ASHLAND/NSP LAKEFRONT SITE
FEBRUARY 15, 2004 PROGRESS REPORT (No. 3)
WDNR BRRTS #02-02-00013
CERCLA Docket No. V-W-04-C-764

This is the third 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 January 2004. It is intended to meet the requirements described in Task 8 of the Statement of Work appended to the AOC.

Field Activities Completed

Following drilling activities and groundwater sampling conducted in December 2003, no field activities took place at the site other than the continued maintenance on the coal tar removal system.

The coal tar removal system continued to operate since the previous monthly report. The system was shut down briefly twice due to high floor sump alarms and a stuck float switch on the transfer tank. Coleman Engineering cleaned these components and restarted the system on both occasions. Monthly air and water samples were collected from the system on January 20, 2004. The tar removal tank contained 232 gallons of free-product as of January 29, 2004. The most recent monitoring data for the system is attached to this report.

Reporting Activities Completed

Xcel Energy submitted the Technical Letter Report (TLR) to USEPA on December 12, 2003. The TLR formed the basis for the Technical Scoping Meeting held on January 8, 2004 at Region V headquarters in Chicago. A summary of the scoping meeting was presented in Progress Report No. 2, submitted to USEPA on January 15, 2004.

On January 14, 2004 Xcel Energy received comments on the draft QMP submitted November 2003. These comments were incorporated into the final QMP, submitted the week of February 9, 2004.

Xcel Energy received USEPA's summary of the January 8 Technical Scoping Meeting on January 19, 2004. This summary included detail of the issues discussed at the meeting, which were summarized in the previous monthly report (Progress Report No. 2). In accordance with the AOC, receipt of the summary on January 19, 2004 confirms that the draft Planning Documents for the RI/FS (Work Plan Revision 01, Quality Assurance Project Plan, Field Sampling Plan, and Project Management Plan) will be submitted within 30 days, on February 18, 2004.

In response to a request regarding electronic data deliverables in the EDMAN format, USEPA indicated in a January 29, 2004 email that laboratory analyses data that was not validated could be tabulated and submitted as "Draft-Unvalidated Data." The December groundwater data attached to this report is labeled as such. (The complete groundwater analyses set for December along with the January tar-removal system data is attached.) Following receipt of the data validator's report, this information will be resubmitted,

marked "Validated" and revised accordingly (as necessary). This procedure will be followed for future submittals.

Field Activities Planned

It is not anticipated that further RI field investigation activities will be initiated until the onset of spring weather conditions. USEPA conditionally approved the upper bluff/filled ravine and Copper Falls aquifer investigations described in the August 22, 2003 Revision 00 work plan during September, 2003. As described in earlier reports, four piezometers were installed during December 2003 in response to this approval. Remaining tasks are included in the Revision 01 draft work plan and associated documents that will be submitted to USEPA on February 18, 2004. Field activities will be continued following USEPA approval or conditional approval of the RI/FS Work Plan Revision 01.

Coleman Engineering will continue to monitor the tar removal system on a weekly basis for the month of February. No other field activities are planned during this time.

Reporting Activities Planned

As previously described, the aforementioned planning documents for the RI/FS will be submitted via electronic mail to USEPA and WDNR on February 18, 2004. Hard copies will follow via ground delivery.

Attachments:

Table 1 - December 2003 Groundwater Monitoring Results – VOCs
Table 2 - December 2003 Groundwater Monitoring Results – SVOCs
Table 3 – December 2003 Groundwater Monitoring Results – Inorganics
Table 4 - Remediation System Water Quality Monitoring Results
Table 5 – Remediation System Air Monitoring Results
Table 6 – Summary of Coal Tar and Groundwater Volumes Removed

Appendix A – December 2003 Laboratory Reports

Table 1
December 2003
Groundwater Monitoring Results - VOCs
Draft - Unvalidated Data
Northern States Power, Ashland, Wisconsin

Analyte	Units	MW-2BR	MW-2C	MW-4A	MW-4B	MW-7A	MW-8A	MW-9A	MW-9B	MW-9C	PAL	ES	MCL[1]
VOCs													
Benzene	µg/L	**2700**	**9.1**	**16000**	**86**	**3600**	**17000**	**14**	**2100**	**<20>**	0.5	5	5
sec-Butylbenzene	µg/L	<130	<1.0	<310	<5.0	<130	<310	<0.25	<50	<20	--	--	--
Ethylbenzene	µg/L	**720**	<0.82	**2100**	**<5.7>**	**420**	**<620>**	**1.2**	**140**	**<33>**	140	700	700
ortho-Xylene	µg/L	**990**	**<2.0>**	**1200**	**<11>**	**730**	**<290>**	**0.79**	**150**	**95**	--	--	--
Styrene	µg/L	**1800**	<0.69	**870**	**23**	**1700**	<220	**0.82**	**170**	**240**	10	100	100
Toluene	µg/L	**6900**	**11**	**7300**	**50**	**4600**	**1200**	**5.3**	**570**	**350**	200	1,000	1,000
1,2,4-Trimethylbenzene	µg/L	**<260>**	<0.96	**<440>**	**<7.8>**	**<380>**	<300	**<0.59>**	**<100>**	**<46>**	--	--	--
1,3,5-Trimethylbenzene	µg/L	<140	<1.1	<340	<5.4	<140	<340	<0.27	<54	<22	--	--	
Total Trimethylbenzene	µg/L	**<260>**	<0.96	**<440>**	**<7.8>**	**<380>**	<300	**<0.59>**	**<100>**	**<46>**	96	480	
meta, para-Xylene	µg/L	**1900**	**<3.5>**	**2400**	**<22>**	**1500**	<460	**1.7**	**300**	**190**	--	--	--
Total Xylenes	µg/L	**2890**	**<5.5>**	**3600**	**<33>**	**2230**	**<290>**	**2.49**	**450**	**285**	1,000	10,000	10,000
Total VOCs	µg/L	**15270**	**25.6**	**30310**	**205.5**	**12930**	**19110**	**24.4**	**3530**	**974.0**			

Analyte	Units	MW-9C Dup	MW-10A	MW-10A Dup	MW-13A	MW-13C	MW-13D	MW-15B	MW-18A	MW-18B	PAL	ES	MCL[1]
VOCs													
Benzene	µg/L	**<22>**	**330**	**340**	**42000**	<0.23	<0.23	**420**	**46000**	**<0.39>**	0.5	5	5
sec-Butylbenzene	µg/L	<20	<6.3	<6.3	<1000	<0.25	<0.25	<13	<1300	<0.25	--	--	--
Ethylbenzene	µg/L	**<34>**	**<7.2>**	**<6.9>**	**<880>**	<0.21	<0.21	**<16>**	**<1700>**	<0.21	140	700	700
ortho-Xylene	µg/L	**96**	**<14>**	**<15>**	**<1400>**	<0.18	<0.18	**40**	**<1100>**	<0.18	--	--	--
Styrene	µg/L	**240**	**38**	**39**	**3600**	<0.17	<0.17	**110**	**<1600>**	<0.17	10	100	100
Toluene	µg/L	**350**	**180**	**180**	**21000**	<0.23	<0.23	**280**	**16000**	**<0.30>**	200	1,000	1,000
1,2,4-Trimethylbenzene	µg/L	**<50>**	<6.0	<6.0	<960	<0.24	<0.24	**<28>**	<1200	<0.24	--	--	--
1,3,5-Trimethylbenzene	µg/L	<22	<6.8	<6.8	<1100	<0.27	<0.27	<14	<1400	<0.27	--	--	
Total Trimethylbenzene	µg/L	**<50>**	<6.0	<6.0	<960	<0.24	<0.24	**<28>**	<1200	<0.24	96	480	
meta, para-Xylene	µg/L	**200**	**<26>**	**<26>**	**<2700>**	<0.37	<0.37	**82**	**<2200>**	<0.37	--	--	--
Total Xylenes	µg/L	**296**	**40**	**41**	**4100**	<0.18	<0.18	**122**	**3300**	<0.18	1,000	10,000	10,000
Total VOCs	µg/L	**992.0**	**595.2**	**606.9**	**71,580**	**0**	**0**	**976.0**	**68,600**	**0.69**			

< - Below detection limit
<> Between Limit of Detection and Limit of Quantification
Bold face indicates positive detections; concentrations exceeding the ES have been shaded
[1] MCL is USEPA's Maximum Contaminant Level for drinking water.

Table 1
December 2003
Groundwater Monitoring Results - VOCs
Draft - Unvalidated Data
Northern States Power, Ashland, Wisconsin

Analyte	Units	MW-20A	MW-21B	MW-22A	MW-22B	AW-1	AW-2	PAL	ES	MCL[1]
VOCs										
Benzene	µg/L	<0.23	**470**	**40000**	**<0.34>**	<0.23	<0.23	0.5	5	5
sec-Butylbenzene	µg/L	<0.25	<100	<1000	<0.25	<0.25	<0.25	--	--	--
Ethylbenzene	µg/L	<0.21	**<150>**	<820	**<0.23>**	<0.21	<0.21	140	700	700
ortho-Xylene	µg/L	<0.18	**380**	**<1500>**	**<0.35>**	<0.18	<0.18	--	--	--
Styrene	µg/L	<0.17	**770**	**4000**	**<0.56>**	<0.17	<0.17	10	100	100
Toluene	µg/L	<0.23	**1400**	**19000**	**<0.61>**	<0.23	<0.23	200	1,000	1,000
1,2,4-Trimethylbenzene	µg/L	<0.24	**<310>**	<960	**0.87**	<0.24	<0.24	--	--	--
1,3,5-Trimethylbenzene	µg/L	<0.27	<110	<1100	<0.27	<0.27	<0.27	--	--	
Total Trimethylbenzene	µg/L	<0.24	**<310>**	<960	**0.87**	<0.24	<0.24	96	480	
meta, para-Xylene	µg/L	<0.37	**790**	**<2900>**	**<0.57>**	<0.37	<0.37	--	--	--
Total Xylenes	µg/L	<0.18	**1170**	**4400**	**0.92**	<0.18	<0.18	1,000	10,000	10,000
Total VOCs	µg/L	**0**	**4,270.0**	**67,400**	**3.5**	**0**	**0**			

< - Below detection limit

<> Between Limit of Detection and Limit of Quantification

Bold face indicates positive detections; concentrations exceeding the ES have been shaded

[1] MCL is USEPA's Maximum Contaminant Level for drinking water.

Table 2
December 2003
Groundwater Monitoring Results - SVOCs
Draft - Unvalidated Data
Northern States Power, Ashland, Wisconsin

Analyte	Units	MW-2BR	MW-2C	MW-4A	MW-4B	MW-7A	MW-8A	MW-9A	MW-9B	PAL	ES	MCL[1]
SVOCs												
Acenaphthene	µg/L	<67	<0.67	<130	<1.3	<130	<17	<0.67	**<32>**	--	--	0.2
Acenaphthylene	µg/L	<130	<1.3	**<350>**	**<6.2>**	**<310>**	<32	<1.3	**<160>**	--	--	0.2
Anthracene	µg/L	<41	<0.41	<82	**<0.98>**	<82	<10	<0.41	**<41>**	600	3,000	0.2
Benzo(a)anthracene	µg/L	<43	<0.43	<86	<0.86	<86	<11	<0.43	**<22>**	--	--	0.2
Benzo(a)pyrene	µg/L	<42	<0.42	<85	<0.85	<85	<11	<0.42	<17	0.02	0.2	0.2
Benzo(b)fluoranthene	µg/L	<56	<0.56	<110	<1.1	<110	<14	<0.56	<23	0.02	0.2	0.2
Benzo(g,h,i)perylene	µg/L	<91	<0.91	<180	<1.8	<180	<23	<0.91	<36	--	--	0.2
Benzo(k)fluoranthene	µg/L	<90	<0.90	<180	<1.8	<180	<23	<0.90	<36	--	--	0.2
Chrysene	µg/L	<120	<1.2	<230	<2.3	<230	<29	<1.2	<46	0.02	0.2	0.2
Dibenzo(a,h,)anthracene	µg/L	<56	<0.56	<110	<1.1	<110	<14	<0.56	<22	20	100	0.2
Dibenzofuran	µg/L	<130	<1.3	<260	<2.6	<260	<33	<1.3	<53	--	--	0.2
Fluoranthene	µg/L	<42	<0.42	<83	**<1.1>**	<83	<10	<0.42	**<41>**	80	400	0.2
Fluorene	µg/L	<61	<0.61	<120	**<1.9>**	<120	<15	<0.61	**<72>**	80	400	0.2
Indeno(1,2,3-cd) Pyrene	µg/L	<54	<0.54	<110	<1.1	<110	<14	<0.54	<22	--	--	0.2
1-Methylnaphthalene	µg/L	**<230>**	**<2.1>**	**1100**	**15**	**770**	<19	**<1.7>**	**430**	--	--	0.2
2-Methylnaphthalene	µg/L	**310**	**3.0**	**1700**	**18**	**1200**	<19	**2.5**	**590**	--	--	0.2
2-Methylphenol	µg/L	<1.2	<1.2	**<390>**	<2.4	<240	**760**	<1.2	<48	--	--	0.2
3 & 4-Methylphenol	µg/L	<1.3	<1.3	**<630>**	<2.5	<250	**810**	<1.3	<51	--	--	0.2
Naphthalene	µg/L	**2600**	**7.7**	**8300**	**68**	**4800**	**650**	**9.4**	**1,400**	8	40	0.2
Phenanthrene	µg/L	<41	**<0.54>**	<82	**3.7**	<82	<10	<0.41	**140**	--	--	0.2
Phenol	µg/L	<51	<0.51	**<230>**	<1.0	<100	**160**	<0.51	<20	--	--	0.2
Pyrene	µg/L	<98	<0.98	<200	<2.0	<200	<24	<0.98	**<54>**	50	250	0.2
Benzo (e) pyrene	µg/L	<500	<5.0	<1000	<10	<1000	<130	<5.0	<200	--	--	--
Total SVOCs	µg/L	**3,140**	**13.3**	**12,700**	**114.9**	**7,080**	**2,380**	**13.6**	**2,982**			

< - Less Than Limit of Detection
<> Between Limit of Detection and Limit of Quantification
Bold face indicates positive detections; concentrations exceeding the ES have been shaded
(1) MCL is USEPA's Maximum Contaminant Level for drinking water. 0.2 ug/L was listed for Benzo(a)Pyrene but encompasses all SVOCs.

Table 2
December 2003
Groundwater Monitoring Results - SVOCs
Draft - Unvalidated Data
Northern States Power, Ashland, Wisconsin

Analyte	Units	MW-9C	MW-9C Dup	MW-10A	MW-10A Dup	MW-13A	MW-13C	MW-13D	MW-15B	PAL	ES	MCL[1]
SVOCs												
Acenaphthene	µg/L	<13	<13	<1.3	<1.3	<130	<0.67	<0.67	**<3.3>**	--	--	0.2
Acenaphthylene	µg/L	**<27>**	<26	**<4.1>**	**<4.7>**	**<350>**	<1.3	<1.3	**38**	--	--	0.2
Anthracene	µg/L	<8.2	<8.2	<0.82	<0.82	<82	<0.41	<0.41	**<4.6>**	600	3,000	0.2
Benzo(a)anthracene	µg/L	<8.6	<8.6	<0.86	<0.86	<86	<0.43	<0.43	<1.7	--	--	0.2
Benzo(a)pyrene	µg/L	<8.5	<8.5	<0.85	<0.85	<85	<0.42	<0.42	<1.7	0.02	0.2	0.2
Benzo(b)fluoranthene	µg/L	<11	<11	<1.1	<1.1	<110	<0.56	<0.56	<2.3	0.02	0.2	0.2
Benzo(g,h,i)perylene	µg/L	<18	<18	<1.8	<1.8	<180	<0.91	<0.91	<3.6	--	--	0.2
Benzo(k)fluoranthene	µg/L	<18	<18	<1.8	<1.8	<180	<0.90	<0.90	<3.6	--	--	0.2
Chrysene	µg/L	<23	<23	<2.3	<2.3	<230	<1.2	<1.2	<4.6	0.02	0.2	0.2
Dibenzo(a,h,)anthracene	µg/L	<11	<11	<1.1	<1.1	<110	<0.56	<0.56	<2.2	20	100	0.2
Dibenzofuran	µg/L	<26	<26	<2.6	<2.6	<260	<1.3	<1.3	<5.3	--	--	0.2
Fluoranthene	µg/L	<8.3	<8.3	<0.83	<0.83	<83	<0.42	<0.42	**<2.5>**	80	400	0.2
Fluorene	µg/L	<12	<12	<1.2	<1.2>	<120	<0.61	<0.61	**13**	80	400	0.2
Indeno(1,2,3-cd) Pyrene	µg/L	<11	<11	<1.1	<1.1	<110	<0.54	<0.54	<2.2	--	--	0.2
1-Methylnaphthalene	µg/L	**72**	**67**	**9.0**	**10.0**	**920**	**<2.4>**	<0.76	**80**	--	--	0.2
2-Methylnaphthalene	µg/L	**110**	**98**	**12**	**15**	**1400**	**<1.3>**	<0.76	**71**	--	--	0.2
2-Methylphenol	µg/L	<24	<24	**<3.7>**	**<6.5>**	**<700>**	<1.2	<1.2	<4.8	--	--	0.2
3 & 4-Methylphenol	µg/L	<25	<25	**<3.7>**	**<7.5>**	**880**	<1.3	<1.3	**<6.9>**	--	--	0.2
Naphthalene	µg/L	**560**	**530**	**58**	**66**	**7000**	**<2.2>**	<0.73	**93**	8	40	0.2
Phenanthrene	µg/L	<8.2	<8.2	**<1.8>**	**<2.1>**	<82	**<1.0>**	<0.41	**20**	--	--	0.2
Phenol	µg/L	<10	<10	<1.0	<1.0	**<160>**	<0.51	<0.51	<2.0	--	--	0.2
Pyrene	µg/L	<20	<20	<2.0	<2.0	<200	<0.98	<0.98	<3.9	50	250	0.2
Benzo (e) pyrene	µg/L	<100	<100	<10	<10	<1000	<5.0	<5.0	<20	--	--	--
Total SVOCs	µg/L	**769.0**	**695.0**	**92.3**	**111.8**	**11,410**	**6.9**	**0**	**332.3**			

< - Less Than Limit of Detection
<> Between Limit of Detection and Limit of Quantification
Bold face indicates positive detections; concentrations exceeding the ES have been shaded
(1) MCL is USEPA's Maximum Contaminant Level for drinking water. 0.2 ug/L was listed for Benzo(a)Pyrene but encompasses all SVOCs.

Table 2
December 2003
Groundwater Monitoring Results - SVOCs
Draft - Unvalidated Data
Northern States Power, Ashland, Wisconsin

Analyte	Units	MW-18A	MW-18B	MW-20A	MW-21B	MW-22A	MW-22B	AW-1	AW-2	PAL	ES	MCL[1]
SVOCs												
Acenaphthene	µg/L	<130	<0.67	<0.67	<67	<270	**<1.2>**	<0.67	<0.67	--	--	0.2
Acenaphthylene	µg/L	<260	<1.3	<1.3	**<250>**	**<630>**	**<3.1>**	<1.3	<1.3	--	--	0.2
Anthracene	µg/L	<82	<0.41	<0.41	<41	<160	**2.4**	<0.41	<0.41	600	3,000	0.2
Benzo(a)anthracene	µg/L	<86	<0.43	<0.43	<43	<170	<0.43	<0.43	<0.43	--	--	0.2
Benzo(a)pyrene	µg/L	<85	<0.42	<0.42	<42	<170	<0.42	<0.42	<0.42	0.02	0.2	0.2
Benzo(b)fluoranthene	µg/L	<110	<0.56	<0.56	<56	<230	<0.56	<0.56	<0.56	0.02	0.2	0.2
Benzo(g,h,i)perylene	µg/L	<180	<0.91	<0.91	<91	<360	<0.91	<0.91	<0.91	--	--	0.2
Benzo(k)fluoranthene	µg/L	<180	<0.90	<0.90	<90	<360	<0.90	<0.90	<0.90	--	--	0.2
Chrysene	µg/L	<230	<1.2	<1.2	<120	<460	<1.2	<1.2	<1.2	0.02	0.2	0.2
Dibenzo(a,h,)anthracene	µg/L	<110	<0.56	<0.56	<56	<220	<0.56	<0.56	<0.56	20	100	0.2
Dibenzofuran	µg/L	<260	<1.3	<1.3	<130	<530	<1.3	<1.3	<1.3	--	--	0.2
Fluoranthene	µg/L	<83	<0.42	<0.42	<42	<170	**1.8**	<0.42	<0.42	80	400	0.2
Fluorene	µg/L	<120	<0.61	<0.61	<61	<240	**3.4**	<0.61	<0.61	80	400	0.2
Indeno(1,2,3-cd) Pyrene	µg/L	<110	<0.54	<0.54	<54	<220	<0.54	<0.54	<0.54	--	--	0.2
1-Methylnaphthalene	µg/L	**<450>**	<0.76	<0.76	**640**	**1,700**	**11**	<0.76	<0.76	--	--	0.2
2-Methylnaphthalene	µg/L	**680**	<0.76	<0.76	**1000**	**2,500**	**15**	<0.76	<0.76	--	--	0.2
2-Methylphenol	µg/L	**3000**	<1.2	<1.2	<1.2	**<1100>**	<1.2	<1.2	<1.2	--	--	0.2
3 & 4-Methylphenol	µg/L	**3400**	<1.3	<1.3	<1.3	**<1600>**	<1.3	<1.3	<1.3	--	--	0.2
Naphthalene	µg/L	**5000**	<0.73	<0.73	**3200**	**11,000**	**11**	<0.73	<0.73	8	40	0.2
Phenanthrene	µg/L	<82	<0.41	<0.41	**<47>**	**<250>**	**8.7**	<0.41	<0.41	--	--	0.2
Phenol	µg/L	**520**	<0.51	<0.51	<51	**<640>**	<0.51	<0.51	<0.51	--	--	0.2
Pyrene	µg/L	<200	<0.98	<0.98	<98	<390	**<2.1>**	<0.98	<0.98	50	250	0.2
Benzo (e) pyrene	µg/L	<1000	<5.0	<5.0	<500	<2000	<5.0	<5.0	<5.0	--	--	--
Total SVOCs	µg/L	**13,050**	**0**	**0**	**5,137**	**19,420**	**59.7**	**0**	**0**			

< - Less Than Limit of Detection
<> Between Limit of Detection and Limit of Quantification
Bold face indicates positive detections; concentrations exceeding the ES have been shaded
(1) MCL is USEPA's Maximum Contaminant Level for drinking water. 0.2 ug/L was listed for Benzo(a)Pyrene but encompasses all SVOCs.

Table 3
December 2003
Groundwater Monitoring Results - Inorganics
Draft - Unvalidated Data
Northern States Power, Ashland, Wisconsin

Analyte	Units	MW-2BR	MW-2C	MW-4A	MW-4B	MW-7A	MW-8A	MW-9A	MW-9B	PAL	ES	MCL[1]
Inorganics												
Aluminum, total	µg/L	**140**	**1100**	**280**	**1600**	**680**	**5100**	**100**	**85**	--	--	50
Aluminum, dissolved	µg/L	<7.6	**20**	<7.6	<7.6	<7.6	**7.6**	<7.6	**<13>**	--	--	--
Antimony, dissolved	µg/L	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	--	--	--
Antimony, total	µg/L	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	1.2	6	6
Arsenic, dissolved	µg/L	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	--	--	--
Arsenic, total	µg/L	<2.6	**<5.7>**	**<7.4>**	<2.6	**<2.6>**	**<4.8>**	**<4.3>**	**<5.6>**	5	50	10
Barium, total	µg/L	**86**	**140**	**890**	**110**	**200**	**240**	**59**	**83**	400	2000	2000
Barium, dissolved	µg/L	**84**	**110**	**970**	**110**	**190**	**190**	**59**	**89**	--	--	--
Beryllium, total	µg/L	<0.17	**0.66**	<0.17	<0.17	<0.17	**<0.29>**	<0.17	<0.17	0.4	4	4
Beryllium, dissolved	µg/L	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	--	--	--
Cadmium, total	µg/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.5	5	5
Cadmium, dissolved	µg/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	--	--	--
Calcium, total	µg/L	**22000**	**31000**	**130000**	**59000**	**30000**	**30000**	**21000**	**29000**	--	--	--
Calcium, dissolved	µg/L	**23000**	**34000**	**140000**	**60000**	**30000**	**28000**	**21000**	**39000**	--	--	--
Chromium, hexavalent	µg/L	**3.6**	<3.6	**3.8**	<3.6	<3.6	<3.6	<3.6	<3.6	--	--	--
Chromium, trivalent	µg/L	<3.6	**6.1**	<3.6	<3.6	<3.6	**9.2**	<3.6	<3.6	--	--	--
Chromium, total	µg/L	<0.64	**6.1**	**<1.1>**	**2.3**	**<0.82>**	**9.2**	<0.64	<0.64	10	100	100
Chromium, dissolved	µg/L	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	--	--	--
Cobalt, total	µg/L	<0.71	**<1.5>**	**3.3**	**<1.6>**	**<0.71**	**<1.9>**	<0.71	<0.71	8	40	--
Cobalt, dissolved	µg/L	<0.71	<0.71	**3.5**	**<0.83>**	**<0.71**	<0.71	<0.71	<0.71	--	--	--
Copper, total	µg/L	**<2.1>**	**12**	**10**	**6.5**	**<1.4>**	**25**	<1.3	<1.3	130	1300	1300
Copper, dissolved	µg/L	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	**<1.4>**	--	--	--
Cyanide, total	µg/L	**<14>**	<5	**23**	<5.0	**5.0**	**8.0**	<5.0	**<13>**	40	200	200
Iron, total	µg/L	**320**	**5800**	**19000**	**1100**	**560**	**6100**	**<93>**	**780**	150	300	--
Iron, dissolved	µg/L	**220**	<29	**21000**	**<70>**	<29	**290**	**<30>**	**810**	--	--	--
Lead, total	µg/L	**<1.6>**	**11**	**<1.9>**	**3.5**	**<1.4>**	**6.2**	<1.0	<1.0	1.5	15	15
Lead, dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--
Magnesium, total	µg/L	**8900**	**12000**	**65000**	**19000**	**1200**	**1400**	**6500**	**7200**	--	--	--
Magnesium, dissolved	µg/L	**9200**	**12000**	**64000**	**19000**	**1100**	**1200**	**6700**	**7500**	--	--	--
Manganese, total	µg/L	**120**	**170**	**2200**	**500**	**50**	**370**	**57**	**220**	25	50	50
Manganese, dissolved	µg/L	**120**	**130**	**2400**	**500**	**40**	**260**	**56**	**230**	--	--	--
Mercury, dissolved	µg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	--	--	--
Mercury, total	µg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.2	2	2
Nickel, total	µg/L	<0.61	7	**2.6**	**3.1**	**<0.75>**	**9.5**	<0.61	<0.61	20	100	--
Nickel, dissolved	µg/L	<0.71>	<0.61	**<1.9>**	**<1.4>**	<0.61	**<1.5>**	**<0.71>**	**<0.89>**	--	--	--
Potassium, dissolved	µg/L	**5000**	**6200**	**24000**	**2900**	**3900**	**6200**	**2800**	**3700**	--	--	--
Potassium, total	µg/L	**49000**	**6600**	**22000**	**3200**	**3800**	**5800**	**2600**	**3800**	--	--	--
Selenium, dissolved	µg/L	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	--	--	--
Selenium, total	µg/L	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	10	50	50
Silver, total	µg/L	<0.77	<0.77	<0.77	<0.77	<0.77	<0.77	<0.77	<0.77	10	50	100
Silver, dissolved	µg/L	<0.77	<0.77	<0.77	<0.77	<0.77	<0.77	<0.77	<0.77	--	--	--
Sodium, dissolved	µg/L	**1900**	**37000**	**68000**	**27000**	**19000**	**33000**	**15000**	**22000**	--	--	--
Sodium, total	µg/L	**1900**	**33000**	**68000**	**26000**	**19000**	**32000**	**15000**	**21000**	--	--	--
Thallium, dissolved	µg/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	--	--	--
Thallium, total	µg/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	0.4	2	2
Vanadium, total	µg/L	**<0.75>**	**9.3**	**2**	**3.8**	**<1.5>**	**14**	<0.58	<0.58	6	30	--
Vanadium, dissolved	µg/L	<0.58	**<1.1>**	**<1.3>**	**<1.3>**	<0.58	**2.6**	<0.58	<0.58	--	--	--
Zinc, total	µg/L	**<6.9>**	**37**	**22**	**55**	**<9.5>**	**54**	**<5.3>**	<5.0	2500	5000	5000
Zinc, dissolved	µg/L	<5.0	<5.0	<5.0	**31**	<5.0	**<5.1>**	<5.0	<5.0	--	--	--

< - Less Than Limit of Detection
<> Between Limit of Detection and Limit of Quantification
Bold face indicates positive detections; concentrations exceeding the ES have been shaded
[1] MCL is USEPA's Maximum Contaminant Level for drinking water.

Table 3
December 2003
Groundwater Monitoring Results - Inorganics
Draft - Unvalidated Data
Northern States Power, Ashland, Wisconsin

Analyte	Units	MW-9C	MW-9C Du	MW-10A	MW-10A Du	MW-13A	MW-13C	MW-13D	MW-15B	PAL	ES	MCL[1]
Inorganics												
Aluminum, total	µg/L	**31**	**26**	**64**	**55**	**38**	**20**	**13**	**170**	--	--	50
Aluminum, dissolved	µg/L	**<10>**	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<17>	--	--	--
Antimony, dissolved	µg/L	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	--	--	--
Antimony, total	µg/L	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	1.2	6	6
Arsenic, dissolved	µg/L	<2.6	<2.6	**<3.9>**	**<2.8>**	**<2.9>**	<2.6	<2.6	<2.6	--	--	--
Arsenic, total	µg/L	**<4.0>**	**<2.7>**	**<5.8>**	**<4.7>**	**<4.9>**	**<3.5>**	<2.6	<2.6	5	50	10
Barium, total	µg/L	**52**	**52**	**180**	**190**	**150**	**84**	**75**	**75**	400	2000	2000
Barium, dissolved	µg/L	**52**	**53**	**190**	**180**	**140**	**83**	**75**	**75**	--	--	--
Beryllium, total	µg/L	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.4	4	4
Beryllium, dissolved	µg/L	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	--	--	--
Cadmium, total	µg/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.5	5	5
Cadmium, dissolved	µg/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	--	--	--
Calcium, total	µg/L	**24000**	**23000**	**100000**	**110000**	**120000**	**21000**	**25000**	**25000**	--	--	--
Calcium, dissolved	µg/L	**24000**	**24000**	**110000**	**110000**	**110000**	**21000**	**25000**	**25000**	--	--	--
Chromium, hexavalent	µg/L	<3.6	<3.6	**3.6**	**3.6**	<3.6	<3.6	<3.6	<3.6	--	--	--
Chromium, trivalent	µg/L	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	--	--	--
Chromium, total	µg/L	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	10	100	100
Chromium, dissolved	µg/L	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	--	--	--
Cobalt, total	µg/L	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	8	40	--
Cobalt, dissolved	µg/L	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	--	--	--
Copper, total	µg/L	<1.3	**6.8**	**<1.3**	**<2.1>**	<1.3	<1.3	<1.3	<1.3	130	1300	1300
Copper, dissolved	µg/L	<1.3	<1.3	<1.3	**<1.5>**	<1.3	**7.4**	<5.0	<5.0	--	--	--
Cyanide, total	µg/L	<5.0	<5.0	<5.0	<5.0	**<5.0>**	<5.0	**39**	**39**	40	200	200
Iron, total	µg/L	<29	<29	**110**	**120**	**1800**	**34**	**34**	**34**	150	300	--
Iron, dissolved	µg/L	**<50>**	<29	<29	<29	**1700**	<29	<29	<29	--	--	--
Lead, total	µg/L	<1.0	<1.0	<1.0	<1.0	**<1.6>**	<1.0	<1.0	<1.0	1.5	15	15
Lead, dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--
Magnesium, total	µg/L	**6800**	**6800**	**55000**	**58000**	**70000**	**6600**	**7500**	**7500**	--	--	--
Magnesium, dissolved	µg/L	**6900**	**7000**	**59000**	**58000**	**67000**	**6600**	**7700**	**7700**	--	--	--
Manganese, total	µg/L	**60**	**60**	**170**	**180**	**350**	**48**	**80**	**80**	25	50	50
Manganese, dissolved	µg/L	**59**	**60**	**170**	**170**	**340**	**48**	**80**	**80**	--	--	--
Mercury, dissolved	µg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	--	--	--
Mercury, total	µg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.2	2	2
Nickel, total	µg/L	<0.61	<0.61	<0.61	<0.61	**<0.66>**	<0.61	<0.61	<0.61	20	100	--
Nickel, dissolved	µg/L	<0.61	**<0.62>**	**<0.68>**	<0.61	**<0.80>**	<0.61	<0.61	<0.61	--	--	--
Potassium, dissolved	µg/L	**3000**	**2900**	**7500**	**7400**	**8200**	**2800**	**3700**	**3700**	--	--	--
Potassium, total	µg/L	**2900**	**3000**	**7200**	**7100**	**8100**	**2800**	**3700**	**3700**	--	--	--
Selenium, dissolved	µg/L	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	--	--	--
Selenium, total	µg/L	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	10	50	50
Silver, total	µg/L	<0.77	<0.77	<0.77	<0.77	<0.77	<0.77	<0.77	<0.77	10	50	100
Silver, dissolved	µg/L	<0.77	<0.77	<0.77	<0.77	<0.77	<0.77	<0.77	<0.77	--	--	--
Sodium, dissolved	µg/L	**1700**	**1700**	**29000**	**30000**	**38000**	**15000**	**22000**	**22000**	--	--	--
Sodium, total	µg/L	**1600**	**1600**	**31000**	**30000**	**38000**	**15000**	**22000**	**22000**	--	--	--
Thallium, dissolved	µg/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	--	--	--
Thallium, total	µg/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	0.4	2	2
Vanadium, total	µg/L	<0.58	<0.58	**<0.69>**	**<0.69>**	<0.58	<0.58	<0.58	<0.58	6	30	--
Vanadium, dissolved	µg/L	<0.58	<0.58	<0.58	<0.58	<0.58	<0.58	<0.58	<0.58	--	--	--
Zinc, total	µg/L	<5.0	**<6.7>**	**10**	**11**	<5.0	<5.0	<5.0	<5.0	2500	5000	5000
Zinc, dissolved	µg/L	<5.0	<5.0	**<9.9>**	**10**	<5.0	**<8.1>**	<5.0	<5.0	--	--	--

< - Less Than Limit of Detection
<> Between Limit of Detection and Limit of Quantification
Bold face indicates positive detections; concentrations exceeding the ES have been shaded
[1] MCL is USEPA's Maximum Contaminant Level for drinking water.

Table 3
December 2003
Groundwater Monitoring Results - Inorganics
Draft - Unvalidated Data
Northern States Power, Ashland, Wisconsin

Analyte	Units	MW-18A	MW-18B	MW-20A	MW-21B[2]	MW-22A	MW-22B	AW-1	AW-2	PAL	ES	MCL[1]
Inorganics												
Aluminum, total	µg/L	**1000**	**880**	**6500**	**590**	**7500**	**39**	<7.6	<7.6	--	--	50
Aluminum, dissolved	µg/L	<7.6	**<24>**	<76	--	<76	<7.6	<7.6	<7.6	--	--	--
Antimony, dissolved	µg/L	<3.2	<3.2	<3.2	--	<3.2	<3.2	<3.2	<3.2	--	--	--
Antimony, total	µg/L	<3.2	<3.2	<3.2	<0.26	<3.2	<3.2	<3.2	<3.2	1.2	6	6
Arsenic, dissolved	µg/L	<2.6	<2.6	<2.6	--	**<2.9>**	**<3.3>**	<2.6	<2.6	--	--	--
Arsenic, total	µg/L	**<6.1>**	**<2.9>**	**<2.6**	<0.21	**<8.5>**	**<8.0>**	**<5.2>**	**<3.4>**	5	50	10
Barium, total	µg/L	**210**	**73**	**280**	**4.9**	**1000**	**130**	**71**	**77**	400	2000	2000
Barium, dissolved	µg/L	**190**	**61**	**220**	--	**920**	**130**	**71**	**75**	--	--	--
Beryllium, total	µg/L	<0.17	<0.17	**<0.33>**	**0.041**	<0.34	<0.17	<0.17	<0.17	0.4	4	4
Beryllium, dissolved	µg/L	<0.17	<0.17	<0.17	--	<0.17	<0.17	<0.17	<0.17	--	--	--
Cadmium, total	µg/L	<0.21	<0.21	<0.21	<0.038	<0.21	<0.21	<0.21	<0.21	0.5	5	5
Cadmium, dissolved	µg/L	<0.21	<0.21	<0.21	--	<0.21	<0.21	<0.21	<0.21	--	--	--
Calcium, total	µg/L	**62000**	**19000**	**130000**	**610**	**120000**	**100000**	**21000**	**20000**	--	--	--
Calcium, dissolved	µg/L	**62000**	**19000**	**120000**	--	**110000**	**100000**	**22000**	**20000**	--	--	--
Chromium, hexavalent	µg/L	<3.6	<3.6	<3.6	--	**7.4**	**5.0**	<3.6	<3.6	--	--	--
Chromium, trivalent	µg/L	<3.6	<3.6	**11**	--	**6.3**	<3.6	<3.6	<3.6	--	--	--
Chromium, total	µg/L	**<1.8>**	**<2.2>**	**11**	**0.95**	**14**	<0.64	<0.64	<0.64	10	100	100
Chromium, dissolved	µg/L	<0.64	<0.64	<0.64	--	<0.64	<0.64	<0.64	<0.64	--	--	--
Cobalt, total	µg/L	<0.71	<0.71	**8.2**	**0.39**	**6.4**	<0.71	<0.71	<0.71	8	40	--
Cobalt, dissolved	µg/L	<0.71	<0.71	**<1.1>**	--	**2.6**	<0.71	<0.71	<0.71	--	--	--
Copper, total	µg/L	**14**	**9.2**	**20**	**1.2**	**28**	<1.3	<1.3	<1.3	130	1300	1300
Copper, dissolved	µg/L	**<2.8>**	<1.3	**<3.2>**	--	**<1.8>**	<1.3	<1.3	<1.3	--	--	--
Cyanide, total	µg/L	**<12>**	<5.0	<5.0	<0.045	**51**	<5.0	<5.0	<5.0	40	200	200
Iron, total	µg/L	**980**	**910**	**5600**	**940**	**8300**	**380**	<29	<29	150	300	--
Iron, dissolved	µg/L	**<53>**	**35**	<29	--	**1600**	**350**	<29	<29	--	--	--
Lead, total	µg/L	**4.3**	**4.8**	**4.4**	<0.70	**5.1**	<1.0	<1.0	<1.0	1.5	15	15
Lead, dissolved	µg/L	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	--	--	--
Magnesium, total	µg/L	**29000**	**7300**	**80000**	**430**	**71000**	**69000**	**6800**	**6600**	--	--	--
Magnesium, dissolved	µg/L	**28000**	**7200**	**80000**	--	**66000**	**67000**	**6800**	**6400**	--	--	--
Manganese, total	µg/L	**250**	**87**	**410**	**13**	**1600**	**220**	**29**	**39**	25	50	50
Manganese, dissolved	µg/L	**230**	**59**	**140**	--	**1300**	**220**	**30**	**39**	--	--	--
Mercury, dissolved	µg/L	<0.025	<0.025	<0.025	--	<0.025	<0.025	<0.025	<0.025	--	--	--
Mercury, total	µg/L	<0.025	<0.025	<0.025	<0.0040	<0.025	<0.025	<0.025	<0.025	0.2	2	2
Nickel, total	µg/L	**2.5**	**<2.0>**	**11**	**0.93**	**12**	**<1.4>**	<0.61	<0.61	20	100	--
Nickel, dissolved	µg/L	**<0.76>**	<0.61	**2.4**	--	**3.5**	**<1.5>**	<0.61	<0.61	--	--	--
Potassium, dissolved	µg/L	**6700**	**3800**	**7900**	--	**14000**	**7500**	**3400**	**2700**	--	--	--
Potassium, total	µg/L	**6600**	**4000**	**9800**	**110**	**16000**	**7400**	**3100**	**2700**	--	--	--
Selenium, dissolved	µg/L	<2.7	<2.7	<2.7	--	<2.7	<2.7	<2.7	<2.7	--	--	--
Selenium, total	µg/L	<2.7	<2.7	<2.7	<0.22	<2.7	<2.7	<2.7	<2.7	10	50	50
Silver, total	µg/L	<0.77	<0.77	<0.77	<0.036	<0.77	<0.77	<0.77	<0.77	10	50	100
Silver, dissolved	µg/L	<0.77	<0.77	<0.77	--	<0.77	<0.77	<0.77	<0.77	--	--	--
Sodium, dissolved	µg/L	**35000**	**15000**	**45000**	--	**43000**	**34000**	**1700**	**1400**	--	--	--
Sodium, total	µg/L	**32000**	**16000**	**45000**	**140**	**43000**	**34000**	**1700**	**1400**	--	--	--
Thallium, dissolved	µg/L	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<2.5	--	--	--
Thallium, total	µg/L	<2.5	<2.5	<2.5	<0.21	<2.5	<2.5	<2.5	<2.5	0.4	2	2
Vanadium, total	µg/L	**3.1**	**2.1**	**17**	**1.5**	**16**	<0.58	<0.58	<0.58	6	30	--
Vanadium, dissolved	µg/L	**<0.86>**	<0.58	**3.5**	--	**<1.4>**	<0.58	<0.58	<0.58	--	--	--
Zinc, total	µg/L	**21**	**18**	**31**	**2.0**	**27**	<5.0	<5.0	<5.0	2500	5000	5000
Zinc, dissolved	µg/L	**<6.4>**	<5.0	**<6.0>**	--	**<9.3>**	<5.0	<5.0	<5.0	--	--	--

< - Less Than Limit of Detection

<> Between Limit of Detection and Limit of Quantification

Bold face indicates positive detections; concentrations exceeding the ES have been shaded

(1) MCL is USEPA's Maximum Contaminant Level for drinking water.

(2) MW-21B sample was not field filtered due to high turbidity. The sample submitted to the lab was too turbid to conduct groundwater analysis for inorganics. Laboratory analyzed this sample for total (no dissolved) parameters as a solid on a wet weight basis (in mg/kg

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

January 2004

Analyte	Units	Influent	Precarbon	Effluent	(1)POTW	Method	Frequency
PVOCs							
Benzene	µg/L	**2,200**	**44**	**0.50**	--	EPA 8260	Monthly
Bromoform	ug/L	<91	<7.2	<0.18	--	EPA 8260	Monthly
n-Butylbenzene	µg/L	<65	<5.2	<0.13	--	EPA 8260	Monthly
sec-Butylbenzene	µg/L	<67	<5.4	<0.13	--	EPA 8260	Monthly
Ethylbenzene	µg/L	**<54>**	<4.3	<0.11	--	EPA 8260	Monthly
Isopropylbenzene	µg/L	<57	<4.6	<0.11	--	EPA 8260	Monthly
p-Isopropyltoluene	µg/L	<68	<5.4	<0.14	--	EPA 8260	Monthly
Methylene Chloride	µg/L	<58	<4.6	<0.12	--	EPA 8261	Monthly
Naphthalene	µg/L	**4,100**	**350**	**1.5**	--	EPA 8260	Monthly
n-Propylbenzene	µg/L	<65	<5.2	<0.13	--	EPA 8260	Monthly
Toluene	µg/L	**1,400**	**62**	**<0.38>**	--	EPA 8260	Monthly
1,2,4-Trimethylbenzene	µg/L	**<97>**	**20**	<0.13	--	EPA 8260	Monthly
1,3,5-Trimethylbenzene	µg/L	<69	<5.5	<0.14	--	EPA 8260	Monthly
Total Trimethylbenzene	µg/L	**<97>**	**20**	<0.13	--	EPA 8260	Monthly
ortho-xylene	ug/L	**190**	**22**	<0.11	--	EPA 8260	Monthly
meta, para-xylene	ug/L	**<300>**	**40**	<0.24	--	EPA 8260	Monthly
Xylene, Total	µg/L	**490**	**62**	<0.11	--	EPA 8260	Monthly
Styrene	ug/L	**680**	**38**	**<0.19>**	--	EPA 8260	Monthly
Total PVOCs	µg/L	**9,021**	**576**	**2.57**	(2)1000		

Collected January 20, 2004
< - 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

Table 5
Remediation System Air Monitoring Results
Northern States Power, Ashland, Wisconsin

January 2004

Analyte	Units	Air Stripper	1st Stage Carbon	Effluent	Method	Frequency
VOCs						
Volume Collected	Liters	3.0	3.0	5.0		Monthly
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	**0.038**	<0.03	<0.03	NIOSH 1550	Monthly
Hydrocarbons (total)	mg/m^3	**12.7**	<10.0	<6.0		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	<10.0	<10.0	<6.0		Monthly

Collected January 20, 2004
< - Less Than Limit of Detection
<> Between Limit of Detection and Limit of Quantification

Table 6
Summary of Coal Tar and Groundwater Volume Removed

Date	Cumulative Volume of Coal Tar Removed (gals)	Cumulative Volume of Coal Tar Removed (lbs)	Cummulative Volume of Groundwater Removed from Wells EW-1, EW-2, EW-3 (gals)	Cummulative Volume of Groundwater Removed from well EW-4 (gals)	Cumulative Volume of Groundwater Removed (gals)
2/20/2001	554.2	4,853	22,826	0	22,826
3/30/2001	850.0	7,443	44,613	0	44,613
4/26/2001	915.2	8,014	56,978	0	56,978
5/17/2001	1,078.2	9,442	58,967	0	58,967
6/11/2001	1,291.2	11,307	61,094	0	61,094
7/31/2001	1,535.2	13,444	65,758	0	65,758
8/15/2001	1,578.0	13,819		0	
9/12/2001			81,524	0	81,524
9/28/2001	1,789.9	15,674	104,500	0	104,500
11/12/2001*	2,486.4	21,773	104,900	0	104,900
11/13/2001	2,551.6	22,344	106,200	0	106,200
11/14/2001	2,559.7	22,415	107,600	0	107,600
11/19/2001	2,600.5	22,772	114,200	0	114,200
11/28/2001	2,682.0	23,486	125,200	0	125,200
12/3/2001	2,779.8	24,342	131,500	0	131,500
12/12/2001	2,877.6	25,199	142,300	0	142,300
12/19/2001	2,975.4	26,055	155,328	0	155,328
1/3/2002	3,105.8	27,197	172,000	0	172,000
2/5/2002	3,105.7	27,197	173,116	0	173,116
2/11/2002	3,122.0	27,340	178,300	0	178,300
2/12/2002	3,122.1	27,340	180,100	0	180,100
2/19/2002	3,122.1	27,340	182,900	0	182,900
3/6/2002	3,138.4	27,483	183,000	0	183,000
3/12/2002	3,187.3	27,911	194,400	0	194,400
3/18/2002	3,219.9	28,196	199,400	0	199,400
3/27/2002	3,317.7	29,053	210,500	0	210,500
4/3/2002	3,350.3	29,338	216,600	0	216,600
4/9/2002	3,399.2	29,767	224,000	0	224,000
4/23/2002	3,473.6	30,419	238,100	0	238,100
4/30/2002	3,514.3	30,775	246,700	0	246,700
5/8/2002	3,538.8	30,989	256,900	0	256,900
5/15/2002	3,587.7	31,418	264,500	0	264,500
5/20/2002	3,612.1	31,631	266,900	0	266,900
5/24/2002	3,636.5	31,845	268,365	10,935	279,300
5/28/2002	3,652.8	31,988	272,215	13,185	285,400
6/17/2002	3,669.1	32,131	287,693	28,507	316,200
6/25/2002	3,726.2	32,631	295,908	35,492	331,400
7/2/2002	3,766.9	32,987	299,147	42,153	341,300

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7/9/2002	3,783.2	33,130	306,783	42,717	349,500
7/17/2002	3,799.5	33,272	314,710	49,990	364,700
7/22/2002	3,824.0	33,487	319,384	54,516	373,900
7/29/2002	3,864.7	33,843	326,542	57,158	383,700
8/8/2002	3,905.5	34,201	334,406	68,394	402,800
8/15/2002	3,921.8	34,343	340,391	68,609	409,000
9/9/2002	3,942.1	34,521	343,084	79,816	422,900
9/19/2002	4,003.3	35,057	350,659	91,441	442,100
9/26/2002	4,003.3	35,057	356,565	91,535	448,100
10/4/2002	4,003.3	35,057	363,135	93,265	456,400
10/11/2002	4,003.3	35,057	374,863	94,737	469,600
10/18/2002	4,027.8	35,272			485,600
10/25/2002	4,158.2	36,414	379,459	116,901	496,360
10/31/2002	4,166.3	36,484	381,556	121,045	502,600
11/8/2002	4,166.3	36,484			511,800
11/21/2002	4,753.3	41,625	387,629	124,272	511,900
11/26/2002	4,773.6	41,803	391,434	127,566	519,000
12/4/2002	4,789.9	41,945	398,205	129,795	528,000
12/10/2002	4,802.2	42,053	403,230	130,971	534,200
12/18/2002	4,826.6	42,267	410,356	132,444	542,800
12/23/2002	4,842.9	42,409	412,967	133,333	546,300
12/30/2002	4,855.1	42,516	415,842	134,458	550,300
1/10/2003	4,883.7	42,767	425,575	136,125	561,700
1/15/2003	4,900.0	42,910	429,541	136,859	566,400
1/20/2003	4,920.3	43,087	434,133	137,567	571,700
1/30/2003	4,952.9	43,373	442,556	138,844	581,400
2/13/2003	4,989.6	43,694	454,019	140,881	594,900
2/19/2003	5,007.8	43,854	456,851	141,149	598,000
2/26/2003	5,036.3	44,103	463,081	142,019	605,100
3/4/2003			468,458	142,742	611,200
3/27/2003			471,979	143,488	615,467
4/2/2003	5,097.5	44,639	478,430	144,870	623,300
4/9/2003	5,158.7	45,175	483,745	145,855	629,600
4/16/2003	5,219.9	45,711	487,333	148,267	635,600
4/23/2003	5,281.1	46,247	492,504	152,796	645,300
4/29/2003	5,342.3	46,783	495,729	155,771	651,500
5/7/2003	5,403.5	47,319	499,877	158,223	658,100
5/15/2003	5,464.7	47,855	0		
5/21/2003	5,525.9	48,391	515,230	172,470	687,700
5/28/2003	5,587.1	48,926	522,943	175,357	698,300

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6/3/2003	5,648.3	49,462	524,602	176,598	701,200
6/10/2003	5,709.5	49,998	529,728	178,472	708,200
6/17/2003	5,770.7	50,534	534,411	179,789	714,200
6/26/2003	5,831.9	51,070	540,050	180,950	721,000
7/2/2003	5,893.1	51,606	543,291	181909	725,200
7/9/2003	5,954.3	52,142	731,900	0	731,900
7/16/2203	6,015.5	52,678	553,174	185,526	738,700
7/22/2003	6,076.7	53,214	556,643	186,957	743,600
7/30/2003	6,137.9	53,750	560,726	188,074	748,800
8/6/2003	6,199.1	54,286	562,275	188,825	751,100
8/20/2003	6,260.3	54,822	567,361	191,139	758,500
8/28/2003	6,321.5	55,358	761,700	0	761,700
9/4/2003	6,382.7	55,894	572,759	191,841	764,600
9/11/2003	6,443.9	56,429	576,361	191,139	767,500
9/19/2003	6,505.1	56,965	579,259	191,841	771,100
9/25/2003	6,566.3	57,501	578,399	197,101	775,500
10/3/2003	6,627.5	58,037	781,500	0	781,500
10/9/2003	6,688.7	58,573	583,771	198,229	782,000
10/24/2003	6,749.9	59,109	588,551	201,950	790,500
10/29/2003	6,811.1	59,645	591,451	201,950	793,400
11/6/2003	6,872.3	60,181	595,851	201,950	797,800
11/13/2003	6,933.5	60,717	597,636	201,964	799,600
11/192003	6,994.7	61,253	597,753	202,147	799,900
11/25/2003	7,055.9	61,789	600,218	203,382	803,600
12/3/2003	7,117.1	62,325	602,201	205,999	808,200
12/11/2003	7,178.3	62,861	602,966	209,734	812,700
12/19/2003	7,239.5	63,397	603,699	214,401	818,100
12/26/2003	7,300.7	63,932	601,674	219,726	821,400
12/29/2003	7,361.9	64,468	596,405	225,095	821,500
1/9/2004	7,423.1	65,004	593,837	230,464	824,300
1/20/2004	7,484.3	65,540	589,505	236,795	826,300
1/29/2004	7,545.5	66,076	590,435	244,065	834,500
2/3/2004	7,606.7	66,612	587,272	251,728	839,000