

David Mosher
Waste Water Specialist
Wisconsin Department of Natural Resources
South Central Region
3911 Fish Hatchery Rd
Fitchburg WI 53711

Subject:

Discharge Monitoring Report – In-Situ Chemical Oxidation Groundwater Pilot Test, Madison-Kipp Corporation (MKC) Site, 201 Waubesa Street, Madison, Wisconsin.

Dear Mr. Mosher:

On behalf of MKC, this letter summarizes the activities completed from February 1 through February 28, 2013 as part of the in-situ chemical oxidation (ISCO) Pilot Test at the MKC site located at 201 Waubesa Street in Madison, Wisconsin (site) under Wisconsin Pollution Discharge Elimination System (WPDES) Permit WI-0046566-6 and the Temporary Exemption for the Injection of a Remedial Material to Groundwater under Chapter NR 140, Wisconsin Administrative Code (Wis. Adm. Code), and Injection Approval under Chapter NR 812.05, Wis. Adm. Code. A discharge monitoring report form is attached, Attachment A, for the post-injection monitoring events completed during the reporting period. Only post-injection monitoring activities were completed during the reporting period. A summary of monitoring activities completed through February 28, 2013 is presented below.

Pilot Test Post-Injection Monitoring

Post-injection monitoring was completed in accordance with the approved work plan the weeks of February 11 and February 25, 2013. The second full round of groundwater performance monitoring was conducted the week of February 11, 2013 (9 weeks post-injection). This event included water level gauging and collection of groundwater samples from Monitoring Wells MW-18S, MW-19D/19D2, MW-20D/20D2, and MW-21D/21D2, MP-13 all intervals, and the MW-3 and MW-5 series wells for laboratory analysis using low-flow sampling techniques. Low flow samples collected from the middle of the screen are designated with a “MS” in Table 1. This sample method was used for consistency with the site-wide sampling methodology. Groundwater samples collected during this event were analyzed for: Volatile organic compounds (VOCs), total metals (arsenic, chromium, manganese, and iron), dissolved metals (Resource Conservation & Recovery Act [RCRA] metals, manganese, and iron), total organic carbon, total dissolved solids, chloride, bromide,

Imagine the result

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ENVIRONMENT

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Our ref:
WI001283.0006

and deuterium. During the performance monitoring event, grab samples were also collected from the screen interval determined to have the highest conductivity (i.e., strongest breakthrough response) based on the vertical conductivity profile at monitoring wells exhibiting sodium permanganate influence (as designated by color). Samples from the highest conductivity interval are noted with a "HC" in Table 1. HC samples were collected to remain consistent with the injection and tracer monitoring methods. Samples were analyzed for VOCs, bromide, chloride, and deuterium. If no conductivity variation was observed during the conductivity profile, only one sample was collected from the middle of the screen.

Tracer monitoring was completed the week of February 25, 2013, at Monitoring Wells MW-18S, MW-19D/19D2, MW-20D/20D2, MW-21D/21D2, and the MW-3 series wells only. Groundwater samples collected during this event were analyzed for chloride, bromide, and deuterium.

During the performance and tracer monitoring events, water level and field groundwater quality parameters (pH, temperature, dissolved oxygen, and conductivity) were collected at each well when using low-flow sampling techniques. Each monitoring event included a vertical profile of the screen interval to evaluate differences in conductivity before collecting grab or low-flow samples.

Post-injection monitoring will continue on a monthly basis as presented in the *Implementation Summary and Recommendations - In-Situ Chemical Oxidation Groundwater Pilot Test* dated February 15, 2012. The remaining post-injection monitoring activities include monthly groundwater performance monitoring to be completed at Monitoring Wells MW-18S, MW-19D/19D2, MW-20D/20D2, and MW-21D/21D2, and the MW-3 series wells. Groundwater samples collected during this event may be analyzed for VOCs, total metals (arsenic, chromium, manganese, and iron), dissolved metals (RCRA metals, manganese, and iron), chloride, bromide, and deuterium. During this period, monitoring frequency and analytes may be modified to support data assessment and evaluation. This monitoring will be used to evaluate the pilot test effectiveness, treatment performance, and guide remedial design.

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

Sincerely,

ARCADIS U.S., Inc.

Rebecca A Robbennolt

Rebecca Robbennolt
Remediation Specialist

Jennine L. Trask

Jennine L. Trask, PE
Project Manager

Table:

1 ISCO Pilot Test Groundwater Analytical Data.

Attachment:

Attachment A Discharge Monitoring Report Form

Copies:

David Crass – Michael Best
Mark Meunier – Madison Kipp
Mike Schmoller – WDNR (electronic)

Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well			IW-1S	IW-2D	IW-2D2	MP-13					
	Sample Depth		MS	MS	MS	44-48'	44-48'	44-48'	67-71'	67-71'	67-71'
Sample Date	ES	PAL	11/29/12	11/29/12	11/29/12	12/06/12	01/19/13	02/21/13	12/06/12	01/19/13	02/21/13
VOC (µg/L)											
1,1,1,2-Tetrachloroethane	70	7	<0.5	<0.5	<0.5	<0.25	<0.25	<0.25	<1.3	<1.3	<1.3
1,1,2-Trichloroethane	5	0.5	<0.56	<0.56	<0.56	<0.28	<0.28	<0.28	<1.4	<1.4	<1.4
1,1-Dichloroethene	7	0.7	<0.62	<0.62	<0.62	0.92 J	1.1	0.88 J	2.8 J	3.1 J	<1.6
Benzene	5	0.5	0.71 J	<0.15	<0.15	0.34 J	0.38 J	0.32 J	<0.37	1.1 J	<0.37
Bromoform	4.4	0.44	<0.56	<0.56	<0.56	<0.28	<0.28	<0.28	<1.4	<1.4	<1.4
Bromomethane	10	1	<0.62	<0.62	<0.62	<0.31	<0.31	<0.31	<1.6	<1.6	<1.6
Carbon tetrachloride	5	0.5	<0.52	<0.52	<0.52	<0.26	<0.26	<0.26	<1.3	<1.3	<1.3
Chloroform	6	0.6	1.9 J	<0.4	<0.4	<0.2	<0.2	<0.2	<1	<1	<1
Chloromethane	30	3	<0.36	<0.36	<0.36	<0.18	<0.18	<0.18	<0.9	<0.9	<0.9
cis-1,2-Dichloroethene	70	7	67	400	390	540	450	460	3,500	3,100	2,900
Dibromochloromethane	60	6	<0.64	<0.64	<0.64	<0.32	<0.32	<0.32	<1.6	<1.6	<1.6
Ethylbenzene	700	140	<0.26	6.5	1.6	<0.13	<0.13	<0.13	<0.65	<0.65	<0.65
Methylene Chloride	5	0.5	<1.4	<1.4	<1.4	<0.68	<0.68	<0.68	<3.4	<3.4	<3.4
Naphthalene	100	10	<0.32	<0.32	<0.32	<0.16	<0.16	<0.16	<0.8	<0.8	<0.8
Tetrachloroethene	5	0.5	1,200	1,500	1,300	640	760	630	3,800	4,300	2,900
Toluene	800	160	<0.22	1.1	0.45 J	<0.11	<0.11	<0.11	<0.55	<0.55	<0.55
trans-1,2-Dichloroethene	100	20	3.4	5.4	5.2	7.3	6.7	6.1	60	56	48
Trichloroethene	5	0.5	100	180	170	230	200	220	1,100	1,000	800
Vinyl chloride	0.2	0.02	<0.2	2.6	2.6	15	17	17	150	180	140
Xylenes, Total	2,000	400	<0.14	25	7.2	<0.068	<0.068	<0.068	<0.34	<0.34	<0.34
Total Metals (µg/L)											
Arsenic	10	1	0.58 J	0.30 J	0.50 J	0.21 J	0.20 J	0.20 J	0.16 J	0.17 J	<0.15
Barium	2,000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	10	0.73 J	0.75 J	1.7 J	3.4 J	1.3 J	0.85 J	6.8	2.1 J	0.86 J
Iron	300	150	170 B	1,900 B	4,100 B	1,300	360	390	61 J B	<37	<37
Lead	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	60	410	54	120	340	290	270	10	3	3
Mercury	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well			IW-1S	IW-2D	IW-2D2	MP-13					
	Sample Depth		MS	MS	MS	44-48'	44-48'	44-48'	67-71'	67-71'	67-71'
Sample Date	ES	PAL	11/29/12	11/29/12	11/29/12	12/06/12	01/19/13	02/21/13	12/06/12	01/19/13	02/21/13
Dissolved Metals (µg/L)											
Arsenic	10	1	0.57 J	0.20 J	0.22 J	0.16 J	0.19 J	0.16 J	0.20 J	0.15 J	0.16 J
Barium (Dissolved)	2,000	400	120	51	54	180	190	190	26 B	24	25
Cadmium (Dissolved)	5	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	0.12 J	<0.1	<0.1	<0.1
Chromium (Dissolved)	100	10	0.65 J	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64
Iron (Dissolved)	300	150	320 B	580 B	2,400 B	860	85 J	78 J	43 J B	<37	<37
Lead (Dissolved)	15	1.5	0.19 J	<0.16	<0.16	0.23 J	0.39 J	0.43 J	<0.16	<0.16	<0.16
Manganese (Dissolved)	300	60	420	36	81	360	280	270	10	3	2.5
Mercury (Dissolved)	2	0.2	0.073 J	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
Selenium (Dissolved)	50	10	1.1 J	0.50 J	0.43 J	0.27 J	0.29 J	0.37 J	<0.25	0.34 J	0.34 J
Silver (Dissolved)	50	10	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069
MISC (mg/L)											
Bromide	NE	NE	<0.77	<0.77	<0.77	<0.77	0.52	0.26	<0.77	0.5	0.25
Chloride	250	NE	490	190	160	420	410	430	270	250	280 B
TOC Dup	NE	NE	4.1	4.1	3.8	6.1	7.5	7.2	5.2	6.1	4.9
Total Dissolved Solids	NE	NE	2,100	1,000	910	1,400	1,400	1,400	1,100	1,100	1,000
Deuterated Water (permil)	NE	NE	-54.4	-60.5	-60.6	-64	-63.9	-63.9	-65.5	-64.7	-65.0
Field Parameters											
Conductivity (µS/cm)	NE	NE	2,624	1,292	1,168	1,378	--	--	1,360	--	--
pH	NE	NE	6.68	6.80	6.85	6.24	--	--	6.35	--	--

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MP-13 (continued)											
	81-85'	81-85'	81-85'	81-85'	102-106'	102-106'	102-106'	121-125'	121-125'	121-125'	135-139'	135-139'
Sample Depth	12/06/12	12/12/12	01/19/13	02/21/13	12/04/12	01/18/13	02/21/13	12/04/12	01/18/13	02/20/13	12/04/12	01/17/13
Sample Date												
VOC (µg/L)												
1,1,1,2-Tetrachloroethane	<2.5	NA	4.8 J	4.5 J	<1.3	<0.5	<0.5	<0.5	<1.3	NA	<0.5	<1.3
1,1,2-Trichloroethane	<2.8	NA	<2.8	<1.4	<1.4	<0.56	<0.56	<0.56	<1.4	NA	<0.56	<1.4
1,1-Dichloroethene	<3.1	NA	<3.1	4.2 J	<1.6	<0.62	<0.62	<0.62	<1.6	NA	1.5 J	<1.6
Benzene	<0.74	NA	<0.74	<0.37	<0.37	<0.15	<0.15	<0.15	<0.37	NA	0.41 J	1.1 J
Bromoform	<2.8	NA	<2.8	<1.4	<1.4	<0.56	<0.56	<0.56	<1.4	NA	<0.56	<1.4
Bromomethane	<3.1	NA	<3.1	<1.6	<1.6	<0.62	<0.62	<0.62	<1.6	NA	<0.62	<1.6
Carbon tetrachloride	<2.6	NA	<2.6	<1.3	<1.3	<0.52	<0.52	<0.52	<1.3	NA	<0.52	<1.3
Chloroform	<2	NA	<2	<1	<1	<0.4	<0.4	<0.4	<1	NA	<0.4	<1
Chloromethane	<1.8	NA	<1.8	<0.9	<0.9	<0.36	<0.36	<0.36	<0.9	NA	<0.36	<0.9
cis-1,2-Dichloroethene	1,900	NA	1,800	2,100	1,100	690	520	910	1,000	NA	1,100	910
Dibromochloromethane	<3.2	NA	<3.2	<1.6	<1.6	<0.64	<0.64	<0.64	<1.6	NA	<0.64	<1.6
Ethylbenzene	<1.3	NA	<1.3	<0.65	<0.65	<0.26	<0.26	<0.26	<0.65	NA	<0.26	<0.65
Methylene Chloride	<6.8	NA	<6.8	<3.4	<3.4	<1.4	<1.4	<1.4	<3.4	NA	<1.4	<3.4
Naphthalene	<1.6	NA	<1.6	<0.8	<0.8	<0.32	<0.32	<0.32	<0.8	NA	<0.32	<0.8
Tetrachloroethene	5,600	NA	6,800	7,000	1,800	1,100	670	1,500	2,600	NA	1,900	2,300
Toluene	<1.1	NA	<1.1	<0.55	<0.55	<0.22	<0.22	<0.22	<0.55	NA	<0.22	<0.55
trans-1,2-Dichloroethene	29	NA	38	38	15	9.5	4.8	12	17	NA	17	15
Trichloroethene	940	NA	1,100	1,100	440	330	270	340	460	NA	450	430
Vinyl chloride	64	NA	120	110	33	23	13	36	54	NA	50	42
Xylenes, Total	<0.68	NA	<0.68	<0.34	<0.34	<0.14	<0.14	<0.14	<0.34	NA	<0.14	<0.34
Total Metals (µg/L)												
Arsenic	0.17 J	NA	<0.15	<0.15	0.24 J	0.32 J	0.17 J	0.18 J	0.29 J	0.17 J	0.15 J	<0.15
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	2.0 J	NA	0.79 J	<0.64	4.2 J	2.6 J	1.0 J	12	1.4 J	1.2 J	9.6	34
Iron	62 J B	NA	<37	<37	46 J B	<37	<37	230 B	<37	<37	86 J B	150
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	14	NA	6	4	83	100	68 V	63	51	41 B	42	19
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MP-13 (continued)											
Sample Depth	81-85'	81-85'	81-85'	81-85'	102-106'	102-106'	102-106'	121-125'	121-125'	121-125'	135-139'	135-139'
Sample Date	12/06/12	12/12/12	01/19/13	02/21/13	12/04/12	01/18/13	02/21/13	12/04/12	01/18/13	02/20/13	12/04/12	01/17/13
Dissolved Metals (µg/L)												
Arsenic	<0.15	NA	<0.15	<0.15	0.21 J	0.20 J	0.20 J	0.38 J	0.27 J	0.19 J	<0.15	<0.15
Barium (Dissolved)	24 B	NA	23	24	65 B	45	38	72 B	57	52	66 B	42
Cadmium (Dissolved)	<0.1	NA	<0.1	<0.1	0.17 J	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium (Dissolved)	<0.64	NA	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64
Iron (Dissolved)	43 J B	NA	<37	<37	<37	<37	<37	120 B	<37	<37	43 J B	<37
Lead (Dissolved)	<0.16	NA	<0.16	<0.16	0.20 J	<0.16	0.51	0.23 J	0.30 J	0.29 J B	0.58	0.86
Manganese (Dissolved)	13	NA	6.3	4.8	86	97	68	67	54	41 B	43	17
Mercury (Dissolved)	<0.071	NA	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	NA
Selenium (Dissolved)	<0.25	NA	<0.25	<0.25	0.54 J	0.36 J	0.29 J	0.56 J	0.43 J	0.41 J	0.55 J	0.34 J
Silver (Dissolved)	<0.069	NA	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069
MISC (mg/L)												
Bromide	<0.77	0.33	1.7	0.31	<0.77	0.38	0.46	<0.77	0.46	0.22 J	<0.77	0.19 J
Chloride	220	230	200	230 B	290	180	170 B	310	240	220	300	220
TOC Dup	4.6	NA	5.4	4.3	5	6.7	5.2	5.2	6.2	4.3	5.2	6.4
Total Dissolved Solids	990	950	910	980	1,100	970	960	1,100	1,000	920	1,100	960
Deuterated Water (permil)	-61.1	NA	-61.4	-61.5	-62.1	-59	-56.7	-62.9	-61.6	-60.1	-63.2	-60.9
Field Parameters												
Conductivity (µS/cm)	1,319	--	--	--	1,169	--	--	1,095	--	--	1,158	--
pH	6.92	--	--	--	6.74	--	--	7.12	--	--	7.06	--

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MP-13 (continued)				MW-3S					
	135-139'	163-167'	163-167'	163-167'	MS	HC	HC	HC	HC	HC
Sample Depth	02/20/13	12/04/12	01/16/13	02/20/13	11/30/12	12/16/12	12/17/12	12/18/12	12/19/12	12/28/12
Sample Date	02/20/13	12/04/12	01/16/13	02/20/13	11/30/12	12/16/12	12/17/12	12/18/12	12/19/12	12/28/12
VOC (µg/L)										
1,1,1,2-Tetrachloroethane	NA	<1.3	<0.25	NA	<1.3	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	<1.4	<0.28	NA	<1.4	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	<1.6	0.97 J	NA	<1.6	NA	NA	NA	NA	NA
Benzene	NA	<0.37	<0.074	NA	1.5 J	NA	NA	NA	NA	NA
Bromoform	NA	<1.4	<0.28	NA	<1.4	NA	NA	NA	NA	NA
Bromomethane	NA	<1.6	<0.31	NA	<1.6	NA	NA	NA	NA	NA
Carbon tetrachloride	NA	<1.3	<0.26	NA	<1.3	NA	NA	NA	NA	NA
Chloroform	NA	<1	<0.2	NA	5	NA	NA	NA	NA	NA
Chloromethane	NA	<0.9	<0.18	NA	<0.9	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	970	730	NA	98	NA	NA	NA	NA	NA
Dibromochloromethane	NA	<1.6	<0.32	NA	<1.6	NA	NA	NA	NA	NA
Ethylbenzene	NA	<0.65	<0.13	NA	<0.65	NA	NA	NA	NA	NA
Methylene Chloride	NA	<3.4	<0.68	NA	<3.4	NA	NA	NA	NA	NA
Naphthalene	NA	<0.8	<0.16	NA	<0.8	NA	NA	NA	NA	NA
Tetrachloroethene	NA	1,400	930	NA	2,400	NA	NA	NA	NA	NA
Toluene	NA	<0.55	<0.11	NA	<0.55	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	15	13	NA	6	NA	NA	NA	NA	NA
Trichloroethene	NA	370	250	NA	160	NA	NA	NA	NA	NA
Vinyl chloride	NA	41	27	NA	<0.5	NA	NA	NA	NA	NA
Xylenes, Total	NA	<0.34	<0.068	NA	<0.34	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	<0.15	0.15 J	<0.15	<0.15	0.49 J	NA	<3.7	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	69	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	<2.6	NA	NA	NA
Chromium	<0.64	<0.64	1.2 J	<0.64	<0.64	NA	270	NA	NA	NA
Iron	<37	200 B	<37	<37	37 J	NA	<920	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	<0.78	NA	NA	NA
Manganese	9.7 B	100	66	56 B	34	NA	800,000	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	13	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	23 J	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	7.1 J	NA	NA	NA

Footnotes on Page 35.

Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MP-13 (continued)				MW-3S					
	135-139'	163-167'	163-167'	163-167'	MS	HC	HC	HC	HC	HC
Sample Depth	135-139'	163-167'	163-167'	163-167'	MS	HC	HC	HC	HC	HC
Sample Date	02/20/13	12/04/12	01/16/13	02/20/13	11/30/12	12/16/12	12/17/12	12/18/12	12/19/12	12/28/12
Dissolved Metals (µg/L)										
Arsenic	<0.15	<0.15	<0.15	<0.15	0.45 J	NA	NA	NA	NA	NA
Barium (Dissolved)	34	70 B	45	40	88	NA	NA	NA	NA	NA
Cadmium (Dissolved)	<0.1	<0.1	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA
Chromium (Dissolved)	<0.64	<0.64	<0.64	<0.64	<0.64	NA	NA	NA	NA	NA
Iron (Dissolved)	<37	52 J B	49 J B	<37	<37	NA	NA	NA	NA	NA
Lead (Dissolved)	0.63 B	<0.16	<0.16	0.30 J B	<0.16	NA	NA	NA	NA	NA
Manganese (Dissolved)	9.5 B	100	66	57 B	26	NA	NA	NA	NA	NA
Mercury (Dissolved)	<0.071	<0.071	<0.071	<0.071	0.072 J	NA	NA	NA	NA	NA
Selenium (Dissolved)	<0.25	0.61 J	0.38 J	0.35 J	0.74 J	NA	NA	NA	NA	NA
Silver (Dissolved)	<0.069	<0.069	<0.069	<0.069	<0.069	NA	NA	NA	NA	NA
MISC (mg/L)										
Bromide	0.15 J	<0.77	0.16 J	0.16 J	<3.9	NA	NA	<15	<0.77	<0.77
Chloride	180	320	180	160	730	NA	NA	420	3,600	1,400
TOC Dup	3.3	5	4.5	2.9	2.4	NA	12	NA	NA	NA
Total Dissolved Solids	890	1,100	850	890	2,500	NA	NA	12,000	7,100	3,400
Deuterated Water (permil)	-58.9	-63.9	-61.2	-60.5	-60.4	-46.1	298	133.5	-67	-52.9
Field Parameters										
Conductivity (µS/cm)	--	1,634	--	--	2,891	8,300	6,655	33,680	15,916	11,737
pH	--	7.06	--	--	6.62	6.73	6.65	6.80	6.66	6.82

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-3S										MW-3D
	HC	HCU	MSQ	MSU	HC	HCU	HCQ	MSU	MSQ	HC	MS
Sample Depth	01/03/13	01/15/13	01/15/13	01/15/13	01/31/13	02/12/13	02/12/13	02/12/13	02/12/13	02/28/13	11/30/12
Sample Date	01/03/13	01/15/13	01/15/13	01/15/13	01/31/13	02/12/13	02/12/13	02/12/13	02/12/13	02/28/13	11/30/12
VOC (µg/L)											
1,1,1,2-Tetrachloroethane	NA	<0.25	<0.25	<0.25	NA	<0.25	<0.25	<0.25	<0.25	NA	<1.3
1,1,2-Trichloroethane	NA	<0.28	<0.28	<0.28	NA	<0.28	<0.28	<0.28	<0.28	NA	<1.4
1,1-Dichloroethene	NA	<0.31	<0.31	<0.31	NA	<0.31	<0.31	<0.31	<0.31	NA	<1.6
Benzene	NA	0.28 J	0.42 J	0.54	NA	0.78	0.76	0.99	0.88	NA	<0.37
Bromoforn	NA	<0.28	<0.28	1.8	NA	<0.28	<0.28	17	<0.28	NA	<1.4
Bromomethane	NA	<0.31	<0.31	<0.31	NA	<0.31	<0.31	<0.31	<0.31	NA	<1.6
Carbon tetrachloride	NA	<0.26	<0.26	<0.26	NA	<0.26	<0.26	<0.26	<0.26	NA	<1.3
Chloroform	NA	1	1.6	2.1	NA	2.7	2.6	3.5	3	NA	<1
Chloromethane	NA	<0.18	<0.18	<0.18	NA	<0.18	<0.18	<0.18	<0.18	NA	<0.9
cis-1,2-Dichloroethene	NA	13	<0.12	<0.12	NA	37	34	<0.12	1.6	NA	520
Dibromochloromethane	NA	<0.32	<0.32	<0.32	NA	<0.32	<0.32	0.65 J	<0.32	NA	<1.6
Ethylbenzene	NA	<0.13	0.36 J	<0.13	NA	<0.13	<0.13	<0.13	<0.13	NA	<0.65
Methylene Chloride	NA	<0.68	<0.68	<0.68	NA	<0.68	<0.68	<0.68	<0.68	NA	<3.4
Naphthalene	NA	<0.16	<0.16	<0.16	NA	<0.16	<0.16	<0.16	<0.16	NA	<0.8
Tetrachloroethene	NA	420	88	<0.17	NA	680	680	0.76 J	600	NA	1,800
Toluene	NA	<0.11	0.38 J	<0.11	NA	<0.11	<0.11	<0.11	<0.11	NA	<0.55
trans-1,2-Dichloroethene	NA	0.58 J	<0.25	<0.25	NA	1.2	0.51 J	<0.25	<0.25	NA	7.7
Trichloroethene	NA	25	<0.19	<0.19	NA	57	57	<0.19	6.8	NA	250
Vinyl chloride	NA	<0.1	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	NA	<0.5
Xylenes, Total	NA	<0.068	2.4	<0.068	NA	<0.068	<0.068	<0.068	<0.068	NA	<0.34
Total Metals (µg/L)											
Arsenic	NA	NA	<3.7	NA	NA	NA	NA	<0.74	NA	NA	0.32 J
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	510	NA	NA	NA	NA	250	NA	NA	3.7 J
Iron	NA	NA	<920	NA	NA	NA	NA	230 J	NA	NA	400
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	460,000	NA	NA	NA	NA	87,000 B	NA	NA	42
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-3S										MW-3D
	HC	HCU	MSQ	MSU	HC	HCU	HCQ	MSU	MSQ	HC	MS
Sample Depth	01/03/13	01/15/13	01/15/13	01/15/13	01/31/13	02/12/13	02/12/13	02/12/13	02/12/13	02/28/13	11/30/12
Sample Date	01/03/13	01/15/13	01/15/13	01/15/13	01/31/13	02/12/13	02/12/13	02/12/13	02/12/13	02/28/13	11/30/12
Dissolved Metals (µg/L)											
Arsenic	NA	NA	<3.7	NA	NA	NA	NA	<0.74	NA	NA	0.23 J
Barium (Dissolved)	NA	NA	34 J	NA	NA	NA	NA	87	NA	NA	68
Cadmium (Dissolved)	NA	NA	<2.6	NA	NA	NA	NA	<0.52	NA	NA	0.13 J
Chromium (Dissolved)	NA	NA	510	NA	NA	NA	NA	370	NA	NA	2.4 J
Iron (Dissolved)	NA	NA	<920	NA	NA	NA	NA	1,300	NA	NA	<37
Lead (Dissolved)	NA	NA	<3.9	NA	NA	NA	NA	6.2	NA	NA	<0.16
Manganese (Dissolved)	NA	NA	370,000	NA	NA	NA	NA	140,000 B	NA	NA	28
Mercury (Dissolved)	NA	NA	4.1	NA	NA	NA	NA	1.3	NA	NA	<0.071
Selenium (Dissolved)	NA	NA	35 J	NA	NA	NA	NA	15	NA	NA	<0.25
Silver (Dissolved)	NA	NA	2.6 J	NA	NA	NA	NA	1.5 J	NA	NA	<0.069
MISC (mg/L)											
Bromide	0.39 J	<0.077	<0.77	NA	<7.7	<1.5	NA	<1.5	NA	<7.7	<0.77
Chloride	1,700	1,400	940	NA	1,400	5,300	NA	4,500	NA	8,000 B	350
TOC Dup	NA	NA	16	NA	NA	NA	NA	16	NA	NA	3.6
Total Dissolved Solids	3,800	2,700	3,400	NA	4,700	8,600	NA	8,200	NA	13,000	1,700
Deuterated Water (permil)	-54.9	-76	-34.1	NA	30.4	-74.4	NA	-52.2	NA	-111.2	-58.3
Field Parameters											
Conductivity (µS/cm)	12,404	5,263	4,736	4,736	6,396	33,145	33,145	18,431	18,431	26,212	1,827
pH	4.46	7.04	6.92	6.92	7.1	6.4	6.4	6.64	6.64	7.37	6.63

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-3D (continued)								MW-3D2			
	MS	MS	MS	MS	MS	HC	MS	MS	MS	MS	MS	MS
Sample Depth	12/19/12	12/28/12	01/03/13	01/16/13	01/31/13	02/12/13	02/12/13	02/28/13	11/30/12	12/19/12	12/28/12	01/03/13
Sample Date	12/19/12	12/28/12	01/03/13	01/16/13	01/31/13	02/12/13	02/12/13	02/28/13	11/30/12	12/19/12	12/28/12	01/03/13
VOC (µg/L)												
1,1,1,2-Tetrachloroethane	NA	NA	NA	<0.25	NA	<0.25	<0.25	NA	<1.3	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	<0.28	NA	<0.28	<0.28	NA	<1.4	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	<0.31	NA	<0.31	<0.31	NA	<1.6	NA	NA	NA
Benzene	NA	NA	NA	0.32 J	NA	0.29 J	0.29 J	NA	<0.37	NA	NA	NA
Bromoform	NA	NA	NA	<0.28	NA	<0.28	<0.28	NA	<1.4	NA	NA	NA
Bromomethane	NA	NA	NA	<0.31	NA	<0.31	<0.31	NA	<1.6	NA	NA	NA
Carbon tetrachloride	NA	NA	NA	<0.26	NA	<0.26	<0.26	NA	<1.3	NA	NA	NA
Chloroform	NA	NA	NA	0.89 J	NA	<0.2	<0.2	NA	<1	NA	NA	NA
Chloromethane	NA	NA	NA	<0.18	NA	<0.18	<0.18	NA	<0.9	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	290	NA	230	200	NA	420	NA	NA	NA
Dibromochloromethane	NA	NA	NA	<0.32	NA	<0.32	<0.32	NA	<1.6	NA	NA	NA
Ethylbenzene	NA	NA	NA	<0.13	NA	<0.13	<0.13	NA	<0.65	NA	NA	NA
Methylene Chloride	NA	NA	NA	<0.68	NA	7.9	<0.68	NA	<3.4	NA	NA	NA
Naphthalene	NA	NA	NA	<0.16	NA	<0.16	<0.16	NA	<0.8	NA	NA	NA
Tetrachloroethene	NA	NA	NA	660	NA	830	760	NA	2,800	NA	NA	NA
Toluene	NA	NA	NA	<0.11	NA	<0.11	<0.11	NA	<0.55	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	6	NA	3.9	4	NA	5.6	NA	NA	NA
Trichloroethene	NA	NA	NA	140	NA	140	130	NA	190	NA	NA	NA
Vinyl chloride	NA	NA	NA	<0.1	NA	<0.1	<0.1	NA	<0.5	NA	NA	NA
Xylenes, Total	NA	NA	NA	<0.068	NA	<0.068	<0.068	NA	<0.34	NA	NA	NA
Total Metals (µg/L)												
Arsenic	NA	NA	NA	0.18 J	NA	NA	0.19 J	NA	0.21 J	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	0.70 J	NA	NA	0.98 J	NA	4.1 J	NA	NA	NA
Iron	NA	NA	NA	79 J B	NA	NA	210	NA	<37	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	170	NA	NA	250 B	NA	1.6 J	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-3D (continued)								MW-3D2			
	MS	MS	MS	MS	MS	HC	MS	MS	MS	MS	MS	MS
Sample Depth	12/19/12	12/28/12	01/03/13	01/16/13	01/31/13	02/12/13	02/12/13	02/28/13	11/30/12	12/19/12	12/28/12	01/03/13
Sample Date	12/19/12	12/28/12	01/03/13	01/16/13	01/31/13	02/12/13	02/12/13	02/28/13	11/30/12	12/19/12	12/28/12	01/03/13
Dissolved Metals (µg/L)												
Arsenic	NA	NA	NA	0.18 J	NA	NA	0.20 J	NA	0.28 J	NA	NA	NA
Barium (Dissolved)	NA	NA	NA	66	NA	NA	50	NA	43	NA	NA	NA
Cadmium (Dissolved)	NA	NA	NA	0.15 J	NA	NA	0.22 J	NA	<0.1	NA	NA	NA
Chromium (Dissolved)	NA	NA	NA	0.77 J	NA	NA	<0.64	NA	4.0 J	NA	NA	NA
Iron (Dissolved)	NA	NA	NA	<37	NA	NA	<37	NA	<37	NA	NA	NA
Lead (Dissolved)	NA	NA	NA	0.29 J	NA	NA	<0.16	NA	<0.16	NA	NA	NA
Manganese (Dissolved)	NA	NA	NA	170	NA	NA	230 B	NA	3.4	NA	NA	NA
Mercury (Dissolved)	NA	NA	NA	NA	NA	NA	<0.071	NA	<0.071	NA	NA	NA
Selenium (Dissolved)	NA	NA	NA	<0.25	NA	NA	<0.25	NA	0.39 J	NA	NA	NA
Silver (Dissolved)	NA	NA	NA	<0.069	NA	NA	<0.069	NA	<0.069	NA	NA	NA
MISC (mg/L)												
Bromide	0.22 J	0.23 J	0.21 J	0.27	<0.077	<1.5	<1.5	<7.7	<0.77	0.12 J	<0.077	<0.077
Chloride	900	1,200	1,200	590	130	2,300	2,200	3,500 B	100	550	840	480
TOC Dup	NA	NA	NA	4.5	NA	NA	12	NA	2.7	NA	NA	NA
Total Dissolved Solids	2,100	2,400	2,200	2,000	480	4,400	4,200	5,200	730	1,300	1,800	1,500
Deuterated Water (permil)	-78.7	-79.5	-72.2	-64.4	-59.1	-66.5	-68.5	-130.5	-60.4	-64.8	-64.2	-62
Field Parameters												
Conductivity (µS/cm)	4,786	3,408	2,760	2,044	2,872	37,434	23,815	14,131	877	2,190	2,609	2,319
pH	6.91	6.16	6.75	6.67	7.8	6.9	6.95	6.81	6.92	6.90	5.65	3.96

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-3D2 (continued)				MW-3D3							
	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
Sample Depth	01/16/13	01/31/13	02/12/13	02/28/13	11/27/12	12/19/12	12/31/12	01/03/13	01/18/13	01/31/13	02/15/13	02/27/13
Sample Date	01/16/13	01/31/13	02/12/13	02/28/13	11/27/12	12/19/12	12/31/12	01/03/13	01/18/13	01/31/13	02/15/13	02/27/13
VOC (µg/L)												
1,1,1,2-Tetrachloroethane	<0.5	NA	<0.25	NA	<0.25	NA	NA	NA	<0.25	NA	<0.25	NA
1,1,2-Trichloroethane	<0.56	NA	<0.28	NA	<0.28	NA	NA	NA	<0.28	NA	<0.28	NA
1,1-Dichloroethene	<0.62	NA	<0.31	NA	<0.31	NA	NA	NA	<0.31	NA	<0.31	NA
Benzene	<0.15	NA	<0.074	NA	<0.074	NA	NA	NA	0.30 J	NA	<0.074	NA
Bromoform	<0.56	NA	<0.28	NA	<0.28	NA	NA	NA	<0.28	NA	<0.28	NA
Bromomethane	<0.62	NA	<0.31	NA	<0.31	NA	NA	NA	<0.31	NA	<0.31	NA
Carbon tetrachloride	<0.52	NA	<0.26	NA	<0.26	NA	NA	NA	<0.26	NA	<0.26	NA
Chloroform	<0.4	NA	<0.2	NA	<0.2	NA	NA	NA	<0.2	NA	<0.2	NA
Chloromethane	<0.36	NA	<0.18	NA	<0.18	NA	NA	NA	<0.18	NA	<0.18	NA
cis-1,2-Dichloroethene	320	NA	250	NA	6.8	NA	NA	NA	15	NA	7.7	NA
Dibromochloromethane	<0.64	NA	<0.32	NA	<0.32	NA	NA	NA	<0.32	NA	<0.32	NA
Ethylbenzene	<0.26	NA	<0.13	NA	<0.13	NA	NA	NA	<0.13	NA	<0.13	NA
Methylene Chloride	<1.4	NA	7.3	NA	<0.68	NA	NA	NA	<0.68	NA	<0.68	NA
Naphthalene	<0.32	NA	<0.16	NA	<0.16	NA	NA	NA	<0.16	NA	<0.16	NA
Tetrachloroethene	1,200	NA	1,700	NA	2	NA	NA	NA	1	NA	0.72 J	NA
Toluene	<0.22	NA	<0.11	NA	<0.11	NA	NA	NA	0.21 J	NA	<0.11	NA
trans-1,2-Dichloroethene	4.9	NA	3.2	NA	<0.25	NA	NA	NA	<0.25	NA	<0.25	NA
Trichloroethene	110	NA	120	NA	1.1	NA	NA	NA	0.40 J	NA	<0.19	NA
Vinyl chloride	<0.2	NA	0.22 J	NA	<0.1	NA	NA	NA	<0.1	NA	<0.1	NA
Xylenes, Total	<0.14	NA	<0.068	NA	<0.068	NA	NA	NA	<0.068	NA	<0.068	NA
Total Metals (µg/L)												
Arsenic	0.19 J	NA	0.19 J	NA	0.93 J	NA	NA	NA	1.4	NA	1.3	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	4.1 J	NA	11	NA	0.83 J	NA	NA	NA	2.2 J	NA	1.0 J	NA
Iron	<37	NA	75 J	NA	4,400	NA	NA	NA	5,000	NA	6,200	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	17	NA	12 B	NA	870	NA	NA	NA	670	NA	690 B	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-3D2 (continued)				MW-3D3							
	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
Sample Depth	01/16/13	01/31/13	02/12/13	02/28/13	11/27/12	12/19/12	12/31/12	01/03/13	01/18/13	01/31/13	02/15/13	02/27/13
Sample Date	01/16/13	01/31/13	02/12/13	02/28/13	11/27/12	12/19/12	12/31/12	01/03/13	01/18/13	01/31/13	02/15/13	02/27/13
Dissolved Metals (µg/L)												
Arsenic	0.15 J	NA	0.17 J	NA	0.91 J	NA	NA	NA	1.5	NA	1.2	NA
Barium (Dissolved)	42	NA	40	NA	85	NA	NA	NA	81	NA	96	NA
Cadmium (Dissolved)	0.10 J	NA	<0.1	NA	<0.1	NA	NA	NA	<0.1	NA	<0.1	NA
Chromium (Dissolved)	4.4 J	NA	11	NA	<0.64	NA	NA	NA	0.81 J	NA	<0.64	NA
Iron (Dissolved)	<37	NA	<37	NA	4,200	NA	NA	NA	4,900	NA	6,800	NA
Lead (Dissolved)	0.16 J	NA	<0.16	NA	<0.16	NA	NA	NA	<0.16	NA	0.27 J B	NA
Manganese (Dissolved)	19	NA	12 B	NA	820	NA	NA	NA	690	NA	610 B	NA
Mercury (Dissolved)	NA	NA	<0.071	NA	0.17 J B	NA	NA	NA	<0.071	NA	<0.071	NA
Selenium (Dissolved)	0.42 J	NA	0.57 J	NA	<0.25	NA	NA	NA	<0.25	NA	<0.25	NA
Silver (Dissolved)	<0.069	NA	<0.069	NA	<0.069	NA	NA	NA	<0.069	NA	<0.069	NA
MISC (mg/L)												
Bromide	0.15 J	0.15 J	0.18 J	0.17 J	<0.077	<0.077	<0.077	<0.077	<0.077	<0.077	<0.077	<0.077
Chloride	260	250	120	610	2.5	2.7	3	3.7	3	6.7	61 B	200
TOC Dup	3.3	NA	3.4	NA	3.7	NA	NA	NA	7	NA	3.4	NA
Total Dissolved Solids	1,000	870	720	1,300	410	350	360	320	300	340	380	670
Deuterated Water (permil)	-61.3	-59.3	-60.7	-69.8	-59.6	-58.6	-58.8	-58.1	-58.3	-56.2	-57.7	-60.1
Field Parameters												
Conductivity (µS/cm)	1,725	1,252	1,057	982	384	--	--	--	571	592	1,495	--
pH	6.85	6.6	7.2	6.85	7.14	7.01	5.21	7.53	7.06	7.42	8.22	6.8

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-5S			MW-5D			MW-5D2			MW-5D3		
	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
Sample Depth	11/28/12	01/17/13	02/13/13	11/28/12	01/17/13	02/13/13	11/30/12	01/17/13	02/13/13	11/28/12	01/18/13	02/13/13
Sample Date	11/28/12	01/17/13	02/13/13	11/28/12	01/17/13	02/13/13	11/30/12	01/17/13	02/13/13	11/28/12	01/18/13	02/13/13
VOC (µg/L)												
1,1,1,2-Tetrachloroethane	<0.25	<0.25	<0.25	<1.3	<0.5	<0.5	NA	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	<0.28	<0.28	<0.28	<1.4	<0.56	<0.56	NA	<0.28	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	<0.31	<0.31	<0.31	<1.6	<0.62	<0.62	NA	<0.31	<0.31	<0.31	<0.31	<0.31
Benzene	<0.074	<0.074	<0.074	1.1 J	1.2	1	NA	<0.074	<0.074	<0.074	0.28 J	<0.074
Bromoforn	<0.28	<0.28	<0.28	<1.4	<0.56	<0.56	NA	<0.28	<0.28	<0.28	<0.28	<0.28
Bromomethane	<0.31	0.73 J	<0.31	<1.6	<0.62	<0.62	NA	<0.31	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	1.1	<0.26	1.4	<1.3	<0.52	<0.52	NA	<0.26	<0.26	<0.26	<0.26	<0.26
Chloroform	0.79 J	0.79 J	<0.2	<1	1.0 J	<0.4	NA	<0.2	<0.2	<0.2	<0.2	<0.2
Chloromethane	<0.18	<0.18	<0.18	<0.9	<0.36	<0.36	NA	<0.18	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	4.2	3.8	2.7	93	110	94	NA	6.6	9.2	3.1	12	12
Dibromochloromethane	<0.32	<0.32	<0.32	<1.6	<0.64	<0.64	NA	<0.32	<0.32	<0.32	<0.32	<0.32
Ethylbenzene	<0.13	<0.13	<0.13	<0.65	<0.26	<0.26	NA	<0.13	<0.13	<0.13	<0.13	<0.13
Methylene Chloride	<0.68	<0.68	<0.68	<3.4	<1.4	<1.4	NA	<0.68	<0.68	<0.68	<0.68	<0.68
Naphthalene	<0.16	<0.16	<0.16	<0.8	<0.32	<0.32	NA	<0.16	<0.16	<0.16	<0.16	<0.16
Tetrachloroethene	240	260	210	2,000	1,800	1,700	NA	650	650	19	0.59 J	0.83 J
Toluene	<0.11	<0.11	<0.11	<0.55	<0.22	<0.22	NA	0.7	0.22 J	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	<0.25	<0.25	<0.25	3.9 J	3.9	3.1	NA	<0.25	<0.25	<0.25	<0.25	<0.25
Trichloroethene	4.7	4.4	3.8	190	180	180	NA	9.5	8.4	2.6	<0.19	<0.19
Vinyl chloride	<0.1	<0.1	<0.1	<0.5	<0.2	<0.2	NA	<0.1	<0.1	<0.1	<0.1	<0.1
Xylenes, Total	<0.068	<0.068	<0.068	<0.34	<0.14	<0.14	NA	<0.068	<0.068	<0.068	<0.068	<0.068
Total Metals (µg/L)												
Arsenic	0.36 J	0.28 J	0.30 J	0.25 J	0.15 J	0.18 J	0.25 J	0.18 J	0.16 J	0.61 J	1.1	0.66 J
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	4.3 J	3.8 J	3.5 J	33	20	22	8.6	6.5	4.7 J	1.3 J	1.2 J	2.4 J
Iron	310	75 J	150	220	<37	<37	120	250	89 J	840	1,000	1,300
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	48	5.3 B	14 B	20	9.4 B	10 B	18	34 B	52 B	400	570	620 B
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-5S			MW-5D			MW-5D2			MW-5D3		
Sample Depth	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
Sample Date	11/28/12	01/17/13	02/13/13	11/28/12	01/17/13	02/13/13	11/30/12	01/17/13	02/13/13	11/28/12	01/18/13	02/13/13
Dissolved Metals (µg/L)												
Arsenic	0.24 J	0.26 J	0.25 J	<0.15	0.15 J	0.22 J	0.15 J	<0.15	0.16 J	0.30 J	0.61 J	0.63 J
Barium (Dissolved)	96	97	92	24	24	24	18	22	23	70	68	61
Cadmium (Dissolved)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium (Dissolved)	3.8 J	3.8 J	2.9 J	22	21	22	8.8	5.1	4.8 J	1.1 J	<0.64	0.85 J
Iron (Dissolved)	<37	<37	<37	<37	<37	<37	<37	<37	66 J	850	970	1,100
Lead (Dissolved)	<0.16	0.20 J	0.36 J B	<0.16	<0.16	0.73 B	<0.16	<0.16	0.37 J B	<0.16	<0.16	0.39 J B
Manganese (Dissolved)	8.8	0.86 J B	6.4 B	10	10 B	12 B	14	29 B	49 B	430	560	600 B
Mercury (Dissolved)	0.17 J B	<0.071	<0.071	0.22 B	<0.071	0.078 J	0.072 J	<0.071	<0.071	0.17 J B	<0.071	<0.071
Selenium (Dissolved)	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	1.5 J	1.6 J	1.3 J	<0.25	<0.25	<0.25
Silver (Dissolved)	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069	<0.069
MISC (mg/L)												
Bromide	<0.77	0.093 J	0.095 J	<0.77	0.19 J	0.21 J	<0.077	<0.077	<0.077	<0.077	<0.077	<0.077
Chloride	350	360	380	130	120	130	46	51	52	4.4	2.6	12
TOC Dup	1.7	1.7	1.7	2.7	2.6	3	1.4	0.95 J	0.75 J	2.8	3.6	5.6
Total Dissolved Solids	960	930	970	980	930	960	720	590	610	360	290	300
Deuterated Water (permil)	-54.6	-53.8	-60	-55	-54.3	-54.5	-57.1	-56.8	-56.2	-57.5	-60	-56.5
Field Parameters												
Conductivity (µS/cm)	1,188	1,760	1,072	1,106	1,496	2,862	610	3,005	1,816	399	564	--
pH	7.25	7.04	8.96	6.80	6.65	6.56	7.17	7.29	8.20	7.13	7.03	--

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-18S											
	MS	HC	HC	HC	HC	HC	HC	MS	HC	HC	MS	HC
Sample Depth	11/28/12	12/17/12	12/18/12	12/19/12	12/28/12	01/03/13	01/15/13	01/15/13	01/31/13	02/12/13	02/12/13	02/28/13
Sample Date	11/28/12	12/17/12	12/18/12	12/19/12	12/28/12	01/03/13	01/15/13	01/15/13	01/31/13	02/12/13	02/12/13	02/28/13
VOC (µg/L)												
1,1,1,2-Tetrachloroethane	<1.3	NA	NA	NA	NA	NA	<0.5	<0.25	NA	<0.5	<0.5	NA
1,1,2-Trichloroethane	<1.4	NA	NA	NA	NA	NA	<0.56	<0.28	NA	<0.56	<0.56	NA
1,1-Dichloroethene	<1.6	NA	NA	NA	NA	NA	<0.62	<0.31	NA	<0.62	<0.62	NA
Benzene	3.2	NA	NA	NA	NA	NA	0.90 J	0.46 J	NA	0.87 J	1.4	NA
Bromoform	<1.4	NA	NA	NA	NA	NA	<0.56	<0.28	NA	<0.56	<0.56	NA
Bromomethane	<1.6	NA	NA	NA	NA	NA	<0.62	<0.31	NA	<0.62	<0.62	NA
Carbon tetrachloride	<1.3	NA	NA	NA	NA	NA	<0.52	<0.26	NA	<0.52	<0.52	NA
Chloroform	7.2	NA	NA	NA	NA	NA	3.1	2.3	NA	3.3	4.5	NA
Chloromethane	<0.9	NA	NA	NA	NA	NA	<0.36	<0.18	NA	<0.36	<0.36	NA
cis-1,2-Dichloroethene	150	NA	NA	NA	NA	NA	56	40	NA	56	77	NA
Dibromochloromethane	<1.6	NA	NA	NA	NA	NA	<0.64	<0.32	NA	<0.64	<0.64	NA
Ethylbenzene	<0.65	NA	NA	NA	NA	NA	<0.26	<0.13	NA	<0.26	<0.26	NA
Methylene Chloride	<3.4	NA	NA	NA	NA	NA	<1.4	<0.68	NA	<1.4	<1.4	NA
Naphthalene	<0.8	NA	NA	NA	NA	NA	<0.32	<0.16	NA	<0.32	<0.32	NA
Tetrachloroethene	3,300	NA	NA	NA	NA	NA	830	690	NA	1,100	1,900	NA
Toluene	1.1 J	NA	NA	NA	NA	NA	<0.22	<0.11	NA	<0.22	<0.22	NA
trans-1,2-Dichloroethene	7.4	NA	NA	NA	NA	NA	3.3	2.6	NA	2.9	3.8	NA
Trichloroethene	230	NA	NA	NA	NA	NA	75	59	NA	88	130	NA
Vinyl chloride	<0.5	NA	NA	NA	NA	NA	<0.2	<0.1	NA	<0.2	<0.2	NA
Xylenes, Total	<0.34	NA	NA	NA	NA	NA	<0.14	<0.068	NA	<0.14	<0.14	NA
Total Metals (µg/L)												
Arsenic	0.58 J	0.40 J	NA	NA	NA	NA	NA	0.35 J	NA	NA	0.28 J	NA
Barium	NA	240	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	0.13 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	<0.64	<0.64	NA	NA	NA	NA	NA	1.3 J	NA	NA	<0.64	NA
Iron	410	<37	NA	NA	NA	NA	NA	55 J	NA	NA	<37	NA
Lead	NA	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	1,600	620	NA	NA	NA	NA	NA	570	NA	NA	860 B	NA
Mercury	NA	<0.071	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	0.58 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	<0.069	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-18S											
	MS	HC	HC	HC	HC	HC	HC	MS	HC	HC	MS	HC
Sample Depth	11/28/12	12/17/12	12/18/12	12/19/12	12/28/12	01/03/13	01/15/13	01/15/13	01/31/13	02/12/13	02/12/13	02/28/13
Sample Date	11/28/12	12/17/12	12/18/12	12/19/12	12/28/12	01/03/13	01/15/13	01/15/13	01/31/13	02/12/13	02/12/13	02/28/13
Dissolved Metals (µg/L)												
Arsenic	0.46 J	NA	NA	NA	NA	NA	NA	0.34 J	NA	NA	0.31 J	NA
Barium (Dissolved)	200	NA	NA	NA	NA	NA	NA	260	NA	NA	790	NA
Cadmium (Dissolved)	<0.1	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	0.36 J	NA
Chromium (Dissolved)	<0.64	NA	NA	NA	NA	NA	NA	<0.64	NA	NA	<0.64	NA
Iron (Dissolved)	<37	NA	NA	NA	NA	NA	NA	<37	NA	NA	<37	NA
Lead (Dissolved)	<0.16	NA	NA	NA	NA	NA	NA	<0.16	NA	NA	<0.16	NA
Manganese (Dissolved)	1,600	NA	NA	NA	NA	NA	NA	570	NA	NA	860 B	NA
Mercury (Dissolved)	<0.071	NA	NA	NA	NA	NA	NA	<0.071	NA	NA	<0.071	NA
Selenium (Dissolved)	0.43 J	NA	NA	NA	NA	NA	NA	0.45 J	NA	NA	0.41 J	NA
Silver (Dissolved)	<0.069	NA	NA	NA	NA	NA	NA	<0.069	NA	NA	<0.069	NA
MISC (mg/L)												
Bromide	13	NA	0.69	0.51	0.63	0.53	0.63	0.7	0.68	<3.9	<3.9	<7.7
Chloride	1,200	NA	570	2,700	2,600	2,000	1,600	1,200	1,200	13,000	7,200	9,000 B
TOC Dup	2.4	4.2	NA	NA	NA	NA	NA	2.4	NA	NA	1.1	NA
Total Dissolved Solids	3,300	NA	1,700	4,800	4,300	3,900	3,200	2,700	2,800	20,000	12,000	15,000
Deuterated Water (permil)	-53.2	-55.3	-58.3	-69.8	-67.8	-65.1	-64.9	-65.2	-57.3	-79.4	-67.5	-73.4
Field Parameters												
Conductivity (µS/cm)	3,525	2,403	2,153	6,467	5,689	5,478	5,478	4,241	5,706	36,545	25,562	34,635
pH	6.56	6.89	6.82	6.71	6.83	6.91	6.73	6.86	6.8	6.8	6.80	6.67

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-19D											
	MS	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC
Sample Depth	11/29/12	12/11/12	12/12/12	12/13/12	12/14/12	12/15/12	12/16/12	12/17/12	12/18/12	12/19/12	12/27/12	01/02/13
Sample Date	11/29/12	12/11/12	12/12/12	12/13/12	12/14/12	12/15/12	12/16/12	12/17/12	12/18/12	12/19/12	12/27/12	01/02/13
VOC (µg/L)												
1,1,1,2-Tetrachloroethane	<1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	<1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	<1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	<0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	<1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	<1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	<1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	<0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	530	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	<1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	<0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	<3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	<0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	2,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	<0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	7.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	9.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	<0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)												
Arsenic	0.17 J	NA	NA	<1.5	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	31 B	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	<0.64	NA	NA	31 J	NA	NA	NA	NA	NA	NA	NA	NA
Iron	<37	NA	NA	<370	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	<1.6	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	24	NA	NA	63,000 B	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	1.4	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	<2.5	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	<0.69	NA	NA	NA	NA	NA	NA	NA	NA

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-19D											
Sample Depth	MS	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC
Sample Date	11/29/12	12/11/12	12/12/12	12/13/12	12/14/12	12/15/12	12/16/12	12/17/12	12/18/12	12/19/12	12/27/12	01/02/13
Dissolved Metals (µg/L)												
Arsenic	0.17 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (Dissolved)	<0.64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	<37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	<0.071	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	0.48 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	<0.069	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISC (mg/L)												
Bromide	<0.77	<1.5	4.1 J	3.8 J	3.7 J	2.1 J	4.1 J	<1.5	<0.77	<0.77	0.38 J	0.33
Chloride	200	180	180	190	190	200	210	200	200	200	210	200
TOC Dup	4.1	NA	NA	4.0 J	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	910	1,100	1,400	1,300	1,300	1,200	1,100	1,100	1,000	1,100	1,000	990
Deuterated Water (permil)	-62.2	NA	NA	NA	NA	NA	NA	-61.3	-62.7	-62.7	-62.4	-62.7
Field Parameters												
Conductivity (µS/cm)	1,288	2,550	9,288	6,008	3,344	2,025	1,466	1,368	1,402	1,376	1,308	1,335
pH	6.85	--	--	--	6.91	6.96	7.04	6.98	6.61	6.95	6.13	5.24

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-19D (continued)						MW-19D2					
	HCQ	MSQ	HC	MSU	MSQ	HC	MS	HC	HC	HC	HC	HC
Sample Depth Sample Date	01/16/13	01/16/13	01/30/13	02/11/13	02/11/13	02/28/13	11/29/12	12/16/12	12/17/12	12/18/12	12/19/12	12/27/12
VOC (µg/L)												
1,1,1,2-Tetrachloroethane	<0.5	<1.3	NA	<1.3	<1.3	NA	<0.5	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	<0.56	<1.4	NA	<1.4	<1.4	NA	<0.56	NA	NA	NA	NA	NA
1,1-Dichloroethene	<0.62	<1.6	NA	<1.6	<1.6	NA	<0.62	NA	NA	NA	NA	NA
Benzene	<0.15	<0.37	NA	<0.37	<0.37	NA	<0.15	NA	NA	NA	NA	NA
Bromoform	<0.56	<1.4	NA	<1.4	<1.4	NA	<0.56	NA	NA	NA	NA	NA
Bromomethane	<0.62	<1.6	NA	<1.6	<1.6	NA	<0.62	NA	NA	NA	NA	NA
Carbon tetrachloride	<0.52	<1.3	NA	<1.3	<1.3	NA	<0.52	NA	NA	NA	NA	NA
Chloroform	<0.4	<1	NA	<1	<1	NA	<0.4	NA	NA	NA	NA	NA
Chloromethane	<0.36	<0.9	NA	<0.9	<0.9	NA	<0.36	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	130	170	NA	440	450	NA	250	NA	NA	NA	NA	NA
Dibromochloromethane	<0.64	<1.6	NA	<1.6	<1.6	NA	<0.64	NA	NA	NA	NA	NA
Ethylbenzene	<0.26	<0.65	NA	<0.65	<0.65	NA	<0.26	NA	NA	NA	NA	NA
Methylene Chloride	<1.4	<3.4	NA	<3.4	<3.4	NA	<1.4	NA	NA	NA	NA	NA
Naphthalene	<0.32	<0.8	NA	<0.8	<0.8	NA	<0.32	NA	NA	NA	NA	NA
Tetrachloroethene	1,300	1,700	NA	2,800	2,700	NA	680	NA	NA	NA	NA	NA
Toluene	0.88 J	<0.55	NA	<0.55	<0.55	NA	<0.22	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	<0.5	<1.3	NA	<1.3	4.4 J	NA	3.4	NA	NA	NA	NA	NA
Trichloroethene	41	69	NA	190	180	NA	110	NA	NA	NA	NA	NA
Vinyl chloride	2.8	3.2	NA	2.4 J	8	NA	0.93 J	NA	NA	NA	NA	NA
Xylenes, Total	<0.14	<0.34	NA	<0.34	<0.34	NA	<0.14	NA	NA	NA	NA	NA
Total Metals (µg/L)												
Arsenic	NA	<0.15	NA	0.15 J	NA	NA	0.25 J	NA	0.22 J	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	140	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	0.11 J	NA	NA	NA
Chromium	NA	10	NA	14	NA	NA	1.4 J	NA	<0.64	NA	NA	NA
Iron	NA	120 B	NA	<37	NA	NA	50 J B	NA	<37	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	<0.16	NA	NA	NA
Manganese	NA	1,100	NA	490 B	NA	NA	330	NA	480	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	<0.071	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	0.69 J	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	<0.069	NA	NA	NA

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-19D (continued)						MW-19D2					
	HCQ	MSQ	HC	MSU	MSQ	HC	MS	HC	HC	HC	HC	HC
Sample Depth	01/16/13	01/16/13	01/30/13	02/11/13	02/11/13	02/28/13	11/29/12	12/16/12	12/17/12	12/18/12	12/19/12	12/27/12
Sample Date	01/16/13	01/16/13	01/30/13	02/11/13	02/11/13	02/28/13	11/29/12	12/16/12	12/17/12	12/18/12	12/19/12	12/27/12
Dissolved Metals (µg/L)												
Arsenic	NA	<0.15	NA	<0.15	NA	NA	0.27 J	NA	NA	NA	NA	NA
Barium (Dissolved)	NA	49	NA	44	NA	NA	130	NA	NA	NA	NA	NA
Cadmium (Dissolved)	NA	<0.1	NA	<0.1	NA	NA	<0.1	NA	NA	NA	NA	NA
Chromium (Dissolved)	NA	9.6	NA	13	NA	NA	1.1 J	NA	NA	NA	NA	NA
Iron (Dissolved)	NA	<37	NA	<37	NA	NA	<37	NA	NA	NA	NA	NA
Lead (Dissolved)	NA	<0.16	NA	0.19 J	NA	NA	0.42 J	NA	NA	NA	NA	NA
Manganese (Dissolved)	NA	940	NA	400 B	NA	NA	290	NA	NA	NA	NA	NA
Mercury (Dissolved)	NA	0.32	NA	0.13 J	NA	NA	0.12 J	NA	NA	NA	NA	NA
Selenium (Dissolved)	NA	0.97 J	NA	0.79 J	NA	NA	0.75 J	NA	NA	NA	NA	NA
Silver (Dissolved)	NA	<0.069	NA	<0.069	NA	NA	<0.069	NA	NA	NA	NA	NA
MISC (mg/L)												
Bromide	0.34	0.33	0.4	0.27	NA	0.29	<0.77	0.22 J	0.24 J	0.23 J	0.23 J	0.22 J
Chloride	200	200	200	200	NA	190	300	290	300	320	320	270
TOC Dup	NA	5.2	NA	5	NA	NA	4.6	NA	4.3	NA	NA	NA
Total Dissolved Solids	1,100	1,100	1,000	1,100	NA	1,100	1,500	1,600	1,600	1,500	1,500	1,500
Deuterated Water (permil)	-61.8	-62.4	-61.2	-63.3	NA	-63.0	-61.6	NA	-60.2	-61.3	-60.9	-60.7
Field Parameters												
Conductivity (µS/cm)	1,248	1,347	1,459	1,463	1,463	1,460	--	1,716	1,709	1,691	1,687	1,605
pH	6.48	5.23	6.68	6.9	6.9	7	--	6.86	6.74	6.84	6.79	6.80

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-19D2 (continued)						MW-20D					
	HC	HCU	MSU	HC	MSU	HC	MS	HC	HC	HC	HC	HC
Sample Depth Sample Date	01/02/13	01/17/13	01/17/13	01/31/13	02/11/13	02/28/13	11/29/12	12/11/12	12/12/12	12/13/12	12/14/12	12/15/12
VOC (µg/L)												
1,1,1,2-Tetrachloroethane	NA	<0.25	<0.5	NA	<0.5	NA	<1.3	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	<0.28	<0.56	NA	<0.56	NA	<1.4	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	<0.31	<0.62	NA	<0.62	NA	<1.6	NA	NA	NA	NA	NA
Benzene	NA	<0.074	<0.15	NA	<0.15	NA	<0.37	NA	NA	NA	NA	NA
Bromoform	NA	<0.28	<0.56	NA	<0.56	NA	<1.4	NA	NA	NA	NA	NA
Bromomethane	NA	<0.31	<0.62	NA	<0.62	NA	<1.6	NA	NA	NA	NA	NA
Carbon tetrachloride	NA	<0.26	<0.52	NA	<0.52	NA	<1.3	NA	NA	NA	NA	NA
Chloroform	NA	0.61 J	<0.4	NA	<0.4	NA	<1	NA	NA	NA	NA	NA
Chloromethane	NA	<0.18	<0.36	NA	<0.36	NA	<0.9	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	280	320	NA	270	NA	370	NA	NA	NA	NA	NA
Dibromochloromethane	NA	<0.32	<0.64	NA	<0.64	NA	<1.6	NA	NA	NA	NA	NA
Ethylbenzene	NA	<0.13	<0.26	NA	<0.26	NA	<0.65	NA	NA	NA	NA	NA
Methylene Chloride	NA	<0.68	<1.4	NA	<1.4	NA	<3.4	NA	NA	NA	NA	NA
Naphthalene	NA	<0.16	<0.32	NA	<0.32	NA	<0.8	NA	NA	NA	NA	NA
Tetrachloroethene	NA	620	1,200	NA	1,300	NA	1,600	NA	NA	NA	NA	NA
Toluene	NA	<0.11	<0.22	NA	<0.22	NA	<0.55	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	4.2	4.9	NA	4.2	NA	5	NA	NA	NA	NA	NA
Trichloroethene	NA	110	160	NA	150	NA	170	NA	NA	NA	NA	NA
Vinyl chloride	NA	<0.1	<0.2	NA	<0.2	NA	3.2	NA	NA	NA	NA	NA
Xylenes, Total	NA	<0.068	<0.14	NA	<0.14	NA	<0.34	NA	NA	NA	NA	NA
Total Metals (µg/L)												
Arsenic	NA	NA	1.3 J	NA	0.21 J	NA	0.24 J	NA	NA	<1.5	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	45 B	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
Chromium	NA	NA	<3.2	NA	<0.64	NA	<0.64	NA	NA	80	NA	NA
Iron	NA	NA	1,800	NA	55 J	NA	<37	NA	NA	<370	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.6	NA	NA
Manganese	NA	NA	1,800	NA	270 B	NA	27	NA	NA	81,000 B	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.5	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.69	NA	NA

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-19D2 (continued)						MW-20D					
	HC	HCU	MSU	HC	MSU	HC	MS	HC	HC	HC	HC	HC
Sample Depth Sample Date	01/02/13	01/17/13	01/17/13	01/31/13	02/11/13	02/28/13	11/29/12	12/11/12	12/12/12	12/13/12	12/14/12	12/15/12
Dissolved Metals (µg/L)												
Arsenic	NA	NA	0.95 J	NA	0.18 J	NA	0.18 J	NA	NA	NA	NA	NA
Barium (Dissolved)	NA	NA	550	NA	88	NA	59	NA	NA	NA	NA	NA
Cadmium (Dissolved)	NA	NA	0.58 J	NA	0.13 J	NA	<0.1	NA	NA	NA	NA	NA
Chromium (Dissolved)	NA	NA	<3.2	NA	<0.64	NA	<0.64	NA	NA	NA	NA	NA
Iron (Dissolved)	NA	NA	<180	NA	<37	NA	<37	NA	NA	NA	NA	NA
Lead (Dissolved)	NA	NA	<0.78	NA	0.21 J	NA	<0.16	NA	NA	NA	NA	NA
Manganese (Dissolved)	NA	NA	1,700	NA	250 B	NA	25	NA	NA	NA	NA	NA
Mercury (Dissolved)	NA	NA	NA	NA	<0.071	NA	<0.071	NA	NA	NA	NA	NA
Selenium (Dissolved)	NA	NA	2.1 J	NA	0.46 J	NA	0.71 J	NA	NA	NA	NA	NA
Silver (Dissolved)	NA	NA	<0.34	NA	<0.069	NA	<0.069	NA	NA	NA	NA	NA
MISC (mg/L)												
Bromide	0.23 J	0.20 J	0.21 J	0.21 J	0.23 J	0.21 J	<0.77	<1.5	93 J	150	74	33 J
Chloride	270	290	280	290	310	270	170	150	170	180	170	170
TOC Dup	NA	NA	5.2	NA	4.7	NA	3.6	NA	NA	3.7 J	NA	NA
Total Dissolved Solids	1,500	1,400	1,500	1,500	1,500	1,500	920	990	5,000	16,000	10,000	4,800
Deuterated Water (permil)	-60.9	-60.9	-60.8	-58.9	-61.5	-61.7	-61.3	NA	NA	NA	NA	NA
Field Parameters												
Conductivity (µS/cm)	1,735	1,778	1,774	1,902	1,882	1,859	1,177	1,558	9,006	10,630	6,810	4,049
pH	7.02	6.31	6.57	6.5	6.7	6.9	6.83	--	--	--	6.89	6.97

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-20D (continued)											
Sample Depth	HC	HC	HC	HC	HC	HC	HCQ	MSQ	HC	HCU	HCQ	MSU
Sample Date	12/16/12	12/17/12	12/18/12	12/19/12	12/27/12	01/02/13	01/16/13	01/16/13	01/30/13	02/12/13	02/12/13	02/12/13
VOC (µg/L)												
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	<0.25	<0.25	NA	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	<0.28	<0.28	NA	<0.28	<0.28	<0.28
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	<0.31	<0.31	NA	<0.31	<0.31	<0.31
Benzene	NA	NA	NA	NA	NA	NA	<0.074	<0.074	NA	<0.074	<0.074	<0.074
Bromoform	NA	NA	NA	NA	NA	NA	<0.28	<0.28	NA	1.5	<0.28	1.9
Bromomethane	NA	NA	NA	NA	NA	NA	<0.31	<0.31	NA	<0.31	<0.31	<0.31
Carbon tetrachloride	NA	NA	NA	NA	NA	NA	<0.26	<0.26	NA	<0.26	<0.26	<0.26
Chloroform	NA	NA	NA	NA	NA	NA	<0.2	<0.2	NA	<0.2	<0.2	<0.2
Chloromethane	NA	NA	NA	NA	NA	NA	<0.18	<0.18	NA	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	<0.12	0.69 J	NA	<0.12	22	<0.12
Dibromochloromethane	NA	NA	NA	NA	NA	NA	<0.32	<0.32	NA	<0.32	<0.32	<0.32
Ethylbenzene	NA	NA	NA	NA	NA	NA	<0.13	<0.13	NA	<0.13	<0.13	<0.13
Methylene Chloride	NA	NA	NA	NA	NA	NA	<0.68	<0.68	NA	7.7	7.9	7.7
Naphthalene	NA	NA	NA	NA	NA	NA	<0.16	<0.16	NA	<0.16	<0.16	<0.16
Tetrachloroethene	NA	NA	NA	NA	NA	NA	130	190	NA	400	640	450
Toluene	NA	NA	NA	NA	NA	NA	0.39 J	0.45 J	NA	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	<0.25	<0.25	NA	<0.25	<0.25	<0.25
Trichloroethene	NA	NA	NA	NA	NA	NA	<0.19	0.54	NA	<0.19	19	<0.19
Vinyl chloride	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	<0.1	<0.1	<0.1
Xylenes, Total	NA	NA	NA	NA	NA	NA	<0.068	<0.068	NA	<0.068	<0.068	<0.068
Total Metals (µg/L)												
Arsenic	NA	NA	NA	NA	NA	NA	NA	<0.74	NA	NA	NA	<0.74
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	100	NA	NA	NA	80
Iron	NA	NA	NA	NA	NA	NA	NA	<180	NA	NA	NA	330 J
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	35,000	NA	NA	NA	16,000
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-20D (continued)											
Sample Depth	HC	HC	HC	HC	HC	HC	HCQ	MSQ	HC	HCU	HCQ	MSU
Sample Date	12/16/12	12/17/12	12/18/12	12/19/12	12/27/12	01/02/13	01/16/13	01/16/13	01/30/13	02/12/13	02/12/13	02/12/13
Dissolved Metals (µg/L)												
Arsenic	NA	NA	NA	NA	NA	NA	NA	<0.74	NA	NA	NA	<0.74
Barium (Dissolved)	NA	NA	NA	NA	NA	NA	NA	25	NA	NA	NA	29
Cadmium (Dissolved)	NA	NA	NA	NA	NA	NA	NA	<0.52	NA	NA	NA	<0.52
Chromium (Dissolved)	NA	NA	NA	NA	NA	NA	NA	100	NA	NA	NA	82
Iron (Dissolved)	NA	NA	NA	NA	NA	NA	NA	<180	NA	NA	NA	320 J
Lead (Dissolved)	NA	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	<0.78
Manganese (Dissolved)	NA	NA	NA	NA	NA	NA	NA	34,000	NA	NA	NA	15,000
Mercury (Dissolved)	NA	NA	NA	NA	NA	NA	NA	0.65	NA	NA	NA	0.29
Selenium (Dissolved)	NA	NA	NA	NA	NA	NA	NA	3.0 J	NA	NA	NA	2.6 J
Silver (Dissolved)	NA	NA	NA	NA	NA	NA	NA	<0.34	NA	NA	NA	<0.34
MISC (mg/L)												
Bromide	13 J	20 J	11 J	8.8	3.2 J	4.5 J	1.3	1.3	0.92	0.76	NA	0.76
Chloride	170	170	180	180	110	170	120	130	130	140	NA	140
TOC Dup	NA	NA	NA	NA	NA	NA	NA	3.5 J	NA	NA	NA	4.4 J
Total Dissolved Solids	2,500	3,100	2,200	1,900	940	1,300	900	940	880	830	NA	840
Deuterated Water (permil)	NA	-60.6	-61.5	-61.2	-59.3	-61.1	-60.5	-60.4	-59	-61.9	NA	-62
Field Parameters												
Conductivity (µS/cm)	3,125	2,687	2,500	2,372	1,564	--	1,398	1,391	1,408	1,460	1,460	1,415
pH	6.95	6.97	6.97	6.91	6.71	4.83	6.20	6.64	5.37	7.2	7.2	6.51

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-20D (continued)		MW-20D2									
	MSQ	HC	MS	HC	HC	HC	HC	HC	HC	HC	HC	HC
Sample Depth	02/12/13	02/28/13	11/29/12	12/13/12	12/14/12	12/15/12	12/16/12	12/17/12	12/18/12	12/19/12	12/27/12	01/02/13
Sample Date	02/12/13	02/28/13	11/29/12	12/13/12	12/14/12	12/15/12	12/16/12	12/17/12	12/18/12	12/19/12	12/27/12	01/02/13
VOC (µg/L)												
1,1,1,2-Tetrachloroethane	<0.25	NA	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	<0.28	NA	<0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	<0.31	NA	<0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	<0.074	NA	<0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	<0.28	NA	<0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	<0.31	NA	<0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	<0.26	NA	<0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	<0.2	NA	<0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	<0.18	NA	<0.36	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	20	NA	330	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	<0.32	NA	<0.64	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	<0.13	NA	<0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	<0.68	NA	<1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	<0.16	NA	<0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	690	NA	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	<0.11	NA	<0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	<0.25	NA	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	20	NA	150	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	<0.1	NA	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	<0.068	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)												
Arsenic	NA	NA	0.26 J	NA	NA	NA	NA	<0.74	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	84	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	<0.52	NA	NA	NA	NA
Chromium	NA	NA	<0.64	NA	NA	NA	NA	50	NA	NA	NA	NA
Iron	NA	NA	<37	NA	NA	NA	NA	<180	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	<0.78	NA	NA	NA	NA
Manganese	NA	NA	50	NA	NA	NA	NA	110,000	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	0.9	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	5.2 J	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	<0.34	NA	NA	NA	NA

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-20D (continued)		MW-20D2									
	MSQ	HC	MS	HC	HC	HC	HC	HC	HC	HC	HC	HC
Sample Depth	MSQ	HC	MS	HC	HC	HC	HC	HC	HC	HC	HC	HC
Sample Date	02/12/13	02/28/13	11/29/12	12/13/12	12/14/12	12/15/12	12/16/12	12/17/12	12/18/12	12/19/12	12/27/12	01/02/13
Dissolved Metals (µg/L)												
Arsenic	NA	NA	0.27 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	NA	NA	170	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (Dissolved)	NA	NA	<0.64	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	NA	NA	<37	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	NA	NA	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	NA	NA	16	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	NA	NA	0.10 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	NA	NA	1.2 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	NA	NA	<0.069	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISC (mg/L)												
Bromide	NA	0.78	<0.77	3.2 J	11 J	13	<39	<39	<39	<39	<39	<39
Chloride	NA	210	190	280	250	230	910	480	1,300	1,200	740	580
TOC Dup	NA	NA	3.8	NA	NA	NA	NA	2.5 J	NA	NA	NA	NA
Total Dissolved Solids	NA	1,000	1,000	1,500	2,400	3,000	25,000	12,000	42,000	34,000	19,000	12,000
Deuterated Water (permil)	NA	-62.9	-60.8	NA	NA	NA	NA	-59.2	-59.3	-59.6	-60.3	-60.9
Field Parameters												
Conductivity (µS/cm)	1,415	10,813	1,325	2,301	5,030	8,410	26,373	26,145	28,755	24,752	11,338	9,319
pH	6.51	6.98	6.84	--	6.84	6.94	6.93	6.78	7.04	6.89	6.78	7.29

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-20D2 (continued)									MW-21D		
	HCQ	HCU	MSQ	HC	HCU	HCQ	MSU	MSQ	HC	MS	HC	HC
Sample Depth	01/16/13	01/16/13	01/16/13	01/30/13	02/12/13	02/12/13	02/12/13	02/12/13	02/28/13	11/28/12	12/12/12	12/13/12
Sample Date	01/16/13	01/16/13	01/16/13	01/30/13	02/12/13	02/12/13	02/12/13	02/12/13	02/28/13	11/28/12	12/12/12	12/13/12
VOC (µg/L)												
1,1,1,2-Tetrachloroethane	<0.25	<0.25	<0.25	NA	<0.25	<0.25	<0.25	<0.25	NA	<0.5	NA	NA
1,1,2-Trichloroethane	<0.28	<0.28	<0.28	NA	<0.28	<0.28	<0.28	<0.28	NA	<0.56	NA	NA
1,1-Dichloroethene	<0.31	<0.31	<0.31	NA	<0.31	<0.31	<0.31	<0.31	NA	<0.62	NA	NA
Benzene	<0.074	0.30 J	<0.074	NA	<0.074	<0.074	<0.074	0.19 J	NA	<0.15	NA	NA
Bromoform	<0.28	4.1	<0.28	NA	2.1	<0.28	1.9	<0.28	NA	<0.56	NA	NA
Bromomethane	<0.31	<0.31	<0.31	NA	<0.31	<0.31	<0.31	<0.31	NA	<0.62	NA	NA
Carbon tetrachloride	<0.26	<0.26	<0.26	NA	<0.26	<0.26	<0.26	<0.26	NA	<0.52	NA	NA
Chloroform	<0.2	<0.2	0.47 J	NA	<0.2	<0.2	<0.2	<0.2	NA	<0.4	NA	NA
Chloromethane	<0.18	<0.18	<0.18	NA	<0.18	<0.18	<0.18	<0.18	NA	<0.36	NA	NA
cis-1,2-Dichloroethene	<0.12	<0.12	<0.12	NA	<0.12	<0.12	<0.12	2.8	NA	380	NA	NA
Dibromochloromethane	<0.32	<0.32	<0.32	NA	<0.32	<0.32	<0.32	<0.32	NA	<0.64	NA	NA
Ethylbenzene	<0.13	<0.13	<0.13	NA	<0.13	<0.13	<0.13	<0.13	NA	<0.26	NA	NA
Methylene Chloride	<0.68	<0.68	<0.68	NA	<0.68	<0.68	<0.68	<0.68	NA	<1.4	NA	NA
Naphthalene	<0.16	<0.16	<0.16	NA	<0.16	<0.16	<0.16	<0.16	NA	<0.32	NA	NA
Tetrachloroethene	3	<0.17	190	NA	<0.17	18	<0.17	700	NA	1,200	NA	NA
Toluene	0.68	<0.11	0.34 J	NA	<0.11	<0.11	<0.11	<0.11	NA	<0.22	NA	NA
trans-1,2-Dichloroethene	<0.25	<0.25	<0.25	NA	<0.25	<0.25	<0.25	<0.25	NA	5.1	NA	NA
Trichloroethene	<0.19	<0.19	<0.19	NA	<0.19	<0.19	<0.19	7.9	NA	180	NA	NA
Vinyl chloride	<0.1	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	NA	1.4	NA	NA
Xylenes, Total	<0.068	<0.068	<0.068	NA	<0.068	<0.068	<0.068	<0.068	NA	<0.14	NA	NA
Total Metals (µg/L)												
Arsenic	NA	NA	<0.74	NA	NA	NA	<0.74	NA	NA	0.20 J	NA	<1.5
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	29 B
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Chromium	NA	NA	39	NA	NA	NA	43	NA	NA	<0.64	NA	41 J
Iron	NA	NA	<180	NA	NA	NA	<180	NA	NA	<37	NA	<370
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.6
Manganese	NA	NA	140,000	NA	NA	NA	99,000 B	NA	NA	74	NA	220,000 B
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.66
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.5
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.69

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-20D2 (continued)									MW-21D		
Sample Depth	HCQ	HCU	MSQ	HC	HCU	HCQ	MSU	MSQ	HC	MS	HC	HC
Sample Date	01/16/13	01/16/13	01/16/13	01/30/13	02/12/13	02/12/13	02/12/13	02/12/13	02/28/13	11/28/12	12/12/12	12/13/12
Dissolved Metals (µg/L)												
Arsenic	NA	NA	<0.74	NA	NA	NA	<0.74	NA	NA	0.19 J	NA	NA
Barium (Dissolved)	NA	NA	28	NA	NA	NA	24	NA	NA	75	NA	NA
Cadmium (Dissolved)	NA	NA	<0.52	NA	NA	NA	<0.52	NA	NA	<0.1	NA	NA
Chromium (Dissolved)	NA	NA	42	NA	NA	NA	49	NA	NA	<0.64	NA	NA
Iron (Dissolved)	NA	NA	<180	NA	NA	NA	<180	NA	NA	<37	NA	NA
Lead (Dissolved)	NA	NA	<0.78	NA	NA	NA	<0.78	NA	NA	<0.16	NA	NA
Manganese (Dissolved)	NA	NA	170,000	NA	NA	NA	75,000 B	NA	NA	75	NA	NA
Mercury (Dissolved)	NA	NA	0.16 J	NA	NA	NA	0.092 J	NA	NA	0.16 J B	NA	NA
Selenium (Dissolved)	NA	NA	3.8 J	NA	NA	NA	3.0 J	NA	NA	<0.25	NA	NA
Silver (Dissolved)	NA	NA	<0.34	NA	NA	NA	<0.34	NA	NA	0.12 J	NA	NA
MISC (mg/L)												
Bromide	<39	NA	<7.7	<7.7	<7.7	<0.077	<3.9	<0.077	<7.7	<0.77	0.12 J	77
Chloride	420	NA	260	400	330	NA	260	NA	1,100	260	110	190
TOC Dup	NA	NA	3.7 J	NA	NA	NA	4.7 J	NA	NA	3.8	NA	3.4 J
Total Dissolved Solids	8,700	NA	2,400	7,700	5,500	NA	1,900	NA	3,900	1,400	1,000	8,900
Deuterated Water (permil)	-60.7	NA	-60.8	-59.9	-60	NA	-60	NA	-70.8	-59.3	NA	NA
Field Parameters												
Conductivity (µS/cm)	8,508	8,508	7,370	6,287	5,554	5,554	5,215	5,215	9,561	1,470	1,235	3,568
pH	6.20	6.20	3.30	5.37	6.9	6.9	2.82	2.82	6.86	6.81	--	--

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-21D (continued)											
Sample Depth	HC	HC	HC	HC	HC	HC	HC	HC	HCQ	MSQ	HC	HCU
Sample Date	12/14/12	12/15/12	12/16/12	12/17/12	12/18/12	12/19/12	12/27/12	01/02/13	01/17/13	01/17/13	01/30/13	02/14/13
VOC (µg/L)												
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	<0.25	<0.25	NA	<0.5
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	<0.28	<0.28	NA	<0.56
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	<0.31	<0.31	NA	<0.62
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	<0.074	<0.074	NA	<0.15
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	<0.28	<0.28	NA	<0.56
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	<0.31	<0.31	NA	<0.62
Carbon tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	<0.26	<0.26	NA	<0.52
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	0.52 J	<0.2	NA	<0.4
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	<0.18	<0.18	NA	<0.36
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	22	85	NA	36
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	<0.32	<0.32	NA	<0.64
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	0.58	0.43 J	NA	<0.26
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	NA	<0.68	<0.68	NA	<1.4
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	<0.16	<0.16	NA	<0.32
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	270	700	NA	1,700
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	0.55	0.38 J	NA	<0.22
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	<0.25	<0.25	NA	<0.5
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	8.5	23	NA	43
Vinyl chloride	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	<0.2
Xylenes, Total	NA	NA	NA	NA	NA	NA	NA	NA	5	2.5	NA	<0.14
Total Metals (µg/L)												
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.74	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	22 J	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	<180	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,000	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-21D (continued)											
Sample Depth	HC	HC	HC	HC	HC	HC	HC	HC	HCQ	MSQ	HC	HCU
Sample Date	12/14/12	12/15/12	12/16/12	12/17/12	12/18/12	12/19/12	12/27/12	01/02/13	01/17/13	01/17/13	01/30/13	02/14/13
Dissolved Metals (µg/L)												
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.74	NA	NA
Barium (Dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	26	NA	NA
Cadmium (Dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.52	NA	NA
Chromium (Dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	23 J	NA	NA
Iron (Dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<180	NA	NA
Lead (Dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.78	NA	NA
Manganese (Dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,100	NA	NA
Mercury (Dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.3	NA	NA
Silver (Dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.34	NA	NA
MISC (mg/L)												
Bromide	17	22 J	29 J	14	8.2 J	5.4	1.6 J	0.96 J	0.45 J	0.39 J	0.31	0.30 J
Chloride	200	190	210	220	230	230	220	250	190	190	200	200
TOC Dup	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.4	NA	NA
Total Dissolved Solids	3,000	3,800	3,700	2,700	2,000	1,700	1,300	1,300	1,200	1,200	1,100	1,100
Deuterated Water (permil)	NA	NA	NA	-58.9	-60.6	-60.3	-60.3	-61.2	-60.4	-60.8	-59.2	NA
Field Parameters												
Conductivity (µS/cm)	1,832	4,111	2,587	2,080	1,468	1,687	1,511	1,508	1,469	1,467	1,540	1,460
pH	6.89	9.91	6.90	6.89	6.91	6.85	5.36	4.78	6.69	6.60	6.9	6.6

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-21D				MW-21D2							
	HCQ	MSU	MSQ	HC	MS	HC	HC	HC	HC	HC	HC	HCQ
Sample Depth Sample Date	02/14/13	02/14/13	02/14/13	02/28/13	11/28/12	12/16/12	12/17/12	12/18/12	12/19/12	12/27/12	01/02/13	01/17/13
VOC (µg/L)												
1,1,1,2-Tetrachloroethane	<0.5	<0.5	<0.5	NA	<1.3	NA	NA	NA	NA	NA	NA	<0.25
1,1,2-Trichloroethane	<0.56	<0.56	<0.56	NA	<1.4	NA	NA	NA	NA	NA	NA	<0.28
1,1-Dichloroethene	<0.62	<0.62	<0.62	NA	<1.6	NA	NA	NA	NA	NA	NA	<0.31
Benzene	<0.15	<0.15	<0.15	NA	<0.37	NA	NA	NA	NA	NA	NA	0.23 J
Bromoform	<0.56	<0.56	<0.56	NA	<1.4	NA	NA	NA	NA	NA	NA	<0.28
Bromomethane	<0.62	<0.62	<0.62	NA	<1.6	NA	NA	NA	NA	NA	NA	<0.31
Carbon tetrachloride	<0.52	<0.52	<0.52	NA	<1.3	NA	NA	NA	NA	NA	NA	<0.26
Chloroform	<0.4	<0.4	<0.4	NA	<1	NA	NA	NA	NA	NA	NA	0.74 J
Chloromethane	<0.36	<0.36	<0.36	NA	<0.9	NA	NA	NA	NA	NA	NA	<0.18
cis-1,2-Dichloroethene	260	41	270	NA	300	NA	NA	NA	NA	NA	NA	<0.12
Dibromochloromethane	<0.64	<0.64	<0.64	NA	<1.6	NA	NA	NA	NA	NA	NA	<0.32
Ethylbenzene	<0.26	<0.26	<0.26	NA	<0.65	NA	NA	NA	NA	NA	NA	0.57
Methylene Chloride	<1.4	<1.4	<1.4	NA	<3.4	NA	NA	NA	NA	NA	NA	<0.68
Naphthalene	<0.32	<0.32	<0.32	NA	<0.8	NA	NA	NA	NA	NA	NA	1.8
Tetrachloroethene	1,600	1,700	1,600	NA	2,600	NA	NA	NA	NA	NA	NA	170
Toluene	<0.22	<0.22	<0.22	NA	<0.55	NA	NA	NA	NA	NA	NA	0.67
trans-1,2-Dichloroethene	<0.5	<0.5	<0.5	NA	2.7 J	NA	NA	NA	NA	NA	NA	<0.25
Trichloroethene	130	46	130	NA	160	NA	NA	NA	NA	NA	NA	<0.19
Vinyl chloride	<0.2	<0.2	<0.2	NA	<0.5	NA	NA	NA	NA	NA	NA	<0.1
Xylenes, Total	<0.14	<0.14	<0.14	NA	<0.34	NA	NA	NA	NA	NA	NA	4.5
Total Metals (µg/L)												
Arsenic	NA	<0.15	NA	NA	0.29 J	NA	0.17 J	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	38	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA
Chromium	NA	15	NA	NA	6.5	NA	2.7 J	NA	NA	NA	NA	NA
Iron	NA	170	NA	NA	460	NA	<37	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	<0.16	NA	NA	NA	NA	NA
Manganese	NA	1,800	NA	NA	450	NA	110	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	<0.071	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	0.34 J	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	<0.069	NA	NA	NA	NA	NA

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-21D				MW-21D2							
	HCQ	MSU	MSQ	HC	MS	HC	HC	HC	HC	HC	HC	HCQ
Sample Depth	02/14/13	02/14/13	02/14/13	02/28/13	11/28/12	12/16/12	12/17/12	12/18/12	12/19/12	12/27/12	01/02/13	01/17/13
Sample Date	02/14/13	02/14/13	02/14/13	02/28/13	11/28/12	12/16/12	12/17/12	12/18/12	12/19/12	12/27/12	01/02/13	01/17/13
Dissolved Metals (µg/L)												
Arsenic	NA	<0.15	NA	NA	0.22 J	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	NA	24	NA	NA	100	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	NA	<0.1	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA
Chromium (Dissolved)	NA	11	NA	NA	5.6	NA	NA	NA	NA	NA	NA	NA
Iron (Dissolved)	NA	<37	NA	NA	<37	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	NA	0.31 J B	NA	NA	<0.16	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	NA	1,400	NA	NA	410	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	NA	<0.071	NA	NA	0.18 J B	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	NA	0.27 J	NA	NA	0.37 J	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	NA	<0.069	NA	NA	<0.069	NA	NA	NA	NA	NA	NA	NA
MISC (mg/L)												
Bromide	NA	0.28 J	NA	0.29	<0.77	0.097 J	0.094 J	0.097 J	0.10 J	<0.39	<0.77	<0.77
Chloride	NA	200	NA	200	150	100	110	98	100	100	130	140
TOC Dup	NA	3.9	NA	NA	3.4	NA	2.3	NA	NA	NA	NA	NA
Total Dissolved Solids	NA	1,100	NA	1,200	1,100	950	930	910	920	1,000	1,100	1,900
Deuterated Water (permil)	NA	-61.3	NA	-60.7	-55.9	NA	-53.8	-55.7	-55.4	-55.8	-55.5	-55.1
Field Parameters												
Conductivity (µS/cm)	1,460	1,415	1,415	3,421	1,093	1,429	1,439	1,815	1,438	1,101	1,221	1,663
pH	6.6	6.51	6.51	6.76	6.96	6.96	7.10	7.05	6.90	6.49	7.02	5.48

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Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-21D2 (continued)						
	MSQ	HC	HCU	HCQ	MSU	MSQ	HC
Sample Depth	01/17/13	01/31/13	02/14/13	02/14/13	02/14/13	02/14/13	02/28/13
Sample Date							
VOC (µg/L)							
1,1,1,2-Tetrachloroethane	<0.25	NA	<0.5	<1.3	0.70 J	<1.3	NA
1,1,2-Trichloroethane	1.4	NA	8.8	<1.4	1.6	<1.4	NA
1,1-Dichloroethene	<0.31	NA	<0.62	<1.6	<0.31	<1.6	NA
Benzene	0.25 J	NA	0.54 J	<0.37	0.36 J	<0.37	NA
Bromoform	<0.28	NA	<0.56	<1.4	0.93 J	<1.4	NA
Bromomethane	<0.31	NA	<0.62	<1.6	<0.31	<1.6	NA
Carbon tetrachloride	<0.26	NA	<0.52	<1.3	<0.26	<1.3	NA
Chloroform	<0.2	NA	1.6 J	<1	1.4	<1	NA
Chloromethane	<0.18	NA	1.5 J	<0.9	1.2	<0.9	NA
cis-1,2-Dichloroethene	<0.12	NA	<0.24	62	<0.12	<0.6	NA
Dibromochloromethane	<0.32	NA	<0.64	<1.6	<0.32	<1.6	NA
Ethylbenzene	0.62	NA	<0.26	<0.65	<0.13	<0.65	NA
Methylene Chloride	<0.68	NA	<1.4	<3.4	<0.68	<3.4	NA
Naphthalene	<0.16	NA	<0.32	<0.8	<0.16	<0.8	NA
Tetrachloroethene	1,200	NA	440	4,300	<0.17	3,900	NA
Toluene	0.48 J	NA	<0.22	<0.55	<0.11	<0.55	NA
trans-1,2-Dichloroethene	<0.25	NA	<0.5	<1.3	<0.25	<1.3	NA
Trichloroethene	<0.19	NA	<0.38	73	<0.19	11	NA
Vinyl chloride	<0.1	NA	<0.2	<0.5	<0.1	<0.5	NA
Xylenes, Total	4.3	NA	<0.14	<0.34	<0.068	<0.34	NA
Total Metals (µg/L)							
Arsenic	<0.74	NA	NA	NA	<1.5	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA
Chromium	40	NA	NA	NA	46 J	NA	NA
Iron	<180	NA	NA	NA	<370	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA
Manganese	340,000	NA	NA	NA	290,000	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 35.

Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Well	MW-21D2 (continued)						
	MSQ	HC	HCU	HCQ	MSU	MSQ	HC
Sample Depth							
Sample Date	01/17/13	01/31/13	02/14/13	02/14/13	02/14/13	02/14/13	02/28/13
Dissolved Metals (µg/L)							
Arsenic	<0.74	NA	NA	NA	<1.5	NA	NA
Barium (Dissolved)	37	NA	NA	NA	21 J	NA	NA
Cadmium (Dissolved)	<0.52	NA	NA	NA	<1	NA	NA
Chromium (Dissolved)	45	NA	NA	NA	48 J	NA	NA
Iron (Dissolved)	<180	NA	NA	NA	<370	NA	NA
Lead (Dissolved)	<0.78	NA	NA	NA	4.7 J B	NA	NA
Manganese (Dissolved)	340,000	NA	NA	NA	320,000	NA	NA
Mercury (Dissolved)	NA	NA	NA	NA	0.14 J	NA	NA
Selenium (Dissolved)	5.4 J	NA	NA	NA	2.8 J	NA	NA
Silver (Dissolved)	<0.34	NA	NA	NA	<0.69	NA	NA
MISC (mg/L)							
Bromide	<0.77	<7.7	<0.39	NA	<3.9	NA	<7.7
Chloride	130	200	160	NA	190	NA	200
TOC Dup	2.8 J	NA	NA	NA	4.1 J	NA	NA
Total Dissolved Solids	1,800	4,000	1,200	NA	1,700	NA	3,900
Deuterated Water (permil)	-54.9	-53	-60.9	NA	-55.2	NA	-55.6
Field Parameters							
Conductivity (µS/cm)	1,642	2,397	2,896	2,896	2,854	2,854	3,130
pH	2.60	7.1	6.8	6.8	4.57	4.57	6.70

Footnotes on Page 35.

Table 1. ISCO Pilot Test Groundwater Analytical Data, Madison Kipp Corporation, Madison, Wisconsin.

Only VOCs detected in one or more water samples are listed on the table. Refer to laboratory analytical reports for a complete list of VOCs analyzed.

Conductivity readings included for Monitoring Wells MW-5S, MW-5D, MW-5D2, MW-5D3 from January 2013 are specific conductance.

pH readings collected from December 27, 2012 through January 18, 2013 reflect multimeter interference due to sodium permanganate presence at select Monitoring Wells MW-3S, MW-19D, MW-20D, MW-21D, MW-21D2.

Multimeter out of pH calibration at MW-3D2 and MW-3D3 for readings collected from December 27, 2012 through January 18, 2013.

100 Concentration exceeds the NR 140 Wis. adm. code Preventive Action Limit (PAL).

100 Concentration exceeds the NR 140 Wis. adm. code Enforcement Standard (ES).

-- Not measured.

< Not detected.

* LCS or LCSD exceeds the control limits

B Compound was found in the blank and the sample.

HC Sample collected from screen interval with highest conductivity.

J Result is between the method detection limit and the limit of quantitation.

µg/L Micrograms per liter.

µS/cm Microsiemens per centimeter.

mg/L Milligrams per liter.

MS Sample collected from middle of screen.

NA Not analyzed.

NE Not established.

permil Isotopic ratio of hydrogen and deuterium.

Q Sample quenched using Environmental Protection Agency Guidance Document *Groundwater Sample Preservation at In-Situ Chemical Oxidation Sites - Recommended Guidelines*

U Sample not quenched.

V Serial dilution exceeds the control limits.

VOCs Volatile organic compounds.

Attachment A

DMR Form

**DISCHARGE MONITORING REPORT FORM - Groundwater from
Remedial Action Operations**

**PERMITTEE: Madison Kipp Corporation
ADDRESS: P.O. Box 8043, Madison WI 53708**

PERMIT NO. WI-0046566-6

YEAR: 2013

Outfall # or Well #	MW-3S, MW-3D, MW-3D2, MW-3D3, MW-18S, MW-19D, MW-19D2, MW-20D, MW-20D2, MW-21D, MW-21D2 all events. MW-5S, MW-5D, MW-5D2, MW-5D3, MP-13 all intervals February 11-12, 2013 only.							
Sample Point Description	Well	Well	Well	Well	Well	Well	Well	Well
Parameter Name	VOCs	Total Metals	Dissolved Metals	Deuterated Water	Total Organic Carbon	Bromide, Chloride, Total Dissolved Solids	Conductivity	pH
Parameter Units	µg/L	µg/L	µg/L	permil	mg/L	mg/L	µS/cm	
Sample Date: February 11-12, 2013	X	X	X	X	X	X	X	X
Sample Date: February 27-28, 2013				X		X	X	X
PAL	See Table 1							
ES	See Table 1							
Sample Frequency	See Manage. Plan	See Manage. Plan	See Manage. Plan	See Manage. Plan	See Manage. Plan	See Manage. Plan	See Manage. Plan	See Manage. Plan
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab

Unless noted under parameter name, each daily value entered must be the highest value of all sample types analyzed for that day.

**WISCONSIN
STATUTE 283.31**

PLEASE ATTACH NOTES AND/OR ADDRESS-NAME
CORRECTIONS ON A SEPARATE SHEET

RETURN REPORT NO LATER THAN: Monthly, 15 Days After Each Month

**SEND TO: David Mosher
DEPARTMENT OF NATURAL RESOURCES
3911 Fish Hatchery Road
Fitchburg, WI 53711-5397**

Signature of Owner or Authorized Agent

Title

Date

U. S. G. H. R.

Mark Weidner

3/15/13

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINES AND IMPRISONMENT, (40 CFR 122.5). I ALSO CERTIFY THAT THE VALUES BEING SUBMITTED ARE THE ACTUAL VALUES FOUND IN THE SAMPLES; NO VALUES HAVE BEEN MODIFIED OR CHANGED IN ANY MANNER. WHEREVER I BELIEVE A VALUE BEING REPORTED IS INACCURATE, I HAVE ADDED AN EXPLANATION INDICATING THE REASONS WHY THE VALUE IS INACCURATE.