

ASHLAND/NSP LAKEFRONT SITE
JULY 15, 2005 PROGRESS REPORT (No. 20)
WDNR BRRTS #02-02-00013
CERCLA Docket No. V-W-04-C-764
USEPA ID# WISFN057952

This is the twentieth progress report prepared in accordance with the Administrative Order on Consent (AOC) for the Ashland/NSP Lakefront Site, effective November 14, 2003. This report covers activities completed in June 2005. It is intended to meet the requirements described in Task 8 of the Statement of Work appended to the AOC.

Field Activities Completed

The sampling program for sediments, including samples for supplemental sediment, sediment stability, surface water, sediment quality triad (SQT), fish tissue and related hydrographic activities was largely completed June 13 - 24, 2005. Specifics of this work included the following:

- The Acoustic Doppler Current Profiler (ADCP) and Acoustic Doppler Velocimeter (ADV) and turbidimeter were retrieved for data recovery.
- Supplemental sediment sampling was completed at the 14 stations proposed in the approved work plan. Samples were submitted for laboratory analyses for the approved VOC, PAH and metal analytes, as well as organo-chlorine (OC) pesticides, and polychlorinated biphenyls (PCBs) in accordance with the approved QAPP Addendum No. 3 (see Reporting Activities Completed). A mobile on-site lab provided expedited turnaround for PAH analyses (PAH samples were submitted to a fixed lab as well). Selected samples were also submitted for forensic analyses in accordance with the approved QAPP.
- Sediment flume core samples were collected for sediment stability analyses at three of six originally proposed locations; poor recovery limited sample collection because of interference from overlying wood debris. (Sediment flume testing will be completed with these three samples; non-recovery for the others will be part of the final evaluation for sediment stability.)
- Sediment core samples were collected at six locations as proposed as part of the stability analyses program for radio dating.
- Surface water samples were collected for ecological risk assessment at the eight approved work plan locations (including six affected area and two reference stations), and human health risk assessment at eight separate approved locations (also including six affected area and two reference stations).
- Eight affected area stations and four reference stations were sampled for the SQT sampling program. The eight affected area stations were sampled at the proposed locations. The reference stations included the four stations selected during the May 2005 reconnaissance program. Samples were collected for sediment chemistry, benthic invertebrates and toxicity in accordance with the approved work plan. Divers were used as part of the surveys to document sample station conditions and assist with sample retrieval.
- Fish tissue samples were collected from the affected area and reference sites near the Bayfront power plant and Pamida Beach. Both electro shocking and fyke nets were used to collect samples (only fyke nets were used at Pamida Beach). Small

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fish specimens included brown bullhead and rock bass, and large fish specimens included walleye, smallmouth bass, and shorthead redhorse. Each of these species were prepared and submitted for analyses for the ecological risk assessment (ERA). Walleye and shorthead redhorse were the only species collected for the human health risk assessment (HHRA).

- Side-scan sonar, subbottom profile and hydrographic surveys were performed to document bathymetric conditions and terrain profiles of the sediment surface at the affected area.

Other remedial investigation field work performed during June 2005 included the test pit investigation, installation of the diffusion bag samples at Kreher Park and completion of the wildlife and wetland survey in the general site area.

A total of 20 test pits were excavated at the former landfill area on the west side of the Park, the former tar pit area and at the locations of earlier reported buried culverts/pipes. Soil profiles were described and soil samples collected for analyses. Selected samples of soil/coal tar mixtures were also collected for forensic analyses.

The test pit investigation encountered buried clay tiles in the area of the former landfill and coal tar dump; a buried culvert was also encountered west of the former waste water treatment plant. As a result of these findings, a work plan addendum to further investigate these features will be prepared in conjunction with the reporting of the forensic analyses data. This plan will be submitted to USEPA for review and approval.

On June 15, 2005, a round of water levels was collected from the well network. (A few wells could not be measured due to access restrictions.) This work was performed to develop current groundwater and product level measurements following completion of the recent site topographic survey. As a result of the survey, several of the well reference elevations were adjusted from the previous records. A table of the revised reference elevations and groundwater elevations developed from this measurement event is included as Table 1 to this report. A summary of measured free-phase hydrocarbon (coal tar) thickness values is included as Table 2.

The free product recovery system operated during June 2005, but was shutdown between June 15 -22, 2005 because a master breaker switch turned to the off position. The system was restarted on June 22nd and operated continuously through the end of the month. It is unknown why the switch was thrown.

Coal tar recovery during June 2005 was consistent with the low production of the previous month. Besides the shutdown mentioned above, only 10.2 gallons were recovered between June 2 and July 6, 2005. Part of this decline is attributed to a new technician making measurements at the recovery tank. However, the amount of floating product significantly declined during June 2005. Observations confirm that this recovered volume is principally

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dense “sinking product.”

Although the product recovery has declined, the effluent flow through the system has continued to operate efficiently. More than 1.2 million gallons of water has been treated by the system and sent to the Ashland POTW since startup. However, similar to the previous month (May 2005), the air treatment system yielded higher values on the effluent than on the influent. Review of this data shows that the effluent levels approach the detection limits, while the influent detection limits are either the same or slightly higher. Consequently, this indicates the influent contaminant levels of the primary hydrocarbons may be causing “dilution masking” effects to the detection limits.

A summary of the system monitoring data is included in Tables 3 – 7. Lab analysis reports for the system monitoring are included in the Appendix.

Reporting Activities Completed

QAPP Addendum No. 3 was submitted to USEPA on June 2, 2005. The Addendum addressed the following: Lake bottom surveys; lab analyses protocol for the bioassay testing and radio carbon dating; sediment flume sample and ADCP and ADV meter data collection and analyses for sediment stability, and chemical analyses for OC pesticides, PCBs and additional PAHs that were added to the program because of potential matrix interference with sediment data. (Many of these tasks were previously described as part of the approved Work Plan. However, the laboratory protocols and details on the bottom surveys were not included in the Plan.) USEPA approved the sampling schedule for the sediment program via email on June 14, 2005. A formal QAPP approval for the Addendum has not yet been received.

USEPA indicated via email it was continuing to evaluate the free-product migration and well abandonment issues described in the previous report and discussed at the May 26, 2005 meeting.

Field Activities Planned

The final round of vapor samples from the existing probes at the NSPW service center and neighboring properties will be collected on Monday, July 18, 2005. This will also include the background samples. It is anticipated this work will be completed in a few hours. The diffusion bags will be retrieved and shipped for analyses on Tuesday, July 19, 2005.

The only remaining sediment collection activities include collection of surface water samples during a high energy (i.e., storm) event, and field measurements for a UV light profile. This work is weather dependent, but is tentatively scheduled for the week of July 25, 2005.

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The only remaining approved RI activity yet to be scheduled are the geophysical surveys of the artesian wells and the MW-2(NET) well nest at Kreher Park, and the deep bedrock well (MW-2 well nest) at the NWPW service center. This work is planned to be performed concurrent with the investigation of the buried pipe structures that will be the subject of the work plan addendum previously described.

Coleman Engineering will continue to monitor the tar removal system on a weekly basis during July 2005.

Reporting Activities Planned

As described earlier, the work plan addendum for the investigation of the buried structures encountered at Kreher Park is planned for submittal in early August, 2005. Submittal is dependent on receipt of the forensic sample analyses results collected during the June 2005 test pit investigation.

Attachments:

- Table 1 – Summary of Historical Groundwater Elevations
 - Table 2 – Summary of Free Phase Hydrocarbon Thickness
 - Table 3 - Remediation System Water Quality Monitoring Results
 - Table 4 - Remediation System Air Monitoring Results
 - Table 5 - Summary of Coal Tar and Groundwater Volume Removed
 - Table 6 - Interim Treatment System – Air Treatment Summary
 - Table 7 - Interim Treatment System – Water Treatment Summary
- Appendix – Interim Treatment System - Laboratory Reporting Forms

Table 1
Summary of Historical Groundwater Elevations
Northern States Power, Ashland, Wisconsin

Well Location	Reference Elevation	Sep. 10, 2001		Dec. 3, 2001		Mar. 18, 2002		June 28, 2002		Sept 16, 2002		Dec 16, 2002		Mar. 24, 2003	
		Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations
MW-1	634.18	15.08	619.10	14.26	619.92	--	--	14.79	619.39	17.43	616.75	15.28	618.90	15.51	618.67
MW-2	634.85	14.92	619.93	--	--	--	--	--	--	--	--	--	--	--	--
MW-2A	634.24	19.50	614.74	--	--	--	--	--	--	--	--	--	--	--	--
MW-2B	634.68	10.52	624.16	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	637.43	--	--	--	--	14.70	622.73	15.00	622.43	14.75	622.68	16.21	621.22	16.43	621.00
MW-2AR	636.28	--	--	--	--	20.13	616.15	20.25	616.03	14.87	621.41	20.24	616.04	20.28	616.00
MW-2BR	636.24	--	--	--	--	11.97	624.27	12.03	624.21	12.14	624.10	10.86	625.38	10.61	625.63
MW-3	637.83	3.14	634.69	0.00	637.83	--	--	2.72	635.11	2.16	635.67	3.69	634.14	5.09	632.74
MW-4	640.92	6.40	631.63	4.98	636.05	5.60	635.43	5.02	636.01	5.86	635.17	6.60	634.43	5.78	634.43
MW-4A	641.22	14.28	626.94	14.20	627.02	13.50	627.72	13.10	628.12	14.01	627.21	14.02	627.20	14.36	626.86
MW-4B	640.98	16.61	624.37	15.32	625.66	16.27	624.71	16.73	624.25	17.16	623.82	15.98	625.00	15.93	625.05
MW-5	633.82	18.15	615.67	17.95	615.87	19.44	614.38	17.80	616.02	18.58	615.24	--	--	19.70	614.12
MW-5A	633.72	19.38	614.34	19.26	614.46	19.60	614.12	19.05	614.67	19.17	614.55	--	--	19.09	614.63
MW-5B	633.89	19.14	614.75	19.25	614.64	19.37	614.52	19.03	614.86	19.13	614.76	--	--	18.98	614.91
MW-5C	634.33	9.90	624.43	9.47	624.86	9.33	625.00	9.51	624.82	9.94	624.39	--	--	8.97	625.36
MW-6	644.88	17.01	627.87	15.95	628.93	--	--	14.25	630.63	16.58	628.30	17.04	627.84	15.54	629.34
MW-6A	644.79	20.31	624.48	19.76	625.03	--	--	20.02	624.77	20.63	624.16	19.51	625.28	19.52	625.27
MW-7	612.60	3.92	608.68	4.00	608.60	4.17	608.43	--	--	--	--	--	--	--	--
MW-7A	613.25	flowing	--	flowing	--	flowing	--	--	--	flowing	flowing	flowing	flowing	flowing	flowing
MW-8	634.42	4.79	629.63	4.46	629.96	8.09	626.33	4.52	629.90	3.79	630.63	5.81	628.61	frozen	--
MW-8A	634.62	15.68	618.94	15.24	619.38	15.27	619.35	15.47	619.15	15.72	618.90	15.02	619.60	14.94	619.68
MW-9	637.98	5.92	632.06	--	--	--	--	4.58	633.40	4.50	633.48	6.79	631.19	--	--
MW-9A	637.86	13.66	624.20	13.25	624.61	13.21	624.65	13.92	623.94	13.58	624.28	--	--	12.94	--
MW-9B	638.02	13.80	624.22	13.28	624.74	13.30	624.72	13.86	624.16	14.42	623.60	13.09	624.93	12.96	625.06
MW-9C	637.95	13.67	624.28	13.28	624.67	13.22	624.73	14.06	623.89	14.40	623.55	13.07	624.88	12.97	624.98
MW-10	638.20	4.64	633.56	4.33	633.87	4.59	633.61	3.40	634.80	4.17	634.03	5.06	633.14	8.93	629.27
MW-10A	638.07	15.55	622.52	14.19	623.88	14.21	623.86	14.61	623.46	14.98	623.09	13.91	624.16	14.05	624.02
MW-10B	638.40	22.42	615.98	22.33	616.07	21.25	617.15	21.75	616.65	21.45	616.95	21.71	616.69	frozen	--
MW-11	636.13	8.62	627.51	6.23	629.90	--	--	6.20	629.93	7.03	629.10	9.16	626.97	--	--

Notes: Reference elevation surveyed by Dames & Moore/URS

Table 1
Summary of Historical Groundwater Elevations
Northern States Power, Ashland, Wisconsin

Well Location	Reference Elevation	Sep. 10, 2001		Dec. 3, 2001		Mar. 18, 2002		June 28, 2002		Sept 16, 2002		Dec 16, 2002		Mar. 24, 2003	
		Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations
TW-13	635.72	9.54	626.29	4.58	631.25	4.71	631.12	3.86	631.97	4.50	631.33			6.06	629.86
MW-13A	635.94	20.79	615.15	21.58	614.36	21.00	614.94	20.70	615.24	20.46	615.48	20.75	615.19	20.50	615.44
MW-13B	635.90	20.83	615.07	21.21	614.69	20.75	615.15	20.62	615.28	20.13	615.77	20.25	615.65	19.98	615.92
MW-13C	636.11	11.73	624.38	11.32	624.79	11.24	624.87	11.95	624.16	12.40	623.71	11.08	625.03	11.03	625.08
MW-13D	637.09	11.81	625.28	11.39	625.70	11.39	625.70	12.03	625.06	12.52	624.57	11.16	625.93	11.08	626.01
MW-14	639.15	4.33	634.82	4.92	634.23					3.00	636.15	4.35	634.80		
MW-15	641.21	4.52	636.69	4.33	636.88	3.60	637.61	3.52	637.69	3.73	637.48	5.10	636.11	4.68	636.53
MW-16	642.20	1.74	640.46	1.05	641.15			0.40	641.80	1.66	640.54	4.20	638.00	8.03	634.17
MW-17	633.88	2.64	631.24			3.29	630.59	2.56	631.32	2.24	631.64	4.98	628.90		
MW-17A	633.68	19.94	613.74			20.18	613.50	19.90	613.78	19.77	613.91	19.32	614.36	19.80	613.88
MW-18A	635.57					20.50	615.07	20.22	615.35	20.24	615.33	19.93	615.64	20.16	615.41
MW-18B	635.52					13.46	622.06	13.75	621.77	13.98	621.54	13.12	622.40	13.31	622.21
MW-19A	636.76					21.27	615.49	20.41	616.35	20.90	615.86	20.58	616.18	20.66	616.10
MW-19B	636.65					11.74	624.91	11.58	625.07	12.38	624.27	11.25	625.40	10.90	625.75
MW-20A	642.65					24.30	618.35	24.25	618.40	24.81	617.84	24.37	618.28	24.85	617.80
MW-21A	637.82					21.75	616.07	20.87	616.95	21.57	616.25	21.26	616.56	21.7	616.12
MW-22A	638.34							19.11	619.23	19.44	618.90	19.16	619.18	19.56	618.78
MW-22B	638.50							14.56	623.94	14.79	623.71	13.80	624.70	13.87	624.63
MW-1(NET)	608.40	7.30	601.10	7.47	600.93	8.00	600.40	7.17	601.23	7.09	601.31	7.67	600.73	8.27	600.13
MW-2(NET)	608.23	7.11	601.12	7.24	600.99	7.79	600.44	6.95	601.28					7.98	600.25
MW-2A(NET)	607.99									flowing	flowing	flowing	flowing	flowing	flowing
MW-2B(NET)	608.50									flowing	flowing	flowing	flowing	flowing	flowing
MW-3(NET)	612.10	7.17	604.93	11.25	600.85	11.38	600.72	10.75	601.35	10.38	601.72	11.52	600.58	12.24	599.86
TW-11	606.80	5.75	601.05	5.75	601.05	5.74	601.06	3.58	603.22	3.75	603.05	6.00	600.80	5.99	600.81
TW-12	608.45							7.38	601.07					8.48	599.97

Notes: Reference elevation surveyed by Dames & Moore/URS

Table 1
Summary of Historical Groundwater Elevations
Northern States Power, Ashland, Wisconsin

Well Location	Reference Elevation	June 23, 2003		September 29, 2003		December 15, 2003		March 16, 2004		June 14, 2004		September 20, 2004		December 6, 2004		March 15, 2005		
		Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	
AW-1											flowing		flowing	--	flowing	--	flowing	--
AW-2											flowing		flowing	--	flowing	--	flowing	--
MW-1	634.18	14.51	619.67	14.80	619.38	NM		NM		15.51	618.67	14.70	619.48	15.10	619.08	15.22	618.96	
MW-2R	637.43	15.59	621.84	15.58	621.85	15.52	621.91	15.32	622.11	15.57	621.86	15.78	621.65	16.66	620.77	16.80	620.63	
MW-2AR	636.28	21.09	615.19	20.95	615.33	20.21	616.07	20.58	615.70	21.11	615.17	20.24	616.04	21.77	614.51	22.35	613.93	
MW-2BR	636.24	11.67	624.57	11.10	625.14	10.41	625.83	10.68	625.56	10.88	625.36	11.56	624.68	10.68	625.56	10.31	625.93	
MW-2C						2.45		9.81		10.02		10.51	--	9.66	--	9.98	--	
MW-3	637.83	2.60	635.23	2.62	635.21	NM		5.36	632.47	2.77	635.06	2.94	634.89	3.45	634.38	5.41	632.42	
MW-4	640.92	5.07	635.85	6.34	634.58	5.74	635.18	5.31	635.61	5.08	635.84	5.88	635.04	5.93	634.99	5.69	635.23	
MW-4A	641.22	13.74	627.48	14.69	626.53	14.14	627.08	14.28	626.94	13.28	627.94	13.93	627.29	13.81	627.41	14.19	627.03	
MW-4B	640.98	16.72	624.26	16.35	624.63	16.03	624.95	16.32	624.66	16.05	624.93	16.91	624.07	15.57	625.41	14.93	626.05	
MW-5	633.82	19.20	614.62	18.73	615.09	NM		18.68	615.14	18.12	615.70	18.19	615.63	18.82	615.00	NM	--	
MW-5A	633.72	19.18	614.54	19.17	614.55	NM		19.29	614.43	19.74	613.98	19.85	613.87	19.81	613.91	20.02	613.70	
MW-5B	633.89	19.15	614.74	19.09	614.80	NM		19.08	614.81	19.35	614.54	19.84	614.05	19.69	614.20	19.92	613.97	
MW-5C	634.33	10.07	624.26	9.42	624.91	NM		9.17	625.16	9.32	625.01	10.02	624.31	9.03	625.30	9.09	625.24	
MW-6	644.88	15.28	629.60	16.41	628.47	NM		13.41	631.47	14.25	630.63	16.59	628.29	16.97	627.91	15.59	629.29	
MW-6A	644.79	20.10	624.69	20.02	624.77	NM		19.68	625.11	19.46	625.33	20.17	624.62	19.37	625.42	19.55	625.24	
MW-7R										8.86		8.29	--	9.09	--	10.09	--	
MW-7A	613.25	flowing		flowing		flowing		flowing		flowing		flowing	--	flowing	--	flowing	--	
MW-7B										flowing		flowing	--	flowing	--	flowing	--	
MW-8	634.42	4.29	630.13	4.30	630.12	5.28	629.14	NM		3.53	630.89	3.41	631.01	3.74	630.68	6.39	628.03	
MW-8A	634.62	15.67	618.95	15.19	619.43	NM		NM		14.66	619.96	14.91	619.71	14.67	619.95	10.16	624.46	
MW-9	637.98	4.54	633.44	5.60	632.38	NM		NM		4.26	633.72	4.83	633.15	5.15	632.83	6.17	631.81	
MW-9A	637.86	14.21	623.65	13.40	624.46	12.98	624.88	13.26	624.60	15.48	622.38	14.10	623.76	12.91	624.95	10.06	627.80	
MW-9B	638.02	13.23	624.79	13.37	624.65	13.20	624.82	13.13	624.89	13.60	624.42	14.05	623.97	12.88	625.14	13.06	624.96	
MW-9C	637.95	14.28	623.67	13.41	624.54	13.05	624.90	13.30	624.65	15.50	622.45	14.11	623.84	12.93	625.02	13.32	624.63	
MW-10	638.20	3.98	634.22	6.29	631.91	5.84	632.36	6.62	631.58	4.46	633.74	4.78	633.42	5.04	633.16	NM	--	
MW-10A	638.07	14.67	623.40	14.31	623.76	14.06	624.01	14.25	623.82	14.12	623.95	14.71	623.36	13.92	624.15	14.13	623.94	
MW-10B	638.40	22.52	615.88	22.85	615.55	22.27		22.15	616.25	24.03	614.37	25.61	612.79	NM	--	22.11	616.29	
MW-11	636.13	6.62	629.51	6.60	629.53	NM		NM		6.76	629.37	6.93	629.20	7.19	628.94	7.94	628.19	
TW-13	635.72	4.74	630.98	5.26	630.46	5.10	630.62	NM		4.09	631.63	3.97	631.75	4.45	631.27	5.79	629.93	
MW-13A	635.94	21.55	614.39	21.27	614.67	20.60	615.34	20.97	614.97	21.01	614.93	21.52	614.42	21.63	614.31	21.15	614.79	
MW-13B	635.90	21.38	614.52			20.12	615.78	20.46	615.44	20.44	615.46	21.08	614.82	NM	--	NM	--	
MW-13C	636.11	12.21	623.90	11.47	624.64	11.07	625.04	11.31	624.80	11.31	624.80	11.91	624.20	10.79	625.32	10.96	625.15	
MW-13D	637.09	12.25	624.84	11.53	625.56	11.11	625.98	11.45	625.64	11.51	625.58	12.18	624.91	11.00	626.09	11.17	625.92	

Notes: Reference elevation surveyed by Dames & Moore/URS

Table 1
Summary of Historical Groundwater Elevations
Northern States Power, Ashland, Wisconsin

Well Location	Reference Elevation	June 23, 2003		September 29, 2003		December 15, 2003		March 16, 2004		June 14, 2004		September 20, 2004		December 6, 2004		March 15, 2005	
		Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations	Depth to Water	Groundwater Elevations
MW-14	639.15	3.78	635.37	4.33	634.82	NM		NM		3.63	635.52	3.67	635.48	4.00	635.15	4.30	634.85
MW-15	641.21	4.22	636.99	5.30	635.91	4.77	636.44	4.92	636.29	4.54	636.67	4.34	636.87	4.23	636.98	4.92	636.29
MW-15A	641.44					NM		15.13	626.31	14.59	626.85	15.05	626.39	14.99	626.45	15.17	626.27
MW-15B	641.47					16.48	624.99	16.79	624.68	16.61	624.86	17.27	624.20	16.28	625.19	16.45	625.02
MW-16	642.20	0.73	641.47	1.82	640.38	NM		NM		0.57	641.63	0.93	641.27	2.93	639.27	5.21	636.99
MW-17	633.88	2.26	631.62	2.52	631.36	2.65	631.23	2.17	631.71	2.33	631.55	3.52	630.36	3.14	630.74	5.24	628.64
MW-17A	633.68	19.82	613.86	19.61	614.07	19.48	614.20	18.27	615.41	19.34	614.34	20.31	613.37	19.71	613.97	19.47	614.21
MW-18A	635.57	20.35	615.22	20.26	615.31	20.12	615.45	20.42	615.15	20.53	615.04	20.98	614.59	21.02	614.55	21.40	614.17
MW-18B	635.52	13.74	621.78	13.37	622.15	14.66	620.86	12.17	623.35	13.35	622.17	13.83	621.69	13.29	622.23	13.41	622.11
MW-19A	636.76	21.05	615.71	20.96	615.80	NM		20.83	615.93	21.05	615.71	21.58	615.18	21.58	615.18	21.54	615.22
MW-19B	636.65	12.15	624.50	11.58	625.07	NM		11.12	625.53	11.23	625.42	12.12	624.53	11.23	625.42	11.28	625.37
MW-20A	642.65	24.85	617.80	24.85	617.80	24.82	617.83	24.89	617.76	24.73	617.92	25.14	617.51	25.10	617.55	25.22	617.43
MW-21A	637.82	21.84	615.98	21.92	615.90	21.53	616.29	21.38	616.44	21.61	616.21	21.94	615.88	21.71	616.11	22	615.82
MW-21B	636.83					20.78	616.05	20.94	615.89	20.86	615.97	21.36	615.47	21.27	615.56	NM	--
MW-22A	638.34	19.47	618.87	19.77	618.57	19.40	618.94	19.29	619.05	19.11	619.23	19.58	618.76	19.57	618.77	19.71	618.63
MW-22B	638.50	14.58	623.92	14.15	624.35	13.88	624.62	13.97	624.53	13.98	624.52	14.65	623.85	13.69	624.81	13.85	624.65
MW-23A										flowing		flowing	--	flowing	--	flowing	--
MW-23B										flowing		flowing	--	flowing	--	flowing	--
MW-24										2.78		2.32	--	2.64	--	3.56	--
P-24										3.08		2.69	--	2.98	--	3.79	--
MW-24A										flowing		flowing	--	flowing	--	flowing	--
MW-25										2.27		1.80	--	2.17	--	2.97	--
P-25										2.77		1.87	--	2.21	--	2.65	--
MW-25A										flowing		flowing	--	flowing	--	flowing	--
MW-26										3.25		2.90	--	3.11	--	4.10	--
P-26										3.29		2.88	--	3.57	--	4.15	--
MW-26A										flowing		flowing	--	flowing	--	flowing	--
MW-1(NET)	608.40	7.41	600.99	7.73	600.67	7.80	600.60	8.12	600.28	7.11	601.29	6.68	601.72	7.28	601.12	7.89	600.51
MW-2(NET)	608.23	7.16	601.07	7.48	600.75	7.56	600.67	7.82	600.41	6.85	601.38	6.42	601.81	6.90	601.33	7.62	600.61
MW-2A(NET)	607.99	flowing		flowing		flowing		flowing		flowing		flowing	--	flowing	--	flowing	--
MW-2B(NET)	608.50	flowing		flowing		flowing		flowing		flowing		flowing	--	flowing	--	flowing	--
MW-3(NET)	612.10	11.76	600.34	11.68	600.42	11.68	600.42	12.21	599.89	11.19	600.91	10.77	601.33	10.98	601.12	11.75	600.35
TW-9										7.78		7.48	--	8.05	--	8.94	--
TW-11	606.80	6.09	600.71	5.43	601.37	5.21	601.59	5.77	601.03	5.63	601.17	4.62	602.18	4.51	602.29	5.42	601.38
TW-12	608.45	7.66	600.79	7.91	600.54	7.99	600.46	NM		4.65	603.80	4.22	604.23	4.52	603.93	NM	--

Notes: Reference elevation surveyed by Dames & Moore/URS

Table 1
Summary of Historical Groundwater Elevations
Northern States Power, Ashland, Wisconsin

Well Location	Reference Elevation	June 15, 2005	
		Depth to Water	Groundwater Elevations
AW-1	--	flowing	--
AW-2	--	flowing	--
MW-1	634.04	13.12	620.92
MW-2R	635.37	14.35	621.02
MW-2AR	635.23	NM	--
MW-2BR	635.19	NM	--
MW-2C	635.30	9.71	625.59
MW-3	637.86	2.21	635.65
MW-4	641.32	4.77	636.55
MW-4A	641.03	13.37	627.66
MW-4B	640.93	15.63	625.30
MW-5	633.63	NM	--
MW-5A	633.54	19.86	613.68
MW-5B	633.75	NM	--
MW-5C	633.92	9.16	624.76
MW-6	644.66	13.66	631.00
MW-6A	644.60	19.51	625.09
MW-7R	613.31	9.69	603.62
MW-7A	612.32	flowing	--
MW-7B	613.00	flowing	--
MW-8	634.77	3.25	631.52
MW-8A	634.62	14.50	620.12
MW-9	637.96	4.52	633.44
MW-9A	637.95	13.27	624.68
MW-9B	638.01	12.84	625.17
MW-9C	637.90	13.25	624.65
MW-10	638.01	3.34	634.67
MW-10A	638.00	13.95	624.05
MW-10B	637.61	18.19	619.42
MW-11	637.07	4.80	632.27
TW-13	635.57	20.87	614.70
MW-13A	635.36	20.42	614.94
MW-13B	635.33	NM	--
MW-13C	636.11	11.04	625.07
MW-13D	636.00	11.32	624.68

Notes: All site wells re-surveyed by Coleman Engineering in April/May 2005.
Note new reference elevations for site wells.

Table 1
Summary of Historical Groundwater Elevations
Northern States Power, Ashland, Wisconsin

Well Location	Reference Elevation	June 15, 2005	
		Depth to Water	Groundwater Elevations
MW-14	639.02	NM	--
MW-15	641.02	NM	--
MW-15A	641.31	14.56	626.75
MW-15B	641.29	16.58	624.71
MW-16	641.91	0.96	640.95
MW-17	634.83	1.45	633.38
MW-17A	634.58	20.05	614.53
MW-18A	634.51	20.92	613.59
MW-18B	634.40	13.22	621.18
MW-19A	635.73	21.31	614.42
MW-19B	635.58	11.25	624.33
MW-20A	641.69	25.09	616.60
MW-21A	636.76	21.90	614.86
MW-21B	636.76	21.09	615.67
MW-22A	638.32	19.29	619.03
MW-22B	638.47	13.80	624.67
MW-23A	610.74	flowing	--
MW-23B	610.74	flowing	--
MW-24	605.28	2.66	602.62
P-24	604.94	3.00	601.94
MW-24A	605.01	flowing	--
MW-25	604.39	2.11	602.28
P-25	604.37	2.30	602.07
MW-25A	606.95	flowing	--
MW-26	605.28	3.16	602.12
P-26	605.26	3.19	602.07
MW-26A	605.31	flowing	--
MW-1(NET)	609.31	6.98	602.33
MW-2(NET)	609.01	6.70	602.31
MW-2A(NET)	608.90	flowing	--
MW-2B(NET)	608.84	flowing	--
MW-3(NET)	612.99	11.13	601.86
TW-9	610.02	NM	--
TW-11	607.11	NM	--
TW-12	606.81	NM	--

Notes: All site wells re-surveyed by Coleman Engineering in April/May 2005.
Note new reference elevations for site wells.

Table 2
Summary of Free Phase Hydrocarbon Thickness
Northern States Power, Ashland, Wisconsin

Well Location	Depth to Bottom	October 6, 1998			November 23, 1998			June 2, 1999		
		Depth to Hydrocarbon	Feet in Well	Feet on Tape	Depth to Hydrocarbon	Feet in Well	Feet on Tape	Depth to Hydrocarbon	Feet in Well	Feet on Tape
EW-1	53.51	41.45	12.06	12.25	40.09	13.42	13.5	35.25	18.26	18.2
MW-7	17.88	(1)	(1)	10.14	(1)	(1)	10.01	(1)	(1)	9.91
MW-9	14.62	13.78	0.84	2.73	14.2	0.42	3.6	14.03	0.59	--
TW-13	14.82	(2)	(2)	(2)	(2)	(2)	(2)	18.10	0.31	2.2
MW-13A	45.33	43.22	2.11	4.73	43.36	1.97	3.0	43.37	1.96	--
MW-13B	69.82	43.56	26.26	26.1	43.56	26.26	27.6	52.28	17.54	--
MW-15	15.59	14.78	0.81	2.94	13.93	1.66	2.09	13.26	2.33	2.6
Well Location	Depth to Bottom	August 23, 1999			November 29, 1999			September 27, 2000		
		Depth to Hydrocarbon	Feet in Well	Feet on Tape	Depth to Hydrocarbon	Feet in Well	Feet on Tape	Depth to Hydrocarbon	Feet in Well	Feet on Tape
EW-1	53.51	34.31	19.2		(2)	(2)	16.2	(2)	(2)	(2)
MW-7	17.88	(1)	(1)	10.44	(2)	(2)	0	(2)	(2)	(2)
MW-9	14.62	13.02	1.6		(2)	(2)	<1 inch	(2)	(2)	(2)
TW-13	14.82	(2)	< 6 inches	< 6 inches	(2)	(2)	<1 inch	14.32	0.5	0.5
MW-13A	45.33	(1)	(1)	8.5	(2)	(2)	2.1	44.33	1.0	1.0
MW-13B	69.82	(1)	(1)	26	(2)	(2)	12.1	57.49	12.33	12.33
MW-15	15.59	(1)	(1)	10.6	(2)	(2)	0.67	(2)	(2)	(2)
Well Location	Depth to Bottom	December 4, 2000			March 27, 2001			June 11, 2001		
		Depth to Hydrocarbon	Feet in Well	Feet on Tape	Depth to Hydrocarbon	Feet in Well	Feet on Tape	Depth to Hydrocarbon	Feet in Well	Feet on Tape
EW-1	53.51	Not Measured	--	--	Not Measured	--	--	47.51	6.00	6.00
EW-2	50.00	Not Measured	--	--	Not Measured	--	--	40.5	9.50	9.50
EW-3	70.00	Not Measured	--	--	Not Measured	--	--	68.58	1.42	1.42
MW-2A	44.41	Not Measured	--	--	41.66	2.75	2.75	40.37	4.04	4.04
MW-7	17.88	Frozen	--	--	Frozen	--	--	Damaged	--	--
MW-9	14.62	14.5	0.1	0.1	(2)	(2)	(2)	(2)	(2)	(2)
MW-10B	34.91				34.66	0.25	0.25	34.33	0.58	0.58
TW-13	14.82	14.57	0.25	0.25	14.74	0.08	0.08	(2)	(2)	(2)
MW-13A	45.33	44.25	1.08	1.08	44.25	1.08	1.08	44.83	0.50	0.50
MW-13B	69.82	57.24	12.58	12.58	55.86	13.96	13.96	58.65	11.17	11.17
MW-15	15.59	15.17	0.42	0.25	12.84	2.75	2.75	15.34	0.25	0.25

(1) Free-phase hydrocarbons not detected by interface probe; free-phase hydrocarbons observed on tape.

(2) Product not encountered.

Hydrocarbon thickness in well is difference between depth to bottom and depth to hydrocarbon/water interface.

Hydrocarbon thickness on tape measure after probe removed from the well.

Well Location	Depth to Bottom	September 10, 2001			December 3, 2001			March 18, 2002		
		Depth to Hydrocarbon	Feet in Well	Feet on Tape	Depth to Hydrocarbon	Feet in Well	Feet on Tape	Depth to Hydrocarbon	Feet in Well	Feet on Tape
EW-1	53.51	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
EW-2	50.00	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
EW-3	70.00	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
MW-2A*	44.41	41.33	3.08	3.08	Not Measured	--	--	43.45**	1.63	1.63
MW-7	17.88	Damaged	--	--	Damaged	--	--	Damaged	--	--
MW-9	14.62	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
MW-10B	34.91	34.41	0.5	0.5	34.58	0.33	0.33	34.58	0.33	0.33
TW-13	14.82	(2)	(2)	(2)	14.74	0.08	0.08	14.74	0.08	0.08
MW-13A	45.33	43.83	0.58	0.58	43.91	0.5	0.5	44.75	0.58	0.58
MW-13B	69.82	58.99	10.83	10.83	59.65	10.17	10.17	58.32	11.50	11.50
MW-15	15.59	15.26	0.33	0.33	15.34	0.25	0.25	15.51	0.08	0.08
MW-18A	44.86	--	--	--	--	--	--	(2)	(2)	(2)
MW-19A	45.20	--	--	--	--	--	--	(2)	(2)	(2)
MW-21A	46.26	--	--	--	--	--	--	46.25*	0.01*	0.01*
Well Location	Depth to Bottom	June 28, 2002			September 16, 2002			December 16, 2002		
		Depth to Hydrocarbon	Feet in Well	Feet on Tape	Depth to Hydrocarbon	Feet in Well	Feet on Tape	Depth to Hydrocarbon	Feet in Well	Feet on Tape
EW-1	53.51	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
EW-2	50.00	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
EW-3	70.00	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
EW-4	29.50	29.25	0.25	0.25	(2)	(2)	(2)	Not Measured	--	--
MW-2R	29.40	28.23	1.17	1.17	(2)	(2)	(2)	(2)	(2)	(2)
MW-2AR	45.08	44.31	0.77	0.77	41.08	4.00	4.00	39.88	5.20	5.20
MW-7	17.88	Abandoned	--	--	Abandoned	--	--	Abandoned	--	--
MW-9	14.62	Not Measured	--	--	(2)	(2)	(2)	Not Measured	--	--
MW-10B	34.91	34.08	0.83	0.73	33.74	1.17	1.17	33.40	1.51	1.51
TW-13	14.82	Trace	--	--	Trace	--	--	Trace	--	--
MW-13A	45.33	45.25	0.08	0.08	44.33	1.00	1.00	44.33	1.00	1.00
MW-13B	69.82	67.99	1.83	1.83	59.40	10.42	10.42	58.32	11.50	11.50
MW-15	15.59	15.46	0.13	0.13	15.55	0.04	0.04	15.46	0.13	0.13
MW-18A	44.86	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MW-19A	45.20	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MW-21A	46.26	Trace	--	--	Trace	--	--	(2)	(2)	(2)
MW-22A	27.55	(2)	(2)	(2)	(2)	(2)	(2)	27.42	0.13	0.13

(1) Free-phase hydrocarbons not detected by interface probe; free-phase hydrocarbons observed on tape.

(2) Product not encountered.

Table 2
Summary of Free Phase Hydrocarbon Thickness
Northern States Power, Ashland, Wisconsin

Well Location	Depth to Bottom	March 24, 2003			June 23, 2003			September 29, 2003		
		Depth to Hydrocarbon	Feet in Well	Feet on Tape	Depth to Hydrocarbon	Feet in Well	Feet on Tape	Depth to Hydrocarbon	Feet in Well	Feet on Tape
EW-1	53.51	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
EW-2	50.00	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
EW-3	70.00	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
EW-4	29.50	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
MW-2R	29.40	27.32	2.08	2.08	28.02	1.38	1.38	27.53	1.87	1.87
MW-2AR	45.08	40.91	4.17	4.17	38.08	7.00	7.00	41.96	3.12	3.12
MW-3 (NET)	17.60	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
MW-4B	52.30	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
MW-7R	17.01	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
MW-9	14.62	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
TW-9	16.20	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
MW-10B	34.91	Not Measured	--	--	33.24	1.67	1.67	33.83	1.08	1.08
TW-11	14.00	Not Measured	--	--	13.50	0.50	0.50	13.17	0.83	0.83
TW-13	14.82	Trace	--	--	(2)	(2)	(2)	(2)	(2)	(2)
MW-13A	45.33	44.06	1.27	1.27	44.33	Trace	Trace	45.31	0.02	0.02
MW-13B	69.82	58.00	11.82	11.82	(3)	(3)	(3)	(3)	(3)	(3)
MW-15	15.59	15.49	0.10	0.10	15.14	0.45	0.45	15.43	0.16	0.16
MW-15A	30.00	--	--	--	--	--	--	--	--	--
MW-18A	44.86	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MW-19A	45.20	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MW-21A	46.26	(2)	(2)	(2)	Trace	Trace	Trace	(2)	(2)	(2)
MW-22A	27.55	27.26	0.29	0.29	(2)	(2)	(2)	(2)	(2)	(2)

- (1) Free-phase hydrocarbons not detected by interface probe; free-phase hydrocarbons observed on tape.
(2) Product not encountered.
(3) Measuring device did not reach the well bottom. Suspected obstruction near well screen.
(4) Trace floating LNAPL encountered in well.

Well Location	Depth to Bottom	December 15, 2003			March 16, 2004			June 14, 2004		
		Depth to Hydrocarbon	Feet in Well	Feet on Tape	Depth to Hydrocarbon	Feet in Well	Feet on Tape	Depth to Hydrocarbon	Feet in Well	Feet on Tape
EW-1	53.51	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
EW-2	50.00	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
EW-3	70.00	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
EW-4	29.50	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
MW-2R	29.40	27.90	1.50	1.50	28.00	1.4	1.4	28.26	1.14	1.14
MW-2AR	45.08	40.63	4.45	4.45	43.43	1.65	1.65	41.99	3.09	3.09
MW-3 (NET)	17.60	17.60	Trace	Trace	17.59	0.01	0.01	17.6	Trace	Trace
MW-4B	52.30	Not Measured	--	--	Not Measured	--	--	52.30	Trace	Trace
MW-7R	17.01	Not Measured	--	--	--	--	--	(2)	(2)	(2)
MW-9	14.62	Not Measured	--	--	Not Measured	--	--	(2)	(2)	(2)
TW-9	16.20	Not Measured	--	--	Not Measured	--	--	13.87	2.33	2.33
MW-10B	34.91	32.31	2.60	2.60	33.01	1.9	1.9	33.83	1.08	1.08
TW-11	14.00	12.92	1.08	1.08	13.20	0.80	0.80	12.92	1.08	1.08
TW-13	14.82	(2)	(2)	(2)	Not Measured	--	--	(2)	(2)	(2)
MW-13A	45.33	45.08	0.25	0.25	45.08	0.25	0.25	44.91	0.42	0.42
MW-13B	69.82	58.57	11.25	11.25	64.4	5.42	5.42	(3)	(3)	(3)
MW-15	15.59	15.57	0.02	0.02	15.58	0.01	0.01	15.04	0.55	0.55
MW-15A	30.00	26.25	3.75	3.75	Not Measured	--	--	29.70	0.30	0.30
MW-18A	44.86	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MW-19A	45.20	Not Measured	--	--	(2)	(2)	(2)	(2)	(2)	(2)
MW-21A	46.26	46.24	0.02	0.02	(2)	(2)	(2)	(2)	(2)	(2)
MW-22A	27.55	27.51	0.04	0.04	27.54	0.01	0.01	(2)	(2)	(2)

- (1) Free-phase hydrocarbons not detected by interface probe; free-phase hydrocarbons observed on tape.
(2) Product not encountered.
(3) Measuring device did not reach the well bottom. Suspected obstruction near well screen.
(4) Trace floating LNAPL encountered in well.

Table 2
Summary of Free Phase Hydrocarbon Thickness
Northern States Power, Ashland, Wisconsin

Well Location	Depth to Bottom	September 20, 2004			December 6, 2004			March 15, 2005		
		Depth to Hydrocarbon	Feet in Well	Feet on Tape	Depth to Hydrocarbon	Feet in Well	Feet on Tape	Depth to Hydrocarbon	Feet in Well	Feet on Tape
EW-1	53.51	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
EW-2	50.00	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
EW-3	70.00	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
EW-4	29.50	Not Measured	--	--	Not Measured	--	--	Not Measured	--	--
MW-2R	29.40	28.23	1.17	1.17	28.50	0.90	0.90	28.82	0.58	0.58
MW-2AR	45.08	38.35	6.73	6.73	24.68	20.4	20.4	29.98	15.10	15.10
MW-3 (NET)	17.60	(4)	(4)	(4)	(4)	(4)	(4)	17.59	0.01	0.01
MW-4A	25.40	Not Measured	--	--	Not Measured	--	--	25.32	0.08	0.08
MW-4B	52.30	49.48	2.82	2.82	47.48	4.82	4.82	49.10	3.20	3.20
MW-7R	17.00	(4)	(4)	(4)	(4)	(4)	(4)	17.00	(4)	(4)
MW-9	14.62	(4)	(4)	(4)	(4)	(4)	(4)	Not Measured	--	--
TW-9	16.20	13.93	2.27	2.27	13.97	2.23	2.23	13.60	2.60	2.60
MW-10B	34.91	33.60	1.31	1.31	Not Measured	--	--	33.33	1.58	1.58
TW-11	14.00	12.97	1.03	1.03	12.99	1.01	1.01	12.84	1.16	1.16
TW-13	14.82	(2)	(2)	(2)	(4)	(4)	(4)	(2)	(2)	(2)
MW-13A	45.33	44.93	0.40	0.40	44.41	0.92	0.92	45.25	0.08	0.08
MW-13B	69.82	(3)	(3)	(3)	Not Measured	--	--	Not Measured	--	--
MW-15	15.59	(4)	(4)	(4)	15.30	0.29	0.29	15.59	Trace	Trace
MW-15A	30.00	28.27	1.73	1.73	24.80	5.20	5.20	30.00	Trace	Trace
MW-18A	44.86	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MW-19A	45.20	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MW-21A	46.26	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MW-22A	27.55	(2)	(2)	(2)	(4)	(4)	(4)	(2)	(2)	(2)

- (1) Free-phase hydrocarbons not detected by interface probe; free-phase hydrocarbons observed on tape.
(2) Product not encountered.
(3) Measuring device did not reach the well bottom. Suspected obstruction near well screen.
(4) Trace floating LNAPL encountered in well.

Well Location	Depth to Bottom	June 15, 2005		
		Depth to Hydrocarbon	Feet in Well	Feet on Tape
EW-1	53.51	Not Measured		
EW-2	50.00	Not Measured		
EW-3	70.00	Not Measured		
EW-4	29.50	Not Measured		
MW-2R	29.40	29.39	0.01	0.01
MW-2AR	45.08	Not Measured		
MW-3 (NET)	17.60	Not Measured		
MW-4A	25.40	(2)	(2)	(2)
MW-4B	52.30	48.55	3.75	3.75
MW-7R	17.00	(4)	(4)	(4)
MW-9	14.62	(4)	(4)	(4)
TW-9	16.20	13.85	2.35	2.35
MW-10B	34.91	33.95	0.96	0.96
TW-11	14.00	12.88	1.12	1.12
TW-13	14.82	(2)	(2)	(2)
MW-13A	45.33	44.91	0.42	0.42
MW-13B	69.82	(3)	(3)	(3)
MW-15	15.59	(4)	(4)	(4)
MW-15A	30.00	29.99	0.01	0.01
MW-18A	44.86	Not Measured		
MW-19A	45.20	Not Measured		
MW-21A	46.26	Not Measured		
MW-22A	27.55	Not Measured		

- (1) Free-phase hydrocarbons not detected by interface probe; free-phase hydrocarbons observed on tape.
(2) Product not encountered.
(3) Measuring device did not reach the well bottom. Suspected obstruction near well screen.
(4) Trace floating LNAPL encountered in well.

**Table 3
Remediation System Water Quality Monitoring Results
Northern States Power, Ashland, Wisconsin**

June 2005

Analyte	Units	Influent	Precarbon	Effluent	Trip Blank	⁽¹⁾ POTW	Method	⁽³⁾ Frequency
VOCs								
1,1,1,2-TETRACHLOROETHANE	ug/L	<140	<0.28	<0.28	<0.28	--	EPA 8260	Monthly
1,1,1-TRICHLOROETHANE	ug/L	<130	<0.27	<0.27	<0.27	--	EPA 8260	Monthly
1,1,2,2-TETRACHLOROETHANE	ug/L	<160	<0.33	<0.33	<0.33	--	EPA 8260	Monthly
1,1,2-TRICHLOROETHANE	ug/L	<210	<0.42	<0.42	<0.42	--	EPA 8260	Monthly
1,1-DICHLOROETHANE	ug/L	<150	<0.3	<0.3	<0.3	--	EPA 8260	Monthly
1,1-DICHLOROETHENE	ug/L	<210	<0.41	<0.41	<0.41	--	EPA 8260	Monthly
1,1-DICHLOROPROPENE	ug/L	<160	<0.32	<0.32	<0.32	--	EPA 8260	Monthly
1,2,3-TRICHLOROETHANE	ug/L	<180	<0.36	<0.36	<0.36	--	EPA 8261	Monthly
1,2,3-TRICHLOROPROPANE	ug/L	<220	<0.44	<0.44	<0.44	--	EPA 8260	Monthly
1,2,4-TRICHLOROBENZENE	ug/L	<180	<0.37	<0.37	<0.37	--	EPA 8260	Monthly
1,2,4-TRIMETHYLBENZENE	ug/L	550	1.3	<0.31	<0.31	--	EPA 8260	Monthly
1,2-DIBROMO-3-CHLOROPROPANE	ug/L	<170	<0.33	<0.33	<0.33	--	EPA 8260	Monthly
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/L	<150	<0.3	<0.3	<0.3	--	EPA 8260	Monthly
1,2-DICHLOROBENZENE	ug/L	<140	<0.28	<0.28	<0.28	--	EPA 8260	Monthly
1,2-DICHLOROETHANE	ug/L	<170	<0.34	<0.34	<0.34	--	EPA 8260	Monthly
1,2-DICHLOROPROPANE	ug/L	<170	<0.35	<0.35	<0.35	--	EPA 8260	Monthly
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/L	<200	<0.39	<0.39	<0.39	--	EPA 8260	Monthly
1,3-DICHLOROBENZENE	ug/L	<120	<0.24	<0.24	<0.24	--	EPA 8260	Monthly
1,3-DICHLOROPROPANE	ug/L	<170	<0.34	<0.34	<0.34	--	EPA 8260	Monthly
1,4-DICHLOROBENZENE	ug/L	<120	<0.23	<0.23	<0.23	--	EPA 8260	Monthly
2,2-DICHLOROPROPANE	ug/L	<220	<0.44	<0.44	<0.44	--	EPA 8260	Monthly
2-CHLOROTOLUENE	ug/L	<200	<0.39	<0.39	<0.39	--	EPA 8260	Monthly
4-CHLOROTOLUENE	ug/L	<180	<0.37	<0.37	<0.37	--	EPA 8260	Monthly
BENZENE	ug/L	14000	<0.95>	<0.29	<0.29	--	EPA 8260	Monthly
BROMOBENZENE	ug/L	<52	<0.1	<0.1	<0.1	--	EPA 8260	Monthly
BROMOCHLOROMETHANE	ug/L	<130	<0.27	<0.27	<0.27	--	EPA 8260	Monthly
BROMODICHLOROMETHANE	ug/L	<160	<0.32	<0.32	<0.32	--	EPA 8260	Monthly
BROMOFORM	ug/L	<140	<0.28	<0.28	<0.28	--	EPA 8260	Monthly
BROMOMETHANE	ug/L	<190	<0.39	<0.39	<0.39	--	EPA 8260	Monthly
CARBON TETRACHLORIDE	ug/L	<150	<0.3	<0.3	<0.3	--	EPA 8260	Monthly
CHLOROBENZENE	ug/L	<100	<0.21	<0.21	<0.21	--	EPA 8260	Monthly
CHLOROETHANE	ug/L	<850	<1.7	<1.7	<1.7	--	EPA 8260	Monthly
CHLOROFORM	ug/L	<150	<0.3	<0.3	<0.3	--	EPA 8260	Monthly
CHLOROMETHANE	ug/L	<120	<0.24	<0.24	<0.24	--	EPA 8260	Monthly
CIS-1,2-DICHLOROETHYLENE	ug/L	<200	<0.4	<0.4	<0.4	--	EPA 8260	Monthly
CIS-1,3-DICHLOROPROPENE	ug/L	<130	<0.27	<0.27	<0.27	--	EPA 8260	Monthly
CYMENE	ug/L	<150	<0.3	<0.3	<0.3	--	EPA 8260	Monthly
DIBROMOCHLOROMETHANE	ug/L	<150	<0.29	<0.29	<0.29	--	EPA 8260	Monthly
DIBROMOMETHANE	ug/L	<160	<0.32	<0.32	<0.32	--	EPA 8260	Monthly
DICHLORODIFLUOROMETHANE	ug/L	<89	<0.18	<0.18	<0.18	--	EPA 8260	Monthly
ETHYLBENZENE	ug/L	450	<0.26	<0.26	<0.26	--	EPA 8260	Monthly
HEXACHLOROBUTADIENE	ug/L	<210	<0.41	<0.41	<0.41	--	EPA 8260	Monthly
ISOPROPYL ETHER	ug/L	<180	<0.35	<0.35	<0.35	--	EPA 8260	Monthly
ISOPROPYLBENZENE (CUMENE)	ug/L	<180	<0.36	<0.36	<0.36	--	EPA 8260	Monthly
M,P-XYLENE (SUM OF ISOMERS)	ug/L	2900	2.8	<0.62	<0.62	--	EPA 8260	Monthly
METHYLENE CHLORIDE	ug/L	<210	<0.67>	<0.43	<0.43	--	EPA 8260	Monthly
NAPHTHALENE	ug/L	10000	12	<0.39	<0.39	--	EPA 8260	Monthly
N-BUTYLBENZENE	ug/L	<160	<0.31	<0.31	<0.31	--	EPA 8260	Monthly
N-PROPYLBENZENE	ug/L	<170	<0.34	<0.34	<0.34	--	EPA 8260	Monthly
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/L	1600	1.4	<0.27	<0.27	--	EPA 8260	Monthly
SEC-BUTYLBENZENE	ug/L	<160	<0.33	<0.33	<0.33	--	EPA 8260	Monthly
STYRENE	ug/L	4500	<0.65>	<0.32	<0.32	--	EPA 8260	Monthly
T-BUTYLBENZENE	ug/L	<150	<0.31	<0.31	<0.31	--	EPA 8260	Monthly
TERT-BUTYL METHYL ETHER	ug/L	<150	<0.31	<0.31	<0.31	--	EPA 8260	Monthly
TETRACHLOROETHYLENE (PCE)	ug/L	<150	<0.31	<0.31	<0.31	--	EPA 8260	Monthly
TOLUENE	ug/L	13000	1.3	<0.34	<0.34	--	EPA 8260	Monthly
TRANS-1,2-DICHLOROETHENE	ug/L	<170	<0.35	<0.35	<0.35	--	EPA 8260	Monthly
TRANS-1,3-DICHLOROPROPENE	ug/L	<160	<0.32	<0.32	<0.32	--	EPA 8260	Monthly
TRICHLOROETHYLENE (TCE)	ug/L	<120	<0.25	<0.25	<0.25	--	EPA 8260	Monthly
TRICHLOROFUOROMETHANE	ug/L	<190	<0.38	<0.38	<0.38	--	EPA 8260	Monthly
VINYL CHLORIDE	ug/L	<53	<0.11	<0.11	<0.11	--	EPA 8260	Monthly
Total VOCs	ug/L	47,000	21.1	0.0	0.0	⁽²⁾ 1000		

Collected June 15, 2005

< - Less Than Limit of Detection

<> Between Limit of Detection and Limit of Quantification

Concentrations exceeding the POTW have been shaded

⁽¹⁾ POTW standards for effluent discharge

⁽²⁾ 1000 = POTW standard for total BTEX for effluent discharge

⁽³⁾ BTEX and PVOcs collected monthly, remaining analytes collected semi-annually

Table 3
Remediation System Water Quality Monitoring Results
Northern States Power, Ashland, Wisconsin

June 2005

Analyte	Units	Influent	Precarbon	Effluent	Trip Blank	⁽¹⁾ POTW	Method	Frequency
PAHs								
1-METHYLNAPHTHALENE	ug/L	(4)	(4)	0.73	(4)	--	SW8310	Quarterly
2-METHYLNAPHTHALENE	ug/L	(4)	(4)	0.43	(4)	--	SW8310	Quarterly
ACENAPHTHENE	ug/L	(4)	(4)	0.049	(4)	--	SW8310	Quarterly
ACENAPHTHYLENE	ug/L	(4)	(4)	0.35	(4)	--	SW8310	Quarterly
ANTHRACENE	ug/L	(4)	(4)	<0.051>	(4)	--	SW8310	Quarterly
BENZO(A)ANTHRACENE	ug/L	(4)	(4)	<0.026>	(4)	--	SW8310	Quarterly
BENZO(A)PYRENE	ug/L	(4)	(4)	<0.021>	(4)	--	SW8310	Quarterly
BENZO(B)FLUORANTHENE	ug/L	(4)	(4)	<0.018>	(4)	--	SW8310	Quarterly
BENZO(G,H,I)PERYLENE	ug/L	(4)	(4)	<0.015	(4)	--	SW8310	Quarterly
BENZO(K)FLUORANTHENE	ug/L	(4)	(4)	<0.020	(4)	--	SW8310	Quarterly
CHRYSENE	ug/L	(4)	(4)	<0.019	(4)	--	SW8310	Quarterly
DIBENZO(A,H)ANTHRACENE	ug/L	(4)	(4)	<0.011	(4)	--	SW8310	Quarterly
FLUORANTHENE	ug/L	(4)	(4)	<0.030>	(4)	--	SW8310	Quarterly
FLUORENE	ug/L	(4)	(4)	0.25	(4)	--	SW8310	Quarterly
INDENO(1,2,3-C,D)PYRENE	ug/L	(4)	(4)	<0.013	(4)	--	SW8310	Quarterly
NAPHTHALENE	ug/L	(4)	(4)	2.3	(4)	--	SW8310	Quarterly
PHENANTHRENE	ug/L	(4)	(4)	0.26	(4)	--	SW8310	Quarterly
PYRENE	ug/L	(4)	(4)	<0.032>	(4)	--	SW8310	Quarterly
Inorganics								
OIL & GREASE, TOTAL REC	mg/L	(4)	(4)	<1.1	(4)	50	A5520	Quarterly

Collected June 15, 2005

< - Less Than Limit of Detection

<> Between Limit of Detection and Limit of Quantification
Concentrations exceeding the POTW have been shaded

⁽¹⁾ POTW standards for effluent discharge

⁽²⁾ 1000 = POTW standard for total BTEX for effluent discharge

⁽⁴⁾ Parameter not analyzed

Table 4
Remediation System Air Monitoring Results
Northern States Power, Ashland, Wisconsin

June 2005

Analyte	Units	Air Stripper	1st Stage Carbon	Effluent	Method	Frequency
VOCs						
Volume Collected	Liters	3.0	3.0	5.0		
Benzene	mg	<0.02	<0.02	<0.02	NIOSH 1501	Monthly
Benzene	mg/m ³	<6.67	<6.67	<4.0		Monthly
Ethylbenzene	mg	<0.02	<0.02	<0.02	NIOSH 1501	Monthly
Ethylbenzene	mg/m ³	<6.67	<6.67	<4.0		Monthly
Hydrocarbons (total)	mg	<0.03	0.030	0.056	NIOSH 1550	Monthly
Hydrocarbons (total)	mg/m ³	<10	10.0	11.2		Monthly
Toluene	mg	<0.02	<0.02	<0.02	NIOSH 1501	Monthly
Toluene	mg/m ³	<6.67	<6.67	<4.0		Monthly
Xylene, Total	mg	<0.03	<0.03	<0.03	NIOSH 1501	Monthly
Xylene, Total	mg/m ³	<10	<10	<6.0		Monthly

Collected June 15, 2005

< - Less Than Limit of Detection

<> Between Limit of Detection and Limit of Quantification

**Table 5
Summary of Coal Tar and Groundwater Volume Removed**

Date	Cumulative Volume of Coal Tar Removed (gals)	Cumulative Volume of Coal Tar Removed (lbs)	Cumulative Volume of Groundwater Removed from Wells EW-1, EW-2, EW-3 (gals)	Cumulative Volume of Groundwater Removed from well EW-4 (gals)	Cumulative Volume of Total Groundwater Removed (gals)
20-Feb-01	554.2	4,853	22,826	0	22,826
30-Mar-01	850.0	7,443	44,613	0	44,613
26-Apr-01	915.2	8,014	56,978	0	56,978
17-May-01	1,078.2	9,442	58,967	0	58,967
11-Jun-01	1,291.2	11,307	61,094	0	61,094
31-Jul-01	1,535.2	13,444	65,758	0	65,758
15-Aug-01	1,578.0	13,819	65,758	0	65,758
12-Sep-01	1,578.0	14,193	81,524	0	81,524
28-Sep-01	1,789.9	15,674	104,500	0	104,500
12-Nov-01 ¹	2,486.4	21,773	104,900	0	104,900
13-Nov-01	2,551.6	22,344	106,200	0	106,200
14-Nov-01	2,559.7	22,415	107,600	0	107,600
19-Nov-01	2,600.5	22,772	114,200	0	114,200
28-Nov-01	2,682.0	23,486	125,200	0	125,200
03-Dec-01	2,779.8	24,342	131,500	0	131,500
12-Dec-01	2,877.6	25,199	142,300	0	142,300
19-Dec-01	2,975.4	26,055	155,328	0	155,328
03-Jan-02	3,105.8	27,197	172,000	0	172,000
05-Feb-02	3,105.7	27,197	173,116	0	173,116
11-Feb-02	3,122.0	27,340	178,300	0	178,300
12-Feb-02	3,122.1	27,340	180,100	0	180,100
19-Feb-02	3,122.1	27,340	182,900	0	182,900
06-Mar-02	3,138.4	27,483	183,000	0	183,000
12-Mar-02	3,187.3	27,911	194,400	0	194,400
18-Mar-02	3,219.9	28,196	199,400	0	199,400
27-Mar-02	3,317.7	29,053	210,500	0	210,500
03-Apr-02	3,350.3	29,338	216,600	0	216,600
09-Apr-02	3,399.2	29,767	224,000	0	224,000
23-Apr-02	3,473.6	30,419	238,100	0	238,100
30-Apr-02	3,514.3	30,775	246,700	0	246,700
08-May-02	3,538.8	30,989	256,900	0	256,900
15-May-02	3,587.7	31,418	264,500	0	264,500
20-May-02	3,612.1	31,631	266,900	0	266,900
24-May-02	3,636.5	31,845	268,365	10,935	279,300
28-May-02	3,652.8	31,988	272,215	13,185	285,400
17-Jun-02	3,669.1	32,131	287,693	28,507	316,200
25-Jun-02	3,726.2	32,631	295,908	35,492	331,400
02-Jul-02	3,766.9	32,987	299,147	42,153	341,300
09-Jul-02	3,783.2	33,130	306,783	42,717	349,500
17-Jul-02	3,799.5	33,272	314,710	49,990	364,700
22-Jul-02	3,824.0	33,487	319,384	54,516	373,900
29-Jul-02	3,864.7	33,843	326,542	57,158	383,700
08-Aug-02	3,905.5	34,201	334,406	68,394	402,800
15-Aug-02	3,921.8	34,343	340,391	68,609	409,000
09-Sep-02	3,942.1	34,521	343,084	79,816	422,900
19-Sep-02	4,003.3	35,057	350,659	91,441	442,100
26-Sep-02	4,003.3	35,057	356,565	91,535	448,100
04-Oct-02	4,003.3	35,057	363,135	93,265	456,400
11-Oct-02	4,003.3	35,057	374,863	94,737	469,600
18-Oct-02	4,027.8	35,272	374,863	94,737	485,600
25-Oct-02	4,158.2	36,414	379,459	116,901	496,360
31-Oct-02	4,166.3	36,484	381,556	121,045	502,600
08-Nov-02	4,166.3	36,484	390,756	121,045	511,800
21-Nov-02	4,753.3	41,625	387,629	124,272	511,900
26-Nov-02	4,773.6	41,803	391,434	127,566	519,000
04-Dec-02	4,789.9	41,945	398,205	129,795	528,000
10-Dec-02	4,802.2	42,053	403,230	130,971	534,200
18-Dec-02	4,826.6	42,267	410,356	132,444	542,800
23-Dec-02	4,842.9	42,409	412,967	133,333	546,300
30-Dec-02	4,855.1	42,516	415,842	134,458	550,300
10-Jan-03	4,883.7	42,767	425,575	136,125	561,700
15-Jan-03	4,900.0	42,910	429,541	136,859	566,400

**Table 5
Summary of Coal Tar and Groundwater Volume Removed**

Date	Cumulative Volume of Coal Tar Removed (gals)	Cumulative Volume of Coal Tar Removed (lbs)	Cumulative Volume of Groundwater Removed from Wells EW-1, EW-2, EW-3 (gals)	Cumulative Volume of Groundwater Removed from well EW-4 (gals)	Cumulative Volume of Total Groundwater Removed (gals)
20-Jan-03	4,920.3	43,087	434,133	137,567	571,700
30-Jan-03	4,952.9	43,373	442,556	138,844	581,400
13-Feb-03	4,989.6	43,694	454,019	140,881	594,900
19-Feb-03	5,007.8	43,854	456,851	141,149	598,000
26-Feb-03	5,036.3	44,103	463,081	142,019	605,100
04-Mar-03	5,036.3	44,103.1	468,458	142,742	611,200
27-Mar-03	5,036.3	44,103.1	471,979	143,488	615,467
02-Apr-03	5,097.5	44,639	478,430	144,870	623,300
09-Apr-03	5,105.6	44,710	483,745	145,855	629,600
16-Apr-03	5,121.9	44,853	487,333	148,267	635,600
23-Apr-03 ²	4,910.0	42,997	492,504	152,796	645,300
29-Apr-03	4,926.3	43,140	495,729	155,771	651,500
07-May-03	4,926.3	43,140	499,877	158,223	658,100
15-May-03	4,926.3	43,140	499,877	158,223	658,100
21-May-03	4,942.6	43,283	515,230	172,470	687,700
28-May-03	4,958.9	43,425	522,943	175,357	698,300
03-Jun-03	4,967.1	43,497	524,602	176,598	701,200
10-Jun-03	4,975.2	43,568	529,728	178,472	708,200
17-Jun-03	4,983.4	43,640	534,411	179,789	714,200
26-Jun-03	4,983.4	43,640	540,050	180,950	721,000
02-Jul-03	4,983.4	43,640	543,291	181,909	725,200
09-Jul-03	4,983.4	43,640	549,991	181,909	731,900
16-Jul-03	4,991.5	43,711	553,174	185,526	738,700
22-Jul-03	4,999.7	43,783	556,643	186,957	743,600
30-Jul-03	5,007.8	43,854	560,726	188,074	748,800
06-Aug-03	5,040.4	44,139	562,275	188,825	751,100
20-Aug-03	5,081.2	44,496	567,361	191,139	758,500
28-Aug-03	5,138.2	44,995	570,561	191,139	761,700
04-Sep-03	5,316.7	46,559	572,759	191,841	764,600
11-Sep-03	5,382.7	47,137	575,659	191,841	767,500
19-Sep-03	5,423.5	47,494	579,259	191,841	771,100
25-Sep-03	5,366.4	46,994	578,399	197,101	775,500
03-Oct-03	5,382.7	47,137	584,399	197,101	781,500
09-Oct-03	5,399.0	47,279	583,771	198,229	782,000
24-Oct-03	5,452.0	47,743	589,679	200,821	790,500
29-Oct-03	5,481.5	48,002	592,579	200,821	793,400
06-Nov-03	5,530.4	48,430	596,979	200,821	797,800
13-Nov-03	5,546.7	48,573	598,764	200,836	799,600
11/192003	5,571.2	48,787	598,895	201,005	799,900
25-Nov-03	5,591.5	48,965	601,544	202,056	803,600
03-Dec-03	5,620.1	49,215	604,762	203,438	808,200
11-Dec-03	5,644.5	49,429	608,144	204,556	812,700
19-Dec-03	5,669.0	49,644	612,612	205,488	818,100
26-Dec-03	5,685.5	49,788	615,254	206,146	821,400
29-Dec-03	5,693.4	49,857	615,310	206,190	821,500
09-Jan-04	5,705.6	49,964	618,110	206,190	824,300
20-Jan-04	5,709.7	50,000	619,147	207,153	826,300
29-Jan-04	5,713.8	50,036	626,409	208,091	834,500
03-Feb-04	5,726.0	50,143	630,515	208,485	839,000
11-Feb-04	5,726.0	50,143	633,094	208,706	841,800
17-Feb-04	5,734.2	50,215	637,911	209,089	847,000
26-Feb-04	5,742.3	50,286	645,083	209,617	854,700
02-Mar-04	5,754.5	50,392	649,270	209,930	859,200
12-Mar-04	5,774.9	50,571	657,501	210,999	868,500
19-Mar-04	5,807.9	50,860	664,798	212,102	876,900
25-Mar-04	5,819.7	50,963	669,603	214,997	884,600
02-Apr-04	5,823.8	50,999	669,738	215,163	884,900
05-Apr-04	5,823.8	50,999	672,233	217,667	889,900
23-Apr-04	5,827.9	51,035	672,869	218,231	891,100
27-Apr-04	5,836.0	51,106	673,684	219,616	893,300
12-May-04	5,852.3	51,249	678,475	223,625	902,100
17-May-04	5,856.4	51,285	682,349	225,151	907,500
25-May-04	5,872.7	51,427	688,062	226,538	914,600
04-Jun-04	5,884.9	51,534	697,811	230,589	928,400
10-Jun-04	5,913.5	51,785	703,940	232,060	936,000
14-Jun-04	5,937.9	51,998	708,258	232,742	941,000

**Table 5
Summary of Coal Tar and Groundwater Volume Removed**

Date	Cumulative Volume of Coal Tar Removed (gals)	Cumulative Volume of Coal Tar Removed (lbs)	Cumulative Volume of Groundwater Removed from Wells EW-1, EW-2, EW-3 (gals)	Cumulative Volume of Groundwater Removed from well EW-4 (gals)	Cumulative Volume of Total Groundwater Removed (gals)
24-Jun-04	5,995.0	52,498	719,009	234,191	953,200
02-Jul-04	6,039.8	52,891	726,095	235,205	961,300
06-Jul-04	6,064.2	53,104	729,338	235,762	965,100
14-Jul-04	6,133.5	53,711	745,363	237,038	982,400
20-Jul-04	6,133.5	53,711	739,893	238,007	977,900
26-Jul-04	6,182.4	54,139	744,946	238,654	983,600
04-Aug-04	6,235.4	54,604	749,874	239,426	989,300
10-Aug-04	6,284.3	55,032	752,585	239,915	992,500
19-Aug-04	6,316.9	55,317	753,677	240,923	994,600
26-Aug-04	6,345.4	55,567	759,482	241,618	1,001,100
31-Aug-04	6,378.0	55,852	762,807	242,793	1,005,600
10-Sep-04	6,422.8	56,245	766,587	243,514	1,010,100
15-Sep-04	6,439.1	56,387	770,402	244,599	1,015,000
24-Sep-04	6,451.4	56,495	777,825	247,575	1,025,400
27-Sep-04	6,492.1	56,852	780,289	248,111	1,028,400
07-Oct-04	6,508.4	56,994	789,339	249,261	1,038,600
15-Oct-04	6,528.8	57,173	795,323	250,477	1,045,800
19-Oct-04	6,541.0	57,280	798,370	251,030	1,049,400
28-Oct-04	6,557.3	57,422	805,072	252,428	1,057,500
04-Nov-04	6,577.7	57,601	809,388	254,112	1,063,500
11-Nov-04	6,663.3	58,351	809,373	254,427	1,063,800
17-Nov-04	6,679.6	58,493	813,846	255,954	1,069,800
23-Nov-04	6,704.0	58,707	815,871	256,629	1,072,500
01-Dec-04	6,708.1	58,743	818,447	257,353	1,075,800
09-Dec-04	6,720.3	58,850	825,818	258,582	1,084,400
15-Dec-04	6,744.8	59,064	831,411	259,289	1,090,700
21-Dec-04	6,761.1	59,207	836,911	259,289	1,096,200
03-Jan-05	6,850.7	59,992	848,711	259,289	1,108,000
12-Jan-05	6,891.5	60,349	853,611	259,289	1,112,900
20-Jan-05	6,924.1	60,635	859,476	259,824	1,119,300
27-Jan-05	6,981.1	61,134	864,329	260,671	1,125,000
01-Feb-05	7,013.7	61,419	867,637	261,264	1,128,900
08-Feb-05	7,058.5	61,811	872,617	262,083	1,134,700
17-Feb-05	7,103.4	62,205	879,040	263,060	1,142,100
23-Feb-05	7,225.7	63,276	883,368	263,632	1,147,000
03-Mar-05	7,274.6	63,704	889,041	264,459	1,153,500
08-Mar-05	7,307.2	63,989	892,526	264,974	1,157,500
15-Mar-05	7,347.9	64,346	895,198	265,602	1,160,800
22-Mar-05	7,372.4	64,560	899,294	266,206	1,165,500
29-Mar-05	7,413.1	64,917	898,895	269,205	1,168,100
06-Apr-05	7,453.9	65,274	904,348	270,652	1,175,000
14-Apr-05	7,494.6	65,630	903,599	277,501	1,181,100
20-Apr-05	7,531.3	65,952	904,434	278,967	1,183,400
27-Apr-05	7,572.0	66,308	905,998	279,902	1,185,900
03-May-05	7,572.0	66,308	907,569	280,831	1,188,400
13-May-05	7,576.1	66,344	909,996	281,504	1,191,500
17-May-05	7,576.1	66,344	910,118	281,583	1,191,700
27-May-05	7,584.3	66,416	911,688	282,912	1,194,600
03-Jun-05	7,590.4	66,469	912,599	283,802	1,196,400
09-Jun-05	7,590.4	66,469	913,562	285,038	1,198,600
15-Jun-05	7,604.6	66,594	914,093	286,707	1,200,800
22-Jun-05	7,596.5	66,523	914,759	286,741	1,201,500
06-Jul-05	7,600.6	66,559	917,068	287,132	1,204,200

¹ Increase in coal tar removal w/ no change in groundwater removal volume due to coal tar collection tank and wash tank being pumped out and shipped to WRR in Eau Claire, WI. Total volume of 1324 gallons, w/ a current estimate of 85% coal tar in that volume.

² Correction of revised quantity of coal tar removed on 4/23/2003 of -211.9 gallons due to settling of emulsified coal tar measured on this date.

**Table 6
Remediation System Air Treatment Summary
Northern States Power, Ashland, Wisconsin**

Sample Date	Total Elapsed Time (days) ¹	Sample Type (Influent/Effluent)	Air Flow Rate (CFM)	Effluent Temp. (F)	Total Hydrocarbons (mg/m ^{3,2})	Benzene (mg/m ^{3,2})	Total Hydrocarbon Rate (lbs/day) ³	Benzene Rate (lbs/day) ³	Cummulative Mass of Hydrocarbons Removed by Carbon (lbs.) ⁴	Cummulative Mass of Benzene Removed by Carbon (lbs.) ⁴	Cummulative Mass of Hydrocarbons Emitted (lbs.) ⁴	Cummulative Mass of Benzene Emitted (lbs.) ⁴
28-Sep-00	2	Effluent	176	70	5	3.33	0.08	0.05	-	-	0.2	0.1
19-Jan-01	21	Influent	176	-	45.5	9.1	0.71	0.14	10.36	0.00		
19-Jan-01	21	Effluent	176	45	13.7	9.1	0.21	0.14			4.2	2.8
30-Mar-01	84	Influent	176	-	71.7	26.3	1.11	0.41	50.73	18.08		
30-Mar-01	84	Effluent	176	52	30.4	7.8	0.47	0.12			33.9	10.4
11-Apr-01	96	Influent	176	-	33	7.67	0.51	0.12	56.32	19.14		
11-Apr-01	96	Effluent	176	62	3	2	0.05	0.03			34.5	10.8
17-May-01	110	Effluent	176	68	5	3.33	0.08	0.05			35.6	11.5
13-Jun-01	125	Effluent	176	80	5	3.33	0.08	0.05			36.7	12.3
31-Jul-01	135	Effluent	176	80	5	3.33	0.08	0.05			37.5	12.8
7-Dec-01	196	Influent	176	35	60	10	0.93	0.16	116.90	26.49		
7-Dec-01	196	Effluent	176	35	5	3.33	0.08	0.05			44.2	17.2
22-Feb-02	232	Influent	176	30	303	39	4.70	0.61	284.47	47.15		
22-Feb-02	232	Effluent	176	30	3	2	0.05	0.03			45.8	18.4
4-Apr-02	267	Influent	176	55	33	8	0.51	0.12	300.76	50.41		
4-Apr-02	267	Effluent	176	55	3	2	0.05	0.03			47.5	19.4
8-Aug-02	393	Influent	15	80	1270	311	1.68	0.41	473.04	91.27		
8-Aug-02	393	Effluent	15	80	236	65.8	0.31	0.09			86.8	30.4
31-Oct-02	456	Influent	125	32	2100	410	23.14	4.52	1919.39	373.59		
31-Oct-02	456	Intermediate	125	32	32.7	3.33	0.36	0.04				
31-Oct-02	456	Effluent	125	32	16.6	2	0.18	0.02			98.3	31.8
27-Nov-02	470	Influent	125	25	1780	500	19.61	5.51	2193.53	450.21		
27-Nov-02	470	Intermediate	125	25	15.3	3.33	0.17	0.04				
27-Nov-02	470	Effluent	125	25	3	2	0.03	0.02			98.8	32.1
30-Jan-03	534	Influent	125	20	17.7	3.33	0.20	0.04	2189.80	445.01		
30-Jan-03	534	Intermediate	125	20	19.7	6.67	0.22	0.07				
30-Jan-03	534	Effluent	125	20	23	10.7	0.25	0.12			115.0	39.7
19-Feb-03	554	Influent	125	19	5	3.33	0.06	0.04	2188.43	444.73		
19-Feb-03	554	Intermediate	125	19	5	3.33	0.06	0.04				
19-Feb-03	554	Effluent	125	19	11.2	4.6	0.12	0.05			117.5	40.7
2-Apr-03	580	Influent	125	29	22	3.33	0.24	0.04	2187.11	442.42		
2-Apr-03	580	Intermediate	125	29	47.3	14.7	0.52	0.16				
2-Apr-03	580	Effluent	125	29	26.6	11.4	0.29	0.13			125.1	43.9
23-Apr-03	596	Influent	125	29	66.3	18.3	0.73	0.20	2195.52	444.62		
23-Apr-03	596	Intermediate	125	29	20.7	3.33	0.23	0.04				
23-Apr-03	596	Effluent	125	29	18.6	5.8	0.20	0.06			128.4	45.0
21-May-03	619	Influent	125	29	43	10	0.47	0.11	2198.51	445.69		
21-May-03	619	Intermediate	125	29	36.7	3.33	0.40	0.04				
21-May-03	619	Effluent	125	29	31.2	5.8	0.34	0.06			136.3	46.4
25-Jun-03	654	Influent	125	29	22	3.33	0.24	0.04	2196.74	442.57		
25-Jun-03	654	Intermediate	125	29	47.3	14.7	0.52	0.16				
25-Jun-03	654	Effluent	125	29	26.6	11.4	0.29	0.13			146.5	50.8
30-Jul-03	684	Influent	125	29	10	3.33	0.11	0.04	2187.05	442.57		
30-Jul-03	684	Intermediate	125	29	15.7	3.33	0.17	0.04				
30-Jul-03	684	Effluent	125	29	39.3	3.33	0.43	0.04			159.5	51.9
28-Aug-03	713	Influent	125	29	5	3.33	0.06	0.04	2183.67	443.00		
28-Aug-03	713	Intermediate	125	29	15	3.33	0.17	0.04				
28-Aug-03	713	Effluent	125	29	15.6	2	0.17	0.02			164.5	52.6
29-Sep-03	745	Influent	125	29	21.3	3.33	0.23	0.04	2182.22	442.34		
29-Sep-03	745	Intermediate	125	29	15	3.33	0.17	0.04				
29-Sep-03	745	Effluent	125	29	25.4	5.2	0.28	0.06			173.5	54.4
29-Oct-03	775	Influent	125	29	5	3.33	0.06	0.04	2179.24	442.78		
29-Oct-03	775	Intermediate	125	29	14.3	3.33	0.16	0.04				
29-Oct-03	775	Effluent	125	29	14	2	0.15	0.02			178.1	55.1

**Table 6
Remediation System Air Treatment Summary
Northern States Power, Ashland, Wisconsin**

Sample Date	Total Elapsed Time (days) ¹	Sample Type (Influent/Effluent)	Air Flow Rate (CFM)	Effluent Temp. (F)	Total Hydrocarbons (mg/m ^{3,2})	Benzene (mg/m ^{3,2})	Total Hydrocarbon Rate (lbs/day) ³	Benzene Rate (lbs/day) ³	Cummulative Mass of Hydrocarbons Removed by Carbon (lbs.) ⁴	Cummulative Mass of Benzene Removed by Carbon (lbs.) ⁴	Cummulative Mass of Hydrocarbons Emitted (lbs.) ⁴	Cummulative Mass of Benzene Emitted (lbs.) ⁴
19-Nov-03	796	Influent	125	29	5	3.33	0.06	0.04	2179.71	443.09		
19-Nov-03	796	Intermediate	125	29	5	3.33	0.06	0.04				
19-Nov-03	796	Effluent	125	29	3	2	0.03	0.02			178.8	55.5
29-Dec-03	836	Influent	125	29	5	3.33	0.06	0.04	2177.59	443.67		
29-Dec-03	836	Intermediate	125	29	5	3.33	0.06	0.04				
29-Dec-03	836	Effluent	125	29	9.8	2	0.11	0.02			183.1	56.4
20-Jan-04	858	Influent	125	29	12.7	3.33	0.14	0.04	2179.94	444.00		
20-Jan-04	858	Intermediate	125	29	5	3.33	0.06	0.04				
20-Jan-04	858	Effluent	125	29	3	2	0.03	0.02			183.8	56.9
26-Feb-04	895	Influent	125	29	28.3	6.67	0.31	0.07	2183.65	443.78		
26-Feb-04	895	Intermediate	125	29	23.7	8.33	0.26	0.09				
26-Feb-04	895	Effluent	125	29	19.2	7.20	0.21	0.08			191.7	59.8
19-Mar-04	917	Influent	125	29	12.67	3.33	0.14	0.04	2183.52	442.94		
19-Mar-04	917	Intermediate	125	29	20.00	9.00	0.22	0.10				
19-Mar-04	917	Effluent	125	29	13.20	6.80	0.15	0.07			194.9	61.5
27-Apr-04	956	Influent	125	29	11.30	3.33	0.12	0.04	2184.26	443.51		
27-Apr-04	956	Intermediate	125	29	11.00	3.33	0.12	0.04				
27-Apr-04	956	Effluent	125	29	9.60	2.00	0.11	0.02			199.0	62.3
26-May-04	985	Influent	125	29	5.00	3.33	0.06	0.04	2178.25	443.11		
26-May-04	985	Intermediate	125	29	19.70	3.33	0.22	0.04				
26-May-04	985	Effluent	125	29	23.80	4.60	0.26	0.05			206.6	63.8
24-Jun-04	1014	Influent	125	29	11.70	3.33	0.13	0.04	2179.11	443.53		
24-Jun-04	1014	Intermediate	125	29	13.00	3.33	0.14	0.04				
24-Jun-04	1014	Effluent	125	29	9.00	2.00	0.10	0.02			209.5	64.4
6-Jul-04	1026	Influent	125	29	108.00	3.33	1.19	0.04	2191.17	443.71		
6-Jul-04	1026	Intermediate	125	29	23.01	3.33	0.25	0.04				
6-Jul-04	1026	Effluent	125	29	16.80	2.00	0.19	0.02			211.7	64.7
19-Aug-04	1070	Influent	125	29	5.00	3.33	0.06	0.04	2192.14	444.35		
19-Aug-04	1070	Intermediate	125	29	5.00	3.33	0.06	0.04				
19-Aug-04	1070	Effluent	125	29	3.00	2.00	0.03	0.02			213.1	65.7
30-Sep-04	1112	Influent	125	29	10.30	3.33	0.11	0.04	2190.89	444.97		
30-Sep-04	1112	Intermediate	125	29	14.30	3.33	0.16	0.04				
30-Sep-04	1112	Effluent	125	29	13.00	2.00	0.14	0.02			219.2	66.6
28-Oct-04	1140	Influent	125	29	13.30	3.33	0.15	0.04	2186.48	442.48		
28-Oct-04	1140	Intermediate	125	29	37.30	13.70	0.41	0.15				
28-Oct-04	1140	Effluent	125	29	27.60	11.40	0.30	0.13			227.7	70.1
17-Nov-04	1160	Influent	125	29	23.70	7.00	0.26	0.08	2186.54	442.21		
17-Nov-04	1160	Intermediate	125	29	21.00	6.67	0.23	0.07				
17-Nov-04	1160	Effluent	125	29	23.40	8.20	0.26	0.09			232.8	71.9
15-Dec-04	1188	Influent	125	29	84.70	23.30	0.93	0.26	2197.50	445.51		
15-Dec-04	1188	Intermediate	125	29	52.00	15.00	0.57	0.17				
15-Dec-04	1188	Effluent	125	29	49.20	12.60	0.54	0.14			248.0	75.8
12-Jan-05	1216	Influent	125	29	12.30	3.33	0.14	0.04	2200.37	445.92		
12-Jan-05	1216	Intermediate	125	29	5.00	3.33	0.06	0.04				
12-Jan-05	1216	Effluent	125	29	3.00	2.00	0.03	0.02			248.9	76.4
8-Feb-05	1243	Influent	125	29	15.30	4.17	0.17	0.05	2201.05	446.42		
8-Feb-05	1243	Intermediate	125	29	14.00	4.17	0.15	0.05				
8-Feb-05	1243	Effluent	125	29	13.00	2.50	0.14	0.03			252.8	77.2
25-Mar-05	1288	Influent	125	29	5.00	3.33	0.06	0.04	2199.66	447.08		
25-Mar-05	1288	Intermediate	125	29	5.00	3.33	0.06	0.04				
25-Mar-05	1288	Effluent	125	29	7.80	2.00	0.09	0.02			256.7	78.2
6-Apr-05	1300	Influent	125	29	13.00	3.33	0.14	0.04	2200.32	447.26		
6-Apr-05	1300	Intermediate	125	29	11.00	3.33	0.12	0.04				
6-Apr-05	1300	Effluent	125	29	8.00	2.00	0.09	0.02			257.7	78.4
12-May-05	1336	Influent	125	29	5.00	3.33	0.06	0.04	2195.09	445.72		
12-May-05	1336	Intermediate	125	29	16.15	6.50	0.18	0.07				
12-May-05	1336	Effluent	125	29	18.20	7.20	0.20	0.08			265.0	81.3
15-Jun-05	1370	Influent	125	29	5.00	3.33	0.06	0.04	2192.76	446.22		
15-Jun-05	1370	Intermediate	125	29	10.00	3.33	0.11	0.04				
15-Jun-05	1370	Effluent	125	29	11.20	2.00	0.12	0.02			269.2	82.0

- (1) Total Elapsed Time, in days, only for days of remediation system operation, not days since start-up.
- (2) When a below detection result occurs, the assumed value is half of the detection limit.
For the 1/19/01 sampling, the samples were incorrectly labeled: Drum #1 is influent to Drum #1, Drum #2 is influent to Drum #2, and Air Stripper is Air Effluent.
- (3) Daily emission rate based on laboratory results.
- (4) Emission rate to date calculated from average daily emission rate and total days of remediation system operation.

**Table 7
Remediation System Water Treatment Summary
Northern States Power, Ashland, Wisconsin**

Sample Date	Total Elapsed Time (days) ¹	Sample Type	Cummulative Volume of Treated Effluent (gal.)	VOCs (ug/L) ²	Benzene (ug/L) ²	Cummulative Mass of VOCs Removed (lbs.) ³	Cummulative Mass of Benzene Removed (lbs.) ³	Cummulative Mass of VOCs Discharged (lbs.) ⁴	Cummulative Mass of Benzene Discharged (lbs.) ⁴
5-Oct-00	9	Influent ⁵		121,985	60,000				
5-Oct-00	9	Effluent	10,592	12.9	0.94	10.8	5.3	0.00114	0.00008
19-Jan-01	21	Inlet ⁶		859.5	90.4				
19-Jan-01	21	Mid Carbon		17.3	0.62				
19-Jan-01	21	Effluent	17,346	16.6	0.7	17.7	8.7	0.00208	0.00012
30-Mar-01	84	Inlet ⁶		1,120.60	140				
30-Mar-01	84	Effluent	44,613	14.45	0.05	45.6	22.4	0.00520	0.00024
11-Apr-01	96	Influent ⁵		100,629	46,000				
11-Apr-01	96	Inlet ⁶		557.5	110				
11-Apr-01	96	Mid Carbon		50.73	5.1				
11-Apr-01	96	Effluent	54,636	13.79	0.94	54.0	26.3	0.00636	0.00031
17-May-01	110	Effluent	58,967	23.46	1.3	57.6	27.9	0.00721	0.00036
13-Jun-01	125	Effluent	61,094	7.74	0.05	59.4	28.8	0.00735	0.00036
13-Jul-01	135	Influent ⁵		97,450	51,000				
31-Jul-01	135	Effluent	65,758	12.36	0.05	63.2	30.7	0.00783	0.00036
20-Sep-01	157	Influent ⁵		113,925	58,000				
20-Sep-01	157	Inlet ⁶		3,205	1,100				
20-Sep-01	157	Effluent	91,894	19.23	0.05	88.1	43.4	0.01203	0.00038
7-Dec-01	196	Influent ⁵		101,620	52,000				
7-Dec-01	196	Inlet ⁶		4,153.5	530				
7-Dec-01	196	Effluent	136,300	9.835	0.05	125.7	62.7	0.01567	0.00039
14-Feb-02	224	Influent		83,055	35,000				
14-Feb-02	224	Precarbon		35,355.3	7,200				
14-Feb-02	224	Effluent	181,000	8.1	0.2	156.7	75.7	0.01869	0.00047
21-Mar-02	256	Influent		143,140	53,000				
21-Mar-02	256	Precarbon		15,716.5	1,600				
21-Mar-02	256	Effluent	202,700	88.22	67	182.6	85.3	0.03467	0.01264
11-Jun-02	323	Influent		63,570	23,000				
11-Jun-02	323	Precarbon		26,320.0	6,400				
11-Jun-02	323	Effluent	286,524	1,244	1,100	226.2	100.6	0.90481	0.78458
8-Aug-02	393	Influent		87,060	41,000				
8-Aug-02	393	Precarbon		26,320.0	18,695				
8-Aug-02	393	Effluent	402,800	6,554.1	4,000	304.3	136.5	7.26406	4.67835
31-Oct-02	456	Influent		27,090.0	5,600				
31-Oct-02	456	Precarbon		24,362.5	13,000				
31-Oct-02	456	Effluent	502,600	2,438.3	1,600	324.9	139.9	9.30128	6.01517
27-Nov-02	470	Influent		52,350.0	22,000				
27-Nov-02	470	Precarbon		15,633.0	7,300				
27-Nov-02	470	Effluent	519,000	6,449.5	4,600	331.1	142.2	10.18390	6.64674
18-Dec-02	491	Influent		45,325.0	19,000				
18-Dec-02	491	Precarbon		7,685.0	2,700				
18-Dec-02	491	Effluent	542,800	4,785.0	3,300	339.2	145.4	11.13420	7.30426
30-Jan-03	534	Influent		35,275.0	9,600				
30-Jan-03	534	Precarbon		4,230.0	1,700				
30-Jan-03	534	Effluent	581,400	4,584.7	2,200	349.1	147.7	12.61092	8.01520
19-Feb-03	554	Influent		71,520.0	32,000				
19-Feb-03	554	Precarbon		3,149.0	81				
19-Feb-03	554	Effluent	598,000	4,004.0	1,500	358.4	152.0	13.16556	8.22366
2-Apr-03	580	Influent		20,876.0	6,300				
2-Apr-03	580	Precarbon		1,553.0	120				
2-Apr-03	580	Effluent	623,300	114.7	22	362.8	153.3	13.18977	8.22832
23-Apr-03	596	Influent		30,060.0	9,500				
23-Apr-03	596	Precarbon		2,095.0	29				
23-Apr-03	596	Effluent	645,300	3.0	0.15	368.3	155.0	13.19032	8.22835
21-May-03	619	Influent		25,470.0	6,100				
21-May-03	619	Precarbon		5,491.0	71				
21-May-03	619	Effluent	687,700	3.1	0.15	377.3	157.2	13.19142	8.22840
25-Jun-03	654	Influent		42,650.0	26,000				
25-Jun-03	654	Precarbon		3,310.0	150				
25-Jun-03	654	Effluent	721,000	1.9	0.12	389.2	164.4	13.19195	8.22843
30-Jul-03	684	Influent		8,440.0	1,400				
30-Jul-03	684	Precarbon		144.0	6				
30-Jul-03	684	Effluent	748,800	1.2	0.19	391.1	164.7	13.19224	8.22848
28-Aug-03	713	Influent		10,630.0	2,200				
28-Aug-03	713	Precarbon		434.3	36				
28-Aug-03	713	Effluent	761,700	0.5	0.16	392.3	165.0	13.19229	8.22849

**Table 7
Remediation System Water Treatment Summary
Northern States Power, Ashland, Wisconsin**

Sample Date	Total Elapsed Time (days) ¹	Sample Type	Cummulative Volume of Treated Effluent (gal.)	VOCs (ug/L) ²	Benzene (ug/L) ²	Cummulative Mass of VOCs Removed (lbs.) ³	Cummulative Mass of Benzene Removed (lbs.) ³	Cummulative Mass of VOCs Discharged (lbs.) ⁴	Cummulative Mass of Benzene Discharged (lbs.) ⁴
29-Sep-03	745	Influent		18,770	3,400				
29-Sep-03	745	Precarbon		300.1	17				
29-Sep-03	745	Effluent	781,500	0.7	0.12	395.4	165.5	13.19241	8.22851
29-Oct-03	775	Influent		8,730	1,200				
29-Oct-03	775	Precarbon		169.7	3				
29-Oct-03	775	Effluent	793,400	0.3	0.18	396.3	165.7	13.19243	8.22853
19-Nov-03	796	Influent		10,940	2,000				
19-Nov-03	796	Precarbon		529	23				
19-Nov-03	796	Effluent	799,900	3.5	0.71	396.8	165.8	13.19262	8.22857
29-Dec-03	836	Influent		11,710	2,100				
29-Dec-03	836	Precarbon		7,815	2,900				
29-Dec-03	836	Effluent	821,500	0.0	0.12	399.0	166.1	13.19262	8.22859
20-Jan-04	858	Influent		9,021	2,200				
20-Jan-04	858	Precarbon		576	44				
20-Jan-04	858	Effluent	826,300	2.57	0.50	399.3	166.2	13.19273	8.22861
26-Feb-04	895	Influent		21,425	4,900				
26-Feb-04	895	Precarbon		631	38				
26-Feb-04	895	Effluent	854,700	0.49	0.05	404.4	167.4	13.19284	8.22862
15-Mar-04	917	Influent		20,660	4,500				
15-Mar-04	917	Precarbon		673	39				
15-Mar-04	917	Effluent	876,900	0	0.05	408.2	168.2	13.19284	8.22863
27-Apr-04	956	Influent		11,650	3,500				
27-Apr-04	956	Precarbon		430	74				
27-Apr-04	956	Effluent	893,300	0.28	0.09	409.8	168.7	13.19288	8.22865
26-May-04	985	Influent		22,300	4,800				
26-May-04	985	Precarbon		500	12				
26-May-04	985	Effluent	914,600	0	0.15	413.8	169.6	13.19288	8.22867
24-Jun-04	1014	Influent		24,040	4,800				
24-Jun-04	1014	Precarbon		627	47				
24-Jun-04	1014	Effluent	953,200	0	0.15	421.5	171.1	13.19288	8.22872
6-Jul-04	1026	Influent		15,530	2,600				
6-Jul-04	1026	Precarbon		153.1	9.8				
6-Jul-04	1026	Effluent	965,100	0.59	0.09	423.1	171.4	13.19294	8.22873
19-Aug-04	1070	Influent		15,060	1,900				
19-Aug-04	1070	Precarbon		82.2	5.2				
19-Aug-04	1070	Effluent	994,600	0.37	0.09	426.8	171.8	13.19303	8.22875
27-Sep-04	1109	Influent		23,520	5,800				
27-Sep-04	1109	Precarbon		645.9	17.0				
27-Sep-04	1109	Effluent	1,028,400	0.29	0.09	433.4	173.5	13.19311	8.22878
28-Oct-04	1140	Influent		21,680	5,000				
28-Oct-04	1140	Precarbon		274.6	26				
28-Oct-04	1140	Effluent	1,057,500	0.64	0.09	438.7	174.7	13.19327	8.22880
17-Nov-04	1160	Influent		29,010	9,600				
17-Nov-04	1160	Precarbon		201.7	14				
17-Nov-04	1160	Effluent	1,069,800	0.00	0.09	441.7	175.7	13.19327	8.22881
15-Dec-04	1188	Influent		22,710	6,200				
15-Dec-04	1188	Precarbon		199.4	21				
15-Dec-04	1188	Effluent	1,090,700	201.1	200	445.6	176.7	13.22834	8.26380
12-Jan-05	1216	Influent		69,060	23,000				
12-Jan-05	1216	Precarbon		11.8	1.9				
12-Jan-05	1216	Effluent	1,112,900	167.5	160	458.3	180.9	13.25937	8.29354
8-Feb-05	1243	Influent		18,930	4,300				
8-Feb-05	1243	Precarbon		211.8	27				
8-Feb-05	1243	Effluent	1,134,700	0.7	0.42	461.8	181.7	13.25950	8.29362
18-Mar-05	1281	Influent		10,710	2,100				
18-Mar-05	1281	Precarbon		926	510				
18-Mar-05	1281	Effluent	1,160,800	1.13	0	464.1	182.2	13.25974	8.29362
6-Apr-05	1300	Influent		7,750	1,200				
6-Apr-05	1300	Precarbon		220.6	18				
6-Apr-05	1300	Effluent	1,175,000	0	0	465.0	182.3	13.25974	8.29362
12-May-05	1336	Influent		5,610	850				
12-May-05	1336	Precarbon		349.4	79				
12-May-05	1336	Effluent	1,191,500	1.0	0	465.8	182.4	13.25988	8.29362
15-Jun-05	1370	Influent		47,000	14,000				
15-Jun-05	1370	Precarbon		21.1	0.95				
15-Jun-05	1370	Effluent	1,200,800	0	0	469.5	183.5	13.25988	8.29362

- (1) Total Elapsed Time, in days, only for days of remediation system operation, not days since start-up.
- (2) When a below detection result occurs, the assumed value is half of the detection limit.
- (3) Removal based on Influent vs. Effluent
- (4) Emission rate to date calculated from average concentrations in effluent and total days of remediation system operation.
- (5) This sample was collected at the oil-water separator discharge, prior to the air diffuser.
- (6) This sample was collected at the inlet to the liquid phase carbon.

Appendix

Laboratory Reporting Forms

ANALYTICAL REPORT

Client: URS Corporation (Milwaukee)
 Attn: Paul Sklar
 10200 West Innovation Drive #500
 Milwaukee, WI 53226 4827

NLS Project: 90359

NLS Customer: 91206

Fax: 414 831 4101 Phone: 414 831 4100

Project: Xcel Energy - Ashland

Influent NLS ID: 374852

Ref. Line 1 COC 77023 Influent Matrix: GW
 Collected: 06/15/05 00:00 Received: 06/16/05

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8260	see attached					06/20/05	SW846 8260	721026460

Pre Carbon NLS ID: 374853

Ref. Line 2 COC 77023 Pre Carbon Matrix: GW
 Collected: 06/15/05 00:00 Received: 06/16/05

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8260	see attached					06/20/05	SW846 8260	721026460

Effluent NLS ID: 374854

Ref. Line 3 COC 77023 Effluent Matrix: GW
 Collected: 06/15/05 00:00 Received: 06/16/05

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil and Grease, water (hexane)	ND	mg/L	1	1.1	3.8	06/20/05	EPA 1664	721026460
VOCs (water) by EPA 8260	see attached					06/17/05	SW846 8260	721026460
PAH (water) EPA 8270C - SIM	see attached					06/25/05	SW846 8270C	721026460
Organics Extraction PAH (water) EPA 8270C - SIM	yes					06/21/05	EPA 8270C	721026460

Trip Blank NLS ID: 374855

Ref. Line COC 77023 Trip Blank Matrix: TB
 Collected: 06/15/05 00:00 Received: 06/16/05

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8260	see attached					06/17/05	SW846 8260	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection LOQ = Limit of Quantitation ND = Not Detected 1000 ug/L = 1 mg/L
 DWB = Dry Weight Basis NA = Not Applicable %DWB = (mg/kg DWB) / 10000

Reviewed by: _____
 Authorized by:
 R. T. Krueger
 President

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)

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Customer: URS Corporation (Milwaukee) NLS Project: 90359

Project Description: Xcel Energy - Ashland

Project Title: Template: SATW Printed: 07/11/2005 10:37

Sample: 374852 Influent Collected: 06/15/05 Analyzed: 06/17/05 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	14000	ug/L	1250	360	1200
Bromobenzene	ND	ug/L	500	52	180
Bromochloromethane	ND	ug/L	500	130	440
Bromodichloromethane	ND	ug/L	500	160	530
Bromoform	ND	ug/L	500	140	460
Bromomethane	ND	ug/L	500	190	650
n-Butylbenzene	ND	ug/L	500	160	520
sec-Butylbenzene	ND	ug/L	500	160	550
tert-Butylbenzene	ND	ug/L	500	150	520
Carbon Tetrachloride	ND	ug/L	500	150	490
Chlorobenzene	ND	ug/L	500	100	350
Chloroethane	ND	ug/L	500	850	2800
Chloroform	ND	ug/L	500	150	490
Chloromethane	ND	ug/L	500	120	380
2-Chlorotoluene	ND	ug/L	500	200	660
4-Chlorotoluene	ND	ug/L	500	180	610
Dibromochloromethane	ND	ug/L	500	150	490
1,2-Dibromo-3-Chloropropane	ND	ug/L	500	170	550
1,2-Dibromoethane	ND	ug/L	500	150	500
Dibromomethane	ND	ug/L	500	160	530
1,2-Dichlorobenzene	ND	ug/L	500	140	460
1,3-Dichlorobenzene	ND	ug/L	500	120	390
1,4-Dichlorobenzene	ND	ug/L	500	120	390
Dichlorodifluoromethane	ND	ug/L	500	89	320
1,1-Dichloroethane	ND	ug/L	500	150	500
1,2-Dichloroethane	ND	ug/L	500	170	570
1,1-Dichloroethene	ND	ug/L	500	210	680
cis-1,2-Dichloroethene	ND	ug/L	500	200	670
trans-1,2-Dichloroethene	ND	ug/L	500	170	580
1,2-Dichloropropane	ND	ug/L	500	170	580
1,3-Dichloropropane	ND	ug/L	500	170	560
2,2-Dichloropropane	ND	ug/L	500	220	730
1,1-Dichloropropene	ND	ug/L	500	160	540
cis-1,3-Dichloropropene	ND	ug/L	500	130	450
trans-1,3-Dichloropropene	ND	ug/L	500	160	540
Ethylbenzene	450	ug/L	500	130	430
Hexachlorobutadiene	ND	ug/L	500	210	690
Isopropylbenzene	ND	ug/L	500	180	610
p-Isopropyltoluene	ND	ug/L	500	150	510
Methylene chloride	ND	ug/L	500	210	710
Naphthalene	10000	ug/L	500	200	650
n-Propylbenzene	ND	ug/L	500	170	560
ortho-Xylene	1600	ug/L	500	130	440
Styrene	4500	ug/L	500	160	530
1,1,1,2-Tetrachloroethane	ND	ug/L	500	140	470
1,1,2,2-Tetrachloroethane	ND	ug/L	500	160	550
Tetrachloroethene	ND	ug/L	500	150	510
Toluene	13000	ug/L	1250	420	1400

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)

Page 2 of 8

Customer: URS Corporation (Milwaukee) NLS Project: 90359

Project Description: Xcel Energy - Ashland

Project Title: Template: SATW Printed: 07/11/2005 10:37

Sample: 374852 Influent Collected: 06/15/05 Analyzed: 06/17/05 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,2,3-Trichlorobenzene	ND	ug/L	500	180	610
1,2,4-Trichlorobenzene	ND	ug/L	500	180	610
1,1,1-Trichloroethane	ND	ug/L	500	130	440
1,1,2-Trichloroethane	ND	ug/L	500	210	700
Trichloroethene	ND	ug/L	500	120	410
Trichlorofluoromethane	ND	ug/L	500	190	640
1,2,3-Trichloropropane	ND	ug/L	500	220	730
1,2,4-Trimethylbenzene	550	ug/L	500	150	510
1,3,5-Trimethylbenzene	ND	ug/L	500	200	650
Vinyl chloride	ND	ug/L	500	53	190
meta,para-Xylene	2900	ug/L	500	310	1000
MTBE	ND	ug/L	500	150	510
Isopropyl Ether	ND	ug/L	500	180	590
Dibromofluoromethane (SURR**)	108%				
Toluene-d8 (SURR**)	109%				
1-Bromo-4-Fluorobenzene (SURR**)	103%				

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)

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Customer: URS Corporation (Milwaukee) NLS Project: 90359

Project Description: Xcel Energy - Ashland

Project Title: Template: SATW Printed: 07/11/2005 10:37

Sample: 374853 Pre Carbon

Collected: 06/15/05

Analyzed: 06/20/05 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	[0.95]	ug/L	1	0.29	0.97
Bromobenzene	ND	ug/L	1	0.10	0.37
Bromochloromethane	ND	ug/L	1	0.27	0.89
Bromodichloromethane	ND	ug/L	1	0.32	1.1
Bromoform	ND	ug/L	1	0.28	0.92
Bromomethane	ND	ug/L	1	0.39	1.3
n-Butylbenzene	ND	ug/L	1	0.31	1.0
sec-Butylbenzene	ND	ug/L	1	0.33	1.1
tert-Butylbenzene	ND	ug/L	1	0.31	1.0
Carbon Tetrachloride	ND	ug/L	1	0.30	0.98
Chlorobenzene	ND	ug/L	1	0.21	0.70
Chloroethane	ND	ug/L	1	1.7	5.7
Chloroform	ND	ug/L	1	0.30	0.99
Chloromethane	ND	ug/L	1	0.24	0.75
2-Chlorotoluene	ND	ug/L	1	0.39	1.3
4-Chlorotoluene	ND	ug/L	1	0.37	1.2
Dibromochloromethane	ND	ug/L	1	0.29	0.97
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.33	1.1
1,2-Dibromoethane	ND	ug/L	1	0.30	1.0
Dibromomethane	ND	ug/L	1	0.32	1.1
1,2-Dichlorobenzene	ND	ug/L	1	0.28	0.93
1,3-Dichlorobenzene	ND	ug/L	1	0.24	0.79
1,4-Dichlorobenzene	ND	ug/L	1	0.23	0.78
Dichlorodifluoromethane	ND	ug/L	1	0.18	0.63
1,1-Dichloroethane	ND	ug/L	1	0.30	0.99
1,2-Dichloroethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethene	ND	ug/L	1	0.41	1.4
cis-1,2-Dichloroethene	ND	ug/L	1	0.40	1.3
trans-1,2-Dichloroethene	ND	ug/L	1	0.35	1.2
1,2-Dichloropropane	ND	ug/L	1	0.35	1.2
1,3-Dichloropropane	ND	ug/L	1	0.34	1.1
2,2-Dichloropropane	ND	ug/L	1	0.44	1.5
1,1-Dichloropropene	ND	ug/L	1	0.32	1.1
cis-1,3-Dichloropropene	ND	ug/L	1	0.27	0.89
trans-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1
Ethylbenzene	ND	ug/L	1	0.26	0.87
Hexachlorobutadiene	ND	ug/L	1	0.41	1.4
Isopropylbenzene	ND	ug/L	1	0.36	1.2
p-Isopropyltoluene	ND	ug/L	1	0.30	1.0
Methylene chloride	[0.67]	ug/L	1	0.43	1.4
Naphthalene	12	ug/L	1	0.39	1.3
n-Propylbenzene	ND	ug/L	1	0.34	1.1
ortho-Xylene	1.4	ug/L	1	0.27	0.89
Styrene	[0.65]	ug/L	1	0.32	1.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.28	0.94
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.33	1.1
Tetrachloroethene	ND	ug/L	1	0.31	1.0
Toluene	1.3	ug/L	1	0.34	1.1

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)

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Customer: URS Corporation (Milwaukee) NLS Project: 90359

Project Description: Xcel Energy - Ashland

Project Title: Template: SATW Printed: 07/11/2005 10:37

Sample: 374853 Pre Carbon Collected: 06/15/05 Analyzed: 06/20/05 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,2,3-Trichlorobenzene	ND	ug/L	1	0.36	1.2
1,2,4-Trichlorobenzene	ND	ug/L	1	0.37	1.2
1,1,1-Trichloroethane	ND	ug/L	1	0.27	0.88
1,1,2-Trichloroethane	ND	ug/L	1	0.42	1.4
Trichloroethene	ND	ug/L	1	0.25	0.82
Trichlorofluoromethane	ND	ug/L	1	0.38	1.3
1,2,3-Trichloropropane	ND	ug/L	1	0.44	1.5
1,2,4-Trimethylbenzene	1.3	ug/L	1	0.31	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1	0.39	1.3
Vinyl chloride	ND	ug/L	1	0.11	0.38
meta,para-Xylene	2.8	ug/L	1	0.62	2.1
MTBE	ND	ug/L	1	0.31	1.0
Isopropyl Ether	ND	ug/L	1	0.35	1.2
Dibromofluoromethane (SURR**)	102%				
Toluene-d8 (SURR**)	109%				
1-Bromo-4-Fluorobenzene (SURR**)	106%				

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)

Page 5 of 8

Customer: URS Corporation (Milwaukee) NLS Project: 90359

Project Description: Xcel Energy - Ashland

Project Title: Template: SATW Printed: 07/11/2005 10:37

Sample: 374854 Effluent Collected: 06/15/05 Analyzed: 06/17/05 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.29	0.97
Bromobenzene	ND	ug/L	1	0.10	0.37
Bromochloromethane	ND	ug/L	1	0.27	0.89
Bromodichloromethane	ND	ug/L	1	0.32	1.1
Bromoform	ND	ug/L	1	0.28	0.92
Bromomethane	ND	ug/L	1	0.39	1.3
n-Butylbenzene	ND	ug/L	1	0.31	1.0
sec-Butylbenzene	ND	ug/L	1	0.33	1.1
tert-Butylbenzene	ND	ug/L	1	0.31	1.0
Carbon Tetrachloride	ND	ug/L	1	0.30	0.98
Chlorobenzene	ND	ug/L	1	0.21	0.70
Chloroethane	ND	ug/L	1	1.7	5.7
Chloroform	ND	ug/L	1	0.30	0.99
Chloromethane	ND	ug/L	1	0.24	0.75
2-Chlorotoluene	ND	ug/L	1	0.39	1.3
4-Chlorotoluene	ND	ug/L	1	0.37	1.2
Dibromochloromethane	ND	ug/L	1	0.29	0.97
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.33	1.1
1,2-Dibromoethane	ND	ug/L	1	0.30	1.0
Dibromomethane	ND	ug/L	1	0.32	1.1
1,2-Dichlorobenzene	ND	ug/L	1	0.28	0.93
1,3-Dichlorobenzene	ND	ug/L	1	0.24	0.79
1,4-Dichlorobenzene	ND	ug/L	1	0.23	0.78
Dichlorodifluoromethane	ND	ug/L	1	0.18	0.63
1,1-Dichloroethane	ND	ug/L	1	0.30	0.99
1,2-Dichloroethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethene	ND	ug/L	1	0.41	1.4
cis-1,2-Dichloroethene	ND	ug/L	1	0.40	1.3
trans-1,2-Dichloroethene	ND	ug/L	1	0.35	1.2
1,2-Dichloropropane	ND	ug/L	1	0.35	1.2
1,3-Dichloropropane	ND	ug/L	1	0.34	1.1
2,2-Dichloropropane	ND	ug/L	1	0.44	1.5
1,1-Dichloropropene	ND	ug/L	1	0.32	1.1
cis-1,3-Dichloropropene	ND	ug/L	1	0.27	0.89
trans-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1
Ethylbenzene	ND	ug/L	1	0.26	0.87
Hexachlorobutadiene	ND	ug/L	1	0.41	1.4
Isopropylbenzene	ND	ug/L	1	0.36	1.2
p-Isopropyltoluene	ND	ug/L	1	0.30	1.0
Methylene chloride	ND	ug/L	1	0.43	1.4
Naphthalene	ND	ug/L	1	0.39	1.3
n-Propylbenzene	ND	ug/L	1	0.34	1.1
ortho-Xylene	ND	ug/L	1	0.27	0.89
Styrene	ND	ug/L	1	0.32	1.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.28	0.94
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.33	1.1
Tetrachloroethene	ND	ug/L	1	0.31	1.0
Toluene	ND	ug/L	1	0.34	1.1

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)

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Customer: URS Corporation (Milwaukee) NLS Project: 90359

Project Description: Xcel Energy - Ashland

Project Title: Template: SATW Printed: 07/11/2005 10:37

Sample: 374855 Trip Blank

Collected: 06/15/05

Analyzed: 06/17/05 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.29	0.97
Bromobenzene	ND	ug/L	1	0.10	0.37
Bromochloromethane	ND	ug/L	1	0.27	0.89
Bromodichloromethane	ND	ug/L	1	0.32	1.1
Bromoform	ND	ug/L	1	0.28	0.92
Bromomethane	ND	ug/L	1	0.39	1.3
n-Butylbenzene	ND	ug/L	1	0.31	1.0
sec-Butylbenzene	ND	ug/L	1	0.33	1.1
tert-Butylbenzene	ND	ug/L	1	0.31	1.0
Carbon Tetrachloride	ND	ug/L	1	0.30	0.98
Chlorobenzene	ND	ug/L	1	0.21	0.70
Chloroethane	ND	ug/L	1	1.7	5.7
Chloroform	ND	ug/L	1	0.30	0.99
Chloromethane	ND	ug/L	1	0.24	0.75
2-Chlorotoluene	ND	ug/L	1	0.39	1.3
4-Chlorotoluene	ND	ug/L	1	0.37	1.2
Dibromochloromethane	ND	ug/L	1	0.29	0.97
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.33	1.1
1,2-Dibromoethane	ND	ug/L	1	0.30	1.0
Dibromomethane	ND	ug/L	1	0.32	1.1
1,2-Dichlorobenzene	ND	ug/L	1	0.28	0.93
1,3-Dichlorobenzene	ND	ug/L	1	0.24	0.79
1,4-Dichlorobenzene	ND	ug/L	1	0.23	0.78
Dichlorodifluoromethane	ND	ug/L	1	0.18	0.63
1,1-Dichloroethane	ND	ug/L	1	0.30	0.99
1,2-Dichloroethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethene	ND	ug/L	1	0.41	1.4
cis-1,2-Dichloroethene	ND	ug/L	1	0.40	1.3
trans-1,2-Dichloroethene	ND	ug/L	1	0.35	1.2
1,2-Dichloropropane	ND	ug/L	1	0.35	1.2
1,3-Dichloropropane	ND	ug/L	1	0.34	1.1
2,2-Dichloropropane	ND	ug/L	1	0.44	1.5
1,1-Dichloropropene	ND	ug/L	1	0.32	1.1
cis-1,3-Dichloropropene	ND	ug/L	1	0.27	0.89
trans-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1
Ethylbenzene	ND	ug/L	1	0.26	0.87
Hexachlorobutadiene	ND	ug/L	1	0.41	1.4
Isopropylbenzene	ND	ug/L	1	0.36	1.2
p-Isopropyltoluene	ND	ug/L	1	0.30	1.0
Methylene chloride	ND	ug/L	1	0.43	1.4
Naphthalene	ND	ug/L	1	0.39	1.3
n-Propylbenzene	ND	ug/L	1	0.34	1.1
ortho-Xylene	ND	ug/L	1	0.27	0.89
Styrene	ND	ug/L	1	0.32	1.1
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.28	0.94
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.33	1.1
Tetrachloroethene	ND	ug/L	1	0.31	1.0
Toluene	ND	ug/L	1	0.34	1.1

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2000)

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Customer: URS Corporation (Milwaukee) NLS Project: 90359

Project Description: Xcel Energy - Ashland

Project Title: Template: SATW Printed: 07/11/2005 10:37

Sample: 374855 Trip Blank

Collected: 06/15/05

Analyzed: 06/17/05 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
1,2,3-Trichlorobenzene	ND	ug/L	1	0.36	1.2
1,2,4-Trichlorobenzene	ND	ug/L	1	0.37	1.2
1,1,1-Trichloroethane	ND	ug/L	1	0.27	0.88
1,1,2-Trichloroethane	ND	ug/L	1	0.42	1.4
Trichloroethene	ND	ug/L	1	0.25	0.82
Trichlorofluoromethane	ND	ug/L	1	0.38	1.3
1,2,3-Trichloropropane	ND	ug/L	1	0.44	1.5
1,2,4-Trimethylbenzene	ND	ug/L	1	0.31	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1	0.39	1.3
Vinyl chloride	ND	ug/L	1	0.11	0.38
meta,para-Xylene	ND	ug/L	1	0.62	2.1
MTBE	ND	ug/L	1	0.31	1.0
Isopropyl Ether	ND	ug/L	1	0.35	1.2
Dibromofluoromethane (SURR**)	108%				
Toluene-d8 (SURR**)	123%				
1-Bromo-4-Fluorobenzene (SURR**)	100%				

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: Polynuclear Aromatic Hydrocarbons by EPA 8270C SIM

Page 1 of 1

Customer: URS Corporation (Milwaukee) NLS Project: 90359

Project Description: Xcel Energy - Ashland

Project Title: Template: 8270PAHW Printed: 07/11/2005 10:37

Sample: 374854 Effluent Collected: 06/15/05 Analyzed: 06/25/05 -

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Acenaphthene	0.049	ug/L	1	0.015	0.049
Acenaphthylene	0.35	ug/L	1	0.012	0.042
Anthracene	[0.051]	ug/L	1	0.018	0.061
Benzo (a) anthracene	[0.026]	ug/L	1	0.018	0.061
Benzo (a) pyrene	[0.021]	ug/L	1	0.016	0.055
Benzo (b) fluoranthene	[0.018]	ug/L	1	0.018	0.059
Benzo (g,h,i) perylene	ND	ug/L	1	0.015	0.049
Benzo (k) fluoranthene	ND	ug/L	1	0.020	0.065
Chrysene	ND	ug/L	1	0.019	0.063
Dibenzo (a,h) anthracene	ND	ug/L	1	0.011	0.038
Fluoranthene	[0.030]	ug/L	1	0.023	0.076
Fluorene	0.25	ug/L	1	0.019	0.062
Indeno (1,2,3-cd) pyrene	ND	ug/L	1	0.013	0.043
Methyl-1-Naphthalene	0.73	ug/L	1	0.014	0.046
Methyl-2-Naphthalene	0.43	ug/L	1	0.014	0.048
Naphthalene	2.3	ug/L	1	0.012	0.039
Phenanthrene	0.26	ug/L	1	0.019	0.062
Pyrene	[0.032]	ug/L	1	0.020	0.067
Nitrobenzene-d5 (SURR**)	64%				
2-Fluorobiphenyl (SURR**)	66%				
Terphenyl-d14 (SURR**)	69%				

All laboratory control spike and laboratory control spike recoveries were within QC limits. Matrix spike recoveries for Naphthalene, 1-Methylnaphthalene, and Acenaphthylene could not be quantitated effectively due to sample matrix.

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL REPORT

Paul Sklar
URS CORPORATION
10200 Innovation Dr.
Suite 500
Milwaukee, WI 53226

06/29/2005

TestAmerica Job: 05.07858

Project Number: Xcel Energy-Ashland
Project: Xcel Energy-Ashland

Enclosed is the Analytical Reports for the following samples submitted to the Cedar Falls Division of TestAmerica Analytical Testing Corporation for analysis.

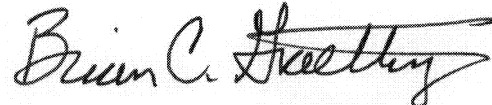
Sample Number	Sample Description	Date Taken	Date Received
871285	Air Stripper	06/15/2005	06/20/2005
871286	1st Stage Carbon	06/15/2005	06/20/2005
871287	Air Effluent	06/15/2005	06/20/2005

TestAmerica Analytical Testing Corporation AIHA Lab Accreditation Number 285

Laboratory Director - Michael K. McGee, CIH

TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific samples analyzed.

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Brian C. Graettinger
Operations Manager

ANALYTICAL REPORT

Paul Sklar
 URS CORPORATION
 10200 Innovation Dr.
 Suite 500
 Milwaukee, WI 53226

06/29/2005

Date Received: 06/20/2005

URS/XCEL ENERGY
 CC: DAVE TRAINOR NEWFIELDS CC: BEN NELSON URS-MILWAUKEE
 Job Number: 05.07858

	Result	Units	Result Flag	Date Taken	Date Analyzed	Analyst	Analysis Method	Quantitation Limit
871285 Air Stripper								
Air Volume	3.0	Liters		06/15/2005	06/29/2005	bcg		
Benzene (UST)	<0.020	mg		06/15/2005	06/28/2005	eee	NIOSH 1501	0.020
Benzene	<6.67	mg/m3		06/15/2005	06/29/2005	bcg	N1501	
Ethyl Benzene (UST)	<0.020	mg		06/15/2005	06/28/2005	eee	NIOSH 1501	0.020
Ethylbenzene	<6.67	mg/m3		06/15/2005	06/29/2005	bcg	N1501	
Hydrocarbons, Total (UST)	<0.030	mg		06/15/2005	06/28/2005	eee	NIOSH 1550	0.030
Hydrocarbons, Total	<10.0	mg/m3		06/15/2005	06/29/2005	bcg	N1550	
Toluene (UST)	<0.020	mg		06/15/2005	06/28/2005	eee	NIOSH 1501	0.020
Toluene	<6.67	mg/m3		06/15/2005	06/29/2005	bcg	N1501	
Xylenes, Total (UST)	<0.030	mg		06/15/2005	06/28/2005	eee	NIOSH 1501	0.030
Xylenes, Total	<10.0	mg/m3		06/15/2005	06/29/2005	bcg	N1501	
871286 1st Stage Carbon								
Air Volume	3.0	Liters		06/15/2005	06/29/2005	bcg		
Benzene (UST)	<0.020	mg		06/15/2005	06/28/2005	eee	NIOSH 1501	0.020
Benzene	<6.67	mg/m3		06/15/2005	06/29/2005	bcg	N1501	
Ethyl Benzene (UST)	<0.020	mg		06/15/2005	06/28/2005	eee	NIOSH 1501	0.020
Ethylbenzene	<6.67	mg/m3		06/15/2005	06/29/2005	bcg	N1501	
Hydrocarbons, Total (UST)	0.030	mg		06/15/2005	06/28/2005	eee	NIOSH 1550	0.030
Hydrocarbons, Total	10.0	mg/m3		06/15/2005	06/29/2005	bcg	N1550	
Toluene (UST)	<0.020	mg		06/15/2005	06/28/2005	eee	NIOSH 1501	0.020

TOTAL HYDROCARBONS QUANTIFIED AS: Gasoline

Results are not blank corrected.

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Results relate only to the items tested.

ANALYTICAL REPORT

Paul Sklar
URS CORPORATION
10200 Innovation Dr.
Suite 500
Milwaukee, WI 53226

06/29/2005

Date Received: 06/20/2005

URS/XCEL ENERGY
CC:DAVE TRAINOR NEWFIELDS CC: BEN NELSON URS-MILWAUKEE
Job Number: 05.07858

	Result	Units	Result Flag	Date Taken	Date Analyzed	Analyst	Analysis Method	Quantitation Limit
871286 1st Stage Carbon								
Toluene	<6.67	mg/m3		06/15/2005	06/29/2005	bcg	N1501	
Xylenes, Total (UST)	<0.030	mg		06/15/2005	06/28/2005	eee	NIOSH 1501	0.030
Xylenes, Total	<10.0	mg/m3		06/15/2005	06/29/2005	bcg	N1501	
871287 Air Effluent								
Air Volume	5.0	Liters		06/15/2005	06/29/2005	bcg		
Benzene (UST)	<0.020	mg		06/15/2005	06/28/2005	eee	NIOSH 1501	0.020
Benzene	<4.00	mg/m3		06/15/2005	06/29/2005	bcg	N1501	
Ethyl Benzene (UST)	<0.020	mg		06/15/2005	06/28/2005	eee	NIOSH 1501	0.020
Ethylbenzene	<4.00	mg/m3		06/15/2005	06/29/2005	bcg	N1501	
Hydrocarbons, Total (UST)	0.056	mg		06/15/2005	06/28/2005	eee	NIOSH 1550	0.030
Hydrocarbons, Total	11.2	mg/m3		06/15/2005	06/29/2005	bcg	N1550	
Toluene (UST)	<0.020	mg		06/15/2005	06/28/2005	eee	NIOSH 1501	0.020
Toluene	<4.00	mg/m3		06/15/2005	06/29/2005	bcg	N1501	
Xylenes, Total (UST)	<0.030	mg		06/15/2005	06/28/2005	eee	NIOSH 1501	0.030
Xylenes, Total	<6.00	mg/m3		06/15/2005	06/29/2005	bcg	N1501	

TOTAL HYDROCARBONS QUANTIFIED AS: Gasoline

Results are not blank corrected.

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Results relate only to the items tested.