-06	8.15E-06
9/10/2013	1	230	4.73E-07	8.44E-07
10/15/2013	17	230	1.46E-05	2.61E-05
11/6/2013	1	225	1.01E-06	1.80E-06
12/11/2013	32	241	2.89E-05	5.15E-05
1/16/2014	10	245	9.08E-06	1.62E-05
2/12/2014	2	184	1.52E-06	2.70E-06
3/10/2014	11	218	8.98E-06	1.60E-05
4/10/2014	9	236	7.51E-06	1.34E-05
5/13/2014	8	232	7.29E-06	1.30E-05
6/11/2014	1	235	1.23E-06	2.19E-06
7/16/2014	5	235	4.57E-06	8.15E-06
8/13/2014	3	235	2.20E-06	3.92E-06
9/17/2014	37	237	3.28E-05	5.85E-05
10/16/2014	15	230	1.29E-05	2.30E-05
11/12/2014	33	236	2.91E-05	5.20E-05
12/16/2014	14	231	1.21E-05	2.16E-05
1/22/2015	14	233	1.22E-05	2.18E-05
2/20/2015	4	238	3.92E-06	6.99E-06
3/18/2015	2	231	1.95E-06	3.47E-06
4/23/2015	46	242	4.17E-05	7.43E-05
5/21/2015	49	235	4.31E-05	7.68E-05
6/17/2015	87	235	7.64E-05	1.36E-04

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Table 5
Estimate of Post-Carbon Emissions of Trichloroethene

Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin

Date	Total TCE Concentration ¹	System Flow Rate	Emission Rate ²	Percent of NR 445 Emission Threshold ⁴
	µg/m ³	cfm	lb/hr	%
7/14/2015	700	235	6.16E-04	1.10E-03
7/15/2015	810	537	1.63E-03	2.90E-03
7/16/2015	100	235	8.80E-05	1.57E-04
7/24/2015	55	396	8.15E-05	1.45E-04
7/30/2015	76	410	1.17E-04	2.08E-04
8/5/2015	81	436	1.32E-04	2.36E-04
8/13/2015	42	415	6.53E-05	1.16E-04

Average Emission Rate = 1.09E-04 lb/hr

NR 445 Emission Threshold = 56.1 lb/hr

General Notes:

¹ = VOC concentration was based on the detected analyte concentration in post-carbon effluent samples for dates shown. When compound was not detected above the laboratory reporting limit, emissions were calculated using 1/2 the reporting limit.

² = Emission rates were determined using the following equation:

$$\text{Emission Rate} = \text{Conc.} * \text{Flow Rate} * 60 \text{ min/hr} * (1 \text{ m}^3/35.31 \text{ ft}^3) * (1 \text{ lb}/4.54 \times 10^8 \text{ } \mu\text{g})$$

³ = SVE system began operation on 3/9/2012.

⁴ = Post-carbon emissions presented as a percentage of the threshold level using the following equation:

$$\text{Percent of Threshold} = (\text{Emission rate} / \text{NR 445 Emission Threshold}) * 100$$

⁵ = System flow rate optimized 10/16/2012 by closing make-up air valve.

System flow variable due to freezing conditions at the influent lines starting 1/7/2013. System flow balanced by opening make-up air valve.

Interim system was shut down 4/29/2013. The permanent system was started 5/13/2013.

The initial permanent system sample was collected 5/14/2013 after system optimization.

The combined SVE and GETS system started operating 7/14/2015.

Acronyms and Abbreviations:

lb/yr = Pounds per year.

lb/hr = Pounds per hour.

µg/m³ = Micrograms per cubic meter.

VC = Vinyl Chloride.

SVE = Soil vapor extraction.

GETS = Groundwater extraction and treatment system.

Table 6
Estimate of Post-Carbon Emissions of Cis-1,2-Dichloroethene

Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin

Date	Total cis-1,2-DCE Concentration ¹	System Flow Rate	Emission Rate ²	Percent of NR 445 Emission Threshold ³
	µg/m ³	cfm	lb/hr	%
3/9/2012	0.14	450	--	--
3/10/2012	0.28	450	4.72E-07	2.84E-07
3/11/2012	0.28	450	4.72E-07	2.84E-07
3/16/2012	2.0	450	3.37E-06	2.03E-06
3/23/2012	57	450	9.60E-05	5.78E-05
3/30/2012	69	450	1.16E-04	7.00E-05
4/11/2012	75	450	1.26E-04	7.61E-05
5/9/2012	930	450	1.57E-03	9.44E-04
6/12/2012	720	450	1.21E-03	7.31E-04
7/10/2012	260	450	4.38E-04	2.64E-04
8/14/2012	460	450	7.75E-04	4.67E-04
9/16/2012	420	450	7.07E-04	4.26E-04
10/16/2012 ⁴	170	450	2.86E-04	1.72E-04
11/14/2012 ⁴	130	275	1.34E-04	8.06E-05
12/18/2012 ⁴	130	275	1.34E-04	8.06E-05
1/16/2013	110	275	1.13E-04	6.82E-05
2/15/2013	90	275	9.26E-05	5.58E-05
3/13/2013	100	275	1.03E-04	6.20E-05
4/23/2013	240	275	2.47E-04	1.49E-04
5/14/2013	8	192	5.46E-06	3.29E-06
6/13/2013	24	223	2.00E-05	1.21E-05
7/15/2013	0.4	223	3.30E-07	1.99E-07
8/13/2013	0.4	222	3.28E-07	1.98E-07
9/10/2013	20	230	1.73E-05	1.04E-05
10/15/2013	451	230	3.88E-04	2.34E-04
11/6/2013	79	225	6.65E-05	4.01E-05
12/11/2013	58	241	5.23E-05	3.15E-05
1/16/2014	92	245	8.44E-05	5.08E-05
2/12/2014	3	184	1.72E-06	1.04E-06
3/10/2014	26	218	2.12E-05	1.28E-05
4/10/2014	13	236	1.15E-05	6.92E-06
5/13/2014	42	232	3.65E-05	2.20E-05
6/11/2014	180	235	1.58E-04	9.54E-05
7/16/2014	460	235	4.05E-04	2.44E-04
8/13/2014	1,100	235	9.68E-04	5.83E-04
9/17/2014	4,000	237	3.55E-03	2.14E-03
10/16/2014	580	230	4.99E-04	3.01E-04
11/12/2014	240	236	2.12E-04	1.28E-04
12/16/2014	310	231	2.68E-04	1.61E-04
1/22/2015	140	233	1.22E-04	7.35E-05
2/20/2015	210	238	1.87E-04	1.13E-04
3/18/2015	290	231	2.51E-04	1.51E-04
4/23/2015	630	242	5.71E-04	3.44E-04
5/21/2015	1,000	235	8.80E-04	5.30E-04
6/17/2015	2,300	235	2.02E-03	1.22E-03
7/14/2015	890	235	7.83E-04	4.72E-04

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Table 6
Estimate of Post-Carbon Emissions of Cis-1,2-Dichloroethene

Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin

Date	Total cis-1,2-DCE Concentration ¹	System Flow Rate	Emission Rate ²	Percent of NR 445 Emission Threshold ³
	µg/m ³	cfm	lb/hr	%
7/15/2015	1,000	235	8.80E-04	5.30E-04
7/16/2015	140	235	1.23E-04	7.42E-05
7/24/2015	79	396	1.17E-04	7.05E-05
7/30/2015	120	410	1.84E-04	1.11E-04
8/5/2015	120	436	1.96E-04	1.18E-04
8/13/2015	51	415	7.93E-05	4.78E-05

Average Emission Rate = 3.79E-04 lb/hr

NR 445 Emission Threshold = 166 lb/hr

General Notes:

¹ = VOC concentration was based on the detected analyte concentration in post-carbon effluent samples for dates shown. When compound was not detected above the laboratory reporting limit, emissions were calculated using 1/2 the reporting limit.

² = Emission rates were determined using the following equation:

$$\text{Emission Rate} = \text{Conc.} * \text{Flow Rate} * 60 \text{ min/hr} * (1 \text{ m}^3/35.31 \text{ ft}^3) * (1 \text{ lb}/4.54 \times 10^8 \text{ } \mu\text{g})$$

³ = Post-carbon emissions presented as a percentage of the threshold level using the following equation:

$$\text{Percent of Threshold} = (\text{Emission rate} / \text{NR 445 Emission Threshold}) * 100$$

⁴ = System flow rate optimized 10/16/2012 by closing make-up air valve.

System flow variable due to freezing conditions at the influent lines starting 1/7/2013. System flow balanced by opening make-up air valve.

Interim system was shut down 4/29/2013. The permanent system was started 5/13/2013.

The initial permanent system sample was collected 5/14/2013 after system optimization.

The combined SVE and GETS system started operating 7/14/2015.

Acronyms and Abbreviations:

lb/yr = Pounds per year.

lb/hr = Pounds per hour.

µg/m³ = Micrograms per cubic meter.

VC = Vinyl Chloride.

SVE = Soil vapor extraction.

GETS = Groundwater extraction and treatment system.

Table 7
Estimate of Post-Carbon Emissions of Vinyl Chloride

Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin

Date	Total VC Concentration ¹	System Flow Rate	Emission Rate ²	Emission Rate ²	Percent of NR 445 Emission Threshold ⁴
	µg/m ³	cfm	lb/hr	lb/yr	%
3/9/2012 ³	0.19	450	--	--	--
3/10/2012	27	450	4.55E-05	0.398	0.05
3/11/2012	34	450	5.73E-05	0.502	0.06
3/16/2012	45	450	7.58E-05	0.664	0.08
3/23/2012	84	450	1.41E-04	1.239	0.15
3/30/2012	79	450	1.33E-04	1.166	0.14
4/11/2012	19	450	3.20E-05	0.280	0.03
5/9/2012	8	450	1.30E-05	0.114	0.01
6/12/2012	4	450	5.89E-06	0.052	0.01
7/10/2012	6	450	1.01E-05	0.089	0.01
8/14/2012	4	450	6.74E-06	0.059	0.01
9/16/2012	5	450	7.58E-06	0.066	0.01
10/16/2012 ⁵	2	450	3.20E-06	0.028	0.00
11/14/2012 ⁵	11	275	1.13E-05	0.099	0.01
12/18/2012 ⁵	15	275	1.54E-05	0.135	0.02
1/16/2013	11	275	1.13E-05	0.099	0.01
2/15/2013	12	275	1.24E-05	0.108	0.01
3/13/2013	7	275	7.00E-06	0.061	0.01
4/23/2013	2	275	1.65E-06	0.014	0.00
5/14/2013	1	192	7.90E-07	0.007	0.00
6/13/2013	1	222	1.08E-06	0.009	0.00
7/15/2013	1	223	1.17E-06	0.010	0.00
8/13/2013	1	222	1.08E-06	0.009	0.00
9/10/2013	3	230	2.67E-06	0.023	0.00
10/15/2013	1	230	1.21E-06	0.011	0.00
11/6/2013	2	225	1.35E-06	0.012	0.00
12/11/2013	4	241	3.16E-06	0.028	0.00
1/16/2014	11	245	1.01E-05	0.088	0.01
2/12/2014	0	184	1.76E-07	0.002	0.00
3/10/2014	22	218	1.80E-05	0.157	0.02
4/10/2014	1	236	9.72E-07	0.009	0.00
5/13/2014	1	232	7.81E-07	0.007	0.00
6/11/2014	1	235	7.39E-07	0.006	0.00
7/16/2014	1	235	1.06E-06	0.009	0.00
8/13/2014	1	235	1.06E-06	0.009	0.00
9/17/2014	7	237	5.77E-06	0.051	0.01
10/16/2014	3	230	2.45E-06	0.021	0.00
11/12/2014	1	236	8.83E-07	0.008	0.00
12/16/2014	1	231	9.51E-07	0.008	0.00
1/22/2015	1	233	8.28E-07	0.007	0.00
2/20/2015	1	238	8.46E-07	0.007	0.00
3/18/2015	1	231	9.08E-07	0.008	0.00
4/23/2015	1	242	9.96E-07	0.009	0.00
5/21/2015	1	235	9.68E-07	0.008	0.00
6/17/2015	2	235	1.71E-06	0.015	0.00

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**Table 7
Estimate of Post-Carbon Emissions of Vinyl Chloride**

**Soil Vapor Extraction System Progress Report
Madison-Kipp Corporation
Madison, Wisconsin**

Date	Total VC Concentration ¹	System Flow Rate	Emission Rate ²	Emission Rate ²	Percent of NR 445 Emission Threshold ⁴
	µg/m ³	cfm	lb/hr	lb/yr	%
7/14/2015	10	235	8.44E-06	0.074	0.01
7/15/2015	4	537	7.03E-06	0.062	0.01
7/16/2015	1	235	7.92E-07	0.007	0.00
7/24/2015	12	396	1.78E-05	0.156	0.02
7/30/2015	45	410	6.90E-05	0.605	0.07
8/5/2015	64	436	1.04E-04	0.915	0.11
8/13/2015	44	415	6.84E-05	0.599	0.07

Average Emission Rate = -- 0.159

NR 445 Emission Threshold = -- 830

General Notes:

¹ = VOC concentration was based on the detected analyte concentration in post-carbon effluent samples for dates shown. When compound was not detected above the laboratory reporting limit, emissions were calculated using 1/2 the reporting limit.

² = Emission rates were determined using the following equation:

$$\text{Emission Rate} = \text{Conc.} * \text{Flow Rate} * 60 \text{ min/hr} * (1 \text{ m}^3/35.31 \text{ ft}^3) * (1 \text{ lb}/4.54 \times 10^8 \text{ } \mu\text{g}) * 24 \text{ hr/day} * 365 \text{ days/yr}$$

³ = SVE system began operation on 3/9/2012.

⁴ = Post-carbon emissions presented as a percentage of the threshold level using the following equation:

$$\text{Percent of Threshold} = (\text{Emission rate} / \text{NR 445 Emission Threshold}) * 100$$

⁵ = System flow rate optimized 10/16/2012 by closing make-up air valve.

System flow variable due to freezing conditions at the influent lines starting 1/7/2013. System flow balanced by opening make-up air valve.

Interim system was shut down 4/29/2013. The permanent system was started 5/13/2013.

The initial permanent system sample was collected 5/14/2013 after system optimization.

The combined SVE and GETS system started operating 7/14/2015.

Acronyms and Abbreviations:

lb/yr = Pounds per year.

lb/hr = Pounds per hour.

µg/m³ = Micrograms per cubic meter.

VC = Vinyl Chloride.

SVE = Soil vapor extraction.

GETS = Groundwater extraction and treatment system.