



July 30, 2012

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Subject: Quarterly Groundwater Monitoring Results – First Quarter 2012 – AMENDED
Revisions to Original Report Submitted May 11, 2012
Powerton Generating Station - Ash Impoundments

Reference: Patrick Project No. 21253.028

To Whom It May Concern:

Patrick Engineering Inc. (Patrick), on behalf of Midwest Generation, LLC (MWG), is submitting an amended report, "Quarterly Groundwater Monitoring Results – First Quarter 2012", completed for MWG's Powerton Generating Station. This report was originally submitted to the Illinois Environmental Protection Agency (Illinois EPA) on May 11, 2012. The changes in the amended report are all related to corrections of various transcription errors of the laboratory data included in the original *Table 3 - Groundwater Analytical Results* of the referenced report.

Three attachments are enclosed:

Attachment A: The original "*Table 3 - Groundwater Analytical Results*" from the original report submitted on May 11, 2012.

Attachment B: The amended "*Table 3 - Groundwater Analytical Results*", which highlights and/or footnotes the various revisions being made to the original table (included in Attachment A).

Attachment C: A complete copy of the amended report.

Quarterly Groundwater Monitoring Results – First Quarter 2012 - AMENDED
Powerton Generating Station- Ash Impoundments
July 30, 2012

If you have any questions regarding this amended report, please contact Maria Race, Director of Environmental Services for Midwest Generation at 630-771-7862.

Sincerely,

PATRICK ENGINEERING INC.



Richard M. Frendt, P.E
Senior Project Manager

RMF/rmf

Enclosures: Attachment A: Original Table 3
Attachment B: Amended Table 3
Attachment C: Amended First Quarter 2012 Report

cc: Maria Race, Midwest Generation
Joseph Heredia, Midwest Generation
Mark Kelly, Midwest Generation

ATTACHMENT A

ORIGINAL TABLE 3

Table 3
Groundwater Analytical Results
Powerton Station, Illinois
Midwest Generation
21253.022

Chemical Name	Sample Analysis Method	Groundwater Quality Standard (mg/L) Class 1*	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
			(mg/L) 12/19/18	(mg/L) 3/25/11	(mg/L) 6/7/11	(mg/L) 9/28/11	(mg/L) 12/12/11	(mg/L) 3/19/12	(mg/L) 12/15/18	(mg/L) 3/25/11	(mg/L) 6/7/11	(mg/L) 9/28/11	(mg/L) 12/12/11	(mg/L) 3/19/12
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	0.0018	0.0015	0.0017	ND	ND	ND
Barium	Metals 6020	2.0	0.014	0.026	0.031	0.056	0.041	0.038	0.042	0.025	0.051	0.059	0.066	0.049
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.45	ND	ND	ND	0.0057	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	0.0077	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	ND	ND	ND	ND	ND	ND	ND	0.0012	0.0022	ND	ND	ND
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.01	0.008	ND	0.0069	0.0095	ND	0.0086	0.0096	0.0053	0.01	0.0073	ND
Selenium	Metals 6020	0.05	0.0016	0.0022	0.0016	0.0036	0.0027	0.0023	0.017	0.0032	0.0014	0.0072	0.0037	ND
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	3.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercon	Metals 6020	2	0.45	0.26	0.33	1.0	0.5	2.9	0.38	0.23	0.35	0.83	0.69	0.77
Sulfate	Dissolved 9038	400	50	30	39	83	31	61	52	42	33	70	69	55
Chloride	Dissolved 9251	200	46	37	40	41	26	53	45	43	44	46	40	53
Nitrogen/Nitrate	Nitrogen By calc	10	7.2	4.3	5.7	11	4.1	7.3	7.5	4.5	4.7	4.3	6.9	5.1
Total Dissolved Solids	Dissolved 2540C	1,200	190	340	410	510	440	470	480	420	470	460	490	440
Fluoride	Dissolved 4300 FC	4	0.28	0.32	0.38	ND	ND	ND	ND	0.3	0.35	ND	ND	ND
Radium 226 (pCi/L)	EPA 903.1	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Radium 228 (pCi/L)	EPA 904.0	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
*Class I Groundwater Standards from 35 IAC Part 620
Bold values show exceedances of 33 IAC Part 620
NA - gradient value not calculated due to non-detection in upgradient wells

Table 3
Groundwater Analytical Results
Powerton Station, Illinois
Midwest Generation
21253.022

Chemical Name	Sample Analytic Method	Groundwater Quality Standard (mg/L) Class 1*	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
			(mg/L) 12/15/18	(mg/L) 3/25/11	(mg/L) 6/16/11	(mg/L) 9/28/11	(mg/L) 12/12/11	(mg/L) 3/19/12	(mg/L) 12/15/18	(mg/L) 3/25/11	(mg/L) 6/16/11	(mg/L) 9/28/11	(mg/L) 12/12/11	(mg/L) 3/19/12
Antimony	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.0017	ND	0.0011	0.0012	0.0013	0.0012	ND	ND	ND	ND	ND	ND
Barium	Metals 6020	2.0	0.038	0.03	0.063	0.081	0.076	0.052	0.095	0.052	0.058	0.041	0.048	0.043
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0064	ND	ND
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	0.0076	ND	ND	ND	ND
Copper	Metals 6020	0.65	ND	ND	ND	0.012	0.0042	ND	ND	ND	ND	0.0033	0.01	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	ND	ND	ND	0.042	ND	ND	ND	0.017	ND	ND	ND	ND
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	0.0047	0.0023	ND	0.0037	0.0014	ND	ND	0.06	0.41	0.69	0.35	0.089
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.011	0.0095	ND	0.008	0.0078	ND	0.012	0.012	0.0067	0.011	0.01	0.0055
Selenium	Metals 6020	0.05	ND	0.0034	0.0015	0.0016	0.0021	0.0067	0.0022	0.0037	0.0022	0.0039	0.002	0.0085
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	0.012	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	0.75	0.18	0.24	0.64	0.7	0.56	0.77	0.83	0.33	0.84	0.79	0.78
Sulfate	Dissolved 9038	400	64	42	47	66	45	72	110	140	48	61	6.7	160
Chloride	Dissolved 9251	200	39	52	59	62	39	54	150	77	43	86	8.1	58
Nitrogen/Nitrate	Nitrogen By calc	10	9.3	5.2	5.3	0.2	0.2	2.1	0.34	0.73	2.7	0.06	0.07	0.65
Total Dissolved Solids	Dissolved 2540C	1,200	483	430	440	460	480	490	680	620	470	380	320	660
Fluoride	Dissolved 4500 FC	4	0.3	0.35	0.41	0.35	ND	ND	0.3	0.39	0.43	0.31	ND	ND
Radium 226 (pCi/L)	EPA 903.1	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Radium 228 (pCi/L)	EPA 904.0	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
*Class 1 Groundwater Standards from 35 IAC Part 620
ND values show exceedances of 35 IAC Part 620
NA - upgradient value not calculated due to non-detection in upgradient wells

Table 3
Groundwater Analytical Results
Powerton Station, Illinois
Midwest Generation
21253.022

Chemical Name	Sample Analysis Method	Groundwater Quality Standard	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
		Class 1*	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
			12/15/10	3/25/11	6/14/11	9/28/11	12/12/11	3/19/12	12/5/12	3/25/11	6/14/11	9/28/11	12/12/11	3/19/12
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.0011	ND	ND	ND	0.001	ND	0.0042	0.0024	0.0029	0.0031	0.0036	0.0002
Barium	Metals 6020	2.0	0.053	0.048	0.046	0.071	0.065	0.054	0.11	0.092	0.1	0.1	0.12	0.097
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	0.0044	0.0043	ND	0.0066	0.0072	ND	ND	ND	ND	ND	ND	ND
Cobalt	Metals 6020	1.0	0.0025	0.0023	ND	0.0027	0.0022	ND	0.006	0.0083	0.0045	0.0085	0.0056	ND
Copper	Metals 6020	0.65	ND	ND	ND	0.0026	0.0061	ND	ND	ND	ND	ND	ND	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	0.0053	0.0042	ND	0.16
Iron	Metals 6020	5.0	0.13	0.05	0.046	0.082	0.036	ND	1.6	1.6	1.7	1.8	1.9	1.7
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	0.51	0.49	0.46	0.54	0.5	0.36	0.48	0.46	0.43	0.46	0.43	0.51
Mercury	Mercury 2470A	0.002	NTD	NTD	ND	NTD	NTD	ND	NTD	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.014	0.013	0.0077	0.014	0.014	0.006	0.0091	0.014	0.0078	0.0099	0.0089	ND
Selenium	Metals 6020	0.05	0.0019	0.003	ND	0.0045	0.0023	0.0071	0.0034	ND	ND	0.0025	0.0033	ND
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	0.0064	NTD	NTD	ND	ND	0.049
Baron	Metals 6020	2	0.95	0.93	0.79	0.79	0.77	0.82	0.905	0.35	0.43	0.61	0.63	0.79
Sulfate	Dissolved 9038	400	160	170	110	250	170	120	210	250	280	260	170	250
Chloride	Dissolved 9251	200	150	120	89	160	140	82	160	200	190	210	150	150
Nitrogen/Nitrate	Nitrogen By calc	10	ND	NTD	0.08	ND	ND	1.6	0.037	ND	NTD	0.04	0.06	ND
Total Dissolved Solids	Dissolved 2540C	1,200	740	680	640	390	820	590	990	990	1,100	970	1,000	1,100
Fluoride	Dissolved 4500 FC	4	0.27	ND	0.43	0.23	ND	ND	0.65	0.61	0.63	0.64	0.5	0.47
Radium 226 (pCi/L)	EPA 903.1	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Radium 228 (pCi/L)	EPA 904.0	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
*Class I Groundwater Standards from 35 IAC Part 620
Bold values show exceedances of 35 IAC Part 630
NA - upgradient value not calculated due to non-detection in upgradient wells

Table 3
Groundwater Analytical Results
Powerton Station, Illinois
Midwest Generation
21253.022

Chemical Name	Sample Analysis Method	Groundwater Quality Standard (mg/L) Class I*	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
			(mg/L) 12/19/10	(mg/L) 3/25/11	(mg/L) 6/16/11	(mg/L) 9/28/11	(mg/L) 12/12/11	(mg/L) 3/19/12	(mg/L) 12/19/10	(mg/L) 3/25/11	(mg/L) 6/16/11	(mg/L) 9/28/11	(mg/L) 12/12/11	(mg/L) 3/19/12
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.026	0.885	0.12	0.18	0.23	0.23	0.0052	0.0039	0.0044	0.0036	0.0037	0.0018
Barium	Metals 6020	3.0	0.55	0.52	0.57	0.57	0.59	0.57	0.11	0.12	0.11	0.11	0.13	0.14
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.025	0.0026	ND	0.0015	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	0.008	0.0075	0.0061	0.011	ND	ND	0.0081	0.0059	0.0064	0.0053	ND	ND
Cobalt	Metals 6020	1.0	0.017	0.0056	0.007	0.0055	0.006	0.0067	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.43	0.14	ND	ND	ND	ND	ND	ND	ND	0.0034	0.0017	0.01	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	8	7.8	10	22	26	31	0.54	2.1	1.7	0.97	0.94	0.0023
Lead	Metals 6020	0.0075	0.039	ND	0.0014	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	3.5	5.9	6.4	12	12	11	0.15	0.27	0.29	0.18	0.2	0.27
Mercury	Mercury 7470A	0.002	ND	ND	0.00025	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.0045	0.021	0.022	0.026	0.022	0.018	0.011	0.013	0.0076	0.007	0.009	0.0054
Selenium	Metals 6020	0.05	0.0043	0.0026	0.0023	0.0073	0.054	0.0113	0.0036	0.0013	ND	0.0031	0.0034	0.0018
Silver	Metals 6020	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	0.076	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	0.6	0.44	0.43	0.38	0.34	0.35	0.93	0.72	0.64	0.82	0.82	0.57
Sulfate	Dissolved 9018	400	120	49	23	9.1	3.3	3	160	240	140	200	200	300
Chloride	Dissolved 9251	200	170	200	140	130	81	99	180	210	140	210	190	170
Nitrogen/Nitrate	Nitrogen By calc	10	0.043	0.08	ND	0.31	0.03	ND	ND	ND	0.1	1.6	ND	ND
Total Dissolved Solids	Dissolved 2540C	1,200	360	1,100	1,300	1,300	1,300	1,000	890	990	970	940	990	1,200
Fluoride	Dissolved 4500 FC	4	0.47	0.42	0.58	0.94	0.47	0.54	0.77	0.76	0.81	0.84	0.75	0.7
Radium 226 (pCi/L)	EPA 903.1	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Radium 228 (pCi/L)	EPA 904.0	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
*Class I Groundwater Standards from 15 IAC Part 620
Bold values show exceedances of 35 IAC Part 620
NA - upgradient value not calculated due to non-detection in upgradient wells

Table 3
Groundwater Analytical Results
Powergen Station, Illinois
Midwest Generation
21253.022

Chemical Name	Sample Analytical Method	Groundwater Quality Standard (mg/L) Class 1*	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenous	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	ND	ND	0.0018	0.0017	ND	0.0012	ND	ND	ND	0.0015	ND	ND	ND
Barium	Metals 6020	2.0	0.038	0.042	0.042	0.038	0.03	0.038	0.035	0.24	0.28	0.36	0.25	0.26	0.24
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.65	ND	ND	ND	ND	ND	ND	ND	0.0026	0.0027	0.0039	0.0025	0.0026	0.0024
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0041	ND
Iron	Metals 6020	5.0	ND	ND	0.066	ND	ND	ND	0.014	ND	ND	0.044	ND	ND	ND
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	0.23	0.43	0.45	0.48	0.14	0.28	0.22	2.1	2.8	3.8	2.3	2.3	2.3
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.01	0.011	0.0093	0.0063	0.0065	0.0088	ND	0.015	0.016	0.015	0.01	0.013	0.0091
Selenium	Metals 6020	0.05	0.0024	ND	0.072	0.0017	0.0043	0.0041	0.0072	0.0042	0.0044	0.043	0.0057	0.0065	0.0054
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	Metals 6020	2	2.1	1.9	1.9	1.9	2.5	2.7	2.6	0.48	0.48	0.52	0.42	0.57	0.26
Sulfate	Dissolved 9018	400	110	99	110	110	130	110	120	62	64	67	64	72	76
Chloride	Dissolved 9251	200	25	33	28	28	30	30	30	40	43	43	49	42	45
Nitrogen/Nitrate	Nitrogen N/Calc	10	2.0	3.7	5.6	5.6	3.7	2.6	5	3	4	2.1	4.5	4.9	6
Total Dissolved Solids	Dissolved 2540C	1,200	500	470	510	540	500	520	530	530	520	650	470	540	530
Fluoride	Dissolved 4500 FC	4	ND	0.32	0.31	0.34	0.25	ND	ND	ND	0.3	0.36	ND	ND	ND
Radium 226 (pCi/L)	EPA 903.1	20	0.673	0.728	NS	0.117	0.955	0.621	0.25	NS	NS	NS	NS	NS	NS
Radium 228 (pCi/L)	EPA 904.0	20	0.941	0.983	NS	0.553	0.974	0.966	0.999	NS	NS	NS	NS	NS	NS

Notes:
*Class 1 Groundwater Standards from 35 IAC Part 620
Bold values show exceedance of 35 IAC Part 620
NA - upgradient value not calculated due to non-detection in upgradient wells

Table 3
Groundwater Analytical Results
Powerton Station, Illinois
Midwest Generation
21253.022

Chemical Name	Sample Analysis Method	Groundwater Quality Standard (mg/L) Class 1*	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12
			(mg/L) 12/14/01	(mg/L) 2/15/11	(mg/L) 6/14/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12	(mg/L) 12/15/10	(mg/L) 2/15/11	(mg/L) 6/14/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12
Arsenopy	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.0021	0.0025	0.0019	0.0016	0.0019	0.0021	0.0028	0.013	0.0064	0.0087	0.0089	0.0042
Barium	Metals 6020	2.0	0.17	0.11	0.18	0.11	0.13	0.089	0.11	0.091	0.085	0.09	0.071	0.071
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	0.0056	0.0044	0.0071	0.0047	ND
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	Metals 6020	1.0	0.0028	0.0041	0.0024	ND	ND	0.0024	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.65	0.0032	0.0032	0.0043	ND	ND	ND	ND	ND	0.0032	0.0036	0.0031	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	0.44	0.01	0.029	0.018	ND	ND	5.5	6.3	5.6	4	3.1	4.1
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	3.2	3.6	2.9	2.2	2.5	2.9	0.32	0.58	0.36	0.37	0.25	0.12
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	0.0026	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.019	0.016	0.013	0.011	0.013	0.011	0.0078	0.01	0.0072	0.0075	0.0091	0.0075
Selenium	Metals 6020	0.05	0.0026	0.0015	0.0018	0.004	0.0031	0.0039	ND	0.0027	ND	0.0023	0.0024	0.0043
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	1.6	1.8	1.6	1.5	1.6	2.3	1.6	1.4	1.3	1.2	1.3	0.92
Sulfate	Dissolved 9018	400	170	160	210	140	160	130	290	270	350	340	300	310
Chloride	Dissolved 9251	200	70	66	120	53	87	54	170	180	180	190	210	170
Nitrogen/Nitrate	Nitrogen By Calc.	10	0.41	0.17	0.04	0.74	1.5	0.39	ND	ND	0.14	ND	ND	0.04
Total Dissolved Solids	Dissolved 2540C	1,200	740	710	930	620	730	740	980	1,000	1,100	970	970	1,000
Fluoride	Dissolved 4300 FC	4	0.53	0.56	0.67	0.58	0.44	0.43	0.71	0.61	0.64	0.74	0.61	0.46
Radium 226 (pCi/L)	EPA 903.1	20	0.245	0.174	0.929	0.332	0.733	0.277	0.617	0.207	0.899	0.573	0.923	0.248
Radium 228 (pCi/L)	EPA 904.0	20	0.913	0.967	0.914	0.355	1.03	0.319	0.97	0.973	0.956	0.839	0.952	0.318

Note:
*Class I Groundwater Standards from 35 IAC Part 620
Bold values show exceedances of 35 IAC Part 620
NA - upgradient values not calculated due to non-detection in upgradient wells

Table 3
Groundwater Analytical Results
Powerston Station, Illinois
Midwest Generation
21253.022

Chemical Name	Sample Analysis Method	Groundwater Quality Standard (mg/L) Class 1*	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14
			(mg/L) 12/15/10	(mg/L) 2/25/11	(mg/L) 4/25/11	(mg/L) 6/16/11	(mg/L) 8/29/11	(mg/L) 10/23/11	(mg/L) 12/12/11	(mg/L) 4/18/12	(mg/L) 12/15/09	(mg/L) 2/15/11	(mg/L) 4/28/11	(mg/L) 6/16/11	(mg/L) 8/29/11	(mg/L) 10/12/11	(mg/L) 12/12/11	(mg/L) 1/21/12
Arsenous	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.011	0.0049	0.0063	0.0057	0.0044	0.0066	0.023	0.027	0.024	0.019	0.0084	0.003	0.0082	0.013	0.0033	0.0039
Barium	Metals 6020	2.0	0.11	0.053	0.073	0.059	0.046	0.083	0.21	0.14	0.034	0.036	0.04	0.041	0.04	0.045	0.045	0.045
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	0.0082	0.0042	0.0045	ND	ND	0.01	0.0055	5.5	ND	0.0046	0.0078	0.0049	0.0076	0.096	0.0065	0.0037
Cobalt	Metals 6020	1.0	0.0031	0.0026	0.0023	0.0022	0.0031	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.63	0.0068	0.0037	0.0041	0.004	0.004	0.0055	0.0066	0.0068	0.0037	0.0035	0.0074	0.0071	0.0064	0.0055	0.005	0.0067
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	0.69	0.052	0.077	ND	0.043	ND	0.11	0.2	2.2	0.94	0.036	0.3	0.71	2	0.12	0.77
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	5	3.8	2.7	2.9	2.6	3.6	3.5	3.5	0.68	0.81	0.29	0.36	0.57	0.84	0.067	0.43
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.03	0.023	0.021	0.018	0.016	0.015	0.022	0.02	0.015	0.015	0.02	0.018	0.016	0.011	0.015	0.018
Selenium	Metals 6020	0.05	0.0046	0.0046	0.0045	0.0029	0.056	0.004	0.0036	0.0057	0.0024	0.0015	0.005	0.0035	0.003	0.0017	0.0037	0.022
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	3.9	3.1	2.6	3.9	2.7	3.8	4.1	4.8	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Sulfate	Dissolved 9038	400	1,400	770	580	540	480	660	1,100	1,100	960	820	770	810	940	820	880	990
Chloride	Dissolved 9251	200	160	120	100	84	110	110	180	170	150	160	160	160	240	200	200	190
Nitrogen/Nitrate	Nitrogen Bycalc	10	0.14	1.3	1.8	2.2	3.6	1.6	0.07	0.06	0.036	ND	1	0.27	0.05	ND	0.33	0.31
Total Dissolved Solids	Dissolved 2540C	1,200	2,600	1,600	1,400	1,300	1,100	1,500	2,100	2,300	1,800	1,700	1,900	1,900	2,000	1,800	1,800	2,200
Fluoride	Dissolved 4500 FC	4	0.28	0.29	0.31	0.44	0.38	0.3	ND	0.32	1.7	1.6	1.1	1.3	1.4	0.88	1.1	1
Radium 226 (pCi/L)	EPA 903.1	20	0.003	0.163	NA	0.741	0	0.191	0.953	0.32	0.577	0.163	NA	0.893	0.129	0.0983	0.857	0.328
Radium 228 (pCi/L)	EPA 904.0	20	0.988	0.966	0.73	1	0.198	0.639	1.01	0.422	0.944	0.96	0.737	0.947	0.193	-	0.985	0.43

*Class 1 Groundwater Standards from 35 IAC Part 620
 Bold values show exceedance of 35 IAC Part 620
 NA - upgradient value not calculated due to non-detection in upgradient wells

Table 3
Groundwater Analytical Results
Powerton Station, Illinois
Midwest Generation
21253.022

Chemical Name	Sample Analytic Method	Groundwater Quality Standard (mg/L) Class 1*	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15
			(mg/L) 12/15/10	(mg/L) 2/15/11	(mg/L) 4/25/11	(mg/L) 6/14/11	(mg/L) 8/9/11	(mg/L) 10/13/11	(mg/L) 12/13/11	(mg/L) 4/19/12
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.0099	0.0092	0.0164	0.0292	0.0053	0.011	0.0094	0.0064
Barium	Metals 6028	2.0	0.051	0.052	0.061	0.11	0.057	0.06	0.063	0.075
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6025	0.1	0.0042	0.063	0.0392	0.0034	0.0091	0.0042	0.0062	0.0071
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.63	ND	ND	0.0039	0.005	0.0041	0.0037	0.0031	0.0039
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	3.3	2.4	2.1	0.7	2.1	2.6	2.1	0.0011
Lead	Metals 6020	0.0075	ND	ND	0.0012	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	0.54	0.42	0.26	0.6	0.37	0.48	0.39	0.25
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.013	0.011	0.012	0.015	0.01	0.011	0.011	0.01
Selenium	Metals 6020	0.05	0.0042	0.0079	0.017	0.084	0.002	0.004	0.0047	0.025
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	1.6	1.4	1.5	1.6	1.3	1.2	1.2	1.4
Sulfate	Dissolved 903E	400	300	220	270	650	290	180	140	200
Chloride	Dissolved 9251	200	180	190	190	170	210	180	200	200
Nitrogen/Nitrate	Nitrogen By calc	10	0.03	0.086	0.04	0.07	0.05	ND	0.07	0.12
Total Dissolved Solids	Dissolved 2540C	1,200	1,000	1,000	1,100	1,400	1,000	890	840	1,000
Fluoride	Dissolved 4500 FC	4	0.69	0.75	0.6	0.73	0.76	0.77	0.75	0.79
Radium 226 (pCi/L)	EPA 903.1	20	0.665	0.174	NA	0.946	0.567	0.614	0.979	0.322
Radium 228 (pCi/L)	EPA 904.0	20	0.902	0.968	0.689	0.913	0.0954	0.522	0.937	0.385

Note:
*Class 1 Groundwater Standards from 35 IAC Part 630
Bold values show exceedance of 35 IAC Part 630
NA - upgradient value not calculated due to non-detection in upgradient wells

ATTACHMENT B
AMENDED TABLES

Table 3
 GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
 Powerion Generation Station
 Pekin, Illinois
 Midwest Generation
 21253.022

Chemical Name	Sample Analytic Method	Groundwater Quality Standard (mg/L) Class 1*	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
			(mg/L) 12/15/10	(mg/L) 3/25/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12	(mg/L) 12/15/10	(mg/L) 3/25/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	0.0018	0.0015	0.0017	ND	ND	ND
Barium	Metals 6020	2.0	0.044	0.076	0.034	0.056	0.044	0.038	0.042	0.025	0.053	0.059	0.066	0.049
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.65	ND	ND	ND	0.0057	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	0.0077	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	ND	ND	ND	ND	ND	ND	ND	0.0012	0.0022	ND	ND	ND
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.01	0.008	ND	0.0069	0.0095	ND	0.0066	0.0096	0.0059	0.01	0.0073	ND
Selenium	Metals 6020	0.05	0.0016	0.0022	0.0016	0.0036	0.0027	0.0025	0.0017	0.0032	0.0014	0.0032	0.0037	ND
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013
Bromine	Metals 6020	2	0.45	0.26	0.33	1.0	0.48	0.38	0.23	0.35	0.83	0.69	0.27	
Sulfate	Dissolved 9018	400	50	30	39	43	31	41	52	42	53	70	69	55
Chloride	Dissolved 9251	200	46	37	40	41	26	53	45	43	44	46	40	53
Nitrogen/Nitrate	Nitrogen By calc	10	7.2	4.3	5.7	11	4.1	7.3	7.5	4.5	4.7	4.3	6.9	5.1
Total Dissolved Solids	Dissolved 2540C	1,200	490	340	410	510	440	470	480	420	470	460	490	440
Fluoride	Dissolved 4500 FC	4	0.28	0.32	0.38	ND	ND	ND	0.1	0.35	ND	ND	ND	ND
Radium 226 (pCi/L)	EPA 903.1	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Radium 228 (pCi/L)	EPA 904.0	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
 *Class I Groundwater Standards from 35 IAC Part 620
 Bold values show exceedances of 35 IAC Part 620
 NS-not sampled
 ND- non detect
 mg/L- milligrams per liter

AMENDMENTS

- 0.0018** - Value amended from original Table 3 (May 11, 2012).
- 0.0015** - Value has not changed; font has been changed from bold to normal.
- 0.0017** - Value has not changed; font has been changed from normal to bold.

Table 3
 GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
 Powerton Generation Station
 Pekin, Illinois
 Midwest Generation
 21253.022

Chemical Name	Sample Analytic Method	Groundwater Quality Standard (mg/L) Class *	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
			(mg/L) 12/15/10	(mg/L) 3/23/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12	(mg/L) 12/15/10	(mg/L) 3/23/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.0017	ND	0.0011	0.0012	0.0012	0.0012	ND	ND	ND	ND	ND	ND
Barium	Metals 6020	2.0	0.038	0.03	0.063	0.081	0.076	0.052	0.035	0.052	0.038	0.041	0.048	0.043
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0044	ND	ND
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	0.0026	ND	ND	ND	ND	ND
Copper	Metals 6020	0.65	ND	ND	ND	0.012	0.0042	ND	ND	ND	0.0033	0.01	ND	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	3.0	ND	ND	ND	0.042	ND	ND	ND	0.017	ND	ND	ND	ND
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	0.0047	0.0023	ND	0.0037	0.0014	ND	ND	0.44	0.41	0.69	0.35	0.089
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.011	0.0095	ND	0.008	0.0078	ND	0.012	0.0067	0.011	0.01	0.0055	ND
Selenium	Metals 6020	0.05	ND	0.0036	0.0015	0.0036	0.0021	0.0067	0.0022	0.0037	0.0022	0.0039	0.002	0.0085
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	ND	ND	ND	0.4	ND	0.012	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	0.73	0.18	0.24	0.44	0.7	0.56	0.77	0.83	0.33	0.84	0.79	0.78
Sulfate	Dissolved 9038	400	64	42	47	66	45	72	110	140	48	61	6.7	160
Chloride	Dissolved 9251	200	39	52	59	62	39	54	150	77	43	86	8.1	58
Nitrogen/Nitrate	Nitrogen By Calc	10	9.4	5.2	5.4	0.1	0.2	2.1	0.34	0.73	2.7	0.06	0.07	0.65
Total Dissolved Solids	Dissolved 2540C	1,200	480	430	440	460	480	450	680	620	470	580	570	660
Fluoride	Dissolved 4500 FC	4	0.3	0.35	0.41	0.35	ND	ND	0.3	0.39	0.43	0.31	ND	ND
Radium 226 (pCi/L)	EPA 903.1	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Radium 228 (pCi/L)	EPA 904.0	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
 *Class I Groundwater Standards from 35 IAC Part 620
 Bold values show exceedences of 35 IAC Part 620
 NS-not sampled
 ND- non detect
 mg/L- milligrams per liter

AMENDMENTS

- 0.0044** - Value amended from original Table 3 (May 11, 2012).
- 0.0044** - Value has not changed; font has been changed from bold to normal.
- 0.0044** - Value has not changed; font has been changed from normal to bold.

Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
 Powerton Generation Station
 Pekin, Illinois
 Midwest Generation
 21253.022

Chemical Name	Sample Analysis Method	Groundwater Quality Standard (mg/L) Class 1*	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6		
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
			12/15/10	3/25/11	6/16/11	9/19/11	12/17/11	3/19/12	12/15/10	3/25/11	6/16/11	9/19/11	12/15/11	3/19/12			
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Arsenic	Metals 6020	0.05	0.0011	ND	ND	ND	0.001	ND	0.0042	0.0024	0.0029	0.0031	0.0036	0.0036	0.0036		
Barium	Metals 6020	2.0	0.053	0.048	0.046	0.071	0.065	0.054	0.11	0.092	0.1	0.1	0.12	0.097			
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Chromium	Metals 6020	0.1	0.0044	0.0042	ND	0.0066	ND	ND	0.006	0.0083	0.0045	0.0085	0.0056	ND			
Cobalt	Metals 6020	1.0	0.0025	0.0023	ND	0.0027	0.0022	ND	ND	ND	ND	ND	ND	ND			
Copper	Metals 6020	0.65	ND	ND	ND	0.0036	0.0061	ND	ND	ND	0.0032	0.0042	ND	0.16			
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Iron	Metals 6020	3.0	0.13	0.05	0.046	0.082	0.036	ND	1.6	1.6	1.7	1.8	1.9	1.7			
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Manganese	Metals 6020	0.15	0.51	0.49	0.46	0.64	0.5	0.26	0.68	0.68	0.63	0.56	0.63	0.61			
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Nickel	Metals 6020	0.1	0.014	0.013	0.0077	0.014	0.014	0.008	0.0091	0.014	0.0078	0.0099	0.0089	ND			
Selenium	Metals 6020	0.05	0.0019	0.003	ND	0.0045	0.0023	0.0028	0.0034	ND	ND	0.0025	0.0033	ND			
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	0.0064	ND	ND	ND	ND	0.049			
Boron	Metals 6020	2	0.95	0.93	0.79	0.79	0.77	0.82	0.35	0.43	0.61	0.63	0.63	0.39			
Sulfate	Dissolved 9038	400	160	170	110	250	170	120	210	250	280	260	170	250			
Chloride	Dissolved 9251	200	150	120	89	160	140	82	180	280	160	218	150	150			
Nitrogen/Nitrate	Nitrogen By calc	10	ND	ND	0.08	ND	ND	1.6	0.037	ND	ND	0.04	0.06	ND			
Total Dissolved Solids	Dissolved 2540C	1,200	740	680	640	890	820	590	950	990	1,100	970	1,000	1,100			
Fluoride	Dissolved 4500 FC	4	0.27	0.30	0.43	0.25	ND	ND	0.65	0.61	0.63	0.64	0.5	0.47			
Radium 226 (pCi/L)	EPA 903.1	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			
Radium 228 (pCi/L)	EPA 904.0	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			

Notes:
 *Class 1 Groundwater Standards from 35 IAC Part 620
 Bold values show exceedances of 35 IAC Part 620
 NS-not sampled
 ND- non detect
 mg/L- milligrams per liter




AMENDMENTS
 - Value amended from original Table 3 (May 11, 2012).
 - Value has not changed; font has been changed from bold to normal.
 - Value has not changed; font has been changed from normal to bold.

Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
 Powerion Generation Station
 Pekin, Illinois
 Midwest Generation
 21253.022

Chemical Name	Sample Analysis Method	Groundwater Quality Standard (mg/L) Class 1*	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
			(mg/L) 12/15/10	(mg/L) 3/25/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/15/11	(mg/L) 3/19/12	(mg/L) 12/15/10	(mg/L) 3/25/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/15/11	(mg/L) 3/19/12
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.026	0.045	0.12	0.18	0.23	0.23	0.0052	0.0039	0.0044	0.0036	0.0052	0.0038
Barium	Metals 6020	2.0	0.55	0.52	0.57	0.57	0.59	0.57	0.11	0.12	0.11	0.11	0.13	0.14
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	0.0026	ND	0.0015	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	0.0088	0.0075	0.0061	0.011	ND	ND	0.0069	0.0081	0.0059	0.0084	0.0053	ND
Cobalt	Metals 6020	1.0	0.017	0.0056	0.007	0.0055	0.006	0.0067	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.65	0.14	ND	ND	ND	ND	ND	ND	ND	0.0036	0.0037	0.01	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	8	7.5	18	22	26	31	0.56	2.1	1.7	0.97	0.94	2.0
Lead	Metals 6020	0.0075	0.0030	ND	0.0014	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	3.5	5.9	6.4	12	12	11	0.15	0.27	0.29	0.18	0.2	0.27
Mercury	Mercury 7470A	0.002	ND	ND	0.00025	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.045	0.021	0.022	0.026	0.022	0.018	0.011	0.013	0.0076	0.007	0.009	0.0054
Selenium	Metals 6020	0.05	0.0043	0.0026	0.0025	0.0073	0.0064	0.0013	0.0036	0.0013	ND	0.0031	0.0036	0.0018
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	0.076	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	0.83	0.44	0.43	0.38	0.34	0.35	0.93	0.72	0.64	0.82	0.82	0.57
Sulfate	Dissolved 9018	400	120	49	25	9.1	3.3	3	160	240	140	200	200	300
Chloride	Dissolved 9251	280	170	50	140	130	81	99	180	210	140	210	190	170
Nitrogen/Nitrate	Nitrogen By Calc	10	0.043	0.08	ND	0.31	0.03	ND	ND	ND	0.1	1.6	ND	ND
Total Dissolved Solids	Dissolved 3540C	1,200	850	1,100	1,200	1,300	1,300	1,400	890	990	970	940	990	1,200
Fluoride	Dissolved 4500 FC	4	0.47	0.42	0.58	0.94	0.47	0.54	0.77	0.76	0.81	0.84	0.75	0.7
Radium 226 (pCi/L)	EPA 901.1	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Radium 228 (pCi/L)	EPA 904.0	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
 *Class 1 Groundwater Standards from 35 IAC Part 620
 Bold values show exceedances of 35 IAC Part 620
 NS-not sampled
 ND-not detect
 mg/L- milligrams per liter




AMENDMENTS
 - Value amended from original Table 3 (May 11, 2012).
 - Value has not changed; font has been changed from bold to normal.
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Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
 Powerton Generation Station
 Pekin, Illinois
 Midwest Generation
 21253.022

Chemical Name	Sample Analysis Method	Groundwater Quality Standard (mg/L) Class 1*	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10
			(mg/L) 12/16/10	(mg/L) 2/15/11	(mg/L) 3/25/11	(mg/L) 6/14/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12	(mg/L) 12/15/10	(mg/L) 3/25/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	ND	ND	0.0018	0.0017	ND	0.0012	ND	ND	0.0015	ND	ND	ND	ND
Barium	Metals 6020	2.0	0.038	0.042	0.042	0.038	0.03	0.038	0.035	0.24	0.28	0.36	0.25	0.26	0.26
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	0.0026	0.0027	0.0039	0.0025	0.0026	0.0024
Copper	Metals 6020	0.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0041	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	ND	0.19	0.066	ND	ND	ND	0.014	ND	ND	0.044	ND	ND	ND
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	0.23	0.43	0.45	0.48	0.14	0.28	0.22	2.1	2.8	3.8	2.3	2.3	2.3
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.011	0.0093	0.0063	0.0065	0.0088	ND	0.013	0.016	0.015	0.01	0.013	0.0091	0.0091
Selenium	Metals 6020	0.05	0.0024	ND	0.072	0.0017	0.0043	0.0041	0.072	0.0042	0.0064	0.064	0.0057	0.0065	0.0056
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	2.1	1.9	1.9	1.9	2.5	2.7	2.6	0.48	0.48	0.52	0.42	0.57	0.54
Sulfate	Dissolved 9038	400	110	99	110	110	130	110	120	62	64	67	64	72	74
Chloride	Dissolved 9151	200	25	33	28	28	30	30	30	40	43	43	49	42	43
Nitrogen/Nitrate	Nitrogen By Calc	10	2.9	3.7	5.6	5.6	3.7	2.6	5	3	4	2.1	4.5	4.9	6
Total Dissolved Solids	Dissolved 2540C	1,200	500	470	510	540	500	520	530	530	520	650	470	540	530
Fluoride	Dissolved 4500 FC	4	ND	0.32	0.31	0.34	0.25	ND	ND	ND	0.3	0.36	ND	ND	ND
Radium 226 (pCi/L)	EPA 903.1	20	0.673	0.728	NS	0.966	0.963	0.621	0.992	NS	NS	NS	NS	NS	NS
Radium 228 (pCi/L)	EPA 904.0	20	0.941	0.983	NS	0.974	0.966	0.966	0.931	NS	NS	NS	NS	NS	NS

Notes:
 *Class 1 Groundwater Standards from 35 IAC Part 620
 Bold values show exceedences of 35 IAC Part 620
 NS-not sampled
 ND- non detect
 mg/L- milligrams per liter

AMENDMENTS

- 0.26** - Value amended from original Table 3 (May 11, 2012).
- 0.26** - Value has not changed; font has been changed from bold to normal.
- 0.26** - Value has not changed; font has been changed from normal to bold.

Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
 Powerion Generation Station
 Pekin, Illinois
 Midwest Generation
 21253.022

Chemical Name	Sample Analytic Method	Groundwater Quality Standard (mg/L) Class 1*	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12
			(mg/L) 12/16/10	(mg/L) 2/15/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12	(mg/L) 12/15/11	(mg/L) 2/15/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/17/11	(mg/L) 3/19/12	
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.0021	0.0025	0.0019	0.0016	0.0019	0.0021	0.0088	0.013	0.0064	0.0087	0.0039	0.0042	0.0042
Barium	Metals 6020	2.0	0.17	0.11	0.18	0.11	0.11	0.13	0.089	0.11	0.091	0.085	0.09	0.071	0.071
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	ND	0.0056	0.0044	0.0071	0.0047	ND	ND
Cobalt	Metals 6020	1.0	0.0028	0.0041	0.0024	ND	ND	0.0024	ND	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.65	0.0032	0.0032	0.0043	ND	ND	ND	ND	ND	0.0032	0.0036	0.0031	ND	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	0.44	0.01	0.029	0.018	ND	ND	5.5	6.3	5.6	4	3.1	4.8	4.8
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	3.2	3.6	2.9	2.2	2.5	2.9	0.32	0.58	0.26	0.37	0.25	0.13	0.13
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.019	0.016	0.013	0.011	0.013	0.011	0.0096	0.01	0.0072	0.0075	0.0091	0.0075	0.0075
Selenium	Metals 6020	0.05	0.0026	0.0015	0.0018	0.004	0.0031	0.0039	0.0096	0.0027	ND	0.0023	0.0034	0.0043	0.0043
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	1.6	1.8	1.6	1.5	1.8	2.3	1.6	1.4	1.3	1.2	1.3	0.92	0.92
Sulfate	Dissolved 9038	400	170	160	210	140	160	130	290	270	350	360	300	310	310
Chloride	Dissolved 9251	200	70	66	120	53	67	54	170	180	180	190	180	170	170
Nitrogen/Nitrate	Nitrogen Bycalc	10	0.21	0.17	0.04	0.24	1.5	0.39	ND	ND	0.14	ND	ND	ND	0.04
Total Dissolved Solids	Dissolved 2540C	1,200	740	710	930	620	730	740	980	1,000	1,100	970	970	1,500	1,500
Fluoride	Dissolved 4500 FC	4	0.53	0.56	0.67	0.58	0.44	0.42	0.71	0.61	0.64	0.74	0.61	0.46	0.46
Radium 226 (pCi/L)	EPA 903.1	20	0.445	0.174	0.929	0.249	0.733	0.631	0.617	0.207	0.893	0.963	0.923	0.46	0.46
Radium 228 (pCi/L)	EPA 904.0	20	0.915	0.967	0.914	0.949	1.03	0.943	0.97	0.973	0.956	0.996	0.952	0.715	0.715

Notes:
 *Class 1 Groundwater Standards from 35 IAC Part 620
 Bold values show exceedences of 35 IAC Part 620
 NS-not sampled
 ND-not detect
 mg/L- milligrams per liter

AMENDMENTS

- 0.0096** - Value amended from original Table 3 (May 11, 2012).
- 0.0096** - Value has not changed; font has been changed from bold to normal.
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Table 3
 GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
 Powerton Generation Station
 Pekin, Illinois
 Midwest Generation
 21253 022

PATRICK GROUNDWATER	Sample Analysis Method	Groundwater Quality Standard (mg/L) Class 1*	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14
			(mg/L) 12/15/10	(mg/L) 2/15/11	(mg/L) 4/26/11	(mg/L) 6/16/11	(mg/L) 8/9/11	(mg/L) 10/13/11	(mg/L) 12/12/11	(mg/L) 4/10/12	(mg/L) 12/15/10	(mg/L) 2/15/11	(mg/L) 4/25/11	(mg/L) 6/14/11	(mg/L) 8/9/11	(mg/L) 10/13/11	(mg/L) 12/12/11	(mg/L) 4/10/12	
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.011	0.0069	0.0063	0.0057	0.0048	0.0066	0.023	0.027	0.024	0.019	0.0084	0.005	0.0062	0.015	0.0033	0.0039	0.0039
Barium	Metals 6020	2.0	0.11	0.052	0.073	0.059	0.046	0.083	0.21	0.14	0.034	0.034	0.036	0.04	0.041	0.04	0.045	0.045	0.045
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	0.0062	0.0042	0.0045	ND	ND	0.01	0.0055	0.0066	ND	0.0046	0.0078	0.0049	0.0076	0.0096	0.0065	0.0057	0.0057
Cobalt	Metals 6020	1.0	0.0031	0.0026	0.0023	0.0022	0.0031	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.65	0.0068	0.0037	0.0041	0.004	0.004	0.0055	0.0066	0.0068	0.0037	0.0035	0.0074	0.0071	0.0064	0.0055	0.025	0.0067	0.0067
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	0.69	0.052	0.077	ND	0.043	ND	0.11	0.2	2.2	0.94	0.036	0.3	0.71	2	0.12	0.77	0.77
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0035
Manganese	Metals 6020	0.15	5	3.8	2.7	2.9	2.6	3.6	3.5	3.5	0.68	0.81	0.29	0.36	0.57	0.84	0.067	0.63	0.63
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.03	0.023	0.021	0.018	0.016	0.015	0.022	0.02	0.015	0.015	0.02	0.016	0.016	0.011	0.015	0.018	0.018
Selenium	Metals 6020	0.05	0.0046	0.0046	0.0045	0.0029	0.0043	0.004	0.0036	0.0037	0.0024	0.0015	0.0046	0.0035	0.005	0.0017	0.0037	0.0022	0.0022
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	0.0019	0.0018	0.0035	0.0039	0.0027	0.0016	0.0016	0.0034	0.0034
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0084
Boron	Metals 6020	2	3.9	3.1	2.6	3.0	2.7	3.0	4.1	4.0	2.0	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.8
Sulfate	Dissolved 9018	400	1,400	770	580	540	440	640	1,100	1,100	960	820	770	810	940	850	860	950	950
Chloride	Dissolved 9251	200	160	120	100	88	110	110	180	170	160	160	160	160	200	200	200	190	190
Nitrogen/Nitrate	Nitrogen Bycals	10	0.14	1.3	1.8	2.2	3.6	1.6	0.07	0.06	0.036	ND	1	0.27	0.05	ND	0.33	0.31	0.31
Total Dissolved Solids	Dissolved 9240C	1,200	2,400	1,400	1,400	1,300	1,100	1,500	2,100	2,300	1,900	1,700	1,800	1,900	2,000	1,800	1,800	2,200	2,200
Fluoride	Dissolved 4506 FC	4	0.28	0.29	0.31	0.34	0.38	0.3	0.3	0.32	1.7	1.6	1.1	1.3	1.4	0.88	1.1	1	1
Radium 226 (pCi/L)	EPA 903.1	20	0.603	0.165	NA	0.741	0	0.342	0.935	0.977	0.577	0.163	NA	0.693	0.924	0.0983	0.857	0.801	0.801
Radium 228 (pCi/L)	EPA 904.0	20	0.988	0.966	0.73	1	0.198	0.74	1.01	0.853	0.944	0.96	0.737	0.947	1.11	-	0.985	0.920	0.920

Notes:
 *Class I Groundwater Standards from 35 IAC Part 620
 Bold values show exceedances of 35 IAC Part 620
 NS-not sampled
 ND- non detect
 mg/L- milligrams per liter

AMENDMENTS

- 0.0066** - Value amended from original Table 3 (May 11, 2012).
- 0.0066** - Value has not changed; font has been changed from bold to normal.
- 0.0066** - Value has not changed; font has been changed from normal to bold.

Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
 PowerGen Generation Station
 Pekin, Illinois
 Midwest Generation
 21253.022

Chemical Name	Sample Analysis Method	Groundwater Quality Standard (mg/L) Class 1*	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15
			(mg/L) 12/15/10	(mg/L) 2/15/11	(mg/L) 4/25/11	(mg/L) 6/14/11	(mg/L) 8/9/11	(mg/L) 10/13/11	(mg/L) 12/12/11	(mg/L) 4/10/12	
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.0099	0.0092	0.0064	0.0052	0.0053	0.011	0.0097	0.0061	
Barium	Metals 6020	2.0	0.058	0.052	0.061	0.11	0.057	0.06	0.063	0.075	
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	
Chromium	Metals 6020	0.1	0.0042	0.0061	0.0092	0.0054	0.0091	0.0062	0.0062	0.0071	
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	ND	
Copper	Metals 6020	0.65	ND	ND	0.0039	0.005	0.0041	0.0037	0.0031	0.0039	
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	
Iron	Metals 6020	5.0	3.3	2.4	2.1	0.7	2.1	2.6	2.1	0.001	
Lead	Metals 6020	0.0075	ND	ND	0.0012	ND	ND	ND	ND	ND	
Manganese	Metals 6020	0.15	0.96	0.42	0.36	0.6	0.37	0.68	0.39	0.25	
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	
Nickel	Metals 6020	0.1	0.013	0.011	0.012	0.015	0.01	0.011	0.011	0.01	
Selenium	Metals 6020	0.05	0.0042	0.0079	0.017	0.004	0.002	0.004	0.0047	0.025	
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	Metals 6020	3.0	ND	ND	ND	ND	ND	ND	ND	ND	
Boron	Metals 6020	2	1.6	1.4	1.5	1.6	1.3	1.2	1.2	1.4	
Sulfate	Dissolved 9038	400	300	220	270	450	250	180	140	200	
Chloride	Dissolved 9251	250	180	190	190	170	210	180	200	200	
Nitrogen/Nitrate	Nitrogen By calc	10	0.03	0.086	0.04	0.07	0.05	ND	0.07	0.12	
Total Dissolved Solids	Dissolved 2540C	1,200	1,000	1,000	1,100	1,400	1,000	800	840	1,000	
Fluoride	Dissolved 4500 FC	4	0.69	0.75	0.6	0.71	0.76	0.77	0.75	0.79	
Radium 226 (pCi/L)	EPA 903.1	20	0.666	0.174	NA	0.946	0.567	0.372	0.979	0.996	
Radium 228 (pCi/L)	EPA 904.0	20	0.902	0.968	0.689	0.983	0.0954	0.704	0.937	0.961	

*Class 1 Groundwater Standards from 35 IAC Part 620
 Bold values show exceedence of 35 IAC Part 620
 NS-not sampled
 ND- non detect
 mg/L- milligrams per liter

AMENDMENTS

- 0.0097** - Value amended from original Table 3 (May 11, 2012).
- 0.0061** - Value has not changed, font has been changed from bold to normal.
- 0.96** - Value has not changed, font has been changed from normal to bold.

ATTACHMENT C

AMENDED FIRST QUARTER 2012 REPORT



May 11, 2012

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Subject: Quarterly Groundwater Monitoring Results – First Quarterly Report 2012
Powerton Generating Station- Ash Impoundment – AMENDED JULY 2012

Reference: Patrick Project No. 21253.022

To Whom It May Concern:

Patrick Engineering Inc. (Patrick) has prepared this letter report, on behalf of Midwest Generation, LLC, to provide the First Quarterly Report 2012 for groundwater monitoring results associated with the on-site ash ponds at the Powerton Generating Station (The Site) located at 13082 East Manito Rd. in Pekin, Illinois (Figure 1). The Site is located along the Illinois River, south and west of the city of Pekin. The surrounding land use consists of the Illinois River to the north, industrial and residential properties to the east, agricultural land to the south, and Lake Powerton to the west. The site contains three active ash ponds. This groundwater monitoring is being performed as part of the long-term monitoring plan described in the Hydrogeologic Assessment Report submitted to the Illinois Environmental Protection Agency (Illinois EPA) in February 2011.

Ten monitoring wells have been installed (MW-1 through MW-10) surrounding the ash impoundments (both former and current) at the Powerton facility. The well locations were selected so that both upgradient and downgradient wells were represented, based upon available data regarding the expected groundwater flow direction (north, toward the Illinois River). Monitoring wells MW-1, MW-9 and MW-10 are installed upgradient of the ash ponds. The well locations are shown on Figure 2.

GROUNDWATER ELEVATIONS

Quarterly groundwater elevations were measured on March 19, 2012 in each of the ten wells prior to sampling. The ash ponds and former ash pond on site were all surveyed on April 4, 2012. Illinois River elevation data is from the USGS stream flow data at Station Number 05568500 located on the Illinois River at Kingston Mines, Illinois. Site groundwater and surface water elevation data is provided in Table 2.

Quarterly Groundwater Monitoring Results – First Quarter 2012
Powerton Generating Station- Ash Impoundment – AMENDED JULY 2012
May 11, 2012

SAMPLING METHODOLOGY

In accordance with the long-term monitoring plan referenced above, water samples are collected quarterly from ten monitoring wells (MW-1 through MW-10) surrounding the ash impoundments at the Powerton facility. These wells were most recently sampled on March 19, 2012.

Groundwater samples were collected from each well with a peristaltic pump, using established low-flow sampling techniques. Temperature, turbidity, conductivity, dissolved oxygen (DO), oxygen reduction potential (ORP), and pH measurements were taken at each of the wells using a portable meter with a flow through cell. All groundwater samples were filtered in the field using a disposable, 0.45µm, in-line filter to allow for the analytical testing of dissolved compounds. Field parameter data is provided in Table 1.

After collection, all samples were immediately placed on ice in a cooler and kept at a temperature no higher than 4° F. The samples were transported to PDC Laboratories, an Illinois-EPA accredited analytical laboratory, in accordance with chain-of-custody procedures to maintain sample integrity. Analytes tested included the inorganic compounds listed in 35 Illinois Administrative Code (IAC) 620.410(a), excluding both radium and the poly-aromatic hydrocarbons (PAHs) listed in 35 IAC 620.410(b). Analytical laboratory results are presented in Table 3 (both current and historical). The laboratory analytical reports provided by PDC Laboratories are provided as Attachment A.

If you have any questions, please contact me at 630-795-7464.

Sincerely,

PATRICK ENGINEERING INC.



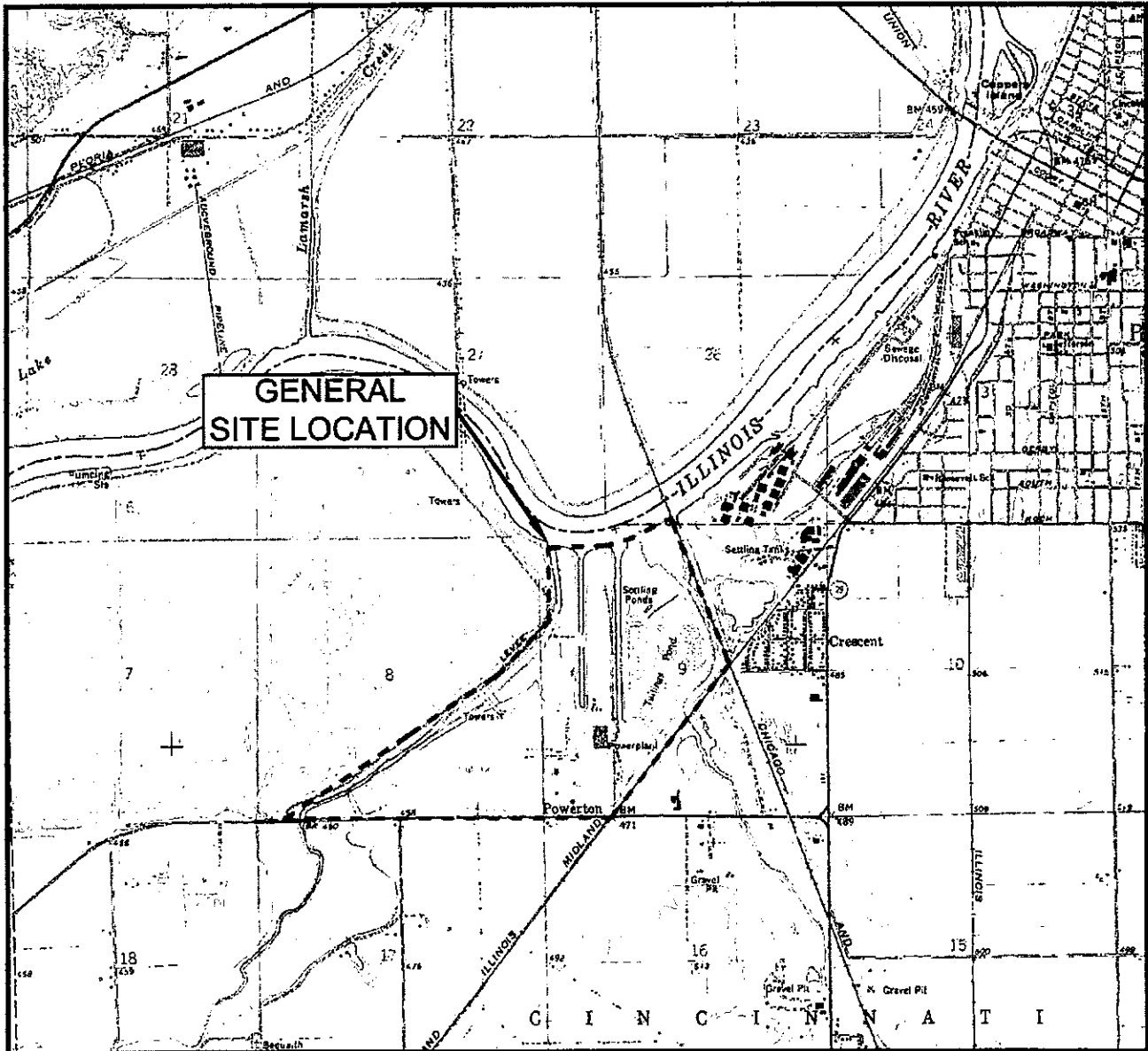
Richard M. Fréndt, P.E.
Senior Project Manager

RMF/dcm

Enclosures: Figure 1: Site Location Map
Figure 2: Monitoring Well Location Map
Figure 3: Groundwater Elevation Map
Table 1: Field Parameter Data
Table 2: Groundwater Elevation Survey Data
Table 3: Groundwater Analytical Results
Attachment A: Laboratory Report

SITE LOCATION MAP

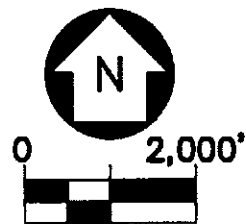
FIGURE 1



LEGEND

--- SITE BOUNDARY

NOTE:
THIS DRAWING WAS PREPARED USING ILLINOIS' PEKIN (1979)
7.5 MINUTE-SERIES TOPOGRAPHIC QUADRANGLE MAP.



GRAPHIC SCALE

Date: JULY 2012

Proj No.: 21253.022

App. By: RMF

**FIGURE 1
SITE LOCATION MAP**

**POWERTON STATION
PEKIN, ILLINOIS**

**PATRICK
ENGINEERING INC.**

4970 Varsity Drive
Lisle, Illinois 60532-4101
PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000409

TEL. (630) 795-7200
FAX (630) 724-1881

MONITORING WELL LOCATION MAP

FIGURE 2



LEGEND

 MW-01 Monitoring Well Location

AERIAL IMAGE SOURCE:
2005 ORTHOPHOTO TAKEN FROM THE ILLINOIS NATURAL RESOURCES
CLEARINGHOUSE

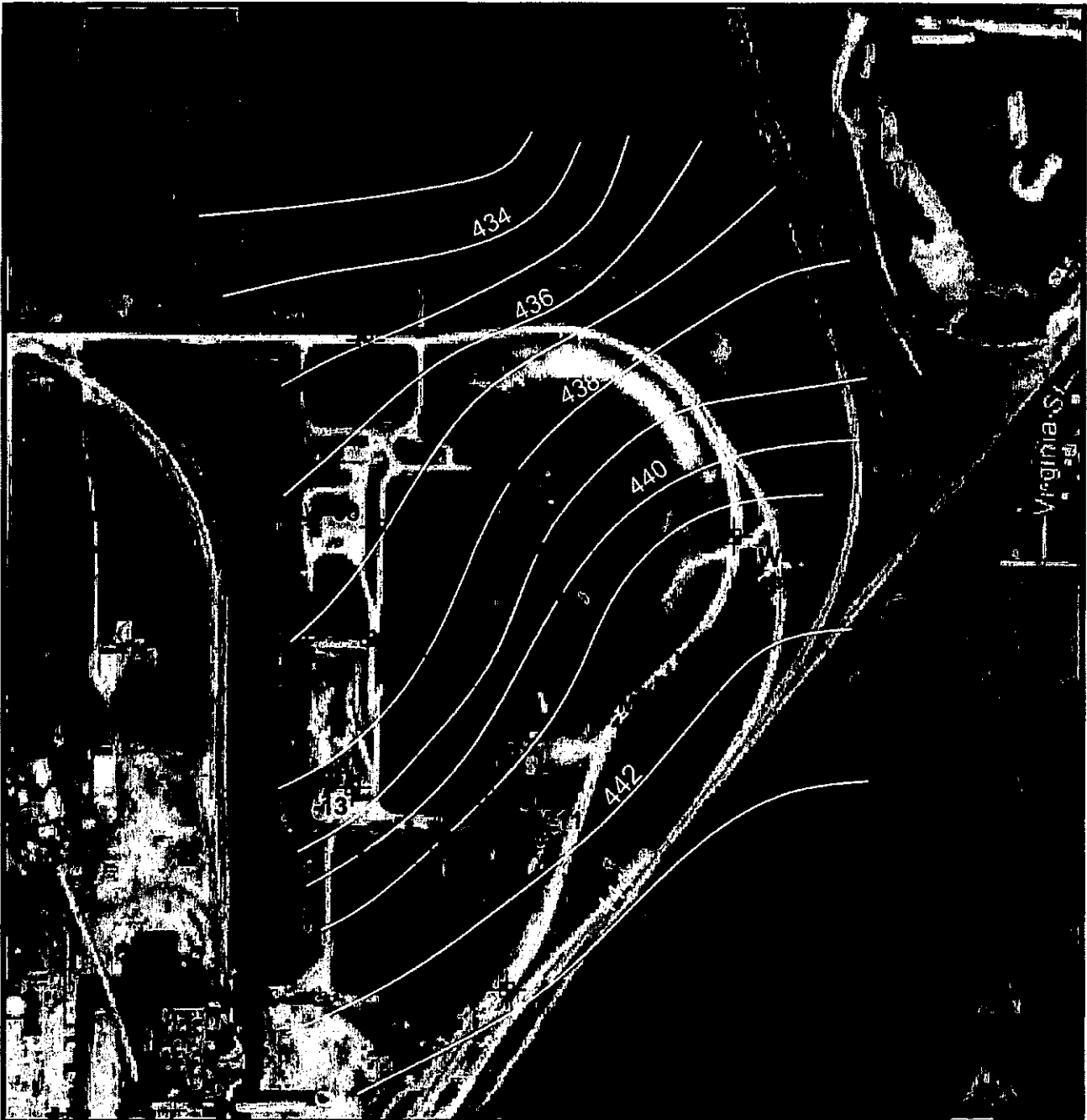


1" = 600'





<p>Date: JULY 2012</p>	<p style="text-align: center;">FIGURE 2 MONITORING WELL LOCATION MAP</p>	<p>PATRICK ENGINEERING INC.</p> <p>4970 Varsity Drive Lisle, Illinois 60532-4101 PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000409</p> <p>TEL (630) 795-7200 FAX (630) 724-1681</p>
<p>Proj No.: 21153.022</p>		
<p>App. By: RMF</p>		

GROUNDWATER ELEVATION MAP

FIGURE 3



LEGEND

- 
MW-01 MONITORING WELL LOCATION SCREENED IN SAND
443.76 GROUNDWATER ELEVATION (FT. / MSL)
- 
MW-06 MONITORING WELL LOCATION SCREENED IN CLAY
- 
GROUNDWATER FLOW DIRECTION
- 
GROUNDWATER ELEVATION CONTOUR (FT. / MSL)

Always consult the project files for the latest revisions and amendments.



1" = 600'

Date: JULY 2012

Proj No.: 21253.022

App. By: RMF

FIGURE 3
GROUNDWATER ELEVATION MAP
POWERTON STATION
PEKIN, ILLINOIS

PATRICK
ENGINEERING INC.

4870 Varsity Drive
 Lisle, Illinois 60532-4101

TEL. (630) 795-7200
 FAX (630) 724-1881

PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000409

FIELD PARAMETER DATA

TABLE 1

Table 1
 Field Parameter Data
 Powerton Station, Pekin, Illinois
 Midwest Generation
 21153.018

Field Parameter Data - Powerton Station								
Monitoring Well	Date	Time	Temperature (°C)	Conductivity (µm/cm)	Turbidity (NTU)	pH	DO (mg/L)	ORP (mV)
MW-1	3/25/2011	8:48	3.97	0.65	105.6	7.67	8.49	131.6
		8:50	3.92	0.64	47.8	7.54	8.30	133.6
		8:52	3.90	0.64	1.9	7.59	7.96	135.9
		8:54	3.88	0.64	47.9	7.46	7.89	137.9
		8:56	3.83	0.64	11.2	7.36	7.96	138.8
		8:58	3.77	0.64	5.0	7.43	7.76	140.1
MW-1	6/16/2011	11:50	11.36	0.70	1.38	7.91	5.48	183.70
		11:52	10.30	0.67	1.42	7.68	4.75	205.10
		11:54	9.85	0.69	1.39	7.61	4.73	209.80
		11:56	9.80	0.69	1.57	7.60	4.82	208.90
		11:58	9.73	0.69	1.64	7.59	4.74	209.80
		12:00	9.71	0.69	1.71	7.58	4.61	209.80
MW-1	9/20/2011	13:54	18.42	0.74	2.38	7.43	4.76	-101
		13:56	18.40	0.74	2.75	7.40	4.65	-96
		13:58	18.41	0.74	1.78	7.40	4.67	-96
		14:00	18.42	0.74	1.05	7.39	4.66	-97
		14:02	18.41	0.74	1.11	7.39	4.70	-97
		14:04	18.42	0.74	1.69	7.37	4.57	-98
MW-1	12/12/2011	13:44	11.39	0.25	24.34	6.15	5.69	-28
		13:46	11.17	0.57	47.80	6.34	5.16	-6
		13:48	10.98	0.57	10.10	6.37	5.17	3
		13:50	10.86	0.56	7.06	6.38	5.18	7
		13:52	10.84	0.56	5.85	6.38	5.21	10
		13:54	10.85	0.56	13.01	6.39	5.21	13
MW-1	3/19/2012	9:06	8.58	0.57	551.30	7.80	8.22	217
		9:08	7.79	0.54	135.00	7.64	8.10	225
		9:10	7.30	0.53	425.20	7.62	8.20	230
		9:12	6.86	0.53	514.10	7.62	8.31	235
		9:14	7.16	0.53	68.67	7.60	8.29	239
		9:16	7.33	0.53	376.30	7.59	8.46	242
MW-2	3/25/2011	11:45	3.26	0.74	814.3	7.78	7.78	124.5
MW-2	6/16/2006	6:56	13.23	0.76	0.34	7.74	0.77	202.7
		6:58	13.22	0.75	1.26	7.2	0.63	224.6
		7:00	13.18	0.75	1.53	7.1	0.60	228.8
		7:02	13.17	0.75	2.93	7.08	0.58	230
		7:04	13.19	0.75	1.06	7.15	0.57	227.8
		7:06	13.14	0.75	1.37	7.2	0.58	226.3
MW-2	9/20/2011	9:20	15.27	0.68	27.69	7.58	0.46	-170
		9:22	15.22	0.68	16.67	7.53	0.36	-186
		9:24	15.02	0.65	8.41	7.52	0.34	-188
		9:26	14.87	0.64	3.21	7.51	0.32	-188
		9:28	14.82	0.64	1.73	7.51	0.28	-192
		9:30	14.75	0.64	0.73	7.52	0.28	-196
MW-2	12/12/2011	9:34	9.00	0.62	29.25	6.8	4.57	16
		9:36	9.29	0.59	57.30	6.56	3.54	40
		9:38	9.48	0.59	47.01	6.48	3.42	50
		9:40	9.59	0.59	25.45	6.44	3.41	57
		9:42	9.57	0.59	31.12	6.41	3.46	61
		9:44	9.58	0.59	10.87	6.41	3.34	63
MW-2	3/19/2012	9:54	10.46	0.58	473.40	7.93	4.67	262
		9:56	10.00	0.57	262.80	7.9	3.98	264
		9:58	9.75	0.57	70.35	7.91	3.94	266
		10:00	9.55	0.56	159.80	7.91	3.92	268
		10:02	9.43	0.56	28.83	7.91	3.96	271
		10:04	9.56	0.56	5.42	7.92	3.91	272

Table J
 Field Parameter Data
 Powerton Station, Pekin, Illinois
 Midwest Generation
 21153.018

Field Parameter Data - Powerton Station								
Monitoring Well	Date	Time	Temperature (°C)	Conductivity (µm/cm²)	Turbidity (NTU)	pH	DO (mg/L)	ORP (mV)
MW-3	3/25/2011	11:12	5.24	0.74	347.5	7.55	7.20	135.1
MW-3	6/16/2011	7:41	15.85	0.74	1.10	7.65	2.00	218.0
		7:43	15.72	0.73	1.72	7.40	0.53	211.0
		7:45	15.71	0.73	2.24	7.36	0.48	213.4
		7:47	15.72	0.73	2.43	7.33	0.44	216.9
		7:49	15.72	0.73	2.21	7.33	0.41	219.5
		7:51	15.72	0.73	2.09	7.33	0.40	220.5
MW-3	9/20/2011	9:58	21.41	0.76	12.68	7.36	0.56	-152
		10:00	21.38	0.76	6.06	7.35	0.37	-196
		10:02	21.50	0.76	2.30	7.34	0.35	-208
		10:04	21.61	0.76	34.58	7.32	0.34	-214
		10:06	21.60	0.76	14.04	7.31	0.33	-216
		10:08	21.59	0.76	5.31	7.30	0.32	-218
MW-3	12/12/2011	10:10	17.20	0.69	17.40	6.96	1.86	45
		10:12	17.65	0.70	28.96	6.65	1.25	35
		10:14	18.02	0.71	6.13	6.60	1.07	31
		10:16	18.35	0.71	6.89	6.59	1.00	29
		10:18	18.56	0.72	27.59	6.59	0.98	28
		10:20	18.58	0.72	3.72	6.58	0.99	29
MW-3	3/19/2012	10:54	15.62	0.65	330.60	7.57	5.30	271
		10:56	15.50	0.65	569.30	7.43	4.77	262
		10:58	15.51	0.65	255.60	7.41	4.70	226
		11:00	15.55	0.65	11.61	7.39	4.67	202
		11:02	15.51	0.65	480.30	7.39	4.67	163
		11:04	15.50	0.65	12.67	7.38	4.95	157
MW-4	3/25/2011	10:43	13.33	1,299.60	7.5	7.48	3.93	116.5
MW-4	6/16/2011	8:32	17.80	0.76	0.56	7.55	1.92	213.8
		8:34	17.64	0.76	0.71	7.35	0.48	204.8
		8:36	17.56	0.75	0.63	7.29	0.34	204
		8:38	17.59	0.76	0.48	7.27	0.30	203.8
		8:40	17.58	0.76	0.52	7.27	0.29	203.1
		8:42	17.54	0.75	0.57	7.26	0.26	202.6
MW-4	9/20/2011	10:40	19.19	0.92	7.28	7.22	0.53	-115
		10:42	19.18	0.92	57.99	7.2	0.24	-180
		10:44	19.13	0.92	20.55	7.21	0.21	-207
		10:46	19.06	0.91	8.37	7.23	0.19	-219
		10:48	19.05	0.91	3.67	7.22	0.19	-225
		10:50	19.07	0.91	0.88	7.22	0.18	-228
MW-4	12/12/2011	10:48	15.97	0.75	24.95	6.48	1.08	54
		10:50	16.24	0.76	8.23	6.41	0.40	53
		10:52	16.29	0.76	9.76	6.39	0.29	53
		10:54	16.40	0.76	24.25	6.39	0.25	52
		10:56	16.44	0.76	20.07	6.39	0.22	51
		10:58	16.35	0.76	10.27	6.37	0.20	51
MW-4	3/19/2012	11:40	13.74	0.77	74.70	7.38	2.32	220
		11:42	13.34	0.76	547.40	7.27	1.59	223
		11:44	13.09	0.76	130.30	7.26	1.51	221
		11:46	13.00	0.76	96.58	7.25	1.49	219
		11:48	13.00	0.76	206.30	7.24	1.45	217
		11:50	12.99	0.76	275.30	7.24	1.43	212

Table 1
 Field Parameter Data
 Powerton Station, Pekin, Illinois
 Midwest Generation
 21153.018

Field Parameter Data - Powerton Station								
Monitoring Well	Date	Time	Temperature (°C)	Conductivity (µm/cm²)	Turbidity (NTU)	pH	DO (mg/L)	ORP (mV)
MW-5	3/25/2011	10:13	14.35	1.16	119.0	7.36	3.95	110.1
MW-5	6/16/2011	9:26	16.30	1.03	1.33	7.67	1.41	155.30
		9:28	16.04	1.00	1.68	7.43	0.17	133.00
		9:30	15.97	1.00	1.47	7.36	0.10	116.00
		9:32	15.93	1.00	1.33	7.33	0.08	97.50
		9:34	15.91	1.00	2.03	7.30	0.07	80.80
		9:36	15.83	1.00	1.94	7.29	0.07	70.50
MW-5	9/20/2011	11:20	16.19	1.23	15.59	7.08	0.74	-106
		11:22	16.08	1.22	3.47	7.03	0.11	-193
		11:24	15.91	1.22	2.46	7.03	0.08	-236
		11:26	15.83	1.21	2.53	7.03	0.07	-257
		11:28	15.82	1.21	1.76	7.04	0.06	-267
		11:30	15.80	1.21	5.33	7.05	0.06	-274
MW-5	12/12/2011	11:28	15.17	1.08	73.35	6.34	1.72	31
		11:30	15.35	1.09	74.44	6.44	0.31	-58
		11:32	15.53	1.09	39.60	6.38	0.15	-35
		11:34	15.64	1.10	23.05	6.33	0.09	-17
		11:36	15.68	1.10	13.25	6.30	0.07	-8
		11:38	15.64	1.10	185.40	6.34	0.06	-26
MW-5	3/19/2012	12:28	17.74	0.86	35.63	7.25	1.10	241
		12:30	17.41	0.86	565.70	7.15	0.23	242
		12:32	17.24	0.86	92.07	7.12	0.11	240
		12:34	71.12	0.85	48.92	7.14	0.07	238
		12:36	17.09	0.85	94.03	7.13	0.06	238
		12:38	17.03	0.85	43.98	7.14	0.05	237
MW-6	3/25/2011	9:36	15.59	1.60	12.6	7.97	1.19	-114.9
		9:38	15.80	1.62	16.6	7.95	0.60	-127.9
		9:40	16.28	1.62	10.5	7.94	0.43	-132.9
		9:42	16.36	1.63	15.9	7.94	0.29	-133.7
		9:44	16.39	1.63	9.7	7.96	0.35	-136.5
		9:46	16.38	1.63	10.0	7.97	0.24	-137.5
MW-6	6/16/2011	10:12	19.52	1.69	19.32	7.74	0.77	-159.5
		10:14	19.21	1.69	18.71	7.65	0.13	-167.9
		10:16	19.15	1.68	15.36	7.62	0.08	-161.6
		10:18	19.08	1.68	14.42	7.60	0.09	-162
		10:20	18.87	1.68	14.59	7.66	0.09	-161.6
		10:22	18.99	1.68	14.38	7.62	0.08	-161.9
MW-6	9/20/2011	13:10	22.20	1.56	10.07	7.64	8.48	-191
		13:12	22.31	1.56	3.59	7.65	0.15	-214
		13:14	22.41	1.56	4.84	7.64	0.15	-223
		13:16	22.45	1.56	2.78	7.63	0.12	-227
		13:18	22.45	1.56	3.78	7.62	0.10	-232
		13:20	22.40	1.56	2.32	7.61	0.10	-236
MW-6	12/12/2011	13:04	21.60	1.57	15.14	7.46	1.99	-178
		13:06	22.41	1.60	223.10	7.38	0.28	-190
		13:08	22.64	1.61	31.94	7.36	0.15	-192
		13:10	22.84	1.62	10.80	7.36	0.11	-194
		13:12	22.84	1.62	8.64	7.36	0.09	-195
		13:14	22.76	1.62	51.51	7.35	0.08	-196
MW-6	12/12/2011	14:00	21.70	1.56	120.90	7.61	1.12	-144
		14:02	21.28	1.55	220.50	7.65	0.18	-164
		14:04	21.15	1.55	3018.00	7.67	0.09	-170
		14:06	21.10	1.55	1097.00	7.68	0.06	-173
		14:08	21.01	1.54	66.85	7.68	0.04	-175
		14:10	20.99	1.54	113.70	7.68	0.03	-176

Table 1
 Field Parameter Data
 Powerton Station, Pekin, Illinois
 Midwest Generation
 21153.018

Field Parameter Data - Powerton Station								
Monitoring Well	Date	Time	Temperature (°C)	Conductivity (µm/cm²)	Turbidity (NTU)	pH	DO (mg/L)	ORP (mV)
MW-7	3/25/2011	12:30	15.76	1.88	167.1	7.19	2.32	-70.7
		12:32	15.97	1.96	111.4	7.12	0.73	-79.6
		12:34	16.00	1.99	96.6	7.07	0.93	-79.6
		12:36	16.19	1.99	168.2	7.05	0.65	-80.5
		12:38	16.27	1.98	286.7	7.05	0.37	-81
		12:40	16.47	1.98	200.3	7.04	0.61	-81.6
MW-7	6/16/2011	11:10	18.90	2.06	32.13	6.93	0.88	-92
		11:12	18.66	2.04	29.84	6.81	0.14	-94.7
		11:14	18.52	2.04	27.33	6.76	0.12	-95
		11:16	18.55	2.03	28.10	6.76	0.09	-97.3
		11:18	18.51	2.02	26.54	6.78	0.11	-93.6
		11:20	18.51	2.02	25.91	6.78	0.12	-95.7
MW-7	9/20/2011	12:16	19.53	2.02	36.45	6.84	0.56	-165
		12:18	19.61	2.02	34.56	6.84	0.42	-169
		12:20	19.67	2.02	32.17	6.83	0.39	-167
		12:22	19.61	2.02	31.10	6.83	0.35	-169
		12:24	19.48	2.02	30.40	6.83	0.34	-170
		12:26	19.33	2.02	30.06	6.83	0.34	-171
MW-7	12/12/2011	12:20	16.83	1.93	132.10	6.49	0.59	-157
		12:22	16.59	1.92	82.48	6.48	0.35	-155
		12:24	16.73	1.93	54.39	6.48	0.26	-153
		12:26	16.41	1.91	35.49	6.45	0.21	-149
		12:28	16.22	1.89	30.74	6.44	0.17	-148
		12:30	16.43	1.90	31.22	6.45	0.17	-148
MW-7	12/12/2011	13:14	22.01	2.10	92.87	6.76	0.42	-137
		13:16	21.88	2.10	140.80	6.77	0.31	-139
		13:18	21.67	2.10	329.10	6.78	0.23	-140
		13:20	21.49	2.07	200.30	6.78	0.17	-141
		13:22	21.27	2.05	910.90	6.79	0.15	-141
		13:24	21.06	2.04	304.60	6.79	0.13	-141
MW-8	3/25/2011	13:26	17.70	1.67	21.1	8.21	1.08	-182.4
		13:28	17.92	1.68	50.3	8.15	1.38	-180
		13:30	17.84	1.68	152.0	8.16	0.32	-185.1
		13:32	18.00	1.67	96.0	8.17	0.27	-187.3
		13:34	17.95	1.67	43.4	8.17	0.35	-188.8
		13:36	18.15	1.67	1340.5	8.17	0.25	-190.8
MW-8	6/16/2011	16:57	19.53	1.65	9.16	8.04	2.17	-175.6
		16:59	18.99	1.63	9.92	7.91	0.18	-190.1
		17:01	18.92	1.62	9.74	7.68	0.09	-179.2
		17:03	18.85	1.61	9.32	7.62	0.08	-163.2
		17:05	18.83	1.61	7.12	7.63	0.08	-176.3
		17:07	18.82	1.61	8.89	7.66	0.08	-181.5
MW-8	9/20/2011	17:42	18.30	1.41	10.17	8.22	0.60	-223
		17:44	18.19	1.40	6.15	8.22	0.11	-252
		17:46	18.05	1.40	18.64	8.23	0.07	-257
		17:48	18.00	1.40	15.24	8.23	0.06	-263
		17:50	17.96	1.40	6.82	8.24	0.05	269
		17:52	17.95	1.40	38.31	8.24	0.05	-271
MW-8	12/12/2011	17:04	18.71	1.45	17.61	7.98	1.11	-215
		17:06	19.03	1.47	15.17	7.89	0.23	-228
		17:08	19.21	1.48	9.93	7.86	0.11	-233
		17:10	18.72	1.46	68.11	7.84	0.06	-235
		17:12	19.04	1.48	20.60	7.87	0.05	-237
		17:14	19.20	1.47	114.20	7.87	0.03	-238
MW-8	3/19/2012	17:58	20.59	1.59	715.10	7.9	0.91	-198
		18:00	20.22	1.58	384.30	7.94	0.17	-213
		18:02	19.95	1.58	240.70	7.96	0.09	-219
		18:04	19.85	1.57	152.30	7.97	0.05	-220
		18:06	19.77	1.57	218.50	7.97	0.04	-221
		18:08	19.73	1.57	43.30	7.97	0.03	-222

Table 1
 Field Parameter Data
 Powerton Station, Pekin, Illinois
 Midwest Generation
 21153.018

Field Parameter Data - Powerton Station								
Monitoring Well	Date	Time	Temperature (°C)	Conductivity (µs/cm ²)	Turbidity (NTU)	pH	DO (mg/L)	ORP (mV)
MW-9	3/25/2011	7:17	12.71	0.83	16.4	7.45	1.92	67.2
		7:19	12.82	0.84	61.5	7.36	0.85	53.7
		7:21	13.01	0.84	13.8	7.33	0.76	46.7
		7:23	13.07	0.85	60.0	7.33	0.42	33
		7:25	13.06	0.84	105.9	7.32	0.33	32
		7:27	13.16	0.85	22.9	7.34	0.39	-5
MW-9	6/16/2011	7:29	13.19	0.85	112.7	7.34	0.27	21.2
		13:30	16.28	0.85	3.96	7.63	5.10	144.4
		13:32	14.96	0.85	3.78	7.34	0.81	131.7
		13:34	14.78	0.84	3.51	7.24	0.50	143.2
		13:36	14.73	0.84	3.49	7.16	0.51	148.5
		13:38	14.61	0.84	3.11	7.11	0.49	149.2
MW-9	9/20/2011	13:40	14.51	0.84	2.97	7.10	0.49	148.2
		13:50	14.46	0.66	9.06	7.41	0.63	-124
		13:52	14.38	0.66	4.02	7.35	0.25	-200
		13:54	14.23	0.66	1.61	7.34	0.21	-237
		13:56	14.23	0.66	2.51	7.33	0.18	-255
		13:58	14.11	0.66	2.53	7.32	0.18	-263
MW-9	12/12/2011	13:40	14.08	0.66	4.55	7.32	0.16	-268
		13:14	14.11	0.66	7.26	6.53	1.21	11
		13:16	14.35	0.66	6.12	6.39	0.32	16
		13:18	14.46	0.66	26.63	6.33	0.18	19
		13:20	14.52	0.66	10.90	6.32	0.13	19
		13:22	14.52	0.66	17.83	6.3	0.09	20
MW-9	12/12/2011	13:24	14.56	0.66	13.35	6.31	0.08	20
		15:48	19.60	0.76	514.90	7.4	0.54	129
		15:50	18.94	0.75	14.23	7.32	0.21	108
		15:52	18.40	0.74	799.20	7.29	0.14	93
		15:54	18.16	0.73	15.82	7.32	0.10	81
		15:56	18.17	0.73	5895.00	7.3	0.09	76
MW-10	3/25/2011	15:58	18.11	0.73	337.40	7.28	0.70	68
		8:04	11.86	0.91	16.5	7.08	1.27	113.3
		8:06	11.94	0.91	14.0	7.03	0.75	109.9
		8:08	12.00	0.92	13.0	7.02	0.52	108.6
		8:10	12.04	0.91	11.3	7.01	0.32	107.7
		8:12	12.04	0.92	8.7	7.01	0.51	107
MW-10	6/16/2011	8:14	11.98	0.92	9.5	7.01	0.29	106.4
		12:44	14.82	1.09	2.43	7.16	1.46	117.7
		12:46	14.46	1.06	2.29	6.96	0.18	126.8
		12:48	14.38	1.05	2.26	6.91	0.11	131.9
		12:50	14.36	1.05	1.73	6.89	0.10	134.8
		12:52	14.24	1.04	1.14	6.88	0.08	133.4
MW-10	9/20/2011	12:54	14.25	1.04	1.09	6.88	0.08	132.3
		14:48	12.36	0.63	21.30	7.24	1.75	-127
		14:50	12.09	0.63	11.05	7.03	0.08	-180
		14:52	11.86	0.62	8.74	7.01	0.04	-224
		14:54	11.78	0.62	6.77	7.03	0.03	-260
		14:56	11.74	0.62	5.75	7.04	0.02	-283
MW-10	12/12/2011	14:58	11.76	0.62	4.52	7.04	0.02	-297
		14:32	11.30	0.64	28.42	6.05	3.00	10
		14:34	11.16	0.65	26.76	6.03	0.49	20
		14:36	11.11	0.65	24.55	6.03	0.20	22
		14:38	11.09	0.65	20.33	6.03	0.11	23
		14:40	11.06	0.65	21.34	6.03	0.07	23
MW-10	12/12/2011	14:42	11.05	0.65	27.05	6.03	0.04	23
		15:08	16.25	0.73	57.32	7.25	1.37	118
		15:10	15.15	0.72	20.82	7.06	0.19	118
		15:12	14.75	0.71	21.70	7.04	0.08	117
		15:14	14.65	0.71	54.83	7.03	0.05	116
		15:16	14.57	0.71	25.37	7.03	0.03	117
		15:18	14.51	0.71	33.91	7.03	0.02	118

Notes:
 °C degrees Celsius
 µs/cm² Microsiemens/Centimeters
 NTU Nephelometric Turbidity Units
 mg/L milligrams/Liter
 mV millivolts

GROUNDWATER ELEVATION SURVEY DATA

TABLE 2

Table 2
Groundwater Elevation Survey Data
 Powerton Station, Pekin, Illinois
 Midwest Generation
 21253.022

	Date	Water Elevation	Depth to Water Pre-Purge	Depth to Water Pre-Sampling	Water Elevation Pre-Sampling	Depth to Bottom of Well	Bottom of Well Elevation	Ground Elevation	Top of Riser Elevation
MONITORING WELLS									
MW-1	3/25/2011	445.129	19.93	19.93	445.129	34.09	430.969	461.667	465.059
	6/16/2011	447.519	17.54	12.54	452.519	34.09	430.969	461.667	465.059
	9/15/2011	439.949	25.11	25.13	439.929	34.09	430.969	461.667	465.059
	12/12/2011	439.779	25.28	25.28	439.779	34.09	430.969	461.667	465.059
	3/19/2012	442.399	22.66	22.66	442.399	34.09	430.969	461.667	465.059
4/4/2012	441.389	23.67	NA	NA	34.09	430.696	461.667	465.059	
MW-2	3/25/2011	443.402	19.02	19.06	443.362	37.11	425.312	459.246	462.422
	6/16/2011	447.182	15.24	15.24	447.182	37.11	425.312	459.246	462.422
	9/15/2011	433.272	29.15	29.15	433.272	37.11	425.312	459.246	462.422
	12/12/2011	434.782	27.64	27.64	434.782	37.11	425.312	459.246	462.422
	3/19/2012	437.482	24.94	24.94	437.482	37.11	425.312	459.246	462.422
4/4/2012	436.922	25.50	NA	NA	37.11	425.312	459.246	462.422	
MW-3	3/25/2011	444.084	18.26	18.26	444.084	37.29	425.054	459.098	462.344
	6/16/2011	447.254	15.09	15.09	447.254	37.29	425.054	459.098	462.344
	9/15/2011	432.734	29.61	29.62	432.724	37.29	425.054	459.098	462.344
	12/12/2011	433.884	28.46	28.46	433.884	37.29	425.054	459.098	462.344
	3/19/2012	436.944	25.40	25.40	436.944	37.29	425.054	459.098	462.344
4/4/2012	435.674	26.67	NA	NA	37.29	425.054	459.098	462.344	
MW-4	3/25/2011	443.219	17.26	17.26	443.219	37.09	423.389	457.290	460.479
	6/16/2011	446.129	14.35	14.34	446.139	37.09	423.389	457.290	460.479
	9/15/2011	431.629	28.85	28.85	431.629	37.09	423.389	457.290	460.479
	12/12/2011	433.279	27.20	27.20	433.279	37.09	423.389	457.290	460.479
	3/19/2012	434.929	25.55	25.55	434.929	37.09	423.389	457.290	460.479
4/4/2012	434.149	26.33	NA	NA	37.09	423.389	457.290	460.479	
MW-5	3/25/2011	443.421	15.16	15.15	443.431	34.79	423.791	455.799	458.581
	6/16/2011	446.961	11.62	11.62	446.961	34.79	423.791	455.799	458.581
	9/15/2011	432.771	25.81	25.81	432.771	34.79	423.791	455.799	458.581
	12/12/2011	434.131	24.45	24.45	434.131	34.79	423.791	455.799	458.581
	3/19/2012	435.711	22.87	22.86	435.721	34.79	423.791	455.799	458.581
4/4/2012	434.931	23.65	NA	NA	34.79	423.791	455.799	458.581	
MW-6	3/25/2011	446.706	17.76	17.75	446.716	32.60	431.866	461.224	464.466
	6/16/2011	449.326	15.14	15.16	449.306	32.60	431.866	461.224	464.466
	9/15/2011	445.706	18.76	18.81	445.656	32.60	431.866	461.224	464.466
	12/12/2011	446.296	18.17	18.17	446.296	32.60	431.866	461.224	464.466
	3/19/2012	446.166	18.30	18.30	446.166	32.60	431.866	461.224	464.466
4/4/2012	445.806	18.66	NA	NA	32.60	431.866	461.224	464.466	
MW-7	3/25/2011	443.347	19.88	23.37	439.857	40.11	423.117	459.647	463.227
	6/16/2011	446.837	16.39	18.26	444.967	40.11	423.117	459.647	463.227
	9/15/2011	433.397	29.83	29.83	433.397	40.11	423.117	459.647	463.227
	12/12/2011	434.637	28.59	29.50	433.727	40.11	423.117	459.647	463.227
	3/19/2012	436.037	27.19	28.05	435.177	40.11	423.117	459.647	463.227
4/4/2012	435.097	28.13	NA	NA	40.11	423.117	459.647	463.227	
MW-8	3/25/2011	447.733	24.00	24.00	447.733	33.55	438.183	468.698	471.733
	6/16/2011	449.263	22.47	22.47	449.263	33.55	438.183	468.698	471.733
	9/15/2011	446.763	24.97	24.96	446.773	33.55	438.183	468.698	471.733
	12/12/2011	446.853	24.88	24.88	446.853	33.55	438.183	468.698	471.733
	3/19/2012	447.663	24.07	24.07	447.663	33.55	438.183	468.698	471.733
4/4/2012	447.273	24.46	NA	NA	33.55	438.183	468.698	471.733	
MW-9	3/25/2011	447.136	22.05	22.06	447.126	35.15	434.056	466.214	469.186
	6/16/2011	449.306	19.88	19.89	449.296	35.13	434.056	466.214	469.186
	9/15/2011	443.636	25.55	25.55	443.636	35.13	434.056	466.214	469.186
	12/12/2011	443.076	26.11	26.11	443.076	35.13	434.056	466.214	469.186
	3/19/2012	443.776	25.41	25.41	443.776	35.13	434.056	466.214	469.186
4/4/2012	443.486	25.70	NA	NA	35.13	434.056	466.214	469.186	
MW-10	3/25/2011	445.426	11.96	11.96	445.426	32.50	424.886	454.093	457.386
	6/16/2011	447.776	9.61	9.62	447.766	32.50	424.886	454.093	457.386
	9/15/2011	439.986	17.40	17.41	439.976	32.50	424.886	454.093	457.386
	12/12/2011	440.006	17.38	17.38	440.006	32.50	424.886	454.093	457.386
	3/19/2012	442.026	15.36	15.36	442.026	32.50	424.886	454.093	457.386
4/4/2012	441.056	16.33	NA	NA	32.50	424.886	454.093	457.386	
MW-11	2/15/2011	440.779	30.81	30.82	440.769	43.65	427.939	468.074	471.589
	6/16/2011	448.199	23.39	23.40	448.189	43.65	427.939	468.074	471.589
	9/19/2011	440.489	31.10	31.10	440.489	43.65	427.939	468.074	471.589
	12/12/2011	440.509	31.08	31.09	440.499	43.65	427.939	468.074	471.589
	3/19/2012	441.629	29.96	29.99	441.599	43.65	427.939	468.074	471.589
MW-12	2/15/2011	450.390	22.99	23.01	450.370	32.57	440.810	469.999	473.380
	6/16/2011	451.180	22.20	22.20	451.180	32.57	440.810	469.999	473.380
	9/19/2011	449.880	23.50	23.50	449.880	32.57	440.810	469.999	473.380
	12/12/2011	450.030	23.35	23.35	450.030	32.57	440.810	469.999	473.380
	3/19/2012	451.180	22.20	22.20	451.180	32.57	440.810	469.999	473.380

ASH POND ELEVATION DATA

ASH POND	DATE	ELEVATION
AP-1	4/4/2012	450.90
AP-2	4/4/2012	483.48
AP-3	4/4/2012	483.77
Cooling Lake	4/4/2012	440.65
Illinois River	4/4/2012	434.28

Notes: - Elevations are leveled from site control points per Drawing "Control Network, IL State Plane (West Zone)
 - Powerton Station" revised 10/22/2010
 - Elevations are shown in feet

GROUNDWATER ANALYTICAL RESULTS

TABLE 3

Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
 Powerton Generation Station
 Pekin, Illinois
 Midwest Generation
 21253.022

PATRICK ANALYTICAL	Sample Analysis Method	Groundwater Quality Standard (mg/L) Class I*	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
			12/29/10	3/25/11	4/16/11	9/19/11	12/12/11	3/19/12	12/15/10	3/23/11	6/16/11	9/19/11	12/12/11	3/19/12	
Chemical Name															
Arsenic	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Arsenic	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	0.0018	0.0015	0.0017	ND	ND	ND	
Barium	Metals 6020	2.0	0.044	0.026	0.034	0.056	0.044	0.038	0.042	0.025	0.053	0.049	0.066	0.049	
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Copper	Metals 6020	0.65	ND	ND	ND	0.0057	ND	ND	ND	ND	ND	ND	ND	ND	
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	0.0077	ND	ND	ND	ND	ND	ND	
Iron	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Manganese	Metals 6020	0.15	ND	ND	ND	ND	ND	ND	ND	0.0012	0.0022	ND	ND	ND	
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Nickel	Metals 6020	0.1	0.01	0.008	ND	0.0069	0.0095	ND	0.0086	0.0096	0.0053	0.01	0.0073	ND	
Selenium	Metals 6020	0.05	0.0016	0.0022	0.0016	0.0036	0.0027	0.0025	0.0017	0.0032	0.0014	0.0032	0.0037	ND	
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013	
Boron	Metals 6020	2	0.45	0.26	0.33	1.0	0.48	0.29	0.38	0.23	0.35	0.83	0.69	0.27	
Sulfate	Dissolved 9038	400	50	30	39	83	31	61	52	42	53	70	69	55	
Chloride	Dissolved 9251	200	46	37	40	41	26	33	45	43	44	46	40	53	
Nitrogen/Nitrate	Nitrogen By calc	10	7.2	4.3	3.7	11	4.1	7.3	7.5	4.5	4.7	4.3	6.9	5.1	
Total Dissolved Solids	Dissolved 2540C	1,200	490	340	410	510	440	470	480	420	470	460	490	440	
Fluoride	Dissolved 4500 FC	4	0.28	0.32	0.38	ND	ND	ND	ND	0.3	0.35	ND	ND	ND	
Radium 226 (pCi/L)	EPA 903.1	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Radium 228 (pCi/L)	EPA 904.0	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	


Notes:
 *Class I Groundwater Standards from 35 IAC Part 620
 Bold values show exceedences of 35 IAC Part 620
 NS-not sampled
 ND- not detect
 mg/L- milligrams per liter

Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
 Poweron Generation Station
 Pekin, Illinois
 Midwest Generation
 21253.022

PATRION ANALYTICAL	Sample Analysis Method	Groundwater Quality Standard (mg/L) Chem #	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
			(mg/L) 12/15/08	(mg/L) 3/25/11	(mg/L) 6/14/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12	(mg/L) 12/15/10	(mg/L) 3/25/11	(mg/L) 6/14/11	(mg/L) 9/19/11	(mg/L) 12/13/11	(mg/L) 3/19/12	
Chemical Base															
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.0017	ND	0.0011	0.0012	0.0012	0.0012	0.0012	ND	ND	ND	ND	ND	ND
Barium	Metals 6020	2.0	0.038	0.03	0.063	0.081	0.076	0.052	0.055	0.052	0.058	0.041	0.048	0.043	
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Calcium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	0.0045	ND	ND	0.0044	ND	ND	
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	0.0026	ND	ND	ND	ND	ND	
Copper	Metals 6020	0.65	ND	ND	ND	0.012	0.0042	ND	ND	ND	ND	0.0033	0.01	ND	
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Iron	Metals 6020	5.0	ND	ND	ND	0.042	ND	ND	ND	ND	0.017	ND	ND	ND	
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Manganese	Metals 6020	0.15	0.0047	0.0023	ND	0.0037	0.0014	ND	ND	ND	ND	ND	ND	ND	
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	0.48	0.41	0.49	0.35	
Nickel	Metals 6020	0.1	0.011	0.0095	ND	0.008	0.0078	ND	0.012	0.012	0.0067	0.011	0.01	0.0055	
Selenium	Metals 6020	0.05	ND	0.0036	0.0015	0.0056	0.0021	0.0057	0.0022	0.0037	0.0022	0.0039	0.002	0.0085	
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	Metals 6020	3.0	ND	ND	ND	ND	ND	ND	0.012	ND	ND	ND	ND	ND	
Boron	Metals 6020	2	0.75	0.18	0.24	0.64	0.7	0.56	0.77	0.83	0.33	0.84	0.79	0.78	
Sulfate	Dissolved 9038	400	64	43	47	66	45	72	110	140	48	61	6.7	160	
Chloride	Dissolved 9251	200	39	52	59	62	39	54	130	77	43	65	8.1	58	
Nitrogen/Nitrate	Nitrogen by calc	10	9.4	5.2	5.4	0.2	0.2	2.1	0.34	0.73	2.7	0.06	0.07	0.65	
Total Dissolved Solids	Dissolved 2540C	1,200	480	430	440	460	480	450	680	630	470	380	520	660	
Fluoride	Dissolved 4500 FC	4	0.3	0.35	0.41	0.35	ND	ND	0.3	0.39	0.43	0.31	ND	ND	
Radium 226 (pCi/L)	EPA 903.1	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Radium 228 (pCi/L)	EPA 904.0	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Notes:
 *Class I Groundwater Standards from 35 IAC Part 620
 Bold values show exceedences of 35 IAC Part 620
 NS-not sampled
 ND- non detected
 mg/L- milligrams per liter

Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
 Powerton Generation Station
 Pekin, Illinois
 Midwest Generation
 21253.022

 Chemical Name	Sample Analyte Method	Groundwater Quality Standard (mg/L) Class 1*	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6
			(mg/L) 12/15/10	(mg/L) 3/25/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12	(mg/L) 12/15/10	(mg/L) 3/25/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12	
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.0011	ND	ND	ND	0.001	ND	0.0042	0.0024	0.0029	0.0031	0.0036	0.002	
Barium	Metals 6020	2.0	0.053	0.048	0.046	0.071	0.065	0.054	0.11	0.092	0.1	0.1	0.12	0.097	
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Calcium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chromium	Metals 6020	0.1	0.0044	0.0042	ND	0.0066	ND	ND	0.006	0.0063	0.0045	0.0085	0.0056	ND	
Cobalt	Metals 6020	1.0	0.0025	0.0023	ND	0.0027	0.0022	ND	ND	ND	ND	ND	ND	ND	
Copper	Metals 6020	0.65	ND	ND	ND	0.0036	0.0051	ND	ND	ND	0.0032	0.0042	ND	0.16	
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Iron	Metals 6020	3.0	0.13	0.05	0.046	0.082	0.036	ND	1.6	1.6	1.7	1.8	1.9	1.7	
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Manganese	Metals 6020	0.15	0.51	0.49	0.48	0.64	0.5	0.34	0.48	0.48	0.63	0.66	0.63	0.61	
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Nickel	Metals 6020	0.1	0.014	0.013	0.0077	0.014	0.014	0.008	0.0091	0.014	0.0078	0.0099	0.0089	ND	
Selenium	Metals 6020	0.05	0.0019	0.003	ND	0.0045	0.0023	0.0028	0.0034	ND	ND	0.0025	0.0033	ND	
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	0.0064	ND	ND	ND	ND	0.049	
Boron	Metals 6020	2	0.95	0.93	0.79	0.79	0.77	0.82	0.5	0.35	0.43	0.61	0.63	0.39	
Sulfate	Dissolved 9038	400	160	170	110	250	170	120	210	250	280	260	170	250	
Chloride	Dissolved 9251	200	150	120	89	160	140	82	180	200	160	210	150	150	
Nitrogen/Nitrate	Nitrogen By calc	10	ND	ND	0.06	ND	ND	1.6	0.037	ND	ND	0.04	0.06	ND	
Total Dissolved Solids	Dissolved 2540C	1,200	740	640	640	890	820	590	990	990	1,100	970	1,000	1,100	
Fluoride	Dissolved 4500 FC	4	0.27	0.36	0.43	0.25	ND	ND	0.65	0.61	0.63	0.64	0.5	0.47	
Radium 226 (pCi/L)	EPA 903.1	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Radium 228 (pCi/L)	EPA 904.0	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Notes:
 *Class 1 Groundwater Standards from 35 IAC Part 620
 Bold values show exceedances of 35 IAC Part 620
 NS-not sampled
 ND- non detect
 mg/L- milligrams per liter

Table 3
 GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
 Powerton Generation Station
 Pekin, Illinois
 Midwest Generation
 21253.022

Parameter	Sample Analysis Method	Groundwater Quality Standard (mg/L) Class 1*	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
			(mg/L) 12/15/10	(mg/L) 3/25/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12	(mg/L) 12/15/10	(mg/L) 3/25/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12
Chemical Noise														
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.026	0.065	0.12	0.18	0.23	0.23	0.0052	0.0039	0.0044	0.0036	0.0052	0.0038
Barium	Metals 6020	2.0	0.55	0.52	0.57	0.57	0.59	0.57	0.11	0.12	0.11	0.11	0.13	0.14
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	0.0026	ND	0.0015	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	0.0084	0.0075	0.0061	0.011	ND	ND	0.0059	0.0081	0.0039	0.0064	0.0053	ND
Cobalt	Metals 6020	1.0	0.017	0.0056	0.007	0.0035	0.006	0.0067	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.65	0.14	ND	ND	ND	ND	ND	ND	ND	0.0036	0.0037	0.01	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	3.0	8	7.5	18	22	26	31	0.56	2.1	1.7	0.97	0.94	2.3
Lead	Metals 6020	0.0075	0.839	ND	0.0014	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	3.5	5.9	6.4	12	12	11	0.15	0.27	0.29	0.18	0.2	0.27
Mercury	Mercury 7470A	0.002	ND	ND	0.0025	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.045	0.021	0.022	0.026	0.022	0.018	0.011	0.013	0.0076	0.007	0.009	0.0054
Selenium	Metals 6020	0.05	0.0043	0.0026	0.0025	0.0073	0.0054	0.0013	0.0036	0.0013	ND	0.0031	0.0036	0.0018
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	0.076	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	0.61	0.44	0.43	0.38	0.34	0.33	0.93	0.72	0.64	0.82	0.82	0.57
Sulfate	Dissolved 9038	400	120	49	25	9.1	3.3	3	160	240	140	200	200	300
Chloride	Dissolved 9251	200	170	200	140	130	81	99	180	210	140	210	190	170
Nitrogen/Nitrate	Nitrogen By calc	10	0.043	0.08	ND	0.31	0.03	ND	ND	ND	0.1	1.6	ND	ND
Total Dissolved Solids	Dissolved 2540C	1,200	860	1,100	1,300	1,300	1,300	1,400	890	990	970	940	990	1,200
Fluoride	Dissolved 4500 FC	4	0.47	0.42	0.58	0.94	0.47	0.54	0.77	0.56	0.81	0.84	0.75	0.7
Radium 226 (pCi/L)	EPA 903.1	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Radium 228 (pCi/L)	EPA 904.0	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
 *Class 1 Groundwater Standards from 35 IAC Part 620
 Bold values show exceedances of 35 IAC Part 620
 NS-not sampled
 ND- not detect
 mg/L- milligrams per liter

Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
 Powerton Generation Station
 Pekin, Illinois
 Midwest Generation
 21253.022

PATRICK ANALYTICAL	Sample Analysis Method	Groundwater Quality Standard (mg/L) Class 1*	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10
			(mg/L) 12/16/10	(mg/L) 2/15/11	(mg/L) 3/25/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12	(mg/L) 12/15/10	(mg/L) 3/25/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12	
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	ND	ND	0.001H	0.0017	ND	0.0012	ND	ND	ND	0.0015	ND	ND	ND	ND
Barium	Metals 6020	2.0	0.038	0.042	0.042	0.038	0.03	0.038	0.035	0.24	0.2K	0.36	0.25	0.26	0.26	0.26
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	ND	0.0026	0.0027	0.0039	0.0025	0.0026	0.0024
Copper	Metals 6020	0.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0041	ND	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	3.0	ND	0.19	0.066	ND	ND	ND	0.014	ND	ND	0.044	ND	ND	ND	ND
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	0.23	0.43	0.45	0.48	0.14	0.26	0.22	2.1	2.8	3.8	2.3	2.3	2.3	2.3
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.01	0.011	0.0093	0.0063	0.0065	0.0088	ND	0.015	0.016	0.013	0.01	0.013	0.0091	
Selenium	Metals 6020	0.05	0.0024	ND	0.0072	0.0017	0.0043	0.0041	0.0072	0.0042	0.0064	0.0043	0.0037	0.0065	0.0056	
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	3.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	2.1	1.9	1.9	1.9	2.5	2.7	2.6	0.48	0.48	0.52	0.42	0.57	0.54	
Sulfate	Dissolved 903H	400	110	99	110	110	130	110	120	62	64	67	64	72	76	
Chloride	Dissolved 9251	200	25	33	2K	2K	30	30	30	40	43	43	49	42	45	
Nitrogen/Nitrate	Nitrogen By Calc	10	2.9	3.7	3.6	5.6	3.7	2.6	5	3	4	2.1	4.5	4.9	6	
Total Dissolved Solids	Dissolved 2540C	1,200	500	470	510	540	500	520	530	530	520	650	470	540	530	
Fluoride	Dissolved 4500 FC	4	ND	0.32	0.31	0.34	0.25	ND	ND	ND	0.3	0.36	ND	ND	ND	
Radium 226 (pCi/L)	EPA 903.1	20	0.673	0.72K	NS	0.955	0.43	0.621	0.592	NS	NS	NS	NS	NS	NS	
Radium 228 (pCi/L)	EPA 904.0	20	0.941	0.983	NS	0.974	0.966	0.966	0.831	NS	NS	NS	NS	NS	NS	

Notes:
 *Class 1 Groundwater Standards from 35 IAC Part 620
 Bold values show exceedences of 35 IAC Part 620
 NS-not sampled
 ND- non detect
 mg/L- milligrams per liter

Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
 Powerton Generation Station
 Pekin, Illinois
 Midwest Generation
 21253.022

PATRICK ANALYTICAL	Sample Analysis Method	Groundwater Quality Standard (mg/L) Class 1*	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12
			(mg/L) 12/16/10	(mg/L) 2/15/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12	(mg/L) 12/15/10	(mg/L) 2/15/11	(mg/L) 6/16/11	(mg/L) 9/19/11	(mg/L) 12/12/11	(mg/L) 3/19/12	
Chemical Name															
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.0021	0.0025	0.0019	0.0016	0.0019	0.0021	0.0088	0.013	0.0064	0.0087	0.0089	0.0042	
Barium	Metals 6020	2.0	0.17	0.11	0.18	0.11	0.11	0.13	0.089	0.11	0.091	0.085	0.09	0.071	
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	ND	0.0056	0.0044	0.0071	0.0047	ND	
Cobalt	Metals 6020	1.0	0.0028	0.0041	0.0024	ND	ND	0.0024	ND	ND	ND	ND	ND	ND	
Copper	Metals 6020	0.65	0.0032	0.0032	0.0043	ND	ND	ND	ND	ND	0.0032	0.0036	0.0031	ND	
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Iron	Metals 6020	3.0	0.44	0.01	0.029	0.018	ND	ND	5.5	6.3	5.6	4	3.1	4.8	
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Manganese	Metals 6020	0.15	3.2	3.6	2.9	2.2	2.5	2.9	0.32	0.58	0.26	0.37	0.25	0.13	
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Nickel	Metals 6020	0.1	0.019	0.016	0.013	0.011	0.013	0.011	0.0096	0.01	0.0072	0.0075	0.0091	0.0075	
Selenium	Metals 6020	0.05	0.0026	0.0015	0.0018	0.004	0.0031	0.0039	0.0026	0.0027	ND	0.0023	0.0034	0.0043	
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	Metals 6020	5.0	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Iron	Metals 6020	2	1.6	1.8	1.6	1.5	1.8	2.3	1.6	1.4	1.3	1.2	1.3	0.92	
Sulfate	Dissolved 9038	400	170	160	210	140	160	130	290	270	350	360	300	310	
Chloride	Dissolved 9251	200	70	66	120	53	87	54	170	180	180	190	210	170	
Nitrogen/Nitrate	Nitrogen by calc	10	0.41	0.17	0.04	0.74	1.5	0.39	ND	ND	0.14	ND	ND	0.04	
Total Dissolved Solids	Dissolved 2540C	1,200	740	710	930	630	730	740	980	1,000	1,100	970	970	1,000	
Fluoride	Dissolved 4500 FC	4	0.53	0.56	0.67	0.58	0.44	0.42	0.71	0.61	0.64	0.74	0.61	0.46	
Radium 226 (pCi/L)	EPA 903.1	20	0.445	0.174	0.929	0.489	0.733	0.621	0.617	0.207	0.893	0.803	0.923	0.445	
Radium 228 (pCi/L)	EPA 904.0	20	0.915	0.967	0.914	0.949	1.03	0.683	0.97	0.973	0.956	0.996	0.952	0.713	

Notes:
 *Class 1 Groundwater Standards from 35 IAC Part 620
 Bold values show exceedances of 35 IAC Part 620
 NS-not sampled
 ND- non detect
 mg/L- milligrams per liter

Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2017
 Powerton Generation Station
 Pekin, Illinois
 Midwest Generation
 21253.022

Chemical Name	Sample Analysis Method	Groundwater Quality Standard (mg/L) Class I*	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14
			(mg/L) 12/15/10	(mg/L) 2/15/11	(mg/L) 4/25/11	(mg/L) 6/16/11	(mg/L) 8/9/11	(mg/L) 10/13/11	(mg/L) 12/12/11	(mg/L) 4/10/12	(mg/L) 12/15/10	(mg/L) 2/15/11	(mg/L) 4/25/11	(mg/L) 6/16/11	(mg/L) 8/9/11	(mg/L) 10/13/11	(mg/L) 12/12/11	(mg/L) 4/10/12	
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.011	0.0069	0.0063	0.0057	0.0048	0.0066	0.023	0.027	0.024	0.019	0.0084	0.005	0.0062	0.015	0.0033	0.0039	
Barium	Metals 6020	2.0	0.11	0.052	0.073	0.059	0.046	0.083	0.21	0.14	0.034	0.034	0.036	0.04	0.041	0.04	0.045	0.045	
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chromium	Metals 6020	0.1	0.0062	0.0042	0.0045	ND	ND	0.01	0.0055	0.0055	ND	0.0046	0.0078	0.0049	0.0076	0.0096	0.0065	0.0057	
Cobalt	Metals 6020	1.0	0.0031	0.0026	0.0023	0.0022	0.0031	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Copper	Metals 6020	0.65	0.0068	0.0037	0.0041	0.004	0.004	0.0055	0.0066	0.0068	0.0037	0.0035	0.0074	0.0071	0.0054	0.0055	0.025	0.0067	
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Iron	Metals 6020	5.0	0.69	0.052	0.077	ND	0.043	ND	0.11	0.2	2.2	0.94	0.036	0.3	0.71	2	0.12	0.77	
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Manganese	Metals 6020	0.15	5	3.8	2.7	2.9	2.6	3.6	3.5	3.5	0.68	0.81	0.29	0.36	0.57	0.34	0.067	0.63	
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Nickel	Metals 6020	0.1	0.01	0.023	0.021	0.018	0.016	0.015	0.022	0.02	0.015	0.015	0.02	0.016	0.016	0.011	0.015	0.018	
Selenium	Metals 6020	0.05	0.0046	0.0046	0.0045	0.0029	0.0056	0.004	0.0036	0.0037	0.0024	0.0015	0.0045	0.0035	0.003	0.0017	0.0037	0.022	
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	0.0019	0.0018	0.0035	0.0039	0.0027	0.0016	0.0016	0.0034	
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0084	
Boron	Metals 6020	2	3.9	3.1	2.4	3.8	2.7	3.8	4.1	4.8	2.0	1.9	1.9	1.9	1.8	1.9	1.9	1.8	
Sulfate	Dissolved 9038	400	1,400	778	560	540	440	660	1,100	1,100	960	820	778	810	940	850	880	990	
Chloride	Dissolved 9251	200	160	120	100	86	110	110	180	170	160	160	160	160	240	200	200	190	
Nitrogen/Nitrate	Nitrogen by calc	10	0.14	1.3	1.8	2.2	3.6	1.6	0.07	0.06	0.036	ND	1	0.27	0.05	ND	0.33	0.31	
Total Dissolved Solids	Dissolved 2540C	1,200	2,600	1,600	1,400	1,300	1,100	1,500	2,100	2,300	1,800	1,700	1,800	1,900	2,000	1,800	1,800	2,300	
Fluoride	Dissolved 4500 FC	4	0.28	0.29	0.31	0.44	0.38	0.3	ND	0.32	1.7	1.6	1.1	1.3	1.4	0.88	1.1	1	
Radium 226 (pCi/L)	EPA 903.1	20	0.603	0.165	NA	0.741	0	0.444	0.935	0.678	0.577	0.163	NA	0.893	0.474	0.0683	0.857	0.601	
Radium 228 (pCi/L)	EPA 904.0	20	0.988	0.966	0.73	1	0.198	0.74	1.01	0.883	0.944	0.96	0.737	0.947	1.1	-	0.935	0.929	

Notes:
 *Class I Groundwater Standards from 35 IAC Part 620
 Bold values show exceedances of 35 IAC Part 620
 NS-not sampled
 ND-not detect
 mg/L - milligrams per liter

Table 3
 GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
 Powerton Generation Station
 Pekin, Illinois
 Midwest Generation
 21253.022

PATRICK ANALYTICAL LABORATORIES	Sample Analyte Method	Groundwater Quality Standard (mg/L) Class 1*	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15
			(mg/L) 12/15/10	(mg/L) 2/15/11	(mg/L) 4/15/11	(mg/L) 6/16/11	(mg/L) 8/9/11	(mg/L) 10/13/11	(mg/L) 12/12/11	(mg/L) 4/10/12
Chemical Name										
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.0099	0.0092	0.0064	0.0032	0.0033	0.011	0.0097	0.0061
Barium	Metals 6020	2.0	0.058	0.052	0.061	0.11	0.057	0.06	0.063	0.075
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	0.0042	0.0061	0.0092	0.0034	0.0091	0.0062	0.0062	0.0071
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.65	ND	ND	0.0039	0.005	0.0041	0.0037	0.0031	0.0039
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	3.3	2.4	2.1	0.7	2.1	2.6	2.1	0.0011
Lead	Metals 6020	0.0075	ND	ND	0.0012	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	0.54	0.42	0.36	0.6	0.37	0.48	0.39	0.25
Mercury	Mercury 7410A	0.002	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.013	0.011	0.012	0.015	0.01	0.011	0.011	0.01
Selenium	Metals 6020	0.05	0.0042	0.0079	0.017	0.004	0.002	0.004	0.0047	0.025
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	3.0	ND	ND	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	1.6	1.4	1.5	1.8	1.3	1.2	1.2	1.4
Sulfate	Dissolved 9038	400	300	230	270	438	250	180	140	200
Chloride	Dissolved 9251	200	180	190	190	170	210	180	200	200
Nitrogen/Nitrate	Nitrogen by calc	10	0.03	0.06	0.04	0.07	0.05	ND	0.07	0.12
Total Dissolved Solids	Dissolved 2540C	1,200	1,000	1,000	1,100	1,400	1,000	890	840	1,000
Fluoride	Dissolved 4500 FC	4	0.69	0.75	0.6	0.73	0.76	0.77	0.75	0.79
Radium 226 (pCi/L)	EPA 903.1	20	0.666	0.174	NA	0.946	0.567	0.372	0.979	0.508
Radium 228 (pCi/L)	EPA 904.0	20	0.902	0.968	0.689	0.983	0.0934	1.04	0.937	0.901

Notes:
 *Class 1 Groundwater Standards from 35 IAC Part 620
 Bold values show exceedences of 35 IAC Part 620
 NS-not sampled
 ND- non detect
 mg/L- milligrams per liter

ATTACHMENT A

LABORATORY DATA



PDC Laboratories, Inc.
 P.O. Box 9071 • Peoria, IL 61612-9071
 (309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689



Midwest Generation - Powerton Facility
 13082 E Manito Rd
 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 03/20/12 8:00
 Report Date: 04/10/12
 Customer #: 233203
 PO#: 4500092946

Laboratory Results

Sample No: 2032097-01
 Sample Description: MW #1

Collect Date: 03/19/12 09:20
 Matrix: Ground Water

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
General Chemistry - PIA						
Cyanide	0.0077 mg/L		03/26/12 14:41	03/26/12 15:38	Igth	335.4
Solids - total dissolved solids (TDS)	470 mg/L		03/23/12 09:35	03/23/12 10:48	BNS	SM 2540C 18Ed
Soluble Anions - PIA						
Chloride	53 mg/L		03/20/12 11:43	03/20/12 11:43	PLI	EPA 300.0 R2.1
Fluoride	< 0.25 mg/L		03/20/12 11:28	03/20/12 11:28	PLI	EPA 300.0 R2.1
Nitrate-N	7.3 mg/L		03/20/12 11:43	03/20/12 11:43	PLI	EPA 300.0 R2.1
Sulfate	61 mg/L		03/20/12 11:43	03/20/12 11:43	PLI	EPA 300.0 R2.1
Soluble Metals - PIA						
Antimony	< 3.0 ug/L		03/27/12 10:34	03/28/12 07:43	JMW	SW 6020
Arsenic	< 1.0 ug/L		03/27/12 10:34	03/28/12 07:43	JMW	SW 6020
Barium	38 ug/L		03/27/12 10:34	03/28/12 07:43	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/27/12 10:34	03/28/12 13:47	JMW	SW 6020
Boron	290 ug/L		03/27/12 10:34	03/29/12 08:28	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/27/12 10:34	03/28/12 07:43	JMW	SW 6020
Chromium	< 4.0 ug/L		03/27/12 10:34	03/28/12 07:43	JMW	SW 6020
Cobalt	< 2.0 ug/L		03/27/12 10:34	03/28/12 07:43	JMW	SW 6020
Copper	< 3.0 ug/L		03/27/12 10:34	03/28/12 07:43	JMW	SW 6020
Iron	< 0.010 mg/L		03/29/12 10:03	03/29/12 12:30	KJP	SW 6010B
Lead	< 1.0 ug/L		03/27/12 10:34	03/28/12 07:43	JMW	SW 6020
Manganese	< 1.0 ug/L		03/27/12 10:34	03/28/12 07:43	JMW	SW 6020
Mercury	< 0.20 ug/L		03/27/12 10:34	03/28/12 07:43	JMW	SW 6020
Nickel	< 5.0 ug/L		03/27/12 10:34	03/28/12 07:43	JMW	SW 6020
Selenium	2.5 ug/L		03/27/12 10:34	03/28/12 07:43	JMW	SW 6020
Silver	< 5.0 ug/L		03/27/12 10:34	03/28/12 07:43	JMW	SW 6020
Thallium	< 1.0 ug/L		03/27/12 10:34	03/28/12 07:43	JMW	SW 6020
Zinc	< 6.0 ug/L		03/27/12 10:34	03/28/12 07:43	JMW	SW 6020

2032097



PDC Laboratories, Inc.
 P.O. Box 9071 • Peoria, IL 61612-9071
 (309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689



Midwest Generation - Powerton Facility
 13082 E Manito Rd
 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 03/20/12 8:00
 Report Date: 04/10/12
 Customer #: 233203
 PO#: 4500092946

Laboratory Results

Sample No: 2032097-02
 Sample Description: MW #2

Collect Date: 03/19/12 10:05
 Matrix: Ground Water

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
General Chemistry - PIA						
Cyanide	< 0.0050 mg/L		03/21/12 10:47	03/22/12 16:06	Igth	335.4
Solids - total dissolved solids (TDS)	440 mg/L		03/23/12 09:35	03/23/12 10:48	BNS	SM 2540C 18Ed
Soluble Anions - PIA						
Chloride	53 mg/L		03/20/12 12:14	03/20/12 12:14	PLI	EPA 300.0 R2.1
Fluoride	< 0.25 mg/L		03/20/12 11:58	03/20/12 11:58	PLI	EPA 300.0 R2.1
Nitrate-N	5.1 mg/L		03/20/12 12:14	03/20/12 12:14	PLI	EPA 300.0 R2.1
Sulfate	55 mg/L		03/20/12 12:14	03/20/12 12:14	PLI	EPA 300.0 R2.1
Soluble Metals - PIA						
Antimony	< 3.0 ug/L		03/27/12 10:34	03/28/12 07:49	JMW	SW 6020
Arsenic	< 1.0 ug/L		03/27/12 10:34	03/28/12 07:49	JMW	SW 6020
Barium	49 ug/L		03/27/12 10:34	03/28/12 07:49	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/27/12 10:34	03/28/12 13:50	JMW	SW 6020
Boron	270 ug/L		03/27/12 10:34	03/29/12 08:31	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/27/12 10:34	03/28/12 07:49	JMW	SW 6020
Chromium	< 4.0 ug/L		03/27/12 10:34	03/28/12 07:49	JMW	SW 6020
Cobalt	< 2.0 ug/L		03/27/12 10:34	03/28/12 07:49	JMW	SW 6020
Copper	< 3.0 ug/L		03/27/12 10:34	03/28/12 07:49	JMW	SW 6020
Iron	< 0.010 mg/L		03/29/12 10:03	03/29/12 12:33	KJP	SW 6010B
Lead	< 1.0 ug/L		03/27/12 10:34	03/28/12 07:49	JMW	SW 6020
Manganese	< 1.0 ug/L		03/27/12 10:34	03/28/12 07:49	JMW	SW 6020
Mercury	< 0.20 ug/L		03/27/12 10:34	03/28/12 07:49	JMW	SW 6020
Nickel	< 5.0 ug/L		03/27/12 10:34	03/28/12 07:49	JMW	SW 6020
Selenium	< 1.0 ug/L		03/27/12 10:34	03/28/12 07:49	JMW	SW 6020
Silver	< 5.0 ug/L		03/27/12 10:34	03/28/12 07:49	JMW	SW 6020
Thallium	< 1.0 ug/L		03/27/12 10:34	03/28/12 07:49	JMW	SW 6020
Zinc	13 ug/L		03/27/12 10:34	03/28/12 07:49	JMW	SW 6020



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Midwest Generation - Powerton Facility
13082 E Manito Rd
Pekin, IL 61554
Attn: Mark Kelly

Date Received: 03/20/12 8:00
Report Date: 04/10/12
Customer #: 233203
PO#: 4500092946

Laboratory Results

Sample No: 2032097-03
Sample Description: MW #3

Collect Date: 03/19/12 11:05
Matrix: Ground Water

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
General Chemistry - PIA						
Cyanide	< 0.0050 mg/L		03/21/12 10:47	03/22/12 16:07	Igth	335.4
Solids - total dissolved solids (TDS)	450 mg/L		03/23/12 09:35	03/23/12 10:48	BNS	SM 2540C 18Ed
Soluble Anions - PIA						
Chloride	54 mg/L		03/20/12 12:45	03/20/12 12:45	PLI	EPA 300.0 R2.1
Fluoride	< 0.25 mg/L		03/20/12 12:29	03/20/12 12:29	PLI	EPA 300.0 R2.1
Nitrate-N	2.1 mg/L		03/20/12 12:45	03/20/12 12:45	PLI	EPA 300.0 R2.1
Sulfate	72 mg/L		03/20/12 12:45	03/20/12 12:45	PLI	EPA 300.0 R2.1
Soluble Metals - PIA						
Antimony	< 3.0 ug/L		03/27/12 10:34	03/28/12 07:54	JMW	SW 6020
Arsenic	1.2 ug/L		03/27/12 10:34	03/28/12 07:54	JMW	SW 6020
Barium	52 ug/L		03/27/12 10:34	03/28/12 07:54	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/27/12 10:34	03/28/12 13:52	JMW	SW 6020
Boron	560 ug/L		03/27/12 10:34	03/29/12 08:33	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/27/12 10:34	03/28/12 07:54	JMW	SW 6020
Chromium	< 4.0 ug/L		03/27/12 10:34	03/28/12 07:54	JMW	SW 6020
Cobalt	< 2.0 ug/L		03/27/12 10:34	03/28/12 07:54	JMW	SW 6020
Copper	< 3.0 ug/L		03/27/12 10:34	03/28/12 07:54	JMW	SW 6020
Iron	< 0.010 mg/L		03/29/12 10:03	03/29/12 12:36	KJP	SW 6010B
Lead	< 1.0 ug/L		03/27/12 10:34	03/28/12 07:54	JMW	SW 6020
Manganese	< 1.0 ug/L		03/27/12 10:34	03/28/12 07:54	JMW	SW 6020
Mercury	< 0.20 ug/L		03/27/12 10:34	03/28/12 07:54	JMW	SW 6020
Nickel	< 5.0 ug/L		03/27/12 10:34	03/28/12 07:54	JMW	SW 6020
Selenium	6.7 ug/L		03/27/12 10:34	03/28/12 07:54	JMW	SW 6020
Silver	< 5.0 ug/L		03/27/12 10:34	03/28/12 07:54	JMW	SW 6020
Thallium	< 1.0 ug/L		03/27/12 10:34	03/28/12 07:54	JMW	SW 6020
Zinc	12 ug/L		03/27/12 10:34	03/28/12 07:54	JMW	SW 6020



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Midwest Generation - Powerton Facility
 13082 E Manito Rd
 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 03/20/12 8:00
 Report Date: 04/10/12
 Customer #: 233203
 PO#: 4500092946

Laboratory Results

Sample No: 2032097-04
 Sample Description: MW #4

Collect Date: 03/19/12 11:50
 Matrix: Ground Water

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
<u>General Chemistry - PIA</u>						
Cyanide	< 0.0050 mg/L		03/21/12 10:47	03/22/12 16:07	Igth	335.4
Solids - total dissolved solids (TDS)	660 mg/L		03/23/12 09:35	03/23/12 10:48	BNS	SM 2540C 18Ed
<u>Soluble Anions - PIA</u>						
Chloride	58 mg/L		03/20/12 13:15	03/20/12 13:15	PLI	EPA 300.0 R2.1
Fluoride	< 0.25 mg/L		03/20/12 13:00	03/20/12 13:00	PLI	EPA 300.0 R2.1
Nitrate-N	0.65 mg/L		03/20/12 13:00	03/20/12 13:00	PLI	EPA 300.0 R2.1
Sulfate	160 mg/L		03/21/12 14:24	03/21/12 14:24	PLI	EPA 300.0 R2.1
<u>Soluble Metals - PIA</u>						
Antimony	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:03	JMW	SW 6020
Arsenic	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:03	JMW	SW 6020
Barium	43 ug/L		03/27/12 10:34	03/28/12 11:03	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/27/12 10:34	03/28/12 14:15	JMW	SW 6020
Boron	780 ug/L		03/27/12 10:34	03/29/12 08:59	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:03	JMW	SW 6020
Chromium	< 4.0 ug/L		03/27/12 10:34	03/28/12 11:03	JMW	SW 6020
Cobalt	< 2.0 ug/L		03/27/12 10:34	03/28/12 11:03	JMW	SW 6020
Copper	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:03	JMW	SW 6020
Iron	< 0.010 mg/L		03/29/12 10:03	03/29/12 12:36	KJP	SW 6010B
Lead	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:03	JMW	SW 6020
Manganese	89 ug/L		03/27/12 10:34	03/28/12 11:03	JMW	SW 6020
Mercury	< 0.20 ug/L		03/27/12 10:34	03/28/12 11:03	JMW	SW 6020
Nickel	5.5 ug/L		03/27/12 10:34	03/28/12 11:03	JMW	SW 6020
Selenium	8.5 ug/L		03/27/12 10:34	03/28/12 11:03	JMW	SW 6020
Silver	< 5.0 ug/L		03/27/12 10:34	03/28/12 11:03	JMW	SW 6020
Thallium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:03	JMW	SW 6020
Zinc	< 6.0 ug/L		03/27/12 10:34	03/28/12 11:03	JMW	SW 6020

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13082 E Manito Rd
Pekin, IL 61554
Attn: Mark Kelly

Date Received: 03/20/12 8:00
Report Date: 04/10/12
Customer #: 233203
PO#: 4500092946

Laboratory Results

Sample No: 2032097-05
Sample Description: MW #5

Collect Date: 03/19/12 12:40
Matrix: Ground Water

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
General Chemistry - PIA						
Cyanide	< 0.0050 mg/L		03/21/12 10:47	03/22/12 16:10	lgth	335.4
Solids - total dissolved solids (TDS)	590 mg/L		03/23/12 09:35	03/23/12 10:48	BNS	SM 2540C 18Ed
Soluble Anions - PIA						
Chloride	82 mg/L		03/20/12 13:46	03/20/12 13:46	PLI	EPA 300.0 R2.1
Fluoride	< 0.25 mg/L		03/20/12 13:31	03/20/12 13:31	PLI	EPA 300.0 R2.1
Nitrate-N	1.6 mg/L		03/20/12 13:31	03/20/12 13:31	PLI	EPA 300.0 R2.1
Sulfate	120 mg/L		03/21/12 14:40	03/21/12 14:40	PLI	EPA 300.0 R2.1
Soluble Metals - PIA						
Antimony	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:09	JMW	SW 6020
Arsenic	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:09	JMW	SW 6020
Barium	54 ug/L		03/27/12 10:34	03/28/12 11:09	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/27/12 10:34	03/28/12 14:18	JMW	SW 6020
Boron	820 ug/L		03/27/12 10:34	03/29/12 09:02	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:09	JMW	SW 6020
Chromium	< 4.0 ug/L		03/27/12 10:34	03/28/12 11:09	JMW	SW 6020
Cobalt	< 2.0 ug/L		03/27/12 10:34	03/28/12 11:09	JMW	SW 6020
Copper	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:09	JMW	SW 6020
Iron	< 0.010 mg/L		03/29/12 10:03	03/29/12 12:46	KJP	SW 8010B
Lead	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:09	JMW	SW 6020
Manganese	260 ug/L		03/27/12 10:34	03/28/12 11:09	JMW	SW 6020
Mercury	< 0.20 ug/L		03/27/12 10:34	03/28/12 11:09	JMW	SW 6020
Nickel	8.0 ug/L		03/27/12 10:34	03/28/12 11:09	JMW	SW 6020
Selenium	2.8 ug/L		03/27/12 10:34	03/28/12 11:09	JMW	SW 6020
Silver	< 5.0 ug/L		03/27/12 10:34	03/28/12 11:09	JMW	SW 8020
Thallium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:09	JMW	SW 6020
Zinc	< 6.0 ug/L		03/27/12 10:34	03/28/12 11:09	JMW	SW 6020

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 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 03/20/12 8:00
 Report Date: 04/10/12
 Customer #: 233203
 PO#: 4500092946

Laboratory Results

Sample No: 2032097-06
 Sample Description: MW #6

Collect Date: 03/19/12 14:10
 Matrix: Ground Water

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
General Chemistry - PIA						
Cyanide	< 0.0050 mg/L		03/21/12 10:47	03/22/12 16:16	lgth	335.4
Solids - total dissolved solids (TDS)	1100 mg/L		03/23/12 09:35	03/23/12 10:48	BNS	SM 2540C 18Ed
Soluble Anions - PIA						
Chloride	150 mg/L		03/21/12 15:26	03/21/12 15:26	PLI	EPA 300.0 R2.1
Fluoride	0.47 mg/L		03/20/12 14:33	03/20/12 14:33	PLI	EPA 300.0 R2.1
Nitrate-N	< 0.02 mg/L		03/20/12 14:33	03/20/12 14:33	PLI	EPA 300.0 R2.1
Sulfate	250 mg/L		03/21/12 15:26	03/21/12 15:26	PLI	EPA 300.0 R2.1
Soluble Metals - PIA						
Antimony	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:15	JMW	SW 6020
Arsenic	2.0 ug/L		03/27/12 10:34	03/28/12 11:15	JMW	SW 6020
Barium	97 ug/L		03/27/12 10:34	03/28/12 11:15	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/27/12 10:34	03/28/12 14:21	JMW	SW 6020
Boron	390 ug/L		03/27/12 10:34	03/29/12 09:04	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:15	JMW	SW 6020
Chromium	< 4.0 ug/L		03/27/12 10:34	03/28/12 11:15	JMW	SW 6020
Cobalt	< 2.0 ug/L		03/27/12 10:34	03/28/12 11:15	JMW	SW 6020
Copper	160 ug/L		03/27/12 10:34	03/28/12 11:15	JMW	SW 6020
Iron	1.7 mg/L		03/29/12 10:03	03/29/12 12:48	KJP	SW 6010B
Lead	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:15	JMW	SW 6020
Manganese	610 ug/L		03/27/12 10:34	03/28/12 11:15	JMW	SW 6020
Mercury	< 0.20 ug/L		03/27/12 10:34	03/28/12 11:15	JMW	SW 6020
Nickel	< 5.0 ug/L		03/27/12 10:34	03/28/12 11:15	JMW	SW 6020
Selenium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:15	JMW	SW 6020
Silver	< 5.0 ug/L		03/27/12 10:34	03/28/12 11:15	JMW	SW 6020
Thallium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:15	JMW	SW 6020
Zinc	49 ug/L		03/27/12 10:34	03/28/12 11:15	JMW	SW 6020

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 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 03/20/12 8:00
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 Customer #: 233203
 PO#: 4500092946

Laboratory Results

Sample No: 2032097-07
 Sample Description: MW #7

Collect Date: 03/19/12 13:25
 Matrix: Ground Water

Parameters	Result	Quai	Prep Date	Analysis Date	Analyst	Method
General Chemistry - PIA						
Cyanide	< 0.0050 mg/L		03/21/12 10:47	03/22/12 16:45	lgth	335.4
Solids - total dissolved solids (TDS)	1400 mg/L		03/23/12 09:35	03/23/12 10:48	BNS	SM 2540C 18Ed
Soluble Anions - PIA						
Chloride	99 mg/L		03/21/12 15:41	03/21/12 15:41	PLI	EPA 300.0 R2.1
Fluoride	0.54 mg/L		03/20/12 15:03	03/20/12 15:03	PLI	EPA 300.0 R2.1
Nitrate-N	< 0.02 mg/L		03/20/12 15:03	03/20/12 15:03	PLI	EPA 300.0 R2.1
Sulfate	3.0 mg/L		03/20/12 15:03	03/20/12 15:03	PLI	EPA 300.0 R2.1
Soluble Metals - PIA						
Antimony	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:21	JMW	SW 6020
Arsenic	230 ug/L		03/27/12 10:34	03/28/12 11:21	JMW	SW 6020
Barium	570 ug/L		03/27/12 10:34	03/28/12 11:21	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/27/12 10:34	03/28/12 14:23	JMW	SW 6020
Boron	350 ug/L		03/27/12 10:34	03/29/12 09:07	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:21	JMW	SW 6020
Chromium	< 4.0 ug/L		03/27/12 10:34	03/28/12 11:21	JMW	SW 6020
Cobalt	6.7 ug/L		03/27/12 10:34	03/28/12 11:21	JMW	SW 6020
Copper	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:21	JMW	SW 6020
Iron	31 mg/L		03/29/12 10:03	03/29/12 12:50	KJP	SW 6010B
Lead	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:21	JMW	SW 6020
Manganese	11000 ug/L		03/27/12 10:34	03/28/12 11:21	JMW	SW 6020
Mercury	< 0.20 ug/L		03/27/12 10:34	03/28/12 11:21	JMW	SW 6020
Nickel	18 ug/L		03/27/12 10:34	03/28/12 11:21	JMW	SW 6020
Selenium	1.3 ug/L		03/27/12 10:34	03/28/12 11:21	JMW	SW 6020
Silver	< 5.0 ug/L		03/27/12 10:34	03/28/12 11:21	JMW	SW 6020
Thallium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:21	JMW	SW 6020
Zinc	< 6.0 ug/L		03/27/12 10:34	03/28/12 11:21	JMW	SW 6020

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Midwest Generation - Powerton Facility
 13082 E Manito Rd
 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 03/20/12 8:00
 Report Date: 04/10/12
 Customer #: 233203
 PO#: 4500092946

Laboratory Results

Sample No: **2032097-08**
 Sample Description: **MW #8**

Collect Date: **03/19/12 18:10**
 Matrix: **Ground Water**

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
<u>General Chemistry - PIA</u>						
Cyanide	< 0.0050 mg/L		03/21/12 10:47	03/22/12 16:18	Igth	335.4
Solids - total dissolved solids (TDS)	1200 mg/L		03/23/12 09:35	03/23/12 10:48	BNS	SM 2540C 18Ed
<u>Soluble Anions - PIA</u>						
Chloride	170 mg/L		03/21/12 15:57	03/21/12 15:57	PLI	EPA 300.0 R2.1
Fluoride	0.70 mg/L		03/20/12 15:34	03/20/12 15:34	PLI	EPA 300.0 R2.1
Nitrate-N	< 0.02 mg/L		03/20/12 15:34	03/20/12 15:34	PLI	EPA 300.0 R2.1
Sulfate	300 mg/L		03/21/12 15:57	03/21/12 15:57	PLI	EPA 300.0 R2.1
<u>Soluble Metals - PIA</u>						
Antimony	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:27	JMW	SW 6020
Arsenic	3.8 ug/L		03/27/12 10:34	03/28/12 11:27	JMW	SW 6020
Barium	140 ug/L		03/27/12 10:34	03/28/12 11:27	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/27/12 10:34	03/28/12 14:26	JMW	SW 6020
Boron	570 ug/L		03/27/12 10:34	03/29/12 09:10	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:27	JMW	SW 6020
Chromium	< 4.0 ug/L		03/27/12 10:34	03/28/12 11:27	JMW	SW 6020
Cobalt	< 2.0 ug/L		03/27/12 10:34	03/28/12 11:27	JMW	SW 6020
Copper	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:27	JMW	SW 6020
Iron	2.3 mg/L		03/29/12 10:03	03/29/12 12:54	KJP	SW 6010B
Lead	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:27	JMW	SW 6020
Manganese	270 ug/L		03/27/12 10:34	03/28/12 11:27	JMW	SW 6020
Mercury	< 0.20 ug/L		03/27/12 10:34	03/28/12 11:27	JMW	SW 6020
Nickel	5.4 ug/L		03/27/12 10:34	03/28/12 11:27	JMW	SW 6020
Selenium	1.8 ug/L		03/27/12 10:34	03/28/12 11:27	JMW	SW 6020
Silver	< 5.0 ug/L		03/27/12 10:34	03/28/12 11:27	JMW	SW 6020
Thallium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:27	JMW	SW 6020
Zinc	< 6.0 ug/L		03/27/12 10:34	03/28/12 11:27	JMW	SW 6020

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 13082 E Manito Rd
 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 03/20/12 8:00
 Report Date: 04/10/12
 Customer #: 233203
 PO#: 4500092946

Laboratory Results

Sample No: 2032097-09
 Sample Description: MW #9

Collect Date: 03/19/12 16:00
 Matrix: Ground Water

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
General Chemistry - PIA						
Cyanide	< 0.0050 mg/L		03/21/12 10:47	03/22/12 16:46	Igth	335.4
Solids - total dissolved solids (TDS)	530 mg/L		03/23/12 09:35	03/23/12 10:48	BNS	SM 2540C 18Ed
Miscellaneous - PACE Analytical - Greensburg						
Radium 226 - subcontracted	0.00+- .250 pCi/L			04/06/12 12:27	Sub	904.0 903.1
Radium 228 - subcontracted	0.396+- .999 pCi/L			04/05/12 11:25	Sub	904.0 903.1
Soluble Anions - PIA						
Chloride	30 mg/L		03/20/12 16:20	03/20/12 16:20	PLI	EPA 300.0 R2.1
Fluoride	< 0.25 mg/L		03/20/12 16:05	03/20/12 16:05	PLI	EPA 300.0 R2.1
Nitrate-N	5.0 mg/L		03/20/12 16:20	03/20/12 16:20	PLI	EPA 300.0 R2.1
Sulfate	120 mg/L		03/21/12 16:12	03/21/12 16:12	PLI	EPA 300.0 R2.1
Soluble Metals - PIA						
Antimony	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:32	JMW	SW 6020
Arsenic	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:32	JMW	SW 6020
Barium	35 ug/L		03/27/12 10:34	03/28/12 11:32	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/27/12 10:34	03/28/12 14:29	JMW	SW 6020
Boron	2600 ug/L		03/27/12 10:34	03/29/12 09:12	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:32	JMW	SW 6020
Chromium	< 4.0 ug/L		03/27/12 10:34	03/28/12 11:32	JMW	SW 6020
Cobalt	< 2.0 ug/L		03/27/12 10:34	03/28/12 11:32	JMW	SW 6020
Copper	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:32	JMW	SW 6020
Iron	0.014 mg/L		03/29/12 10:03	03/29/12 12:56	KJP	SW 6010B
Lead	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:32	JMW	SW 6020
Manganese	220 ug/L		03/27/12 10:34	03/28/12 11:32	JMW	SW 6020
Mercury	< 0.20 ug/L		03/27/12 10:34	03/28/12 11:32	JMW	SW 6020
Nickel	< 5.0 ug/L		03/27/12 10:34	03/28/12 11:32	JMW	SW 6020
Selenium	7.2 ug/L		03/27/12 10:34	03/28/12 11:32	JMW	SW 6020
Silver	< 5.0 ug/L		03/27/12 10:34	03/28/12 11:32	JMW	SW 6020
Thallium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:32	JMW	SW 6020
Zinc	< 6.0 ug/L		03/27/12 10:34	03/28/12 11:32	JMW	SW 6020

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 Attn: Mark Kelly

Date Received: 03/20/12 8:00
 Report Date: 04/10/12
 Customer #: 233203
 PO#: 4500092946

Laboratory Results

Sample No: 2032097-10
 Sample Description: MW#10

Collect Date: 03/19/12 15:20
 Matrix: Ground Water

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
General Chemistry - PIA						
Cyanide	< 0.0050 mg/L		03/21/12 10:47	03/22/12 16:20	lgth	335.4
Solids - total dissolved solids (TDS)	530 mg/L		03/23/12 09:35	03/23/12 10:46	BNS	SM 2540C 18Ed
Soluble Anions - PIA						
Chloride	45 mg/L		03/20/12 18:39	03/20/12 18:39	PLI	EPA 300.0 R2.1
Fluoride	< 0.25 mg/L		03/20/12 17:53	03/20/12 17:53	PLI	EPA 300.0 R2.1
Nitrate-N	6.0 mg/L		03/20/12 18:39	03/20/12 18:39	PLI	EPA 300.0 R2.1
Sulfate	76 mg/L		03/20/12 18:39	03/20/12 18:39	PLI	EPA 300.0 R2.1
Soluble Metals - PIA						
Antimony	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:38	JMW	SW 6020
Arsenic	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:38	JMW	SW 6020
Barium	260 ug/L		03/27/12 10:34	03/28/12 11:38	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/27/12 10:34	03/28/12 14:32	JMW	SW 6020
Boron	540 ug/L		03/27/12 10:34	03/29/12 09:15	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:38	JMW	SW 6020
Chromium	< 4.0 ug/L		03/27/12 10:34	03/28/12 11:38	JMW	SW 6020
Cobalt	2.4 ug/L		03/27/12 10:34	03/28/12 11:38	JMW	SW 6020
Copper	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:38	JMW	SW 6020
Iron	< 0.010 mg/L		03/29/12 10:03	03/29/12 12:59	KJP	SW 6010B
Lead	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:38	JMW	SW 6020
Manganese	2300 ug/L		03/27/12 10:34	03/28/12 11:38	JMW	SW 6020
Mercury	< 0.20 ug/L		03/27/12 10:34	03/28/12 11:38	JMW	SW 6020
Nickel	9.1 ug/L		03/27/12 10:34	03/28/12 11:38	JMW	SW 6020
Selenium	5.6 ug/L		03/27/12 10:34	03/28/12 11:38	JMW	SW 6020
Silver	< 5.0 ug/L		03/27/12 10:34	03/28/12 11:38	JMW	SW 6020
Thallium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:38	JMW	SW 6020
Zinc	< 6.0 ug/L		03/27/12 10:34	03/28/12 11:38	JMW	SW 6020

2032097



PDC Laboratories, Inc.
 P.O. Box 9071 • Peoria, IL 61612-9071
 (309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689



Midwest Generation - Powerton Facility
 13082 E Manito Rd
 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 03/20/12 8:00
 Report Date: 04/10/12
 Customer #: 233203
 PO#: 4500092946

Laboratory Results

Sample No: 2032097-11
 Sample Description: MW-11

Collect Date: 03/19/12 16:30
 Matrix: Ground Water

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
General Chemistry - PIA						
Cyanide	< 0.0050 mg/L		03/21/12 10:47	03/22/12 16:20	lgth	335.4
Solids - total dissolved solids (TDS)	740 mg/L		03/23/12 09:35	03/23/12 10:48	BNS	SM 2540C 18Ed
Miscellaneous - PACE Analytical - Greensburg						
Radium 226 - subcontracted	0.00+-,277 pCi/L			04/08/12 12:40	Sub	904.0 903.1
Radium 228 - subcontracted	0.288+-,319 pCi/L			04/05/12 11:23	Sub	904.0 903.1
Soluble Anions - PIA						
Chloride	54 mg/L		03/20/12 19:10	03/20/12 19:10	PLI	EPA 300.0 R2.1
Fluoride	0.42 mg/L		03/20/12 18:54	03/20/12 18:54	PLI	EPA 300.0 R2.1
Nitrate-N	0.39 mg/L		03/20/12 18:54	03/20/12 18:54	PLI	EPA 300.0 R2.1
Sulfate	130 mg/L		03/26/12 20:18	03/26/12 20:16	n.a.	EPA 300.0 R2.1
Soluble Metals - PIA						
Antimony	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:44	JMW	SW 6020
Arsenic	2.1 ug/L		03/27/12 10:34	03/28/12 11:44	JMW	SW 6020
Barium	130 ug/L		03/27/12 10:34	03/28/12 11:44	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/27/12 10:34	03/28/12 14:34	JMW	SW 6020
Boron	2300 ug/L		03/27/12 10:34	03/29/12 09:18	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:44	JMW	SW 6020
Chromium	< 4.0 ug/L		03/27/12 10:34	03/28/12 11:44	JMW	SW 6020
Cobalt	2.4 ug/L		03/27/12 10:34	03/28/12 11:44	JMW	SW 6020
Copper	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:44	JMW	SW 6020
Iron	< 0.010 mg/L		03/29/12 10:03	03/29/12 13:02	KJP	SW 6010B
Lead	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:44	JMW	SW 6020
Manganese	2900 ug/L		03/27/12 10:34	03/28/12 11:44	JMW	SW 6020
Mercury	< 0.20 ug/L		03/27/12 10:34	03/28/12 11:44	JMW	SW 6020
Nickel	11 ug/L		03/27/12 10:34	03/28/12 11:44	JMW	SW 6020
Selenium	3.9 ug/L		03/27/12 10:34	03/28/12 11:44	JMW	SW 6020
Silver	< 5.0 ug/L		03/27/12 10:34	03/28/12 11:44	JMW	SW 6020
Thallium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:44	JMW	SW 6020
Zinc	< 6.0 ug/L		03/27/12 10:34	03/28/12 11:44	JMW	SW 6020

2032097



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Midwest Generation - Powerton Facility
 13082 E Manito Rd
 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 03/20/12 8:00
 Report Date: 04/10/12
 Customer #: 233203
 PO#: 4500092946

Laboratory Results

Sample No: 2032097-12
 Sample Description: MW-12

Collect Date: 03/19/12 17:15
 Matrix: Ground Water

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
General Chemistry - PIA						
Cyanide	< 0.0050 mg/L		03/21/12 10:47	03/22/12 16:21	Igth	335.4
Solids - total dissolved solids (TDS)	1000 mg/L		03/23/12 09:35	03/23/12 10:48	BNS	SM 2540C 18Ed
Miscellaneous - PACE Analytical - Greensburg						
Radium 226 - subcontracted	0.144+-,248 pCi/L			04/06/12 12:27	Sub	904.0 903.1
Radium 228 - subcontracted	0.768+-,318 pCi/L			04/05/12 11:20	Sub	904.0 903.1
Soluble Anions - PIA						
Chloride	170 mg/L		03/22/12 08:37	03/22/12 08:37	SJW	EPA 300.0 R2.1
Fluoride	0.46 mg/L		03/20/12 19:25	03/20/12 19:25	PLI	EPA 300.0 R2.1
Nitrate-N	0.04 mg/L		03/20/12 19:25	03/20/12 19:25	PLI	EPA 300.0 R2.1
Sulfate	310 mg/L		03/22/12 08:37	03/22/12 08:37	SJW	EPA 300.0 R2.1
Soluble Metals - PIA						
Antimony	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:50	JMW	SW 6020
Arsenic	4.2 ug/L		03/27/12 10:34	03/28/12 11:50	JMW	SW 6020
Barium	71 ug/L		03/27/12 10:34	03/28/12 11:50	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/27/12 10:34	03/28/12 14:37	JMW	SW 6020
Boron	920 ug/L		03/27/12 10:34	03/29/12 09:20	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:50	JMW	SW 6020
Chromium	< 4.0 ug/L		03/27/12 10:34	03/28/12 11:50	JMW	SW 6020
Cobalt	< 2.0 ug/L		03/27/12 10:34	03/28/12 11:50	JMW	SW 6020
Copper	< 3.0 ug/L		03/27/12 10:34	03/28/12 11:50	JMW	SW 6020
Iron	4.8 mg/L		03/29/12 10:03	03/29/12 13:04	KJP	SW 6010B
Lead	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:50	JMW	SW 6020
Manganese	130 ug/L		03/27/12 10:34	03/28/12 11:50	JMW	SW 6020
Mercury	< 0.20 ug/L		03/27/12 10:34	03/28/12 11:50	JMW	SW 6020
Nickel	7.5 ug/L		03/27/12 10:34	03/28/12 11:50	JMW	SW 6020
Selenium	4.3 ug/L		03/27/12 10:34	03/28/12 11:50	JMW	SW 6020
Silver	< 5.0 ug/L		03/27/12 10:34	03/28/12 11:50	JMW	SW 6020
Thallium	< 1.0 ug/L		03/27/12 10:34	03/28/12 11:50	JMW	SW 6020
Zinc	< 6.0 ug/L		03/27/12 10:34	03/28/12 11:50	JMW	SW 6020



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Midwest Generation - Powerton Facility
 13082 E Manito Rd
 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 03/20/12 8:00
 Report Date: 04/10/12
 Customer #: 233203
 PO#: 4500092946

Laboratory Results

Notes

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PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
 NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
 Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
 Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
 Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
 Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
 UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
 EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
 NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS EPA Lab No. E-10389

Subcontract report attached for Rad 226/228

Certified by: Janet L. Clutters, Project Manager

PDC LABORATORIES, INC.
2231 WEST ALTORFER DRIVE
PEORIA, IL 61615

PHONE # 800-752-6651
FAX # 309-692-9689

State where samples collected IL

CHAIN OF CUSTODY RECORD

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT) - (SAMPLE ACCEPTANCE POLICY ON REVERSE)

1	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	3	4 (FOR LAB USE ONLY)	
	PHONE NUMBER	FAX NUMBER	DATE SHIPPED			
2	MATRIX TYPES:			5	6	
	WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WW-SLUDGE MS-SOLID LCH-LEACHATE OTHER:					
Dissolved Metals Cyanide CE, F, ab, ig, 4 Div Total Disc. Solids Radon 222/220			LOGIN: <u>203 2099-12</u> LOGGED BY: <u>MP</u> LAB PROJ. # TEMPLATE: PROJ. MGR.: <u>M. West</u>			
REMARKS: <u>Facility</u>						
MW-1		3/19/12	0920	GW	4	X X X X
MW-2			1005		4	
MW-3			1105		4	
MW-4			1150		4	
MW-5			1240		4	
MW-6			1410		4	
MW-7			1325		4	
MW-8			1810		4	
MW-9			1600		5	X
MW-10			1520		4	
MW-11			1630		5	X
MW-12			1715		5	X
5	TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TRY IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)		NORMAL	RUSH	DATE RESULTS NEEDED	6
RUSH RESULTS VIA (PLEASE CIRCLE) FAX		PHONE	E-MAIL		The sample temperature will be measured upon receipt at the lab. By initiating this area you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-5.0°C. By not initiating this area you allow the lab to proceed with analytical testing regardless of the sample temperature.	
FAX #		PHONE #	EMAIL ADDRESS		7	
7		RECEIVED BY: (SIGNATURE)		DATE	8	
RELINQUISHED BY: (SIGNATURE)		DATE	RECEIVED BY: (SIGNATURE)	TIME	COMMENTS: (FOR LAB USE ONLY)	
RELINQUISHED BY: (SIGNATURE)		DATE	RECEIVED AT LAB BY: (SIGNATURE)	TIME	SAMPLE TEMPERATURE UPON RECEIPT _____ °C CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE	

Copies: white should accompany samples to PDC Labs. Yellow copy to be retained by the client.

PAGE 1 OF 1



Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

April 09, 2012

Ms. Janet Clutters
PDC Laboratories
2231 W. Altorfer Drive
Peoria, IL 61615

RE: Project: 2032097
Pace Project No.: 3065785

Dear Ms. Clutters:

Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carin Ferris

carin.ferris@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Page 1 of 10

Page 15 of 26

MWG13-15_39591



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Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 2032097
Pace Project No.: 3065785

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Virginia VELAP (Cert # 460198)
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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Page 16 of 26

MWG13-15_39592



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Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 2032097
Pace Project No.: 3065785

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3065785001	2032097-09	Drinking Water	03/19/12 16:00	03/23/12 08:50
3065785002	2032097-11	Drinking Water	03/19/12 16:30	03/23/12 08:50
3065785003	2032097-12	Drinking Water	03/19/12 17:15	03/23/12 08:50

REPORT OF LABORATORY ANALYSIS

Page 3 of 10

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MWG13-15_39593



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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 2032097
Pace Project No.: 3065785

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3065785001	2032097-09	EPA 903.1	SLA	1	PASI-PA
		EPA 904.0	WRR	1	PASI-PA
3065785002	2032097-11	EPA 903.1	SLA	1	PASI-PA
		EPA 904.0	WRR	1	PASI-PA
3065785003	2032097-12	EPA 903.1	SLA	1	PASI-PA
		EPA 904.0	WRR	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 4 of 10

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PROJECT NARRATIVE

Project: 2032097
Pace Project No.: 3065785

Method: EPA 903.1
Description: 903.1 Radium 226
Client: PDC Laboratories, Inc.
Date: April 09, 2012

General Information:

3 samples were analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

Page 5 of 10

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PROJECT NARRATIVE

Project: 2032097
Pace Project No.: 3065785

Method: EPA 904.0
Description: 904.0 Radium 228
Client: PDC Laboratories, Inc.
Date: April 09, 2012

General information:

3 samples were analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

Page 6 of 10

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ANALYTICAL RESULTS

Project: 2032097
 Pace Project No.: 3065785

Sample: 2032097-09 Lab ID: 3065785001 Collected: 03/19/12 16:00 Received: 03/23/12 08:50 Matrix: Drinking Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	0.000 ± 0.250 (0.592)	pCi/L	04/06/12 12:27	13982-63-3	
Radium-228	EPA 904.0	0.396 ± 0.399 (0.831)	pCi/L	04/05/12 11:23	15262-20-1	

Sample: 2032097-11 Lab ID: 3065785002 Collected: 03/19/12 16:30 Received: 03/23/12 08:50 Matrix: Drinking Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	0.000 ± 0.277 (0.621)	pCi/L	04/06/12 12:40	13982-63-3	
Radium-228	EPA 904.0	0.228 ± 0.319 (0.683)	pCi/L	04/05/12 11:23	15262-20-1	

Sample: 2032097-12 Lab ID: 3065785003 Collected: 03/19/12 17:15 Received: 03/23/12 08:50 Matrix: Drinking Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	0.144 ± 0.248 (0.445)	pCi/L	04/06/12 12:27	13982-63-3	
Radium-228	EPA 904.0	0.0768 ± 0.318 (0.713)	pCi/L	04/05/12 11:22	15262-20-1	



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(724)850-5600

QUALITY CONTROL DATA

Project: 2032097
Pace Project No.: 3065785

QC Batch: RADC/11495 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Associated Lab Samples: 3065785001, 3065785002, 3065785003

METHOD BLANK: 421621 Matrix: Water
Associated Lab Samples: 3065785001, 3065785002, 3065785003

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	0.102 ± 0.375 (0.721)	pCi/L	04/06/12 10:54	



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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 2032097
Pace Project No.: 3065785

QC Batch: RADC/11517 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Associated Lab Samples: 3065785001, 3065785002, 3065785003

METHOD BLANK: 422365 Matrix: Water
Associated Lab Samples: 3065785001, 3065785002, 3065785003

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-228	0.821 ± 0.440 (0.808)	pCi/L	04/05/12 11:21	



QUALIFIERS

Project: 2032097
Pace Project No.: 3065785

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

SUBCONTRACT ORDER

PDC Laboratories, Inc.

2032097

SENDING LABORATORY:

- PDC Laboratories, Inc, 2231 W Altorfer Peoria, IL 61615
- PDC Laboratories, Inc, 1805 W Sunset, Springfield, MO 65807
- PDC Laboratories, Inc, 3278 N Highway 67, Florissant, MO 63033

Project Manager: Janet L. Clutters jclutters@pdclab.com Phone: 309-683-1743

RECEIVING LABORATORY:

PACE Analytical - Greensburg
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
Phone :(724) 850-5600

Date Shipped 3-21-12
Sample Origin (State) IL
PO# L 40790
Total # of Containers 3

30105785

Analysis	Due	Expires	Comments
Sample ID: 2032097-09	Water	Sampled:03/19/12 16:00	
01-Radium 226/228	03/30/12 16:00	09/15/12 16:00	001
Sample ID: 2032097-11	Water	Sampled:03/19/12 16:30	
01-Radium 226/228	03/30/12 16:00	09/15/12 16:30	002
Sample ID: 2032097-12	Water	Sampled:03/19/12 17:15	
01-Radium 226/228	03/30/12 16:00	09/15/12 17:15	003

Turn-Around Time Requested (circle one): **NORMAL** RUSH Date Results Needed: _____

<u>Janet L. Clutters</u>	<u>3-21-12</u>	<u>Janet L. Clutters</u>	<u>3-23-12</u>	Sample Temperature Upon Receipt	_____ C
Relinquished By	Date/Time	Received By	Date/Time	Sample(s) Received on Ice	Y or N
				Proper Bottles Received in Good Condition	Y or N
				Bottles Filled with Adequate Volume	Y or N
				Samples Received Within Hold Time	Y or N
				Date/Time Taken From Sample Bottle	Y or N



Sample Condition Upon Receipt

Client Name: POC Project # 3005785

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 23179421500822

Optional	_____
Proj. Due Date	_____
Proj. Manager	_____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 3 5 6 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature NA
Temp should be above freezing to 8°C

Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: DN 3-23-12

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>WTT</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>PHL 2</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, W-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>DN</u> Lot # of added preservative: _____
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Carro Dennis Date: 3/23/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALLC003-4 23Feb2010



PDC Laboratories, Inc.
P.O. Box 9071 • Peoria, IL 61612-9071
(309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689



Midwest Generation - Powerton Facility
13082 E Manito Rd
Pekin, IL 61554
Attn: Mark Kelly

Date Received: 04/10/12 11:35
Report Date: 05/11/12
Customer #: 233203
PO#: 4500073039

Laboratory Results

Sample No: 2041228-01

Collect Date: 04/10/12 10:40

Matrix: Ground Water

Sample Description: MW-13

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
General Chemistry - PIA						
Cyanide	< 0.0050 mg/L		04/11/12 08:28	04/12/12 10:56	lgth	335.4
Solids - total dissolved solids (TDS)	2300 mg/L		04/17/12 08:25	04/17/12 08:57	BNS	SM 2540C 18Ed
Soluble Anions - PIA						
Chloride	170 mg/L		04/18/12 10:23	04/18/12 10:23	SJW	EPA 300.0 R2.1
Fluoride	0.32 mg/L		04/11/12 05:35	04/11/12 05:35	n.a.	EPA 300.0 R2.1
Nitrate-N	0.06 mg/L		04/11/12 05:35	04/11/12 05:35	n.a.	EPA 300.0 R2.1
Sulfate	1100 mg/L		04/18/12 11:09	04/18/12 11:09	SJW	EPA 300.0 R2.1
Soluble Metals - PIA						
Antimony	< 3.0 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020
Arsenic	27 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020
Barium	140 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020
Beryllium	< 1.0 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020
Boron	4000 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020
Cadmium	< 1.0 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020
Chromium	5.5 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020
Cobalt	< 2.0 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020
Copper	6.8 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020
Iron	0.20 mg/L		04/12/12 06:39	04/12/12 09:20	JMW	SW 6010B
Lead	< 1.0 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020
Manganese	3500 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020
Mercury	< 0.20 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020
Nickel	20 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020
Selenium	3.7 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020
Silver	< 5.0 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020
Thallium	< 1.0 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020
Zinc	< 6.0 ug/L		04/18/12 07:12	04/18/12 08:46	JMW	SW 6020

2041228



PDC Laboratories, Inc.
P.O. Box 9071 • Peoria, IL 61612-9071
(309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689



Midwest Generation - Powerton Facility
13082 E Manito Rd
Pekin, IL 61554
Attn: Mark Kelly

Date Received: 04/10/12 11:35
Report Date: 05/11/12
Customer #: 233203
PO#: 4500073039

Laboratory Results

Sample No: 2041228-02

Collect Date: 04/10/12 10:10

Matrix: Ground Water

Sample Description: MW-14

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
General Chemistry - PIA						
Cyanide	< 0.0050 mg/L		04/11/12 08:28	04/12/12 10:57	Igth	335.4
Solids - total dissolved solids (TDS)	2200 mg/L		04/17/12 08:25	04/17/12 08:57	BNS	SM 2540C 18Ed
Soluble Anions - PIA						
Chloride	190 mg/L		04/18/12 11:25	04/18/12 11:25	SJW	EPA 300.0 R2.1
Fluoride	1.0 mg/L		04/11/12 06:06	04/11/12 06:06	n.a.	EPA 300.0 R2.1
Nitrate-N	0.31 mg/L		04/11/12 06:06	04/11/12 06:06	n.a.	EPA 300.0 R2.1
Sulfate	990 mg/L		04/18/12 11:40	04/18/12 11:40	SJW	EPA 300.0 R2.1
Soluble Metals - PIA						
Antimony	< 3.0 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020
Arsenic	3.9 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020
Barium	45 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020
Beryllium	< 1.0 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020
Boron	1800 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020
Cadmium	< 1.0 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020
Chromium	5.7 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020
Cobalt	< 2.0 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020
Copper	6.7 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020
Iron	0.77 mg/L		04/12/12 06:39	04/12/12 09:22	JMW	SW 6010B
Lead	3.5 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020
Manganese	630 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020
Mercury	< 0.20 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020
Nickel	18 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020
Selenium	22 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020
Silver	< 5.0 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020
Thallium	3.4 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020
Zinc	8.4 ug/L		04/18/12 07:12	04/18/12 08:52	JMW	SW 6020

2041228



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 (309) 692-9689 • (800) 752-6651 • FAX (309) 692-9689



Midwest Generation - Powerton Facility
 13082 E Manito Rd
 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 04/10/12 11:35
 Report Date: 05/11/12
 Customer #: 233203
 PO#: 4500073039

Laboratory Results

Sample No: 2041228-03

Collect Date: 04/10/12 09:30

Matrix: Ground Water

Sample Description: MW-15

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
General Chemistry - PIA						
Cyanide	< 0.0050 mg/L		04/11/12 08:28	04/12/12 10:57	lgth	335.4
Solids - total dissolved solids (TDS)	1000 mg/L		04/17/12 08:25	04/17/12 08:57	BNS	SM 2540C 18Ed
Soluble Anions - PIA						
Chloride	200 mg/L		04/18/12 11:56	04/18/12 11:56	SJW	EPA 300.0 R2.1
Fluoride	0.79 mg/L		04/13/12 14:54	04/13/12 14:54	n.a.	EPA 300.0 R2.1
Nitrate-N	0.12 mg/L		04/13/12 14:54	04/13/12 14:54	n.a.	EPA 300.0 R2.1
Sulfate	200 mg/L		04/18/12 11:56	04/18/12 11:56	SJW	EPA 300.0 R2.1
Soluble Metals - PIA						
Antimony	< 3.0 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020
Arsenic	6.1 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020
Barium	75 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020
Beryllium	< 1.0 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020
Boron	1400 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020
Cadmium	< 1.0 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020
Chromium	7.1 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020
Cobalt	< 2.0 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020
Copper	3.9 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020
Iron	1.1 mg/L		04/12/12 06:39	04/12/12 09:25	JMW	SW 6010B
Lead	< 1.0 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020
Manganese	250 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020
Mercury	< 0.20 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020
Nickel	10 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020
Selenium	25 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020
Silver	< 5.0 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020
Thallium	< 1.0 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020
Zinc	< 6.0 ug/L		04/18/12 07:12	04/18/12 08:57	JMW	SW 6020

2041228



PDC Laboratories, Inc.
 P.O. Box 9071 • Peoria, IL 61612-9071
 (309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689



Midwest Generation - Powerton Facility
 13082 E Manito Rd
 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 04/10/12 11:35
 Report Date: 05/11/12
 Customer #: 233203
 PO#: 4500073039

Laboratory Results

Notes

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PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
 NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
 Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
 Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
 Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
 Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
 UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
 EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
 NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS EPA Lab No. E-10389

H Test performed after the expiration of the appropriate regulatory/advisory maximum allowable hold time.
 Subcontract report attached for Rad 226/228

Certified by: Janet L. Clutters, Project Manager

PDC LABORATORIES, INC.
 2231 WEST ALTORFER DRIVE
 PEORIA, IL 61615

PHONE # 800-752-6651
 FAX # 309-692-9689

CHAIN OF CUSTODY RECORD

State where samples collected IL

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT) - (SAMPLE ACCEPTANCE POLICY ON REVERSE)

1 CLIENT MBC-Pekin (Rock Eng)	PROJECT NUMBER	F.O. NUMBER	MEANS SHIPPED		3 ANALYSES REQUESTED Dissolved Metals Cyanide Radon Analyzer CI, F, P, S, 4 Discharge Total Diss. Solids	4 (FOR LAB USE ONLY) 2041228-3 LOGIN: [Signature] LOGGED BY: [Signature] LAB PROJ: [Signature] TEMP: [Signature] PROJ: [Signature]
	PHONE NUMBER	FAX NUMBER	DATE SHIPPED			
	ADDRESS		MATRIX TYPES:			
	CITY, STATE, ZIP		OTHER:			
2	DATE RECEIVED	TIME RECEIVED	DATE SHIPPED	TIME SHIPPED		REMARKS
MW-13	4/10/12	1040	GW	5	X X X X X	
MW-14	↓	1010	↓	↓	↓ ↓ ↓ ↓ ↓	
MW-15	↓	0930	↓	↓	↓ ↓ ↓ ↓ ↓	
5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH DATE RESULTS NEEDED		6 The sample temperature will be measured upon receipt at the lab. By highlighting this area you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not highlighting this area you allow the lab to proceed with analytical testing regardless of the sample temperature.		8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT: _____ °C CHILL PROCESS STARTED PRIOR TO RECEIPT: Y OR N SAMPLE(S) RECEIVED ON ICE: Y OR N PROPER BOTTLES RECEIVED IN GOOD CONDITION: Y OR N BOTTLES FILLED WITH ADEQUATE VOLUME: Y OR N SAMPLES RECEIVED WITHIN HOLD TIME(S): Y OR N (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE		
7 RELINQUISHED BY: (SIGNATURE) DATE TIME		RECEIVED BY: (SIGNATURE) DATE TIME		8 COMMENTS: (FOR LAB USE ONLY) DATE AND TIME TAKEN FROM SAMPLE BOTTLE		
RELINQUISHED BY: (SIGNATURE) DATE TIME		RECEIVED BY: (SIGNATURE) DATE TIME		8 COMMENTS: (FOR LAB USE ONLY) DATE AND TIME TAKEN FROM SAMPLE BOTTLE		
RELINQUISHED BY: (SIGNATURE) DATE TIME		RECEIVED AT LAB BY: (SIGNATURE) DATE TIME		8 COMMENTS: (FOR LAB USE ONLY) DATE AND TIME TAKEN FROM SAMPLE BOTTLE		

Copies: white should accompany samples to PDC Labs. Yellow copy to be retained by the client.

PAGE _____ OF _____



Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

May 10, 2012

Ms. Janet Clutters
PDC Laboratories
2231 W. Altorfer Drive
Peoria, IL 61615

RE: Project: 2041228
Pace Project No.: 3067792

Dear Ms. Clutters:

Enclosed are the analytical results for sample(s) received by the laboratory on April 19, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carin Ferris

carin.ferris@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Page 1 of 10

Page 6 of 17

MWG13-15_39608



Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 2041228
Pace Project No.: 3067792

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACCLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH 0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Virgin Island/PADEP Certification
Virginia Certification #: 00112
Virginia VELAP (Cert # 460198)
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 10

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 2041228
Pace Project No.: 3067792

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3067792001	2041228-01	Drinking Water	04/10/12 10:40	04/19/12 09:10
3067792002	2041228-02	Drinking Water	04/10/12 10:10	04/19/12 09:10
3067792003	2041228-03	Drinking Water	04/10/12 09:30	04/19/12 09:10

REPORT OF LABORATORY ANALYSIS

Page 3 of 10

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Page 8 of 17

MWG13-15_39610



Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 2041228
Pace Project No.: 3067792

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3067792001	2041228-01	EPA 903.1	SLA	1	PASI-PA
		EPA 904.0	WRR	1	PASI-PA
3067792002	2041228-02	EPA 903.1	SLA	1	PASI-PA
		EPA 904.0	WRR	1	PASI-PA
3067792003	2041228-03	EPA 903.1	SLA	1	PASI-PA
		EPA 904.0	WRR	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 4 of 10

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Page 9 of 17

MWG13-15_39611



Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 2041228
Pace Project No.: 3067792

Method: EPA 903.1
Description: 903.1 Radium 226
Client: PDC Laboratories, Inc.
Date: May 10, 2012

General Information:

3 samples were analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

Page 5 of 10

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Page 10 of 17

MWG13-15_39612



Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 2041228
Pace Project No.: 3067792

Method: EPA 904.0
Description: 904.0 Radium 228
Client: PDC Laboratories, Inc.
Date: May 10, 2012

General Information:

3 samples were analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

Page 6 of 10

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Page 11 of 17

MWG13-15_39613



Pace Analytical Services, Inc.
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

ANALYTICAL RESULTS

Project: 2041228
 Pace Project No.: 3067792

Sample: 2041228-01 Lab ID: 3067792001 Collected: 04/10/12 10:40 Received: 04/19/12 09:10 Matrix: Drinking Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	0.000 ± 0.320 (0.678)	pCi/L	05/09/12 13:50	13982-63-3	
Radium-228	EPA 904.0	0.438 ± 0.422 (0.883)	pCi/L	05/07/12 11:22	15262-20-1	

Sample: 2041228-02 Lab ID: 3067792002 Collected: 04/10/12 10:10 Received: 04/19/12 09:10 Matrix: Drinking Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	0.167 ± 0.328 (0.601)	pCi/L	05/09/12 14:05	13982-63-3	
Radium-228	EPA 904.0	0.213 ± 0.430 (0.929)	pCi/L	05/07/12 11:21	15262-20-1	

Sample: 2041228-03 Lab ID: 3067792003 Collected: 04/10/12 09:30 Received: 04/19/12 09:10 Matrix: Drinking Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	0.274 ± 0.322 (0.508)	pCi/L	05/09/12 14:07	13982-63-3	
Radium-228	EPA 904.0	-0.0895 ± 0.385 (0.901)	pCi/L	05/07/12 11:23	15262-20-1	



Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 2041228
Pace Project No.: 3067792

QC Batch: RADC/11892 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Associated Lab Samples: 3067792001, 3067792002, 3067792003

METHOD BLANK: 434308 Matrix: Water
Associated Lab Samples: 3067792001, 3067792002, 3067792003

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-228	0.0787 ± 0.109 (0.234)	pCi/L	05/07/12 00:00	



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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 2041228
Pace Project No.: 3067792

QC Batch: RADC/11905 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Associated Lab Samples: 3067792001, 3067792002, 3067792003

METHOD BLANK: 434329 Matrix: Water
Associated Lab Samples: 3067792001, 3067792002, 3067792003

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	± 0.316 (0.637)	pCi/L	05/09/12 12:24	



QUALIFIERS

Project: 2041228
Pace Project No.: 3067792

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

SUBCONTRACT ORDER

PDC Laboratories, Inc.

2041228

SENDING LABORATORY:

- PDC Laboratories, Inc, 2231 W Altorfer Peoria, IL 61615
- PDC Laboratories, Inc, 1805 W Sunset, Springfield, MO 65807
- PDC Laboratories, Inc, 3278 N Highway 67, Florissant, MO 63033

Project Manager: Janet L. Clutters jclutters@pdclab.com Phone: 309-683-1743

Date Shipped 4-16-12
 Sample Origin (State) IL
 PO# L90790
 Total # of Containers 3

RECEIVING LABORATORY:

PACE Analytical - Greensburg
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 Phone :(724) 850-5600

30107797

Analysis	Due	Expires	Comments
Sample ID: 2041228-01 01-Radium 226/228	Water 04/20/12 16:00	Sampled:04/10/12 10:40 10/07/12 10:40	001
Sample ID: 2041228-02 01-Radium 226/228	Water 04/20/12 16:00	Sampled:04/10/12 10:10 10/07/12 10:10	002
Sample ID: 2041228-03 01-Radium 226/228	Water 04/20/12 16:00	Sampled:04/10/12 09:30 10/07/12 09:30	003

Turn-Around Time Requested (circle one): **NORMAL** RUSH Date Results Needed: _____

Relinquished By	Date/Time	Received By	Date/Time	Sample Temperature Upon Receipt	_____ C
<u>Oliver P. Hoge</u>	<u>4-16-12 11:50</u>	<u>[Signature]</u>	<u>4/16/12 11:50</u>	Sample(s) Received on Ice	Y or N
				Proper Bottles Received in Good Condition	Y or N
				Bottles Filled with Adequate Volume	Y or N
				Samples Received Within Hold Time	Y or N
				Date/Time Taken From Sample Bottle	Y or N



Sample Condition Upon Receipt

at

Client Name: PRC Project # 3007792

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 231794215600846

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other Permits

Thermometer Used 5 6 7 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature NA Biological Tissue is Frozen: Yes No Date and Initials of person examining contents: VEL 4/19/12

Temp should be above freezing to 8°C Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>NA</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed <u>VEL</u> Lot # of added preservative <u>REF-0001-S</u>
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Carroll Jones Date: 4/12/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALL-C003-6 SCURF front 2April2012.xls



April 18, 2011

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Subject: Quarterly Groundwater Monitoring Results – First Quarter 2011
Powerton Generating Station- Ash Impoundment

Reference: Patrick Project No. 21153.018

To Whom It May Concern:

Patrick Engineering Inc. (Patrick) has prepared this letter report, on behalf of Midwest Generation, LLC, to provide groundwater monitoring results associated with the on-site ash ponds at the Powerton Generating Station located at 13082 East Manito Rd. in Pekin, Illinois (Figure 1). This groundwater monitoring is being performed as part of the long-term monitoring plan described in the Hydrogeologic Assessment Report submitted to the Illinois Environmental Protection Agency (Illinois EPA) in February 2011.

SAMPLING METHODOLOGY

In accordance with the long-term monitoring plan referenced above, water samples are collected quarterly from ten monitoring wells (MW-1 through MW-10) surrounding the ash impoundments at the Powerton facility. The well locations are shown on Figure 2. These wells were most recently sampled on March 25, 2011.

Monitoring wells MW-2, MW-3, MW-4, and MW-5 are located behind a rail loop. Due to a limited amount of time for sampling because of an incoming coal train, samples were collected in these four wells using disposable polyethylene bailers. Each well was purged until at least three well volumes had been extracted. Groundwater was then bailed into a decontaminated, stainless steel container and thereafter transferred to the sampling containers via peristaltic pump.

The groundwater elevation in each of the ten wells was measured prior to sampling. Groundwater samples were collected from MW-1, MW-6, MW-7, MW-8, MW-9 and MW-10 with a peristaltic pump using low flow sampling techniques.

Field parameters including, temperature, turbidity, conductivity, dissolved oxygen (DO), oxygen reduction potential (ORP), and pH measurements were taken at each of the ten wells using a portable meter with a flow through cell. All groundwater samples were filtered in the field using

Quarterly Groundwater Monitoring Results – First Quarter 2011
Powerton Generating Station- Ash Impoundment
April 18, 2011

a disposable, 0.45µm, in-line filter to allow for the analytical testing of dissolved compounds. Groundwater elevation data is summarized in Table 1 and shown on Figure 3. Field parameter data is provided in Table 2.

ANALYTICAL RESULTS

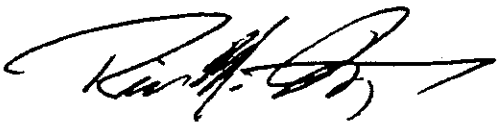
After collection, all samples were immediately placed on ice in a cooler and kept at a temperature no higher than 4° F. The samples were transported to TestAmerica Laboratories, an Illinois-EPA accredited analytical laboratory, in accordance with chain-of-custody procedures to maintain sample integrity. Analytes tested included the inorganic compounds listed in 35 Illinois Administrative Code (IAC) 620.410(a), excluding both radium and the poly-aromatic hydrocarbons (PAHs) listed in 35 IAC 620.410(b). Analytical laboratory results are presented in Table 3 (both current and historical). The laboratory analytical reports provided by PDC Laboratories are provided as Attachment A.

In accordance with the long-term monitoring plan, groundwater samples from the ash pond wells at the Powerton facility will continue to be collected, analyzed, and reported to Illinois EPA on a quarterly basis until sufficient statistically-significant data is available to properly assess the groundwater data.

If you have any questions, please contact me at 630-795-7464.

Sincerely,

PATRICK ENGINEERING INC.

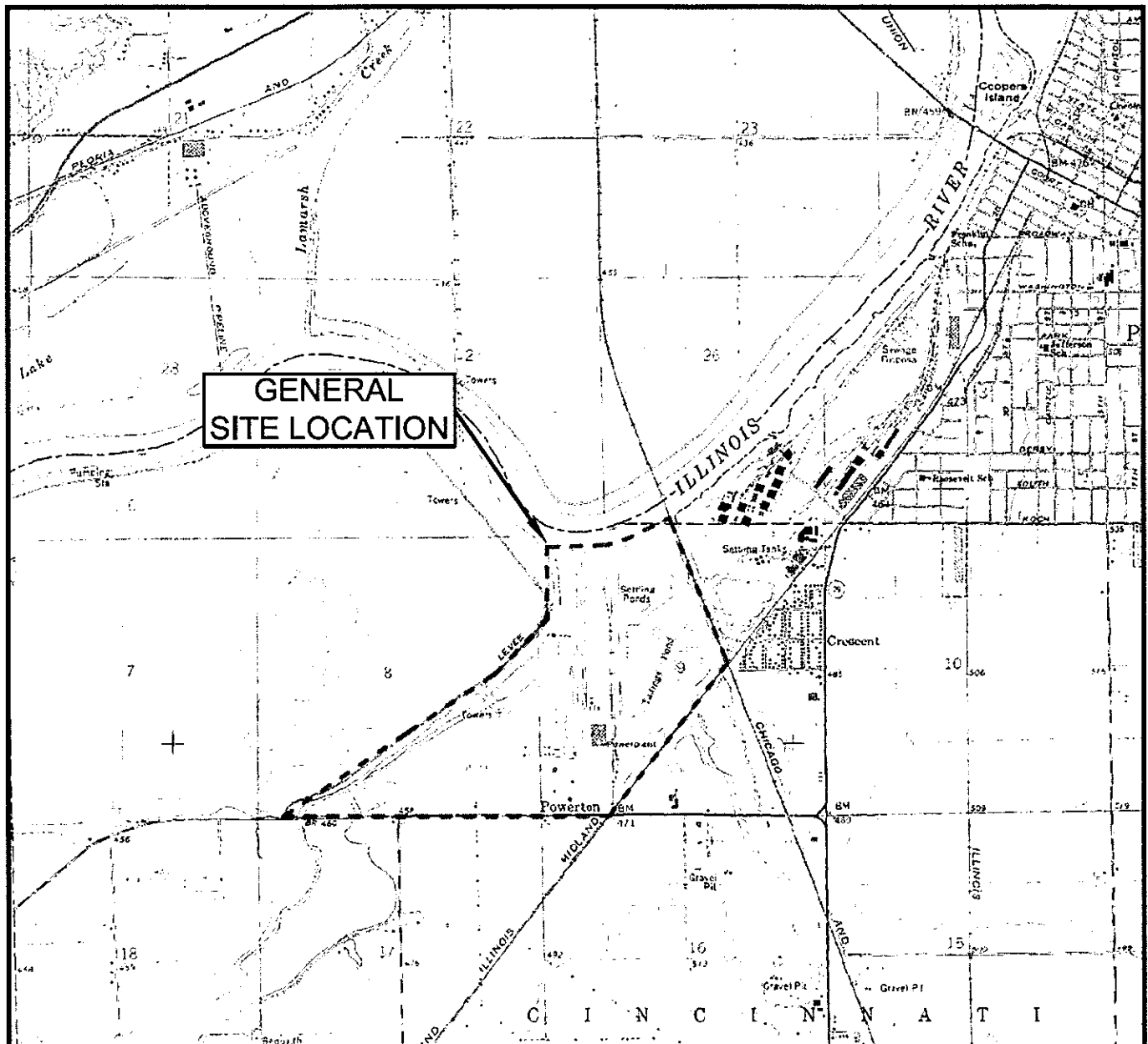


Richard M. Frendt, P.E
Senior Project Manager

RMF/DCM

Enclosures: Figure 1: Site Location Map
Figure 2: Monitoring Well Location Map
Figure 3: Groundwater Elevation Map
Table 1: Field Parameter Data
Table 2: Groundwater Elevation Survey Data
Table 3: Groundwater Analytical Results
Attachment A: Laboratory Data

FIGURE 1
SITE LOCATION MAP

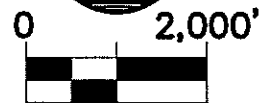


**GENERAL
SITE LOCATION**

LEGEND

--- SITE BOUNDARY

NOTE:
THIS DRAWING WAS PREPARED USING ILLINOIS' PEKIN (1979)
7.5 MINUTE-SERIES TOPOGRAPHIC QUADRANGLE MAP.



GRAPHIC SCALE

Date: **APRIL 2011**

Proj No.: **21153.018**

App. By: **RMF**

**FIGURE 1
SITE LOCATION MAP**

**POWERTON STATION
PEKIN, ILLINOIS**



4970 Varsity Drive
Lisle, Illinois 60532-4101

TEL. (630) 795-7200
FAX (630) 724-1681

PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000409

FIGURE 2
MONITORING WELL LOCATION MAP .



LEGEND

 MW-01 Monitoring Well Location

AERIAL IMAGE SOURCE:
2005 ORTHOPHOTO TAKEN FROM THE ILLINOIS NATURAL RESOURCES
CLEARINGHOUSE



1" = 600'

Date: APRIL 2011

Proj No.: 21153.018

App. By: RMF

FIGURE 2
MONITORING WELL LOCATION MAP
POWERTON STATION
PEKIN, ILLINOIS

PATRICK
ENGINEERING INC.

4970 Varsity Drive
Lisle, Illinois 60532-4101

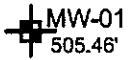
TEL. (630) 795-7200
FAX (630) 724-1681

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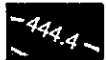
FIGURE 3
GROUNDWATER ELEVATION MAP



LEGEND



MONITORING WELL LOCATION WITH
GROUNDWATER ELEVATION (FT. / MSL)



GROUNDWATER FLOW DIRECTION
GROUNDWATER ELEVATION CONTOUR (FT. / MSL)



1" = 600'

AERIAL IMAGE SOURCE:
2005 ORTHOPHOTO TAKEN FROM THE ILLINOIS NATURAL RESOURCES CLEARINGHOUSE

Date: APRIL 2011

Proj No.: 21153.018

App. By: RMF

FIGURE 3
GROUNDWATER ELEVATION MAP
POWERTON STATION
PEKIN, ILLINOIS

PATRICK
ENGINEERING INC.

4970 Varsity Drive
Lisle, Illinois 60532-4101

TEL (630) 795-7200
FAX (630) 724-1681

PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000409

TABLE 1
FIELD PARAMETER DATA


Table 1
 Field Parameter Data
 Powerton Station, Pekin, Illinois
 Midwest Generation
 21153.018
 April 18, 2011

Field Parameter Data - Powerton Station								
Monitoring Well	Date	Time	Temperature (°C)	Conductivity (ms/cm ^c)	Turbidity (NTU)	pH	DO (mg/L)	ORP (mV)
MW-1	3/25/2011	8:48	3.97	0.65	105.6	7.67	8.49	131.6
MW-1	3/25/2011	8:50	3.92	0.64	47.8	7.54	8.30	133.6
MW-1	3/25/2011	8:52	3.90	0.64	1.9	7.59	7.96	135.9
MW-1	3/25/2011	8:54	3.88	0.64	47.9	7.46	7.89	137.9
MW-1	3/25/2011	8:56	3.83	0.64	11.2	7.56	7.96	138.8
MW-1	3/25/2011	8:58	3.77	0.64	5.0	7.43	7.76	140.1
MW-2	3/25/2011	11:45	3.26	0.74	814.3	7.78	7.78	124.5
MW-3	3/25/2011	11:12	5.24	0.74	347.5	7.55	7.20	135.1
MW-4	3/25/2011	10:43	13.33	1,299.60	7.5	7.48	3.93	116.5
MW-5	3/25/2011	10:13	14.35	1.16	119.0	7.36	3.95	110.1
MW-6	3/25/2011	9:36	15.59	1.60	12.6	7.97	1.19	-114.9
MW-6	3/25/2011	9:38	15.80	1.62	16.6	7.95	0.60	-127.9
MW-6	3/25/2011	9:40	16.28	1.62	10.5	7.94	0.43	-132.9
MW-6	3/25/2011	9:42	16.36	1.63	15.9	7.94	0.29	-133.7
MW-6	3/25/2011	9:44	16.39	1.63	9.7	7.96	0.35	-136.5
MW-6	3/25/2011	9:46	16.38	1.63	10.0	7.97	0.24	-137.5
MW-7	3/25/2011	12:30	15.76	1.88	167.1	7.19	2.32	-70.7
MW-7	3/25/2011	12:32	15.97	1.96	111.4	7.12	0.73	-79.6
MW-7	3/25/2011	12:34	16.00	1.99	96.6	7.07	0.93	-79.6
MW-7	3/25/2011	12:36	16.19	1.99	168.2	7.05	0.65	-80.5
MW-7	3/25/2011	12:38	16.27	1.98	286.7	7.05	0.37	-81
MW-7	3/25/2011	12:40	16.47	1.98	200.3	7.04	0.61	-81.6
MW-8	3/25/2011	13:26	17.70	1.67	21.1	8.21	1.08	-182.4
MW-8	3/25/2011	13:28	17.92	1.68	50.3	8.15	1.38	-180
MW-8	3/25/2011	13:30	17.84	1.68	152.0	8.16	0.32	-185.1
MW-8	3/25/2011	13:32	18.00	1.67	96.0	8.17	0.27	-187.3
MW-8	3/25/2011	13:34	17.95	1.67	43.4	8.17	0.35	-188.8
MW-8	3/25/2011	13:36	18.15	1.67	1,340.5	8.17	0.25	-190.8
MW-9	3/25/2011	7:17	12.71	0.83	16.4	7.45	1.92	67.2
MW-9	3/25/2011	7:19	12.82	0.84	61.5	7.36	0.85	53.7
MW-9	3/25/2011	7:21	13.01	0.84	13.8	7.33	0.76	46.7
MW-9	3/25/2011	7:23	13.07	0.85	60.0	7.33	0.42	33
MW-9	3/25/2011	7:25	13.06	0.84	105.9	7.32	0.33	32
MW-9	3/25/2011	7:27	13.16	0.85	22.9	7.34	0.39	-5
MW-9	3/25/2011	7:29	13.19	0.85	112.7	7.34	0.27	21.2
MW-10	3/25/2011	8:04	11.86	0.91	16.5	7.08	1.27	113.3
MW-10	3/25/2011	8:06	11.94	0.91	14.0	7.03	0.75	109.9
MW-10	3/25/2011	8:08	12.00	0.92	13.0	7.02	0.52	108.6
MW-10	3/25/2011	8:10	12.04	0.91	11.3	7.01	0.32	107.7
MW-10	3/25/2011	8:12	12.04	0.92	8.7	7.01	0.51	107
MW-10	3/25/2011	8:14	11.98	0.92	9.5	7.01	0.29	106.4

Notes:
 °C degrees Celcius
 ms/cm^c Microsiemens/Centimeters
 NTU Nephelometric Turbidity Units
 mg/L milligrams/Liter
 mV millivolts

TABLE 2
GROUNDWATER ELEVATION SURVEY DATA

Table 2
 Groundwater Elevation Survey Data
 Powerton Station, Pekin, Illinois
 Midwest Generation
 21153.018
 April 18, 2011

 PATRICK ENGINEERING	Date	Water Elevation	Depth to Water Pre-Purge	Depth to Water Pre-Sampling	Water Elevation Pre-Sampling	Depth to Bottom of Well	Bottom of Well Elevation	Ground Elevation	Top of Riser Elevation
MONITORING WELLS									
MW-1	3/25/2011	445.129	19.93	19.93	445.129	34.09	430.969	461.667	465.059
MW-2	3/25/2011	443.402	19.02	19.06	443.362	37.11	425.312	459.246	462.422
MW-3	3/25/2011	444.084	18.26	18.26	444.084	37.29	425.054	459.098	462.344
MW-4	3/25/2011	443.219	17.26	17.26	443.219	37.09	423.389	457.290	460.479
MW-5	3/25/2011	443.421	15.16	15.15	443.431	34.79	423.791	455.799	458.581
MW-6	3/25/2011	446.706	17.76	17.75	446.716	32.60	431.866	461.224	464.466
MW-7	3/25/2011	-19.880	19.88	23.37	-23.370	40.11	-40.110		
MW-8	3/25/2011	447.733	24.00	24.00	447.733	33.55	438.183	468.698	471.733
MW-9	3/25/2011	447.136	22.05	22.06	447.126	35.13	434.056	466.214	469.186
MW-10	3/25/2011	445.426	11.96	11.96	445.426	32.50	424.886	454.093	457.386

Notes: - Elevations are leveled from site control points per Drawing "Control Network, IL State Plane (West Zone)


Powerton Station" revised 10/22/2010

- Elevations are shown in feet

- New elevation data for MW-7 will be taken on 4-19-11

TABLE 3
GROUNDWATER ANALYTICAL RESULTS

Table 3
Groundwater Analytical Results
Powerton Station, Illinois
Midwest Generation
21153.018
April 18, 2011

 PATRICK ENGINEERING	Sample Analysis Method	Groundwater Quality Standard (mg/L)	MW-1	MW-1	MW-2	MW-2	MW-3	MW-3	MW-4	MW-4	MW-5	MW-5	
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
			Class I*	12/15/10	3/25/11	12/15/10	3/25/11	12/15/10	3/25/11	12/15/10	3/25/11	12/15/10	3/25/11
Chemical Name													
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Arsenic	Metals 6020	0.05	ND	ND	0.0018	0.0015	0.0017	ND	ND	ND	0.0011	ND	
Barium	Metals 6020	2.0	0.044	0.026	0.042	0.025	0.038	0.03	0.055	0.052	0.053	0.048	
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	ND	ND	0.0044	0.0042	
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	0.0026	0.0025	0.0023	
Copper	Metals 6020	0.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Iron	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	ND	0.017	0.013	0.05	
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Manganese	Metals 6020	0.15	ND	ND	ND	0.0012	0.0047	0.0023	ND	0.68	0.51	0.49	
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Nickel	Metals 6020	0.1	0.01	0.008	0.0086	0.0096	0.011	0.0095	0.012	0.012	0.014	0.013	
Selenium	Metals 6020	0.05	0.0016	0.0022	0.017	0.0032	ND	0.0036	0.0022	0.0037	0.0019	0.003	
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Boron	Metals 6020	2	0.45	0.26	0.38	0.23	0.75	0.18	0.77	0.83	0.95	0.93	
Sulfate	Dissolved 9038	400	50	30	52	42	64	42	110	140	160	170	
Chloride	Dissolved 9251	200	46	37	45	43	39	52	150	77	150	120	
Nitrogen/Nitrate	Nitrogen By calc	10	7.2	4.3	7.5	4.5	9.4	5.2	0.34	0.73	ND	ND	
Total Dissolved Solids	Dissolved 2540C	1,200	190	340	480	420	480	430	680	620	740	680	
Fluoride	Dissolved 4500 FC	4	0.28	0.32	ND	0.3	0.3	0.35	0.3	0.39	0.27	ND	

Notes:


*Class I Groundwater Standards from 35 IAC Part 620

Bold values show exceedences of 35 IAC Part 620

ND- non detect

mg/L- milligrams per liter

Table 3
Groundwater Analytical Results
Powerton Station, Illinois
Midwest Generation
21153.018
April 18, 2011

 PATRICK ENGINEERING	Sample Analysis Method	Groundwater Quality Standard (mg/L)	MW-6	MW-6	MW-7	MW-7	MW-8	MW-8	MW-9	MW-9	MW-10	MW-10	
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
			Class I*	12/15/10	3/25/11	12/06/10	3/25/11	12/15/10	3/25/11	12/16/10	3/25/11	12/15/10	3/25/11
Chemical Name													
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Arsenic	Metals 6020	0.05	0.0042	0.0024	0.026	0.085	0.0052	0.0039	ND	0.0018	ND	ND	
Barium	Metals 6020	2.0	0.11	0.092	0.55	0.52	0.11	0.12	0.038	0.042	0.24	0.28	
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cadmium	Metals 6020	0.005	ND	ND	0.0026	ND	ND	ND	ND	ND	ND	ND	
Chromium	Metals 6020	0.1	0.006	0.0083	0.0088	0.0075	ND	0.0081	ND	ND	ND	ND	
Cobalt	Metals 6020	1.0	ND	ND	0.017	0.0056	ND	ND	ND	ND	0.0026	0.0027	
Copper	Metals 6020	0.65	ND	ND	0.14	ND	ND	ND	ND	ND	ND	ND	
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Iron	Metals 6020	5.0	0.016	0.0016	0.008	0.0075	0.56	0.0021	ND	0.066	ND	ND	
Lead	Metals 6020	0.0075	ND	ND	0.039	ND	ND	ND	ND	ND	ND	ND	
Manganese	Metals 6020	0.15	0.68	0.68	3.5	5.9	0.15	0.27	0.23	0.45	2.1	2.8	
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Nickel	Metals 6020	0.1	0.0091	0.014	0.0045	0.021	0.011	0.013	0.01	0.0093	0.015	0.016	
Selenium	Metals 6020	0.05	0.0034	ND	0.0043	0.0026	0.0036	0.0013	0.0024	0.072	0.0042	0.0064	
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	Metals 6020	5.0	0.0064	ND	0.076	ND	ND	ND	ND	ND	ND	ND	
Boron	Metals 6020	2	0.005	0.35	0.6	0.44	0.93	0.72	2.1	1.9	0.48	0.48	
Sulfate	Dissolved 9038	400	210	250	120	49	160	240	110	110	62	64	
Chloride	Dissolved 9251	200	180	200	170	200	180	210	25	28	40	43	
Nitrogen/Nitrate	Nitrogen By calc	10	0.037	ND	0.043	0.08	ND	ND	2.9	5.6	3	4	
Total Dissolved Solids	Dissolved 2540C	1,200	950	990	860	1,100	890	990	500	510	530	520	
Fluoride	Dissolved 4500 FC	4	0.65	0.61	0.47	0.42	0.77	0.76	ND	0.31	ND	0.3	

Notes:

*Class I Groundwater Standards from 35 IAC Part 620

Bold values show exceedences of 35 IAC Part 620

ND- non detect

mg/L- milligrams per liter

ATTACHMENT A
LABORATORY DATA



PDC Laboratories, Inc.
P.O. Box 9071 • Peoria, IL 61612-9071
(309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689



Midwest Generation - Powerton Facility
13082 E Manito Road
Pekin, IL 61554
Attn: Joe Heredia

Date Received: 03/25/11 14:50
Report Date: 04/05/11
Customer #: 233203
PO#: 4500071934

Sample No: 1032679-01
Sample Description: WELL #1

Collect Date: 03/25/11 09:00
Matrix: Ground Water Grab

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - PIA					
Cyanide	< 0.0050 mg/L		04/04/11 10:23	Igth	335.4
Solids - total dissolved solids (TDS)	340 mg/L		03/28/11 13:10	BRS	SM 2540C 18Ed
Soluble Anions - PIA					
Chloride	37 mg/L		03/25/11 20:23	JFA	EPA 300.0 R2.1
Fluoride	0.32 mg/L		03/25/11 19:35	JFA	EPA 300.0 R2.1
Nitrate-N	4.3 mg/L		03/25/11 20:23	JFA	EPA 300.0 R2.1
Sulfate	30 mg/L		03/25/11 20:23	JFA	EPA 300.0 R2.1
Soluble Metals - PIA					
Antimony	< 3.0 ug/L		03/29/11 11:53	JMW	SW 6020
Arsenic	< 1.0 ug/L		03/29/11 11:53	JMW	SW 6020
Barium	26 ug/L		03/29/11 11:53	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/29/11 11:53	JMW	SW 6020
Boron	260 ug/L		03/29/11 11:53	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/29/11 11:53	JMW	SW 6020
Chromium	< 4.0 ug/L		03/29/11 11:53	JMW	SW 6020
Cobalt	< 2.0 ug/L		03/29/11 11:53	JMW	SW 6020
Copper	< 3.0 ug/L		03/29/11 11:53	JMW	SW 6020
Iron	< 0.010 mg/L		03/31/11 13:06	KJP	SW 6010B
Lead	< 1.0 ug/L		03/29/11 11:53	JMW	SW 6020
Manganese	< 1.0 ug/L		03/29/11 11:53	JMW	SW 6020
Mercury	< 0.20 ug/L		03/29/11 11:53	JMW	SW 6020
Nickel	8.0 ug/L		03/29/11 11:53	JMW	SW 6020
Selenium	2.2 ug/L		03/29/11 11:53	JMW	SW 6020
Silver	< 5.0 ug/L		03/29/11 11:53	JMW	SW 6020
Thallium	< 1.0 ug/L		03/29/11 11:53	JMW	SW 6020
Zinc	< 6.0 ug/L		03/29/11 11:53	JMW	SW 6020

Sample No: 1032679-02
Sample Description: WELL #2

Collect Date: 03/25/11 11:55
Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - PIA					
Cyanide	< 0.0050 mg/L		04/04/11 10:24	Igth	335.4
Solids - total dissolved solids (TDS)	420 mg/L		03/28/11 13:10	BRS	SM 2540C 18Ed

1032679



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Midwest Generation - Powerton Facility
 13082 E Manito Road
 Pekin, IL 61554
 Attn: Joe Heredia

Date Received: 03/25/11 14:50
 Report Date: 04/05/11
 Customer #: 233203
 PO#: 4500071934

Sample No: 1032679-02
 Sample Description: WELL #2

Collect Date: 03/25/11 11:55
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Anions - PIA</u>					
Chloride	43 mg/L		03/25/11 21:58	JFA	EPA 300.0 R2.1
Fluoride	0.30 mg/L		03/25/11 21:43	JFA	EPA 300.0 R2.1
Nitrate N	4.5 mg/L		03/25/11 21:58	JFA	EPA 300.0 R2.1
Sulfate	42 mg/L		03/25/11 21:58	JFA	EPA 300.0 R2.1
<u>Soluble Metals - PIA</u>					
Antimony	< 3.0 ug/L		03/29/11 12:42	JMW	SW 6020
Arsenic	1.5 ug/L		03/29/11 12:42	JMW	SW 6020
Barium	25 ug/L		03/29/11 12:42	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/29/11 12:42	JMW	SW 6020
Boron	230 ug/L		03/29/11 12:42	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/29/11 12:42	JMW	SW 6020
Chromium	< 4.0 ug/L		03/29/11 12:42	JMW	SW 6020
Cobalt	< 2.0 ug/L		03/29/11 12:42	JMW	SW 6020
Copper	< 3.0 ug/L		03/29/11 12:42	JMW	SW 6020
Iron	< 0.010 mg/L		03/31/11 13:09	KJP	SW 6010B
Lead	< 1.0 ug/L		03/29/11 12:42	JMW	SW 6020
Manganese	1.2 ug/L		03/29/11 12:42	JMW	SW 6020
Mercury	< 0.20 ug/L		03/29/11 12:42	JMW	SW 6020
Nickel	9.6 ug/L		03/29/11 12:42	JMW	SW 6020
Selenium	3.2 ug/L		03/29/11 12:42	JMW	SW 6020
Silver	< 5.0 ug/L		03/29/11 12:42	JMW	SW 6020
Thallium	< 1.0 ug/L		03/29/11 12:42	JMW	SW 6020
Zinc	< 6.0 ug/L		03/29/11 12:42	JMW	SW 6020

Sample No: 1032679-03
 Sample Description: WELL #3

Collect Date: 03/25/11 11:15
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - PIA</u>					
Cyanide	< 0.0050 mg/L		04/04/11 10:25	lgth	335.4
Solids - total dissolved solids (TDS)	430 mg/L		03/28/11 13:10	BRS	SM 2540C 18Ed
<u>Soluble Anions - PIA</u>					
Chloride	52 mg/L		03/25/11 22:30	JFA	EPA 300.0 R2.1
Fluoride	0.35 mg/L		03/25/11 22:14	JFA	EPA 300.0 R2.1
Nitrate-N	5.2 mg/L		03/25/11 22:30	JFA	EPA 300.0 R2.1

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Midwest Generation - Powerton Facility
13082 E Manito Road
Pekin, IL 61554
Attn: Joe Heredia

Date Received: 03/25/11 14:50
Report Date: 04/05/11
Customer #: 233203
PO#: 4500071934

Sample No: 1032679-03
Sample Description: WELL #3

Collect Date: 03/25/11 11:15
Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
Soluble Anions - PIA					
Sulfate	42 mg/L		03/25/11 22:30	JFA	EPA 300.0 R2.1
Soluble Metals - PIA					
Antimony	< 3.0 ug/L		03/29/11 12:48	JMW	SW 6020
Arsenic	< 1.0 ug/L		03/29/11 12:48	JMW	SW 6020
Barium	30 ug/L		03/29/11 12:48	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/29/11 12:48	JMW	SW 6020
Boron	180 ug/L		03/29/11 12:48	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/29/11 12:48	JMW	SW 6020
Chromium	< 4.0 ug/L		03/29/11 12:48	JMW	SW 6020
Cobalt	< 2.0 ug/L		03/29/11 12:48	JMW	SW 6020
Copper	< 3.0 ug/L		03/29/11 12:48	JMW	SW 6020
Iron	< 0.010 mg/L		03/31/11 13:12	KJP	SW 6010B
Lead	< 1.0 ug/L		03/29/11 12:48	JMW	SW 6020
Manganese	2.3 ug/L		03/29/11 12:48	JMW	SW 6020
Mercury	< 0.20 ug/L		03/29/11 12:48	JMW	SW 6020
Nickel	9.5 ug/L		03/29/11 12:48	JMW	SW 6020
Selenium	3.6 ug/L		03/29/11 12:48	JMW	SW 6020
Silver	< 5.0 ug/L		03/29/11 12:48	JMW	SW 6020
Thallium	< 1.0 ug/L		03/29/11 12:48	JMW	SW 6020
Zinc	< 6.0 ug/L		03/29/11 12:48	JMW	SW 6020

Sample No: 1032679-04
Sample Description: WELL #4

Collect Date: 03/25/11 10:45
Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - PIA					
Cyanide	< 0.0050 mg/L		04/04/11 10:26	Igth	335.4
solids total dissolved solids (TD)	620 mg/L		03/28/11 13 10	BR	M 2540C 18Ed
Soluble Anions - PIA					
Chloride	77 mg/L		03/25/11 23:02	JFA	EPA 300.0 R2.1
Fluoride	0.39 mg/L		03/25/11 22:46	JFA	EPA 300.0 R2.1
Nitrate-N	0.73 mg/L		03/25/11 22:46	JFA	EPA 300.0 R2.1
Sulfate	140 mg/L		03/30/11 05:14	JFA	EPA 300.0 R2.1
Soluble Metals - PIA					

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Midwest Generation - Powerton Facility
13082 E Manito Road
Pekin, IL 61554
Attn: Joe Heredia

Date Received: 03/25/11 14:50
Report Date: 04/05/11
Customer #: 233203
PO#: 4500071934

Sample No: 1032679-04
Sample Description: WELL #4

Collect Date: 03/25/11 10:45
Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - PIA</u>					
Antimony	< 3.0 ug/L		03/29/11 12:54	JMW	SW 6020
Arsenic	< 1.0 ug/L		03/29/11 12:54	JMW	SW 6020
Barium	52 ug/L		03/29/11 12:54	JMW	W 6020
Beryllium	< 1.0 ug/L		03/29/11 12:54	JMW	SW 6020
Boron	830 ug/L		03/29/11 12:54	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/29/11 12:54	JMW	SW 6020
Chromium	< 4.0 ug/L		03/29/11 12:54	JMW	SW 6020
Cobalt	2.6 ug/L		03/29/11 12:54	JMW	SW 6020
Copper	< 3.0 ug/L		03/29/11 12:54	JMW	SW 6020
Iron	0.017 mg/L		03/31/11 13:14	KJP	SW 6010B
Lead	< 1.0 ug/L		03/29/11 12:54	JMW	SW 6020
Manganese	680 ug/L		03/29/11 12:54	JMW	SW 6020
Mercury	< 0.20 ug/L		03/29/11 12:54	JMW	SW 6020
Nickel	12 ug/L		03/29/11 12:54	JMW	SW 6020
Selenium	3.7 ug/L		03/29/11 12:54	JMW	SW 6020
Silver	< 5.0 ug/L		03/29/11 12:54	JMW	SW 6020
Thallium	< 1.0 ug/L		03/29/11 12:54	JMW	SW 6020
Zinc	< 6.0 ug/L		03/29/11 12:54	JMW	SW 6020

Sample No: 1032679-05
Sample Description: WELL #5

Collect Date: 03/25/11 10:15
Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - PIA</u>					
Cyanide	< 0.0050 mg/L		04/04/11 10:28	Igth	335.4
Solids - total dissolved solids (TDS)	680 mg/L		03/28/11 13:10	BRS	SM 2540C 18Ed
<u>Soluble Anions - PIA</u>					
Chloride	120 mg/L		03/30/11 05:34	JFA	EPA 300.0 R2.1
Fluoride	0.36 mg/L		03/25/11 23:18	JFA	EPA 300.0 R2.1
Nitrate-N	< 0.02 mg/L		03/25/11 23:18	JFA	EPA 300.0 R2.1
Sulfate	170 mg/L		03/30/11 05:34	JFA	EPA 300.0 R2.1
<u>Soluble Metals - PIA</u>					
Antimony	< 3.0 ug/L		03/29/11 13:00	JMW	SW 6020
Arsenic	< 1.0 ug/L		03/29/11 13:00	JMW	SW 6020
Barium	48 ug/L		03/29/11 13:00	JMW	SW 6020

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Midwest Generation - Powerton Facility
 13082 E Manito Road
 Pekin, IL 61554
 Attn: Joe Heredia

Date Received: 03/25/11 14:50
 Report Date: 04/05/11
 Customer #: 233203
 PO#: 4500071934

Sample No: 1032679-05
 Sample Description: WELL #5

Collect Date: 03/25/11 10:15
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
Soluble Metals - PIA					
Beryllium	< 1.0 ug/L		03/29/11 13:00	JMW	SW 6020
Boron	930 ug/L		03/29/11 13:00	JMW	SW 6020
Cadmium	1.0 ug/L		03/29/11 13:00	JMW	W 6020
Chromium	4.2 ug/L		03/29/11 13:00	JMW	SW 6020
Cobalt	2.3 ug/L		03/29/11 13:00	JMW	SW 6020
Copper	< 3.0 ug/L		03/29/11 13:00	JMW	SW 6020
Iron	0.050 mg/L		03/31/11 13:17	KJP	SW 6010B
Lead	< 1.0 ug/L		03/29/11 13:00	JMW	SW 6020
Manganese	490 ug/L		03/29/11 13:00	JMW	SW 6020
Mercury	< 0.20 ug/L		03/29/11 13:00	JMW	SW 6020
Nickel	13 ug/L		03/29/11 13:00	JMW	SW 6020
Selenium	3.0 ug/L		03/29/11 13:00	JMW	SW 6020
Silver	< 5.0 ug/L		03/29/11 13:00	JMW	SW 6020
Thallium	< 1.0 ug/L		03/29/11 13:00	JMW	SW 6020
Zinc	< 6.0 ug/L		03/29/11 13:00	JMW	SW 6020

Sample No: 1032679-06
 Sample Description: WELL #6

Collect Date: 03/25/11 09:50
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - PIA					
Cyanide	< 0.0050 mg/L		04/04/11 10:29	Igth	335.4
Solids - total dissolved solids (TDS)	990 mg/L		03/28/11 13:10	BRS	SM 2540C 18Ed
Soluble Anions - PIA					
Chloride	200 mg/L		03/30/11 05:54	JFA	EPA 300.0 R2.1
Fluoride	0.61 mg/L		03/25/11 23:50	JFA	EPA 300.0 R2.1
Nitrate-N	< 0.02 mg/L		03/25/11 23:50	JFA	EPA 300.0 R2.1
Sulfate	250 mg/L		03/30/11 05:54	JFA	EPA 300.0 R2.1
Soluble Metals - PIA					
Antimony	< 3.0 ug/L		03/29/11 13:05	JMW	SW 6020
Arsenic	2.4 ug/L		03/29/11 13:05	JMW	SW 6020
Barium	92 ug/L		03/29/11 13:05	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/29/11 13:05	JMW	SW 6020
Boron	350 ug/L		03/29/11 13:05	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/29/11 13:05	JMW	SW 6020

1032679



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Midwest Generation - Powerton Facility
 13082 E Manito Road
 PeKin, IL 61554
 Attn: Joe Heredia

Date Received: 03/25/11 14:50
 Report Date: 04/05/11
 Customer #: 233203
 PO#: 4500071934

Sample No: 1032679-06
 Sample Description: WELL #6

Collect Date: 03/25/11 09:50
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - PIA</u>					
Chromium	8.3 ug/L		03/29/11 13:05	JMW	SW 6020
Cobalt	< 2.0 ug/L		03/29/11 13:05	JMW	SW 6020
Copper	3.0 ug/L		03/29/11 13:05	JMW	W 6020
Iron	1.6 mg/L		03/31/11 13:19	KJP	SW 6010B
Lead	< 1.0 ug/L		03/29/11 13:05	JMW	SW 6020
Manganese	680 ug/L		03/29/11 13:05	JMW	SW 6020
Mercury	< 0.20 ug/L		03/29/11 13:05	JMW	SW 6020
Nickel	14 ug/L		03/29/11 13:05	JMW	SW 6020
Selenium	< 1.0 ug/L		03/29/11 13:05	JMW	SW 6020
Silver	< 5.0 ug/L		03/29/11 13:05	JMW	SW 6020
Thallium	< 1.0 ug/L		03/29/11 13:05	JMW	SW 6020
Zinc	< 6.0 ug/L		03/29/11 13:05	JMW	SW 6020

Sample No: 1032679-07
 Sample Description: WELL #7

Collect Date: 03/25/11 12:45
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - PIA</u>					
Cyanide	< 0.0050 mg/L		04/04/11 10:30	lgth	335.4
Solids - total dissolved solids (TDS)	1100 mg/L		03/28/11 13:10	BRS	SM 2540C 18Ed
<u>Soluble Anions - PIA</u>					
Chloride	200 mg/L		03/30/11 06:14	JFA	EPA 300.0 R2.1
Fluoride	0.42 mg/L		03/26/11 00:53	JFA	EPA 300.0 R2.1
Nitrate-N	0.08 mg/L		03/26/11 00:53	JFA	EPA 300.0 R2.1
Sulfate	49 mg/L		03/26/11 01:09	JFA	EPA 300.0 R2.1
<u>Soluble Metals - PIA</u>					
Antimony	< 3.0 ug/L		03/29/11 13:11	JMW	SW 6020
Arsenic	85 ug/L		03/29/11 13:11	JMW	SW 6020
Barium	520 ug/L		03/29/11 13:11	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/29/11 13:11	JMW	SW 6020
Boron	440 ug/L		03/29/11 13:11	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/29/11 13:11	JMW	SW 6020
Chromium	7.5 ug/L		03/29/11 13:11	JMW	SW 6020
Cobalt	5.6 ug/L		03/29/11 13:11	JMW	SW 6020
Copper	< 3.0 ug/L		03/29/11 13:11	JMW	SW 6020

1032679



PDC Laboratories, Inc.
P.O. Box 9071 • Peoria, IL 61612-9071
(309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689



Midwest Generation - Powerton Facility
13082 E Manito Road
Pekin, IL 61554
Attn: Joe Heredia

Date Received: 03/25/11 14:50
Report Date: 04/05/11
Customer #: 233203
PO#: 4500071934

Sample No: 1032679-07
Sample Description: WELL #7

Collect Date: 03/25/11 12:45
Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - PIA</u>					
Iron	7.5 mg/L		03/31/11 13:21	KJP	SW 6010B
Lead	< 1.0 ug/L		03/29/11 13:11	JMW	SW 6020
Manganese	5900 ug/L		03/29/11 13:11	JMW	W 6020
Mercury	< 0.20 ug/L		03/29/11 13:11	JMW	SW 6020
Nickel	21 ug/L		03/29/11 13:11	JMW	SW 6020
Selenium	2.6 ug/L		03/29/11 13:11	JMW	SW 6020
Silver	< 5.0 ug/L		03/29/11 13:11	JMW	SW 6020
Thallium	< 1.0 ug/L		03/29/11 13:11	JMW	SW 6020
Zinc	< 6.0 ug/L		03/29/11 13:11	JMW	SW 6020

Sample No: 1032679-08
Sample Description: WELL #8

Collect Date: 03/25/11 13:40
Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - PIA</u>					
Cyanide	< 0.0050 mg/L		04/04/11 10:35	Igth	335.4
Solids - total dissolved solids (TDS)	990 mg/L		03/28/11 13:10	BRS	SM 2540C 18Ed
<u>Soluble Anions - PIA</u>					
Chloride	210 mg/L		03/30/11 07:13	JFA	EPA 300.0 R2.1
Fluoride	0.76 mg/L		03/26/11 01:25	JFA	EPA 300.0 R2.1
Nitrate-N	< 0.02 mg/L		03/26/11 01:25	JFA	EPA 300.0 R2.1
Sulfate	240 mg/L		03/30/11 07:13	JFA	EPA 300.0 R2.1
<u>Soluble Metals - PIA</u>					
Antimony	< 3.0 ug/L		03/29/11 13:17	JMW	SW 6020
Arsenic	3.9 ug/L		03/29/11 13:17	JMW	SW 6020
Barium	120 ug/L		03/29/11 13:17	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/29/11 13:17	JMW	SW 6020
Boron	720 ug/L		03/29/11 13:17	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/29/11 13:17	JMW	SW 6020
Chromium	8.1 ug/L		03/29/11 13:17	JMW	SW 6020
Cobalt	< 2.0 ug/L		03/29/11 13:17	JMW	SW 6020
Copper	< 3.0 ug/L		03/29/11 13:17	JMW	SW 6020
Iron	2.1 mg/L		03/31/11 13:28	KJP	SW 6010B
Lead	< 1.0 ug/L		03/29/11 13:17	JMW	SW 6020
Manganese	270 ug/L		03/29/11 13:17	JMW	SW 6020

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Midwest Generation - Powerton Facility
13082 E Manito Road
Pekin, IL 61554
Attn: Joe Heredia

Date Received: 03/25/11 14:50
Report Date: 04/05/11
Customer #: 233203
PO#: 4500071934

Sample No: 1032679-08
Sample Description: WELL #8

Collect Date: 03/25/11 13:40
Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - PIA</u>					
Mercury	< 0.20 ug/L		03/29/11 13:17	JMW	SW 6020
Nickel	13 ug/L		03/29/11 13:17	JMW	SW 6020
Selenium	1.3 ug/L		03/29/11 13:17	JMW	SW 6020
Silver	< 5.0 ug/L		03/29/11 13:17	JMW	SW 6020
Thallium	< 1.0 ug/L		03/29/11 13:17	JMW	SW 6020
Zinc	< 6.0 ug/L		03/29/11 13:17	JMW	SW 6020

Sample No: 1032679-09
Sample Description: WELL #9

Collect Date: 03/25/11 07:30
Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - PIA</u>					
Cyanide	< 0.0050 mg/L		04/04/11 10:35	Igth	335.4
Solids - total dissolved solids (TDS)	510 mg/L		03/28/11 13:10	BRS	SM 2540C 18Ed
<u>Soluble Anions - PIA</u>					
Chloride	28 mg/L		03/26/11 02:13	JFA	EPA 300.0 R2.1
Fluoride	0.31 mg/L		03/26/11 01:57	JFA	EPA 300.0 R2.1
Nitrate-N	5.6 mg/L		03/26/11 02:13	JFA	EPA 300.0 R2.1
Sulfate	110 mg/L		03/30/11 08:13	JFA	EPA 300.0 R2.1
<u>Soluble Metals - PIA</u>					
Antimony	< 3.0 ug/L		03/29/11 13:23	JMW	SW 6020
Arsenic	1.8 ug/L		03/29/11 13:23	JMW	SW 6020
Barium	42 ug/L		03/29/11 13:23	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/29/11 13:23	JMW	SW 6020
Boron	1900 ug/L		03/29/11 13:23	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/29/11 13:23	JMW	SW 6020
Chromium	< 4.0 ug/L		03/29/11 13:23	JMW	SW 6020
Cobalt	< 2.0 ug/L		03/29/11 13:23	JMW	SW 6020
Copper	< 3.0 ug/L		03/29/11 13:23	JMW	SW 6020
Iron	0.066 mg/L		03/31/11 13:30	KJP	SW 6010B
Lead	< 1.0 ug/L		03/29/11 13:23	JMW	SW 6020
Manganese	450 ug/L		03/29/11 13:23	JMW	SW 6020
Mercury	< 0.20 ug/L		03/29/11 13:23	JMW	SW 6020
Nickel	9.3 ug/L		03/29/11 13:23	JMW	SW 6020
Selenium	7.2 ug/L		03/29/11 13:23	JMW	SW 6020

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Midwest Generation - Powerton Facility
 13082 E Manito Road
 Pekin, IL 61554
 Attn: Joe Heredia

Date Received: 03/25/11 14:50
 Report Date: 04/05/11
 Customer #: 233203
 PO#: 4500071934

Sample No: 1032679-09
 Sample Description: WELL #9

Collect Date: 03/25/11 07:30
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
Soluble Metals - PIA					
Silver	< 5.0 ug/L		03/29/11 13:23	JMW	SW 6020
Thallium	< 1.0 ug/L		03/29/11 13:23	JMW	SW 6020
Zinc	6.0 ug/L		03/29/11 13:23	JMW	W 6020

Sample No: 1032679-10
 Sample Description: WELL #10

Collect Date: 03/25/11 08:15
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - PIA					
Cyanide	< 0.0050 mg/L		04/04/11 10:36	lgth	335.4
Solids - total dissolved solids (TDS)	520 mg/L		03/28/11 12:37	BRS	SM 2540C 18Ed
Soluble Anions - PIA					
Chloride	43 mg/L		03/26/11 02:45	JFA	EPA 300.0 R2.1
Fluoride	0.30 mg/L		03/26/11 02:29	JFA	EPA 300.0 R2.1
Nitrate-N	4.0 mg/L		03/26/11 02:45	JFA	EPA 300.0 R2.1
Sulfate	64 mg/L		03/26/11 02:45	JFA	EPA 300.0 R2.1
Soluble Metals - PIA					
Antimony	< 3.0 ug/L		03/29/11 14:19	JMW	SW 6020
Arsenic	< 1.0 ug/L		03/29/11 14:19	JMW	SW 6020
Barium	280 ug/L		03/29/11 14:19	JMW	SW 6020
Beryllium	< 1.0 ug/L		03/29/11 14:19	JMW	SW 6020
Boron	480 ug/L		03/29/11 14:19	JMW	SW 6020
Cadmium	< 1.0 ug/L		03/29/11 14:19	JMW	SW 6020
Chromium	< 4.0 ug/L		03/29/11 14:19	JMW	SW 6020
Cobalt	2.7 ug/L		03/29/11 14:19	JMW	SW 6020
Copper	< 3.0 ug/L		03/29/11 14:19	JMW	SW 6020
Iron	< 0.010 mg/L		04/01/11 12:12	KJP	SW 6010B
Lead	< 1.0 ug/L		03/29/11 14:19	JMW	SW 6020
Manganese	2800 ug/L		03/29/11 14:19	JMW	SW 6020
Mercury	< 0.20 ug/L		03/29/11 14:19	JMW	SW 6020
Nickel	16 ug/L		03/29/11 14:19	JMW	SW 6020
Selenium	6.4 ug/L		03/29/11 14:19	JMW	SW 6020
Silver	< 5.0 ug/L		03/29/11 14:19	JMW	SW 6020
Thallium	< 1.0 ug/L		03/29/11 14:19	JMW	SW 6020
Zinc	< 6.0 ug/L		03/29/11 14:19	JMW	SW 6020

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PDC Laboratories, Inc.

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Midwest Generation - Powerton Facility
13082 E Manito Road
Pekin, IL 61554
Attn: Joe Heredia

Date Received: 03/25/11 14:50
Report Date: 04/05/11
Customer #: 233203
PO#: 4500071934

Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing

Certified by: Elaine Kaufmann, Project Manager

PDC LABORATORIES, INC.
 2231 WEST ALTORFER DRIVE PHONE # 309-692-9688
 PEORIA, IL 61615 FAX # 309-692-9689

CHAIN OF CUSTODY RECORD

State where samples collected IL

CLIENT TO COMPLETE SECTIONS 1, 2, 3, 5 & 7 (PLEASE PRINT)

1 CLIENT MIDWEST GEN - POWERTON		PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	3 ANALYSIS REQUESTED			4 (FOR LAB USE ONLY) LOGIN # <u>1032079-10</u> LOGGED BY: <u>[Signature]</u> LAB PROJ. # <u>MIDWEST GEN</u> TEMPLATE: <u>MARCH_2011</u> PROJ. MGR: <u>EAK</u>			
ADDRESS <u>4983 Varsity Dr. Lisle, IL 60532</u>		PHONE NUMBER <u>630/467-7100</u>	FAX NUMBER <u>630/434-8500</u>	DATE SHIPPED	Dissolved Metals CL, D, F, D, NO3, D, SO4, D, TDS Cyanide						
CITY STATE ZIP PEKIN, IL 61548		SAMPLER (PLEASE PRINT) <u>Justin Jessop</u>		MATRIX TYPES: WW- WASTEWATER DW- DRINKING WATER GW- GROUND WATER WW-SL- SLUDGE NAS- SOLID LCHT- LEACHATE							
CONTACT PERSON MARK KELLY / Dave McCoy		SAMPLER'S SIGNATURE <u>[Signature]</u>		OTHER:							
2 SAMPLE DESCRIPTION AS YOU WANT IT REPORT		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	BOTTLE TYPE	BOTTLE COUNT	REMARKS				
MW-1		<u>3/25/11</u>	<u>0900</u>	X	GW	4	X	X	X	*Sb, As, ba, Be, B, Cd, Cr,	
MW-2		"	<u>1155</u>	X	GW	4	X	X	X	Co, Cu, Fe, Pb, Mn, Hg, Ni,	
MW-3		"	<u>1115</u>	X	GW	4	X	X	X	Se, Ag, Tl, Zn	
MW-4		"	<u>1045</u>	X	GW	4	X	X	X		
MW-5		"	<u>1015</u>	X	GW	4	X	X	X		
MW-6		"	<u>0950</u>	X	GW	4	X	X	X		
MW-7		"	<u>1245</u>	X	GW	4	X	X	X		
MW-8		"	<u>1005</u>	X	GW	4	X	X	X		
MW-9		"	<u>0730</u>	X	GW	4	X	X	X		
MW-10		"	<u>0815</u>	X	GW	4	X	X	X		
5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) RUSH RESULTS VIA (PLEASE CIRCLE) FAX PHONE FAX # IF DIFFERENT FROM ABOVE: _____ PHONE # IF DIFFERENT FROM ABOVE: _____		DATE RESULTS NEEDED			6 The sample temperature will be measured upon receipt of the lab. By initialing this area you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0-18.0°C. By not initialing this area you allow the lab to proceed with analytical testing regardless of the sample temperature.						
7 RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u>		DATE <u>3/25/11</u>	RECEIVED BY: (SIGNATURE)		DATE	8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT <u>6</u> °C CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE					
RELINQUISHED BY: (SIGNATURE)		DATE	RECEIVED BY: (SIGNATURE)		DATE	FOR N FOR N FOR N FOR N Y-ON N					
RELINQUISHED BY: (SIGNATURE)		DATE	RECEIVED BY: (SIGNATURE)		DATE						
RELINQUISHED BY: (SIGNATURE)		DATE	RECEIVED BY: (SIGNATURE)		DATE						

MWG131-3064 Page 11 of 11



August 1, 2011

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Subject: Quarterly Groundwater Monitoring Results – Second Quarter 2011
Powerton Generating Station- Ash Impoundment

Reference: Patrick Project No. 21153.018

To Whom It May Concern:

Patrick Engineering Inc. (Patrick) has prepared this letter report, on behalf of Midwest Generation, LLC, to provide groundwater monitoring results associated with the on-site ash ponds at the Powerton Generating Station located at 13082 East Manito Rd. in Pekin, Illinois (Figure 1). This groundwater monitoring is being performed as part of the long-term monitoring plan described in the Hydrogeologic Assessment Report submitted to the Illinois Environmental Protection Agency (Illinois EPA) in February 2011.

SAMPLING METHODOLOGY

In accordance with the long-term monitoring plan referenced above, water samples are collected quarterly from ten monitoring wells (MW-1 through MW-10) surrounding the ash impoundments at the Powerton facility. The well locations are shown on Figure 2. These wells were most recently sampled on June 16, 2011.

The groundwater elevation in each of the ten wells was measured prior to sampling. Groundwater samples were collected from each well with a peristaltic pump, using established low-flow sampling techniques. Temperature, turbidity, conductivity, dissolved oxygen (DO), oxygen reduction potential (ORP), and pH measurements were taken at each of the wells using a portable meter with a flow through cell. All groundwater samples were filtered in the field using a disposable, 0.45µm, in-line filter to allow for the analytical testing of dissolved compounds. Field parameter data is provided in Table 2.

A groundwater elevation map is shown on Figure 3. Monitoring well elevation data from MW-6 and MW-8 have been excluded from this model. The groundwater levels at the two well locations appear to be in a perched aquifer around the metals cleaning basin and ash pond north of the metals cleaning basin. The perched aquifer is approximately three feet above the other eight monitoring wells on site. Groundwater elevation data is summarized in Table 1. The

Quarterly Groundwater Monitoring Results – Second Quarter 2011
Powerton Generating Station- Ash Impoundment
August 1, 2011

direction of groundwater flow is to the north/northwest towards the Illinois River, which runs along the northern boundary of the Site.

ANALYTICAL RESULTS

After collection, all samples were immediately placed on ice in a cooler and kept at a temperature no higher than 4° F. The samples were transported to TestAmerica Laboratories, an Illinois-EPA accredited analytical laboratory, in accordance with chain-of-custody procedures to maintain sample integrity. Analytes tested included the inorganic compounds listed in 35 Illinois Administrative Code (IAC) 620.410(a), excluding both radium and the poly-aromatic hydrocarbons (PAHs) listed in 35 IAC 620.410(b). Analytical laboratory results are presented in Table 3 (both current and historical). The laboratory analytical reports provided by PDC Laboratories are provided as Attachment A.

In accordance with the long-term monitoring plan, groundwater samples from the ash pond wells at the Powerton facility will continue to be collected, analyzed, and reported to Illinois EPA on a quarterly basis until sufficient statistically-significant data is available to properly assess the groundwater data.

If you have any questions, please contact me at 630-795-7464.

Sincerely,

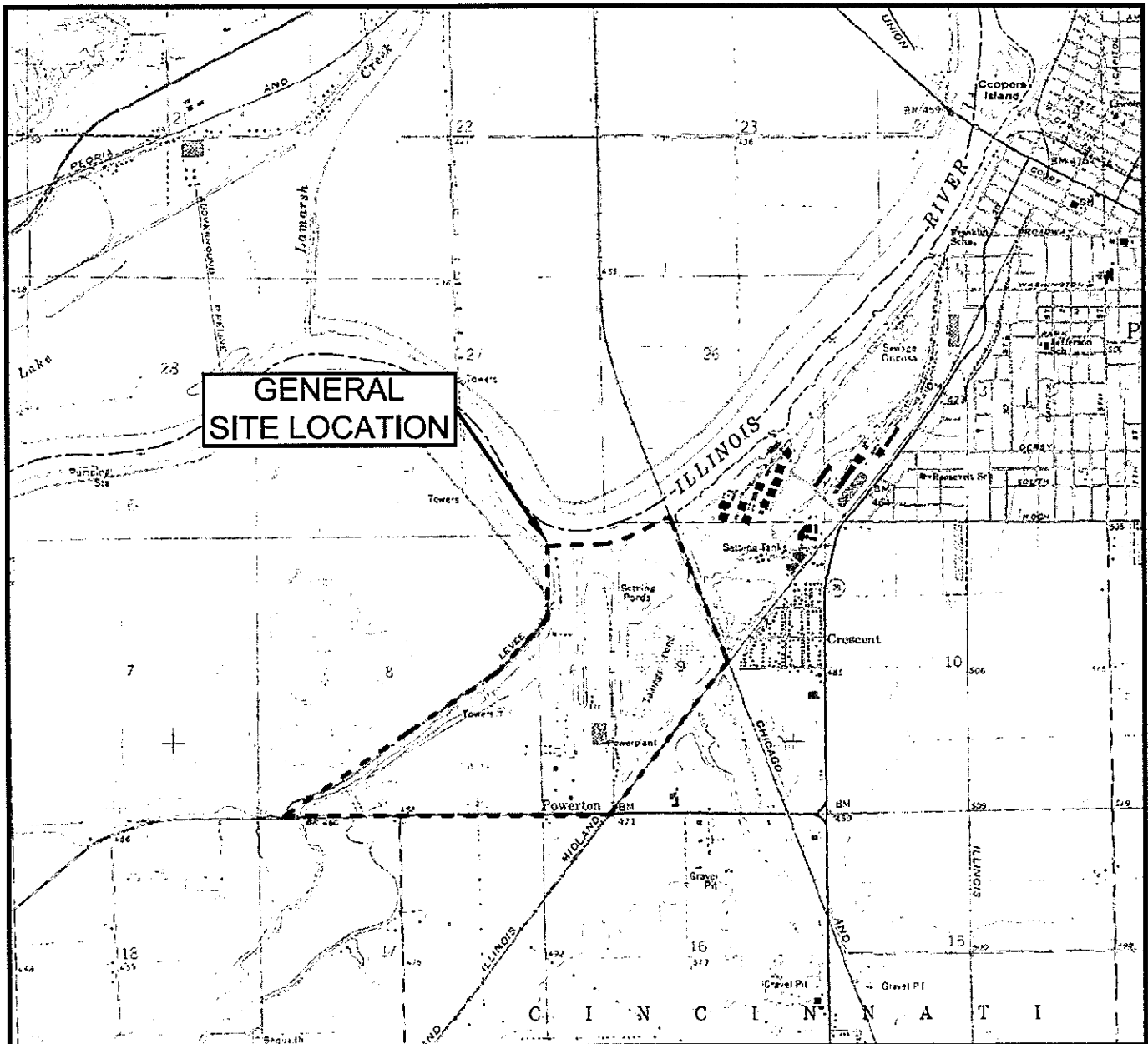
PATRICK ENGINEERING INC.

Richard M. Frendt, P.E
Senior Project Manager

RMF/DCM

Enclosures: Figure 1: Site Location Map
Figure 2: Monitoring Well Location Map
Figure 3: Groundwater Elevation Map
Table 1: Field Parameter Data
Table 2: Groundwater Elevation Survey Data
Table 3: Groundwater Analytical Results
Attachment A: Laboratory Data

FIGURE 1
SITE LOCATION MAP



**GENERAL
SITE LOCATION**

LEGEND

--- SITE BOUNDARY

NOTE:
THIS DRAWING WAS PREPARED USING ILLINOIS' PEKIN (1979)
7.5 MINUTE-SERIES TOPOGRAPHIC QUADRANGLE MAP.



GRAPHIC SCALE

Date: JUNE 2011

Proj No.: 21153.018

App. By: RMF

**FIGURE 1
SITE LOCATION MAP**

**POWERTON STATION
PEKIN, ILLINOIS**



4970 Varsity Drive
Lisle, Illinois 60532-4101

TEL: (630) 795-7200

FAX: (630) 724-1681

PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000408

FIGURE 2
MONITORING WELL LOCATION MAP



LEGEND

⊕ MW-01 Monitoring Well Location



1" = 600'

AERIAL IMAGE SOURCE:
2005 ORTHOPHOTO TAKEN FROM THE ILLINOIS NATURAL RESOURCES
CLEARINGHOUSE

Date: MAY 2011

Proj No.: 21153.018

App. By: RMF

**FIGURE 2
MONITORING WELL LOCATION MAP**

**POWERTON STATION
PEKIN, ILLINOIS**

**PATRICK
ENGINEERING INC.**

4970 Varsity Drive
Lisle, Illinois 60532-4101


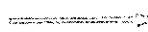

TEL (630) 795-7200
FAX (630) 724-1681

PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000409

FIGURE 3
GROUNDWATER ELEVATION MAP



LEGEND

- 
MW-01
 505.46'
 MONITORING WELL LOCATION WITH
 GROUNDWATER ELEVATION (FT. / MSL)
- 
 GROUNDWATER FLOW DIRECTION
- 
 GROUNDWATER ELEVATION CONTOUR (FT. / MSL)



1" = 600'

AERIAL IMAGE SOURCE:
 2005 ORTHOPHOTO TAKEN FROM THE ILLINOIS NATURAL RESOURCES CLEARINGHOUSE


Date: MAY 2011	FIGURE 3 GROUNDWATER ELEVATION MAP	 PATRICK ENGINEERING INC. <small>4970 Varsity Drive Ursa, Illinois 60532-4101 TEL. (630) 795-7200 FAX (630) 724-1681 PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000409</small>
Proj No.: 21153.018	POWERTON STATION PEKIN, ILLINOIS	
App. By: RMF		

TABLE 1
FIELD PARAMETER DATA

Table 1
 Field Parameter Data
 Powerton Station, Pekin, Illinois
 Midwest Generation
 21153.018



 Field Parameter Data - Powerton Station								
Monitoring Well	Date	Time	Temperature (°C)	Conductivity (ms/cm ^c)	Turbidity (NTU)	pH	DO (mg/L)	ORP (mV)
MW-1	3/25/2011	8:48	3.97	0.65	105.6	7.67	8.49	131.6
MW-1	3/25/2011	8:50	3.92	0.64	47.8	7.54	8.30	133.6
MW-1	3/25/2011	8:52	3.90	0.64	1.9	7.59	7.96	135.9
MW-1	3/25/2011	8:54	3.88	0.64	47.9	7.46	7.89	137.9
MW-1	3/25/2011	8:56	3.83	0.64	11.2	7.56	7.96	138.8
MW-1	3/25/2011	8:58	3.77	0.64	5.0	7.43	7.76	140.1
MW-1	6/16/2011	11:50	11.36	0.70	1.38	7.91	5.48	183.70
MW-1	6/16/2011	11:52	10.30	0.67	1.42	7.68	4.75	205.10
MW-1	6/16/2011	11:54	9.85	0.69	1.39	7.61	4.73	209.80
MW-1	6/16/2011	11:56	9.80	0.69	1.57	7.60	4.82	208.90
MW-1	6/16/2011	11:58	9.73	0.69	1.64	7.59	4.74	209.80
MW-1	6/16/2011	12:00	9.71	0.69	1.71	7.58	4.61	209.80
MW-2	3/25/2011	11:45	3.26	0.74	814.3	7.78	7.78	124.5
MW-2	6/16/2006	6:56	13.23	0.76	0.34	7.74	0.77	202.7
MW-2	6/16/2006	6:58	13.22	0.75	1.26	7.2	0.63	224.6
MW-2	6/16/2006	7:00	13.18	0.75	1.53	7.1	0.60	228.8
MW-2	6/16/2006	7:02	13.17	0.75	2.93	7.08	0.58	230
MW-2	6/16/2006	7:04	13.19	0.75	1.06	7.15	0.57	727.8
MW-2	6/16/2006	7:06	13.14	0.75	1.37	7.2	0.58	226.3
MW-3	3/25/2011	11:12	5.24	0.74	347.5	7.55	7.20	135.1
MW-3	6/16/2011	7:41	15.85	0.74	1.10	7.65	2.00	218.00
MW-3	6/16/2011	7:43	15.72	0.73	1.72	7.40	0.53	211.00
MW-3	6/16/2011	7:45	15.71	0.73	2.24	7.36	0.48	213.40
MW-3	6/16/2011	7:47	15.72	0.73	2.43	7.33	0.44	216.90
MW-3	6/16/2011	7:49	15.72	0.73	2.21	7.33	0.41	219.50
MW-3	6/16/2011	7:51	15.72	0.73	2.09	7.33	0.40	220.5
MW-4	3/25/2011	10:43	13.33	1,299.60	7.5	7.48	3.93	116.5
MW-4	6/16/2011	8:32	17.80	0.76	0.56	7.55	1.92	213.8
MW-4	6/16/2011	8:34	17.64	0.76	0.71	7.35	0.48	204.8
MW-4	6/16/2011	8:36	17.56	0.75	0.63	7.29	0.34	204
MW-4	6/16/2011	8:38	17.59	0.76	0.48	7.27	0.30	203.8
MW-4	6/16/2011	8:40	17.58	0.76	0.52	7.27	0.29	203.1
MW-4	6/16/2011	8:42	17.54	0.75	0.57	7.26	0.26	202.6
MW-5	3/25/2011	10:13	14.35	1.16	119.0	7.36	3.95	110.1
MW-5	6/16/2011	9:26	16.30	1.03	1.33	7.67	1.41	155.30
MW-5	6/16/2011	9:28	16.04	1.00	1.68	7.43	0.17	133.00
MW-5	6/16/2011	9:30	15.97	1.00	1.47	7.36	0.10	116.00
MW-5	6/16/2011	9:32	15.93	1.00	1.33	7.33	0.08	97.50
MW-5	6/16/2011	9:34	15.91	1.00	2.03	7.30	0.07	80.80
MW-5	6/16/2011	9:36	15.83	1.00	1.94	7.29	0.07	70.50
MW-6	3/25/2011	9:36	15.59	1.60	12.6	7.97	1.19	-114.9
MW-6	3/25/2011	9:38	15.80	1.62	16.6	7.95	0.60	-127.9
MW-6	3/25/2011	9:40	16.28	1.62	10.5	7.94	0.43	-132.9
MW-6	3/25/2011	9:42	16.36	1.63	15.9	7.94	0.29	-133.7
MW-6	3/25/2011	9:44	16.39	1.63	9.7	7.96	0.35	-136.5
MW-6	3/25/2011	9:46	16.38	1.63	10.0	7.97	0.24	-137.5
MW-6	6/16/2011	10:12	19.52	1.69	19.32	7.74	0.77	-159.5
MW-6	6/16/2011	10:14	19.21	1.69	18.71	7.65	0.13	-167.9
MW-6	6/16/2011	10:16	19.15	1.68	15.36	7.62	0.08	-161.6
MW-6	6/16/2011	10:18	19.08	1.68	14.42	7.60	0.09	-162
MW-6	6/16/2011	10:20	18.87	1.68	14.59	7.66	0.09	-161.6
MW-6	6/16/2011	10:22	18.99	1.68	14.38	7.62	0.08	-161.9
MW-7	3/25/2011	12:30	15.76	1.88	167.1	7.19	2.32	-70.7
MW-7	3/25/2011	12:32	15.97	1.96	111.4	7.12	0.73	-79.6
MW-7	3/25/2011	12:34	16.00	1.99	96.6	7.07	0.93	-79.6
MW-7	3/25/2011	12:36	16.19	1.99	168.2	7.05	0.65	-80.5
MW-7	3/25/2011	12:38	16.27	1.98	286.7	7.05	0.37	-81
MW-7	3/25/2011	12:40	16.47	1.98	200.3	7.04	0.61	-81.6

Table 1
 Field Parameter Data
 Powerton Station, Pekin, Illinois
 Midwest Generation
 21153.018


 Field Parameter Data - Powerton Station								
Monitoring Well	Date	Time	Temperature (°C)	Conductivity (ms/cm ^c)	Turbidity (NTU)	pH	DO (mg/L)	ORP (mV)
MW-7	6/16/2011	11:10	18.90	2.06	32.13	6.93	0.88	-92
MW-7	6/16/2011	11:12	18.66	2.04	29.84	6.81	0.14	-94.7
MW-7	6/16/2011	11:14	18.52	2.04	27.33	6.76	0.12	-95
MW-7	6/16/2011	11:16	18.55	2.03	28.10	6.76	0.09	-97.3
MW-7	6/16/2011	11:18	18.51	2.02	26.54	6.78	0.11	-93.6
MW-7	6/16/2011	11:20	18.51	2.02	25.91	6.78	0.12	-95.7
MW-8	3/25/2011	13:26	17.70	1.67	21.1	8.21	1.08	-182.4
MW-8	3/25/2011	13:28	17.92	1.68	50.3	8.15	1.38	-180
MW-8	3/25/2011	13:30	17.84	1.68	152.0	8.16	0.32	-185.1
MW-8	3/25/2011	13:32	18.00	1.67	96.0	8.17	0.27	-187.3
MW-8	3/25/2011	13:34	17.95	1.67	43.4	8.17	0.35	-188.8
MW-8	3/25/2011	13:36	18.15	1.67	1,340.5	8.17	0.25	-190.8
MW-8	6/16/2011	16:57	19.53	1.65	9.16	8.04	2.17	-175.6
MW-8	6/16/2011	16:59	18.99	1.63	9.92	7.91	0.18	-190.1
MW-8	6/16/2011	17:01	18.92	1.62	9.74	7.68	0.09	-179.2
MW-8	6/16/2011	17:03	18.85	1.61	9.32	7.62	0.08	-163.2
MW-8	6/16/2011	17:05	18.83	1.61	7.12	7.63	0.08	-176.3
MW-8	6/16/2011	17:07	18.82	1.61	8.89	7.66	0.08	-181.5
MW-9	3/25/2011	7:17	12.71	0.83	16.4	7.45	1.92	67.2
MW-9	3/25/2011	7:19	12.82	0.84	61.5	7.36	0.85	53.7
MW-9	3/25/2011	7:21	13.01	0.84	13.8	7.33	0.76	46.7
MW-9	3/25/2011	7:23	13.07	0.85	60.0	7.33	0.42	33
MW-9	3/25/2011	7:25	13.06	0.84	105.9	7.32	0.33	32
MW-9	3/25/2011	7:27	13.16	0.85	22.9	7.34	0.39	-5
MW-9	3/25/2011	7:29	13.19	0.85	112.7	7.34	0.27	21.2
MW-9	6/16/2011	13:30	16.28	0.85	3.96	7.63	5.10	144.4
MW-9	6/16/2011	13:32	14.96	0.85	3.78	7.34	0.81	131.7
MW-9	6/16/2011	13:34	14.78	0.84	3.51	7.24	0.50	143.2
MW-9	6/16/2011	13:36	14.73	0.84	3.49	7.16	0.51	148.5
MW-9	6/16/2011	13:38	14.61	0.84	3.11	7.11	0.49	149.2
MW-9	6/16/2011	13:40	14.51	0.84	2.97	7.1	0.49	148.2
MW-10	3/25/2011	8:04	11.86	0.91	16.5	7.08	1.27	113.3
MW-10	3/25/2011	8:06	11.94	0.91	14.0	7.03	0.75	109.9
MW-10	3/25/2011	8:08	12.00	0.92	13.0	7.02	0.52	108.6
MW-10	3/25/2011	8:10	12.04	0.91	11.3	7.01	0.32	107.7
MW-10	3/25/2011	8:12	12.04	0.92	8.7	7.01	0.51	107
MW-10	3/25/2011	8:14	11.98	0.92	9.5	7.01	0.29	106.4
MW-10	6/16/2011	12:44	14.82	1.09	2.43	7.16	1.46	117.7
MW-10	6/16/2011	12:46	14.46	1.06	2.29	6.96	0.18	126.8
MW-10	6/16/2011	12:48	14.38	1.05	2.26	6.91	0.11	131.9
MW-10	6/16/2011	12:50	14.36	1.05	1.73	6.89	0.10	134.8
MW-10	6/16/2011	12:52	14.24	1.04	1.14	6.88	0.08	133.4
MW-10	6/16/2011	12:54	14.25	1.04	1.09	6.88	0.08	132.3

Notes:

- °C degrees Celcius
- ms/cm^c Microsiemens/Centimeters
- NTU Nephelometric Turbidity Units
- mg/L milligrams/Liter
- mV milliVolts

TABLE 2
GROUNDWATER ELEVATION SURVEY DATA

Table 2
Groundwater Elevation Survey Data
Powerton Station, Pekin, Illinois
Midwest Generation
21153.018

 PATRICK ENGINEERING	Date	Water Elevation	Depth to Water Pre-Purge	Depth to Water Pre-Sampling	Water Elevation Pre-Sampling	Depth to Bottom of Well	Bottom of Well Elevation	Ground Elevation	Top of Riser Elevation
MONITORING WELLS									
MW-1	3/25/2011	445.129	19.93	19.93	445.129	34.09	430.969	461.667	465.059
MW-1	6/16/2011	447.519	17.54	12.54	452.519	34.09	430.969	461.667	465.059
MW-2	3/25/2011	443.402	19.02	19.06	443.362	37.11	425.312	459.246	462.422
MW-2	6/16/2011	447.182	15.24	15.24	447.182	37.11	425.312	459.246	462.422
MW-3	3/25/2011	444.084	18.26	18.26	444.084	37.29	425.054	459.098	462.344
MW-3	6/16/2011	447.254	15.09	15.09	447.254	37.29	425.054	459.098	462.344
MW-4	3/25/2011	443.219	17.26	17.26	443.219	37.09	423.389	457.290	460.479
MW-4	6/16/2011	446.129	14.35	14.34	446.139	37.09	423.389	457.290	460.479
MW-5	3/25/2011	443.421	15.16	15.15	443.431	34.79	423.791	455.799	458.581
MW-5	6/16/2011	446.961	11.62	11.62	446.961	34.79	423.791	455.799	458.581
MW-6	3/25/2011	446.706	17.76	17.75	446.716	32.60	431.866	461.224	464.466
MW-6	6/16/2011	449.326	15.14	15.16	449.306	32.60	431.866	461.224	464.466
MW-7	3/25/2011	443.347	19.88	23.37	439.857	40.11	423.117	459.647	463.227
MW-7	6/16/2011	446.837	16.39	18.26	444.967	40.11	423.117	459.647	463.227
MW-8	3/25/2011	447.733	24.00	24.00	447.733	33.55	438.183	468.698	471.733
MW-8	6/16/2011	449.263	22.47	22.47	449.263	33.55	438.183	468.698	471.733
MW-9	3/25/2011	447.136	22.05	22.06	447.126	35.13	434.056	466.214	469.186
MW-9	6/16/2011	449.306	19.88	19.89	449.296	35.13	434.056	466.214	469.186
MW-10	3/25/2011	445.426	11.96	11.96	445.426	32.50	424.886	454.093	457.386
MW-10	6/16/2011	447.776	9.61	9.62	447.766	32.50	424.886	454.093	457.386

Notes: - Elevations are leveled from site control points per Drawing "Control Network, IL State Plane (West Zone)


Powerton Station" revised 10/22/2010

- Elevations are shown in feet

- New elevation data for MW-7 will be taken on 4-19-11

TABLE 3
GROUNDWATER ANALYTICAL RESULTS

Table 3
 Groundwater Analytical Results
 Powerton Station, Illinois
 Midwest Generation
 21153.018

 PATRICK ENGINEERING	Sample Analysis Method	Groundwater Quality Standard (mg/L) Class I*	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Chemical Name			12/15/10	3/25/11	6/16/11	12/15/10	3/25/11	6/16/11	12/15/10	3/25/11	6/16/11	12/15/10	3/25/11	6/16/11
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	ND	ND	ND	0.0018	0.0015	0.0017	0.0017	ND	0.0011	ND	ND	ND
Barium	Metals 6020	2.0	0.044	0.026	0.034	0.042	0.025	0.053	0.038	0.03	0.063	0.055	0.052	0.058
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0026	ND
Copper	Metals 6020	0.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.017	ND
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	ND	ND	ND	ND	0.0012	0.0022	0.0047	0.0023	ND	ND	0.68	0.41
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.01	0.008	ND	0.0086	0.0096	0.0053	0.011	0.0095	ND	0.012	0.012	0.0067
Selenium	Metals 6020	0.05	0.0016	0.0022	0.0016	0.017	0.0032	0.0014	ND	0.0036	0.0015	0.0022	0.0037	0.0022
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	0.45	0.26	0.33	0.38	0.23	0.35	0.75	0.18	0.24	0.77	0.83	0.33
Sulfate	Dissolved 9038	400	50	30	39	52	42	53	64	42	47	110	140	48
Chloride	Dissolved 9251	200	46	37	40	45	43	44	39	52	59	150	77	43
Nitrogen/Nitrate	Nitrogen By calc	10	7.2	4.3	5.7	7.5	4.5	4.7	9.4	5.2	5.4	0.34	0.73	2.7
Total Dissolved Solids	Dissolved 2540C	1,200	190	340	410	480	420	470	480	430	440	680	620	470
Fluoride	Dissolved 4500 FC	4	0.28	0.32	0.38	ND	0.3	0.35	0.3	0.35	0.41	0.3	0.39	0.43

Notes:


*Class I Groundwater Standards from 35 IAC Part 620

Bold values show exceedences of 35 IAC Part 620

ND- non detect

mg/L- milligrams per liter

Table 3
Groundwater Analytical Results
Powerton Station, Illinois
Midwest Generation
21153.018

 Chemical Name	Sample Analysis Method	Groundwater Quality Standard (mg/L)	MW-5 (mg/L)	MW-5 (mg/L)	MW-5 (mg/L)	MW-6 (mg/L)	MW-6 (mg/L)	MW-6 (mg/L)	MW-7 (mg/L)	MW-7 (mg/L)	MW-7 (mg/L)	MW-8 (mg/L)	MW-8 (mg/L)	MW-8 (mg/L)
		Class I*	12/15/10	3/25/11	6/16/11	12/15/10	3/25/11	6/16/11	12/06/10	3/25/11	6/16/11	12/15/10	3/25/11	6/16/11
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.0011	ND	ND	0.0042	0.0024	0.0029	0.026	0.085	0.12	0.0052	0.0039	0.0044
Barium	Metals 6020	2.0	0.053	0.048	0.046	0.11	0.092	0.1	0.55	0.52	0.57	0.11	0.12	0.11
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	0.0026	ND	0.0015	ND	ND	ND
Chromium	Metals 6020	0.1	0.0044	0.0042	ND	0.006	0.0083	0.0045	0.0088	0.0075	0.0061	ND	0.0081	0.0059
Cobalt	Metals 6020	1.0	0.0025	0.0023	ND	ND	ND	ND	0.017	0.0056	0.007	ND	ND	ND
Copper	Metals 6020	0.65	ND	ND	ND	ND	ND	0.0032	0.14	ND	ND	ND	ND	0.0036
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	0.13	0.05	0.046	1.6	1.6	1.7	8	7.5	10	0.56	2.1	1.7
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	0.039	ND	0.0014	ND	ND	ND
Manganese	Metals 6020	0.15	0.51	0.49	0.48	0.68	0.68	0.63	3.5	5.9	6.4	0.15	0.27	0.29
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	0.00025	ND	ND	ND
Nickel	Metals 6020	0.1	0.014	0.013	0.0077	0.0091	0.014	0.0078	0.0045	0.021	0.022	0.011	0.013	0.0076
Selenium	Metals 6020	0.05	0.0019	0.003	ND	0.0034	ND	ND	0.0043	0.0026	0.0025	0.0036	0.0013	ND
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	ND	ND	ND	0.0064	ND	ND	0.076	ND	ND	ND	ND	ND
Boron	Metals 6020	2	0.95	0.93	0.79	0.005	0.35	0.43	0.6	0.44	0.43	0.93	0.72	0.64
Sulfate	Dissolved 9038	400	160	170	110	210	250	280	120	49	25	160	240	140
Chloride	Dissolved 9251	200	150	120	89	180	200	160	170	200	140	180	210	140
Nitrogen/Nitrate	Nitrogen By calc	10	ND	ND	0.08	0.037	ND	ND	0.043	0.08	ND	ND	ND	0.1
Total Dissolved Solids	Dissolved 2540C	1,200	740	680	640	950	990	1,100	860	1,100	1,300	890	990	970
Fluoride	Dissolved 4500 FC	4	0.27	ND	0.43	0.65	0.61	0.63	0.47	0.42	0.58	0.77	0.76	0.81

Notes:


*Class I Groundwater Standards from 35 IAC Part 620

Bold values show exceedences of 35 IAC Part 620

ND- non detect

mg/L- milligrams per liter

Table 3
 Groundwater Analytical Results
 Powerton Station, Illinois
 Midwest Generation
 21153.018

 Chemical Name	Sample Analysis Method	Groundwater Quality Standard (mg/L)	MW-9 (mg/L)	MW-9 (mg/L)	MW-9 (mg/L)	MW-10 (mg/L)	MW-10 (mg/L)	MW-10 (mg/L)
		Class I*	12/16/10	3/25/11	6/16/11	12/15/10	3/25/11	6/16/11
		Antimony	Metals 6020	0.006	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	ND	0.0018	0.0017	ND	ND	0.0015
Barium	Metals 6020	2.0	0.038	0.042	0.038	0.24	0.28	0.36
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND
Cobalt	Metals 6020	1.0	ND	ND	ND	0.0026	0.0027	0.0039
Copper	Metals 6020	0.65	ND	ND	ND	ND	ND	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	ND	0.066	ND	ND	ND	0.044
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	0.23	0.45	0.48	2.1	2.8	3.8
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.01	0.0093	0.0063	0.015	0.016	0.015
Selenium	Metals 6020	0.05	0.0024	0.072	0.0017	0.0042	0.0064	0.043
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	2.1	1.9	1.9	0.48	0.48	0.52
Sulfate	Dissolved 9038	400	110	110	110	62	64	67
Chloride	Dissolved 9251	200	25	28	28	40	43	43
Nitrogen/Nitrate	Nitrogen By calc	10	2.9	5.6	5.6	3	4	2.1
Total Dissolved Solids	Dissolved 2540C	1,200	500	510	540	530	520	650
Fluoride	Dissolved 4500 FC	4	ND	0.31	0.34	ND	0.3	0.36

Notes:

*Class I Groundwater Standards from 35 IAC Part 620

Bold values show exceedences of 35 IAC Part 620

ND- non detect

mg/L- milligrams per liter

ATTACHMENT A
LABORATORY DATA



PDC Laboratories, Inc.
P.O. Box 9071 • Peoria, IL 61612-9071
(309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689



Midwest Generation - Powerton Facility
13082 E Manito Rd
Pekin, IL 61554
Attn: Mark Kelly

Date Received: 06/17/11 9:40
Report Date: 07/25/11
Customer #: 233203
PO#: 4500073039

Sample No: 1061883-01
Sample Description: WELL #1

Collect Date: 06/16/11 12:00
Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - PIA					
Cyanide	< 0.0050 mg/L		06/21/11 15:26	Igth	335.4
Solids - total dissolved solids (TDS)	410 mg/L		06/21/11 09:31	BRS	SM 2540C 18Ed
Soluble Anions - PIA					
Chloride	40 mg/L		06/17/11 14:22	JFA	EPA 300.0 R2.1
Fluoride	0.38 mg/L		06/17/11 14:07	JFA	EPA 300.0 R2.1
Nitrate-N	5.7 mg/L		06/17/11 14:22	JFA	EPA 300.0 R2.1
Sulfate	39 mg/L		06/17/11 14:22	JFA	EPA 300.0 R2.1
Soluble Metals - PIA					
Antimony	< 3.0 ug/L		06/23/11 18:00	JMW	SW 6020
Arsenic	< 1.0 ug/L		06/23/11 10:53	JMW	SW 6020
Barium	34 ug/L		06/23/11 18:00	JMW	SW 6020
Beryllium	< 1.0 ug/L		06/23/11 18:00	JMW	SW 6020
Boron	330 ug/L		06/23/11 10:53	JMW	SW 6020
Cadmium	< 1.0 ug/L		06/23/11 10:53	JMW	SW 6020
Chromium	< 4.0 ug/L		06/23/11 10:53	JMW	SW 6020
Cobalt	< 2.0 ug/L		06/23/11 18:00	JMW	SW 6020
Copper	< 3.0 ug/L		06/23/11 18:00	JMW	SW 6020
Iron	< 0.010 mg/L		06/28/11 09:58	kjp	SW 6010B
Lead	< 1.0 ug/L		06/23/11 10:53	JMW	SW 6020
Manganese	< 1.0 ug/L		06/23/11 10:53	JMW	SW 6020
Mercury	< 0.20 ug/L		06/23/11 10:53	JMW	SW 6020
Nickel	< 5.0 ug/L		06/23/11 10:53	JMW	SW 6020
Selenium	1.6 ug/L		06/23/11 08:42	JMW	SW 6020
Silver	< 5.0 ug/L		06/23/11 18:00	JMW	SW 6020
Thallium	< 1.0 ug/L		06/23/11 18:00	JMW	SW 6020
Zinc	< 6.0 ug/L		06/23/11 10:53	JMW	SW 6020

Sample No: 1061883-02
Sample Description: WELL #2

Collect Date: 06/16/11 07:10
Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - PIA					
Cyanide	< 0.0050 mg/L		06/21/11 15:27	Igth	335.4
Solids - total dissolved solids (TDS)	470 mg/L		06/21/11 09:31	BRS	SM 2540C 18Ed

1061883



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Midwest Generation - Powerton Facility
13082 E Manito Rd
Pekin, IL 61554
Attn: Mark Kelly

Date Received: 06/17/11 9:40
Report Date: 07/25/11
Customer #: 233203
PO#: 4500073039

Sample No: 1061883-02
Sample Description: WELL #2

Collect Date: 06/16/11 07:10
Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
Soluble Anions - PIA					
Chloride	44 mg/L		06/17/11 14:53	JFA	EPA 300.0 R2.1
Fluoride	0.35 mg/L		06/17/11 14:37	JFA	EPA 300.0 R2.1
Nitrate N	4.7 mg/L		06/17/11 14:53	JFA	EPA 300.0 R2.1
Sulfate	53 mg/L		06/17/11 14:53	JFA	EPA 300.0 R2.1
Soluble Metals - PIA					
Antimony	< 3.0 ug/L		06/23/11 18:05	JMW	SW 6020
Arsenic	1.7 ug/L		06/23/11 10:57	JMW	SW 6020
Barium	53 ug/L		06/23/11 18:05	JMW	SW 6020
Beryllium	< 1.0 ug/L		06/23/11 18:05	JMW	SW 6020
Boron	350 ug/L		06/23/11 10:57	JMW	SW 6020
Cadmium	< 1.0 ug/L		06/23/11 10:57	JMW	SW 6020
Chromium	< 4.0 ug/L		06/23/11 10:57	JMW	SW 6020
Cobalt	< 2.0 ug/L		06/23/11 18:05	JMW	SW 6020
Copper	< 3.0 ug/L		06/23/11 18:05	JMW	SW 6020
Iron	< 0.010 mg/L		06/28/11 10:00	kjp	SW 6010B
Lead	< 1.0 ug/L		06/23/11 10:57	JMW	SW 6020
Manganese	2.2 ug/L		06/23/11 10:57	JMW	SW 6020
Mercury	< 0.20 ug/L		06/23/11 10:57	JMW	SW 6020
Nickel	5.3 ug/L		06/23/11 10:57	JMW	SW 6020
Selenium	1.4 ug/L		06/23/11 08:44	JMW	SW 6020
Silver	< 5.0 ug/L		06/23/11 18:05	JMW	SW 6020
Thallium	< 1.0 ug/L		06/23/11 18:05	JMW	SW 6020
Zinc	< 6.0 ug/L		06/23/11 10:57	JMW	SW 6020

Sample No: 1061883-03
Sample Description: WELL #3

Collect Date: 06/16/11 07:55
Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - PIA					
Cyanide	< 0.0050 mg/L		06/21/11 15:30	lgth	335.4
Solids - total dissolved solids (TDS)	440 mg/L		06/21/11 09:31	BRS	SM 2540C 18Ed
Soluble Anions - PIA					
Chloride	59 mg/L		06/17/11 15:24	JFA	EPA 300.0 R2.1
Fluoride	0.41 mg/L		06/17/11 15:08	JFA	EPA 300.0 R2.1
Nitrate-N	5.4 mg/L		06/17/11 15:24	JFA	EPA 300.0 R2.1

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Midwest Generation - Powerton Facility
 13082 E Manito Rd
 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 06/17/11 9:40
 Report Date: 07/25/11
 Customer #: 233203
 PO#: 4500073039

Sample No: 1061883-03
 Sample Description: WELL #3

Collect Date: 06/16/11 07:55
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
Soluble Anions - PIA					
Sulfate	47 mg/L		06/17/11 15:24	JFA	EPA 300.0 R2.1
Soluble Metals - PIA					
Antimony	< 3.0 ug/L		06/23/11 18:10	JMW	SW 6020
Arsenic	1.1 ug/L		06/23/11 11:02	JMW	SW 6020
Barium	63 ug/L		06/23/11 18:10	JMW	SW 6020
Beryllium	< 1.0 ug/L		06/23/11 18:10	JMW	SW 6020
Boron	240 ug/L		06/23/11 11:02	JMW	SW 6020
Cadmium	< 1.0 ug/L		06/23/11 11:02	JMW	SW 6020
Chromium	< 4.0 ug/L		06/23/11 11:02	JMW	SW 6020
Cobalt	< 2.0 ug/L		06/23/11 18:10	JMW	SW 6020
Copper	< 3.0 ug/L		06/23/11 18:10	JMW	SW 6020
Iron	< 0.010 mg/L		06/28/11 10:03	kjp	SW 6010B
Lead	< 1.0 ug/L		06/23/11 11:02	JMW	SW 6020
Manganese	< 1.0 ug/L		06/23/11 11:02	JMW	SW 6020
Mercury	< 0.20 ug/L		06/23/11 11:02	JMW	SW 6020
Nickel	< 5.0 ug/L		06/23/11 11:02	JMW	SW 6020
Selenium	1.5 ug/L		06/23/11 08:47	JMW	SW 6020
Silver	< 5.0 ug/L		06/23/11 18:10	JMW	SW 6020
Thallium	< 1.0 ug/L		06/23/11 18:10	JMW	SW 6020
Zinc	< 6.0 ug/L		06/23/11 11:02	JMW	SW 6020

Sample No: 1061883-04
 Sample Description: WELL #4

Collect Date: 06/16/11 08:45
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - PIA					
Cyanide	< 0.0050 mg/L		06/21/11 15:30	lgth	335.4
solids total dissolved solids (TD)	470 mg/L		06/21/11 09 31	BR	M 2540C 18Ed
Soluble Anions - PIA					
Chloride	43 mg/L		06/17/11 15:54	JFA	EPA 300.0 R2.1
Fluoride	0.43 mg/L		06/17/11 15:39	JFA	EPA 300.0 R2.1
Nitrate-N	2.7 mg/L		06/17/11 15:54	JFA	EPA 300.0 R2.1
Sulfate	48 mg/L		06/17/11 15:54	JFA	EPA 300.0 R2.1
Soluble Metals - PIA					

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Midwest Generation - Powerton Facility
 13082 E Manito Rd
 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 06/17/11 9:40
 Report Date: 07/25/11
 Customer #: 233203
 PO#: 4500073039

Sample No: 1061883-04
 Sample Description: WELL #4

Collect Date: 06/16/11 08:45
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
Soluble Metals - PIA					
Antimony	< 3.0 ug/L		06/23/11 18:16	JMW	SW 6020
Arsenic	< 1.0 ug/L		06/23/11 11:06	JMW	SW 6020
Barium	58 ug/L		06/23/11 18:16	JMW	W 6020
Beryllium	< 1.0 ug/L		06/23/11 18:16	JMW	SW 6020
Boron	330 ug/L		06/23/11 11:06	JMW	SW 6020
Cadmium	< 1.0 ug/L		06/23/11 11:06	JMW	SW 6020
Chromium	< 4.0 ug/L		06/23/11 11:06	JMW	SW 6020
Cobalt	< 2.0 ug/L		06/23/11 18:16	JMW	SW 6020
Copper	< 3.0 ug/L		06/23/11 18:16	JMW	SW 6020
Iron	< 0.010 mg/L		06/28/11 10:06	kjp	SW 6010B
Lead	< 1.0 ug/L		06/23/11 11:06	JMW	SW 6020
Manganese	410 ug/L		06/23/11 11:06	JMW	SW 6020
Mercury	< 0.20 ug/L		06/23/11 11:06	JMW	SW 6020
Nickel	6.7 ug/L		06/23/11 11:06	JMW	SW 6020
Selenium	2.2 ug/L		06/23/11 08:49	JMW	SW 6020
Silver	< 5.0 ug/L		06/23/11 18:16	JMW	SW 6020
Thallium	< 1.0 ug/L		06/23/11 18:16	JMW	SW 6020
Zinc	< 6.0 ug/L		06/23/11 11:06	JMW	SW 6020

Sample No: 1061883-05
 Sample Description: WELL #5

Collect Date: 06/16/11 09:40
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - PIA					
Cyanide	< 0.0050 mg/L		06/21/11 16:38	TTH	335.4
Solids - total dissolved solids (TDS)	640 mg/L		06/21/11 09:31	BRS	SM 2540C 18Ed
Soluble Anions - PIA					
Chloride	89 mg/L		06/17/11 16:56	JFA	EPA 300.0 R2.1
Fluoride	0.43 mg/L		06/17/11 16:10	JFA	EPA 300.0 R2.1
Nitrate-N	0.08 mg/L		06/17/11 16:10	JFA	EPA 300.0 R2.1
Sulfate	110 mg/L		06/21/11 16:48	PLI	EPA 300.0 R2.1
Soluble Metals - PIA					
Antimony	< 3.0 ug/L		06/23/11 18:21	JMW	SW 6020
Arsenic	< 1.0 ug/L		06/23/11 11:10	JMW	SW 6020
Barium	46 ug/L		06/23/11 18:21	JMW	SW 6020

1061883



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Midwest Generation - Powerton Facility
 13082 E Manito Rd
 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 06/17/11 9:40
 Report Date: 07/25/11
 Customer #: 233203
 PO#: 4500073039

Sample No: 1061883-05
 Sample Description: WELL #5

Collect Date: 06/16/11 09:40
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
Soluble Metals - PIA					
Beryllium	< 1.0 ug/L		06/23/11 18:21	JMW	SW 6020
Boron	790 ug/L		06/23/11 11:10	JMW	SW 6020
Cadmium	1.0 ug/L		06/23/11 11:10	JMW	W 6020
Chromium	< 4.0 ug/L		06/23/11 11:10	JMW	SW 6020
Cobalt	< 2.0 ug/L		06/23/11 18:21	JMW	SW 6020
Copper	< 3.0 ug/L		06/23/11 18:21	JMW	SW 6020
Iron	0.046 mg/L		06/28/11 10:09	kjp	SW 6010B
Lead	< 1.0 ug/L		06/23/11 11:10	JMW	SW 6020
Manganese	480 ug/L		06/23/11 11:10	JMW	SW 6020
Mercury	< 0.20 ug/L		06/23/11 11:10	JMW	SW 6020
Nickel	7.7 ug/L		06/23/11 11:10	JMW	SW 6020
Selenium	< 1.0 ug/L		06/23/11 08:51	JMW	SW 6020
Silver	< 5.0 ug/L		06/23/11 18:21	JMW	SW 6020
Thallium	< 1.0 ug/L		06/23/11 18:21	JMW	SW 6020
Zinc	< 6.0 ug/L		06/23/11 11:10	JMW	SW 6020

Sample No: 1061883-06
 Sample Description: WELL #6

Collect Date: 06/16/11 10:25
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - PIA					
Cyanide	< 0.0050 mg/L		06/21/11 15:36	lgth	335.4
Solids - total dissolved solids (TDS)	1100 mg/L		06/21/11 09:31	BRS	SM 2540C 18Ed
Soluble Anions - PIA					
Chloride	160 mg/L		06/21/11 17:04	PLI	EPA 300.0 R2.1
Fluoride	0.63 mg/L		06/17/11 17:11	JFA	EPA 300.0 R2.1
Nitrate-N	< 0.02 mg/L		06/17/11 17:11	JFA	EPA 300.0 R2.1
Sulfate	280 mg/L		06/21/11 17:04	PLI	EPA 300.0 R2.1
Soluble Metals - PIA					
Antimony	< 3.0 ug/L		06/23/11 18:26	JMW	SW 6020
Arsenic	2.9 ug/L		06/23/11 11:43	JMW	SW 6020
Barium	100 ug/L		06/23/11 18:26	JMW	SW 6020
Beryllium	< 1.0 ug/L		06/23/11 18:26	JMW	SW 6020
Boron	430 ug/L		06/23/11 18:26	JMW	SW 6020
Cadmium	< 1.0 ug/L		06/23/11 11:43	JMW	SW 6020

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Midwest Generation - Powerton Facility
 13082 E Manito Rd
 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 06/17/11 9:40
 Report Date: 07/25/11
 Customer #: 233203
 PO#: 4500073039

Sample No: 1061883-06
 Sample Description: WELL #6

Collect Date: 06/16/11 10:25
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - PIA</u>					
Chromium	4.5 ug/L		06/23/11 11:43	JMW	SW 6020
Cobalt	< 2.0 ug/L		06/23/11 18:26	JMW	SW 6020
Copper	3.2 ug/L		06/23/11 18:26	JMW	W 6020
Iron	1.7 mg/L		06/28/11 10:11	kjp	SW 6010B
Lead	< 1.0 ug/L		06/23/11 11:43	JMW	SW 6020
Manganese	630 ug/L		06/23/11 11:43	JMW	SW 6020
Mercury	< 0.20 ug/L		06/23/11 11:43	JMW	SW 6020
Nickel	7.8 ug/L		06/23/11 11:43	JMW	SW 6020
Selenium	< 1.0 ug/L		06/23/11 08:53	JMW	SW 6020
Silver	< 5.0 ug/L		06/23/11 18:26	JMW	SW 6020
Thallium	< 1.0 ug/L		06/23/11 18:26	JMW	SW 6020
Zinc	< 6.0 ug/L		06/23/11 11:43	JMW	SW 6020

Sample No: 1061883-07
 Sample Description: WELL #7

Collect Date: 06/16/11 11:20
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - PIA</u>					
Cyanide	< 0.0050 mg/L		06/21/11 15:37	lgth	335.4
Solids - total dissolved solids (TDS)	1300 mg/L		06/21/11 09:31	BRS	SM 2540C 18Ed
<u>Soluble Anions - PIA</u>					
Chloride	140 mg/L		06/21/11 17:19	PLI	EPA 300.0 R2.1
Fluoride	0.58 mg/L		06/17/11 17:42	JFA	EPA 300.0 R2.1
Nitrate-N	< 0.02 mg/L		06/17/11 17:42	JFA	EPA 300.0 R2.1
Sulfate	25 mg/L		06/17/11 17:58	JFA	EPA 300.0 R2.1
<u>Soluble Metals - PIA</u>					
Antimony	< 3.0 ug/L		06/23/11 19:03	JMW	SW 6020
Arsenic	120 ug/L		06/23/11 12:00	JMW	SW 6020
Barium	570 ug/L		06/23/11 19:03	JMW	SW 6020
Beryllium	< 1.0 ug/L		06/23/11 19:03	JMW	SW 6020
Boron	430 ug/L		06/23/11 19:03	JMW	SW 6020
Cadmium	1.5 ug/L		06/23/11 12:00	JMW	SW 6020
Chromium	6.1 ug/L		06/23/11 12:00	JMW	SW 6020
Cobalt	7.0 ug/L		06/23/11 19:03	JMW	SW 6020
Copper	< 3.0 ug/L		06/23/11 19:03	JMW	SW 6020

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Midwest Generation - Powerton Facility
 13082 E Manito Rd
 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 06/17/11 9:40
 Report Date: 07/25/11
 Customer #: 233203
 PO#: 4500073039

Sample No: 1061883-07
 Sample Description: WELL #7

Collect Date: 06/16/11 11:20
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - PIA</u>					
Iron	10 mg/L		06/28/11 10:33	kjp	SW 6010B
Lead	1.4 ug/L		06/23/11 12:00	JMW	SW 6020
Manganese	6400 ug/L		06/23/11 12:00	JMW	W 6020
Mercury	0.25 ug/L		06/23/11 12:00	JMW	SW 6020
Nickel	22 ug/L		06/23/11 12:00	JMW	SW 6020
Selenium	2.5 ug/L		06/23/11 09:09	JMW	SW 6020
Silver	< 5.0 ug/L		06/23/11 19:03	JMW	SW 6020
Thallium	< 1.0 ug/L		06/23/11 19:03	JMW	SW 6020
Zinc	< 6.0 ug/L		06/23/11 12:00	JMW	SW 6020

Sample No: 1061883-08
 Sample Description: WELL #8

Collect Date: 06/16/11 17:10
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - PIA</u>					
Cyanide	< 0.0050 mg/L		06/21/11 15:38	lgth	335.4
Solids - total dissolved solids (TDS)	970 mg/L		06/21/11 09:31	BRS	SM 2540C 18Ed
<u>Soluble Anions - PIA</u>					
Chloride	140 mg/L		06/21/11 17:34	PLI	EPA 300.0 R2.1
Fluoride	0.81 mg/L		06/17/11 18:13	JFA	EPA 300.0 R2.1
Nitrate-N	0.10 mg/L		06/17/11 18:13	JFA	EPA 300.0 R2.1
Sulfate	140 mg/L		06/21/11 17:34	PLI	EPA 300.0 R2.1
<u>Soluble Metals - PIA</u>					
Antimony	< 3.0 ug/L		06/23/11 19:09	JMW	SW 6020
Arsenic	4.4 ug/L		06/23/11 12:05	JMW	SW 6020
Barium	110 ug/L		06/23/11 19:09	JMW	SW 6020
Beryllium	< 1.0 ug/L		06/23/11 19:09	JMW	SW 6020
Boron	640 ug/L		06/23/11 19:09	JMW	SW 6020
Cadmium	< 1.0 ug/L		06/23/11 12:05	JMW	SW 6020
Chromium	5.9 ug/L		06/23/11 12:05	JMW	SW 6020
Cobalt	< 2.0 ug/L		06/23/11 19:09	JMW	SW 6020
Copper	3.6 ug/L		06/23/11 19:09	JMW	SW 6020
Iron	1.7 mg/L		06/28/11 10:36	kjp	SW 6010B
Lead	< 1.0 ug/L		06/23/11 12:05	JMW	SW 6020
Manganese	290 ug/L		06/23/11 12:05	JMW	SW 6020

1061883



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 (309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689



Midwest Generation - Powerton Facility
 13082 E Manito Rd
 Pekin, IL 61554
 Attn: Mark Kelly

Date Received: 06/17/11 9:40
 Report Date: 07/25/11
 Customer #: 233203
 PO#: 4500073039

Sample No: 1061883-08
 Sample Description: WELL #8

Collect Date: 06/16/11 17:10
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - PIA</u>					
Mercury	< 0.20 ug/L		06/23/11 12:05	JMW	SW 6020
Nickel	7.6 ug/L		06/23/11 12:05	JMW	SW 6020
Selenium	< 1.0 ug/L		06/23/11 09:11	JMW	SW 6020
Silver	< 5.0 ug/L		06/23/11 19:09	JMW	SW 6020
Thallium	< 1.0 ug/L		06/23/11 19:09	JMW	SW 6020
Zinc	< 6.0 ug/L		06/23/11 12:05	JMW	SW 6020

Sample No: 1061883-09
 Sample Description: WELL #9

Collect Date: 06/16/11 13:40
 Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - PIA</u>					
Cyanide	< 0.0050 mg/L		06/21/11 15:38	Igth	335.4
Solids - total dissolved solids (TDS)	540 mg/L		06/21/11 09:31	BRS	SM 2540C 18Ed
<u>Soluble Anions - PIA</u>					
Chloride	28 mg/L		06/17/11 18:44	JFA	EPA 300.0 R2.1
Fluoride	0.34 mg/L		06/17/11 18:44	JFA	EPA 300.0 R2.1
Nitrate-N	5.6 mg/L		06/17/11 18:44	JFA	EPA 300.0 R2.1
Sulfate	110 mg/L		06/21/11 17:50	PLI	EPA 300.0 R2.1
<u>Soluble Metals - PIA</u>					
Antimony	< 3.0 ug/L		06/23/11 19:14	JMW	SW 6020
Arsenic	1.7 ug/L		06/23/11 12:09	JMW	SW 6020
Barium	38 ug/L		06/23/11 19:14	JMW	SW 6020
Beryllium	< 1.0 ug/L		06/23/11 19:14	JMW	SW 6020
Boron	1900 ug/L		06/23/11 19:14	JMW	SW 6020
Cadmium	< 1.0 ug/L		06/23/11 12:09	JMW	SW 6020
Chromium	< 4.0 ug/L		06/23/11 12:09	JMW	SW 6020
Cobalt	< 2.0 ug/L		06/23/11 19:14	JMW	SW 6020
Copper	< 3.0 ug/L		06/23/11 19:14	JMW	SW 6020
Iron	< 0.010 mg/L		06/28/11 10:39	kjp	SW 6010B
Lead	< 1.0 ug/L		06/23/11 12:09	JMW	SW 6020
Manganese	480 ug/L		06/23/11 12:09	JMW	SW 6020
Mercury	< 0.20 ug/L		06/23/11 12:09	JMW	SW 6020
Nickel	6.3 ug/L		06/23/11 12:09	JMW	SW 6020
Selenium	1.7 ug/L		06/23/11 09:13	JMW	SW 6020

1061883



PDC Laboratories, Inc.
P.O. Box 9071 • Peoria, IL 61612-9071
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Pekin, IL 61554
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Date Received: 06/17/11 9:40
Report Date: 07/25/11
Customer #: 233203
PO#: 4500073039

Sample No: 1061883-09
Sample Description: WELL #9

Collect Date: 06/16/11 13:40
Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
Soluble Metals - PIA					
Silver	< 5.0 ug/L		06/23/11 19:14	JMW	SW 6020
Thallium	< 1.0 ug/L		06/23/11 19:14	JMW	SW 6020
Zinc	6.0 ug/L		06/23/11 12:09	JMW	W 6020

Sample No: 1061883-10
Sample Description: WELL #10

Collect Date: 06/16/11 12:55
Matrix: Ground Water

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - PIA					
Cyanide	< 0.0050 mg/L		06/21/11 15:39	lgth	335.4
Solids - total dissolved solids (TDS)	650 mg/L		06/21/11 09:31	BRS	SM 2540C 18Ed
Soluble Anions - PIA					
Chloride	43 mg/L		06/17/11 20:32	JFA	EPA 300.0 R2.1
Fluoride	0.36 mg/L		06/17/11 19:15	JFA	EPA 300.0 R2.1
Nitrate-N	2.1 mg/L		06/17/11 20:32	JFA	EPA 300.0 R2.1
Sulfate	67 mg/L		06/17/11 20:32	JFA	EPA 300.0 R2.1
Soluble Metals - PIA					
Antimony	< 3.0 ug/L		06/23/11 19:19	JMW	SW 6020
Arsenic	1.5 ug/L		06/23/11 12:13	JMW	SW 6020
Barium	360 ug/L		06/23/11 19:19	JMW	SW 6020
Beryllium	< 1.0 ug/L		06/23/11 19:19	JMW	SW 6020
Boron	520 ug/L		06/23/11 19:19	JMW	SW 6020
Cadmium	< 1.0 ug/L		06/23/11 12:13	JMW	SW 6020
Chromium	< 4.0 ug/L		06/23/11 12:13	JMW	SW 6020
Cobalt	3.9 ug/L		06/23/11 19:19	JMW	SW 6020
Copper	< 3.0 ug/L		06/23/11 19:19	JMW	SW 6020
Iron	0.044 mg/L		06/28/11 10:42	kjp	SW 6010B
Lead	< 1.0 ug/L		06/23/11 12:13	JMW	SW 6020
Manganese	3800 ug/L		06/23/11 12:13	JMW	SW 6020
Mercury	< 0.20 ug/L		06/23/11 12:13	JMW	SW 6020
Nickel	15 ug/L		06/23/11 12:13	JMW	SW 6020
Selenium	4.3 ug/L		06/23/11 09:15	JMW	SW 6020
Silver	< 5.0 ug/L		06/23/11 19:19	JMW	SW 6020
Thallium	< 1.0 ug/L		06/23/11 19:19	JMW	SW 6020
Zinc	< 6.0 ug/L		06/23/11 12:13	JMW	SW 6020

1061883



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Notes

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
 NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
 Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
 Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
 Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
 Hazardous/Solid Waste Certifications; Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
 UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
 EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
 NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS EPA Lab No. E-10389

Subcontract Report Attached for Rad 226/228

Certified by: Janet L. Clutters, Project Manager

PDC LABORATORIES, INC.
 2231 WEST ALTORFER DRIVE
 PEORIA, IL 61615

PHONE # 800-752-6651
 FAX # 309-692-9689

CHAIN OF CUSTODY RECORD

State where samples collected IL

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT) - (SAMPLE ACCEPTANCE POLICY ON REVERSE)

1 CLIENT Patrick Engineering 4985 Varsity Dr Lisle, IL 60532 CONTACT PERSON: Dave McCoy		PROJECT NUMBER P.O. NUMBER MEANS SHIPPED PHONE NUMBER FAX NUMBER DATE SHIPPED		3 ANALYSIS REQUESTED Dissolved Metals Cyanide Cr, F, Ni, Pb, Se, Cd, As, Hg Total Diss. Solids Radon 222/228			4 (FOR LAB USE ONLY) LOGIN # 106183-15 LOGGED BY: WB LAB PROJ. # TEMPLATE: PROJ. MGR: Midwest Generation 30 June 2011 REMARKS	
2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE <small>OTHER</small> <small>SUBM</small>	MATRIX TYPE	BOTTLE COUNT		
MW-1		6/16/11	1200		GW	4	X	X
MW-2			0710			4		
MW-3			0755			4		
MW-4			0845			4		
MW-5			0940			4		
MW-6			1025			4		
MW-7			1120			4		
MW-8			1710			4		
MW-9			1340			5		X
MW-10			1255			4		
MW-11			1445			5		X
MW-12			1525			5		X
5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) <small>(RUSH THAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)</small> NORMAL RUSH DATE RESULTS NEEDED		RUSH RESULTS VIA (PLEASE CIRCLE) FAX PHONE E-MAIL		6 This sample temperature will be measured upon receipt at the lab. By initialing this area you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0-16.0°C. By not initialing this area you allow the lab to proceed with analytical testing regardless of the sample temperature.				
7 RELINQUISHED BY (SIGNATURE) Justin Ferragamo		DATE 6/16/11	RECEIVED BY (SIGNATURE) Valerie Berness		DATE 6/17/11	8 COMMENTS (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT 6 °C CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N SAMPLE(S) RECEIVED ON ICE Y OR N PROPER BOTTLES RECEIVED IN GOOD CONDITION Y OR N BOTTLES FILLED WITH ADEQUATE VOLUME Y OR N SAMPLES RECEIVED WITHIN HOLD TIME(S) Y OR N <small>(EXCLUDES TYPICAL FIELD PARAMETERS)</small> DATE AND TIME TAKEN FROM SAMPLE BOTTLE		
RELINQUISHED BY (SIGNATURE)		DATE	RECEIVED BY (SIGNATURE)		DATE			
RELINQUISHED BY (SIGNATURE)		DATE	RECEIVED AT LAB BY (SIGNATURE)		DATE			

Copies: white should accompany samples to PDC Labs. Yellow copy to be retained by the client.