



May 17, 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: Groundwater Monitoring Results – April 2012
Powerton Generating Station – Metal Cleaning Basin
Water Pollution Control Permit No. 2009-EB-2748

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 groundwater monitoring results associated with the Powerton Generating Facility located at 13082 East Manito Road in Pekin, Illinois. Groundwater is monitored bi-monthly in the vicinity of the metal cleaning basin at this facility in three monitoring wells in accordance with requirements of Illinois Environmental Protection Agency (Illinois EPA) Water Pollution Control Permit No. 2009-EB-2748.

MONITORING WELL INSTALLATION

In accordance with the permit referenced above, three monitoring wells (MW-13, MW-14, and MW-15) have been installed in the vicinity of the metal cleaning basin. The locations of these wells were selected so that at least one of the monitoring wells (MW-15) was installed downgradient of the basin, based upon available data regarding the expected groundwater flow direction. Figure 1 shows the location of the three monitoring wells. Drilling logs and well completion reports have been included as Attachment A.

GROUNDWATER SAMPLING

Prior to collecting groundwater samples from the three wells noted above, a number of field measurements were collected from each well location, including groundwater elevation, temperature, conductivity, and pH. Groundwater elevation data is summarized in Table 1. Other field parameter data is provided in Table 2.

On April 10, 2012, groundwater samples were collected from each of the three on-site monitoring wells, either using disposable polyethylene bailers (for MW-13), or by the direct use of a peristaltic pump (for MW-14 and MW-15). Each well was purged until at least three well volumes had been extracted, or until the groundwater was observed to be clear. Groundwater was pumped or bailed into a decontaminated, stainless steel container and thereafter transferred to

**Bi-Monthly Groundwater Monitoring Results – April 2012
Powerton Generating Station – Metal Cleaning Basin**

sample containers via peristaltic pump. 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. The 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.

ANALYTICAL RESULTS

The groundwater samples were analyzed for all of the inorganic compounds listed in 35 Illinois Administrative Code (IAC) 620.410(a) and 620.410(d), including radium 226/228. Analytical results (both current and historical) are summarized in Table 3. Laboratory analytical reports provided by PDC Laboratories are provided as Attachment B.

In accordance with Water Pollution Control Permit No. 2009-EB-2748, these three wells will continue to be sampled and reported on a bi-monthly basis for at least one year to establish a statistically valid representation of existing background conditions.

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– Monitoring Well Location Map
- Table 1 – Groundwater Elevation Data
- Table 2 – Field Parameter Data
- Table 3 – Groundwater Analytical Results
- Attachment A –Boring Logs / Well Completion Reports
- Attachment B – Laboratory Analytical Results

FIGURE 1
MONITORING WELL LOCATION MAP



LEGEND

 MW-01 Monitoring Well Location



1" = 600'


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

<p>Date: APRIL 2012</p>	<p align="center">FIGURE 1 MONITORING WELL LOCATION MAP</p>	<p align="center">PATRICK ENGINEERING INC.</p> <p>4970 Varsity Drive TEL. (630) 795-7200 Lisle, Illinois 60532-4101 FAX (630) 724-1681 PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000409</p>
<p>Proj No.: 21253.022</p>		
<p>App. By: RMF</p>	<p align="center">POWERTON STATION PEKIN, ILLINOIS</p>	

MWG-13-15-10602

TABLE 1
GROUNDWATER ELEVATION
DATA

Table 1
METAL CLEANING BASIN
GROUNDWATER ELEVATION DATA
 Powerton Station, Pekin, Illinois
 Midwest Generation
 21253.022
 April 2012

		Groundwater Elevation Data						
Monitoring Well	Date	Groundwater Elevation (Feet bmp)	Depth to Water Pre-Sampling (Feet bmp)	Depth to Water Post Sampling (Feet bmp)	Groundwater Elevation Post Sampling (Feet bmp)	Depth to Bottom of Well (Feet)	Ground Elevation (Feet)	Top of Riser Elevation (Feet)
MW-13	2/15/2011	437.192	33.75	33.82	437.12	43.12	467.652	470.942
	4/25/2011	446.062	24.88	24.82	446.12	43.12	467.652	470.942
	6/16/2011	447.392	23.55	23.55	447.39	43.12	467.652	470.942
	8/9/2011	437.722	33.22	32.39	438.55	43.12	467.652	470.942
	10/13/2011	436.842	34.1	34.10	436.84	43.12	467.652	470.942
	12/12/2011	437.792	33.15	33.30	437.64	43.12	467.652	470.942
MW-14	4/10/2012	437.732	33.21	33.65	437.29	43.12	467.652	470.942
	2/15/2011	445.579	25.21	25.33	445.46	33.58	467.666	470.789
	4/25/2011	448.129	22.66	22.84	447.95	33.58	467.666	470.789
	6/16/2011	448.279	22.51	22.52	448.27	33.58	467.666	470.789
	8/9/2011	448.109	22.68	24.03	446.76	33.58	467.666	470.789
	10/13/2011	445.279	25.51	29.65	441.14	33.58	467.666	470.789
	12/12/2011	443.709	27.08	30.69	440.10	33.58	467.666	470.789
4/10/2012	446.799	23.99	24.05	446.74	33.58	467.666	470.789	
MW-15	2/15/2011	447.232	24.15	24.15	447.23	32.34	468.256	471.382
	4/25/2011	448.292	23.09	23.09	448.29	32.34	468.256	471.382
	6/16/2011	449.162	22.22	22.82	448.56	32.34	468.256	471.382
	8/9/2011	447.822	23.56	23.56	447.82	32.34	468.256	471.382
	10/13/2011	446.732	24.65	24.65	446.73	32.34	468.256	471.382
	12/12/2011	446.782	24.6	24.62	446.76	32.34	468.256	471.382
4/10/2012	447.492	23.89	23.82	447.56	32.34	468.256	471.382	

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

bmp -below monitoring point

TABLE 2
FIELD PARAMETER DATA

Table 2
METAL CLEANING BASIN
FIELD PARAMETER DATA
 Powerton Station, Pekin, Illinois
 Midwest Generation
 21253.022
 April 2012



 PATRICK ENGINEERING	Groundwater Field Parameter Data - Powerton Station				
Monitoring Well	Date	Time	Conductance (S/cm)*	Temperature °C	pH
MW-13	2/15/2011	12:09	2.15	13.82	7.53
MW-13	4/25/2011	9:10	2.04	14.26	7.37
		9:12	1.77	14.37	7.31
		9:14	1.97	14.37	7.29
		9:16	1.95	14.40	7.27
		9:18	1.94	14.42	7.26
		9:20	1.92	14.40	7.26
MW-13	6/16/2011	16:13	1.91	17.68	7.53
		16:15	1.86	17.05	7.17
		16:17	1.83	16.93	6.82
		16:19	1.83	16.80	6.71
		16:21	1.81	16.68	6.74
16:23	1.79	16.84	6.75		
MW-13	8/9/2011	9:10	1.63	15.92	7.13
MW-13	10/13/2011	10:55	1.59	14.87	7.31
MW-13	12/12/2011	19:32	2.33	13.78	7.19
MW-13	4/10/2012	10:40	2.89	14.90	8.49
MW-14	2/15/2011	13:15	2.42	14.52	7.75
MW-14	4/25/2011	10:24	2.44	16.04	7.27
MW-14	6/16/2011	18:24	2.56	18.45	7.28
		17:50	2.58	18.05	7.20
		17:52	2.58	18.00	7.19
		17:54	2.59	17.93	7.17
		17:56	2.59	17.89	7.17
		17:58	2.60	17.94	7.15
MW-14	8/9/2011	10:40	2.75	19.15	7.19
		10:42	2.73	18.81	7.10
		10:44	2.74	18.68	7.07
		10:46	2.73	18.75	7.07
		10:48	2.74	18.66	7.08
10:50	2.74	18.65	7.08		
MW-14	10/13/2011	9:22	2.08	16.55	7.34
		9:24	2.08	16.52	7.40
		9:26	2.07	16.54	7.41
		9:28	2.07	16.56	7.40
		9:30	2.07	16.57	7.40
		9:32	2.07	16.54	7.40
MW-14	12/12/2011	18:26	1.98	14.55	6.34
		18:28	1.99	14.72	6.16
		18:30	2.00	14.83	6.08
		18:32	2.00	14.90	6.08
		18:34	2.00	14.84	6.05
		18:36	2.00	14.74	6.05
MW-14	4/10/2012	10:00	2.92	15.00	8.51
		10:02	2.91	15.10	8.50
		10:04	2.91	15.10	8.46
		10:06	2.92	15.00	8.41
		10:08	2.92	15.10	8.37
		10:10	2.92	15.10	8.35

Table 2
METAL CLEANING BASIN
FIELD PARAMETER DATA
 Powerton Station, Pekin, Illinois
 Midwest Generation
 21253.022
 April 2012

Groundwater Field Parameter Data - Powerton Station						
 PATRICK ENGINEERING	Monitoring Well	Date	Time	Conductance (S/cm)*	Temperature °C	pH
	MW-15	2/15/2011	12:49	1.65	15.51	7.29
			12:51	1.65	15.62	7.28
			12:53	1.66	15.52	7.25
			12:55	1.65	15.35	7.23
			12:57	1.65	15.59	7.23
			12:59	1.66	15.59	7.23
	MW-15	4/25/2011	10:06	1.72	16.08	7.03
			10:08	1.71	16.36	7.05
			10:10	1.71	16.42	7.06
			10:12	1.71	16.36	7.06
			10:14	1.71	16.47	7.06
			10:16	1.70	16.50	7.06
	MW-15	6/16/2011	17:40	2.23	17.95	6.79
	MW-15	8/9/2011	9:47	1.67	19.11	7.25
			9:49	1.67	18.62	6.97
			9:51	1.66	18.62	6.92
			9:53	1.66	18.40	6.87
			9:55	1.65	18.44	6.88
			9:57	1.66	18.41	6.89
	MW-15	10/13/2011	10:16	1.26	16.25	7.39
			10:18	1.25	16.27	7.37
			10:20	1.25	16.34	7.38
			10:22	1.25	16.35	7.37
			10:24	1.29	13.36	7.36
			10:26	1.25	13.38	7.37
	MW-15	12/12/2011	17:42	1.19	15.97	6.94
			17:44	1.20	16.32	6.88
			17:46	1.20	16.43	6.87
			17:48	1.20	16.50	6.86
			17:50	1.20	16.52	6.85
			17:52	1.20	16.50	6.84
	MW-15	4/10/2012	9:18	1.46	15.10	8.12
			9:20	1.48	15.20	8.32
			9:22	1.49	15.20	8.32
			9:24	1.50	15.20	8.23
			9:26	1.51	15.20	8.24
			9:28	1.51	15.20	8.23

Notes:

* (S/cm) - specific conductivity measured in Siemens/Centimeters

°C - degrees Celsius

TABLE 3
GROUNDWATER ANALYTICAL RESULTS

Table 3
METAL CLEANING BASIN
GROUNDWATER ANALYTICAL RESULTS
 Powerton Station, Illinois
 Midwest Generation
 21253.022
 April 2012

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
			(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
Arsenic	Metals 6020	0.011	0.0063	0.0069	0.0063	0.0057	0.0048	0.0066	0.023	0.027
Barium	Metals 6020	2.0	0.11	0.052	0.073	0.059	0.046	0.083	0.21	0.14
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	0.0062	0.0042	0.0045	ND	ND	0.01	0.0055	5.5
Cobalt	Metals 6020	1.0	0.0031	0.0026	0.0023	0.0022	0.0031	ND	ND	ND
Copper	Metals 6020	0.65	0.0068	0.0037	0.0041	0.004	0.004	0.0055	0.0066	0.0068
Cyanide	Dissolved 9014	0.2	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
Lead	Metals 6020	0.0075	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
Mercury	Mercury 7470A	0.002	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
Selenium	Metals 6020	0.05	0.0046	0.0046	0.0045	0.0029	0.056	0.004	0.0036	0.0037
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	0.06	ND	ND
Boron	Metals 6020	2	3.9	3.1	2.6	3.0	2.7	3.0	4.1	4.0
Sulfate	Dissolved 9038	400	1,400	770	580	540	440	660	1,100	1,100
Chloride	Dissolved 9251	200	160	120	100	86	110	110	180	170
Nitrate as N	Nitrogen By calc	10	0.14	1.3	1.8	2.2	3.6	1.6	0.07	0.06
Total Dissolved Solids	Dissolved 2540C	1,200	2,600	1,600	1,400	1,300	1,100	1,500	2,100	2,300
Fluoride	Dissolved 4500 FC	4	0.28	0.29	0.31	0.44	0.38	0.3	ND	0.32
Radium 226 (pCi/L)	EPA 903.1	20	0.603	0.165	NA	0.741	0	0.191	0.955	0.32
Radium 228 (pCi/L)	EPA 904.0	20	0.988	0.966	0.73	1	0.198	0.639	1.01	0.422

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
 - non reportable result

Table 3
METAL CLEANING BASIN
GROUNDWATER ANALYTICAL RESULTS
 Powerton Station, Illinois
 Midwest Generation
 21253.022
 April 2012

Chemical Name	Sample Analysis Method	Groundwater Quality Standard (mg/L) Class 1*	MW-14 (mg/L)									
			12/15/10	2/15/11	4/25/11	6/16/11	8/9/11	10/13/11	12/12/11	4/10/12		
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.024	0.019	0.0084	0.005	0.0062	0.015	0.0033	0.0039	0.0039	0.0039
Barium	Metals 6020	2.0	0.034	0.034	0.036	0.04	0.041	0.04	0.045	0.045	0.045	0.045
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	0.0046	0.0078	0.0049	0.0076	0.0065	0.0065	0.0057	0.0057	0.0057
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.65	0.0037	0.0035	0.0074	0.0071	0.0064	0.0055	0.025	0.0067	0.0067	0.0067
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	2.2	0.94	0.036	0.3	0.71	2	0.12	0.77	0.77	0.77
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0035
Manganese	Metals 6020	0.15	0.68	0.81	0.29	0.36	0.57	0.84	0.067	0.63	0.63	0.63
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.015	0.015	0.02	0.016	0.016	0.011	0.015	0.018	0.018	0.018
Selenium	Metals 6020	0.05	0.0024	0.0015	0.065	0.0035	0.003	0.0017	0.0037	0.022	0.022	0.022
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	0.0018	0.0035	0.0039	0.0027	0.0016	0.0016	0.0034	0.0034	0.0034
Zinc	Metals 6020	5.0	2.0	1.9	1.9	1.9	1.8	1.9	1.9	1.8	1.8	1.8
Sulfate	Dissolved 9038	400	960	820	770	810	940	850	880	990	990	990
Chloride	Dissolved 9251	200	160	160	160	160	240	200	200	190	190	190
Nitrate as N	Nitrogen By calc	10	0.036	ND	1	0.27	0.05	ND	0.33	0.31	0.31	0.31
Total Dissolved Solids	Dissolved 2540C	1,200	1,800	1,700	1,800	1,900	2,000	1,800	1,800	2,200	2,200	2,200
Fluoride	Dissolved 4500 FC	4	1.7	1.6	1.1	1.3	1.4	0.88	1.1	1	1	1
Radium 226 (pCi/L)	EPA 903.1	20	0.577	0.163	NA	0.893	0.129	0.0983	0.857	0.328	0.328	0.328
Radium 228 (pCi/L)	EPA 904.0	20	0.944	0.96	0.737	0.947	0.193	-	0.985	0.43	0.43	0.43

Notes:
 *Class 1 Groundwater Standards from 35 IAC Part 620
 Bold values show exceedences of 35 IAC Part 630
 ND- non detect
 mg/L- milligrams per Liter
 - non reportable result

Table 3
METAL CLEANING BASIN
GROUNDWATER ANALYTICAL RESULTS
 Powerton Station, Illinois
 Midwest Generation
 21253.022
 April 2012

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	
			(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
Arsenic	Metals 6020	0.05	0.0099	0.0092	0.0064	0.0052	0.0053	0.011	0.0094	0.0064
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	0.0011
Lead	Metals 6020	0.0075	ND	ND	0.0012	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	0.56	0.42	0.36	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	0.004	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	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 9038	400	300	220	270	650	250	180	140	200
Chloride	Dissolved 9251	200	180	190	190	170	210	180	200	200
Nitrate as N	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	1,600	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	0.367	0.614	0.979	0.322
Radium 228 (pCi/L)	EPA 904.0	20	0.902	0.968	0.689	0.983	0.0954	0.522	0.937	0.385

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
 -- non reportable result

ATTACHMENT A
BORING LOGS
WELL COMPLETION REPORTS

1. Type of Well
 a. Driven Well: Casing Diameter (in.) _____ Depth (ft.) _____
 b. Bored Well: Casing Diameter (in.) _____ Burred Slab? _____
 c. Drilled Well: PVC Casing Formation Packer Set at Depth of (ft.) 40
 d. Drilled Well: Steel Casing Mechanically Driven _____

e. Hole Diameter (in.) 8.5 to (ft.) 40 ; (in.) _____ ; (ft.) _____ to (ft.) _____

f. Type of Grout # of bags Grout Weight From (ft.) To (ft.) Tremie Depth (ft.)

Bentonite	10		3	28	

g. Well Finished within Unconsolidated Materials

h. Kind of Gravel/Sand Pack Grain Size/Supplier # From (ft.) To (ft.)

Washed quartz sand	#5	28	40
--------------------	----	----	----

2. Well Use: Monitoring Well Disinfected? No

3. Date Well Completed: Sep 28, 2010 Driller's Estimated Well Yield (gpm): _____

4. Date Permanent Pump Installed: _____ Set at Depth (ft.): _____

5. Pump Capacity (gpm): _____ Attachment to Casing: _____

6. Pileless Adapter Model and Manufacturer: _____

7. Well Cap Type & Manufacturer: _____

8. Pressure Tank Working Cycle (gals.): _____ Captive Air? _____ 9. Pump System Disinfected: _____

10. Name of Pump Company _____ License # _____

11. Pump Installer: _____ License # _____ Date _____

12. Licensed Pump Installation Contractor Signature _____ Date _____

Illinois Department of Public Health
 Division of Environmental Health
 525 West Jefferson Street
 Springfield, IL 62761

IMPORTANCE NOTICE: This state agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act-08-063. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0126
 Revised 6/09

13. Property Owner: Midwest Generation LLC Well # PEL-NN-13
 14. Driller: _____ License # _____
 15. Name of Drilling Company: Groff Testing Corporation 16. Permit Number: _____
 Date Issued: _____ 17. Date Drilling Started Sep 28, 2010

18. Well Site Address: 13082 E. Manito Road, Pekin, IL 61654
 19. Township Name: Cincinnati Land I.D. # _____
 20. Subdivision Name: _____ Lot # _____
 21. Location: a. County Tazewell b. Site Elevation 470 ft. (above msl)
 c. Township: 24N Range: 5W Section: 9

d. SW Quarter of the NE Quarter of the SW Quarter
 e. GPS: Lat: Degrees 40 Minutes 32 Seconds 35.6 N
 Lon: Degrees 89 Minutes 40 Seconds 39.7 W

22. Casing and Liner Information

Diameter (in.)	Material	Joint Type	From (ft.)	To (ft.)
2	PVC, threaded		0	30

Survey use only

23. Is the well screened? Yes No If yes Diameter (in.) Length (ft.) Slot Size (in.) From (ft.) To (ft.)

2	10	0.01	30	40
---	----	------	----	----

24. Water from gravel _____ at a depth of (ft.) 34 To (ft.) 40
 a. Static water level (ft.) below top of casing 29.5 which is (in.) above ground 3
 b. pumping level is (ft.) _____ pumping (gpm) _____ for (hours) _____

25. Earth Materials Passed Through From (ft.) To (ft.)

chinders, gravel, clay	0	10
chinders and sand	10	17.5
organic silt	17.5	31.5
silty clay, sand	31.5	34
gravel	34	40

(Attach 2nd page, if necessary) (If DRY HOLE, fill out log & indicate how hole was sealed)

Licensed Water Well Contractor Signature _____ License # _____

1. Type of Well

a. Driven Well: Casing Diameter (in.) _____ Depth (ft.) _____

b. Bored Well: Casing Diameter (in.) _____ Buried Slab? _____

c. Drilled Well: PVC Casing Formation Packer Set at Depth of (ft.) 30

d. Drilled Well: Steel Casing Mechanically Driven _____

e. Hole Diameter (in.) 8.5 to (ft.) 30 : (in.) _____ : (in.) _____ to (ft.) _____

f. Type of Grout # of bags Grout Weight From (ft.) To (ft.) Tremie Depth (ft.)

Bentonite	8		3	18	

g. Well Finished within Unconsolidated Materials

h. Kind of Gravel/Sand Pack Grain Size/Supplier # From (ft.) To (ft.)

Washed quartz sand	#5	18	30

2. Well Use: Monitoring Well Disinfected? No

3. Date Well Completed: Sep 30, 2010 Driller's Estimated Well Yield (gpm): _____

4. Date Permanent Pump Installed: _____ Set at Depth (ft.): _____

5. Pump Capacity (gpm): _____

6. Piless Adapter Model and Manufacturer: _____ Attachment to Casing: _____

7. Well Cap Type & Manufacturer: _____

8. Pressure Tank Working Cycles (gals.): _____ Captive Air? _____ 9. Pump System Disinfected: _____

10. Name of Pump Company _____ License # _____

11. Pump Installer: _____ License # _____

12. _____ Licensed Pump Installation Contractor Signature _____ Date _____

Illinois Department of Public Health
Division of Environmental Health
525 West Jefferson Street
Springfield, IL 62761

IMPORTANCE NOTICE: This state agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 462-0126
Revised 6/09

13. Property Owner: Midwest Generation LLC Well # PEL-MW-14

14. Driller: _____ License # _____

15. Name of Drilling Company: Groff Teasing Corporation 16. Permit Number: _____

Date Issued: _____ 17. Date Drilling Started Sep 30, 2010

18. Well Site Address: 13082 E. Mantlo Road, Pekin, IL 61554

19. Township Name: Cincinnati Land I.D. # _____ Lot # _____

20. Subdivision Name: _____

21. Location: a. County Tazewell b. Site Elevation 470 ft. (above msl)

c. Township: 24N Range: 5W Section: 9

d. NW Quarter of the NE Quarter of the SW Quarter

e. GPS: Lat: Degrees 40 Minutes 32 Seconds 39.7 N
Lon: Degrees 89 Minutes 40 Seconds 41.2 W

22. Casing and Liner Information

Diameter (in.)	Material, Joint Type	From (ft.)	To (ft.)
2	PVC, threaded	0	20

23. Is the well screened? Yes No If yes Diameter (in.) Length (ft.) Slot Size (in.) From (ft.) To (ft.)

	2	10	0.01	20	30
--	---	----	------	----	----

24. Water from organic silt and sand at a depth of (ft.) 19.5 To (ft.) 25

a. Static water level is (ft.) below top of casing 20.5 which is (in.) above ground 3

b. pumping level is (ft.) _____ pumping (gpm) _____ for (hours) _____

25. Earth Materials Passed Through From (ft.) To (ft.)

chders, gravel, clay	0	10
gravel and clay	10	19.5
organic silt	19.5	30

(Attach 2nd page, if necessary) (if DRY HOLE, fill out log & indicate how hole was sealed)

Licensed Water Well Contractor Signature License # _____

1. Type of Well

a. Driven Well: Casing Diameter (in.) _____ Depth (ft.) _____
 b. Bored Well: Casing Diameter (in.) _____ Buried Slab? _____
 c. Drilled Well: PVC Casing Formation Packer Set at Depth of (ft.) 30
 d. Drilled Well: Steel Casing Mechanically Driven _____

e. Hole Diameter (in.) 8.5 to (ft.) 30 : (in.) _____ to (ft.) _____
 f. Type of Grout # of bags GROUT WEIGHT From (ft.) To (ft.) Tremie Depth (ft.)

Bentonite	9		3	18	

g. Well Finished within Unconsolidated Materials

h. Kind of Gravel/Sand Pack Grain Size/Supplier # From (ft.) To (ft.)

Washed quartz sand	#5	18	30

2. Well Use: Monitoring Well Disinfected? No

3. Date Well Completed: Sep 30, 2010 Driller's Estimated Well Yield (gpm): _____

4. Date Permanent Pump Installed: _____ Set at Depth (ft.): _____

5. Pump Capacity (gpm): _____
 6. Pitless Adapter Model and Manufacturer: _____ Attachment to Casing: _____

7. Well Cap Type & Manufacturer: _____
 8. Pressure Tank Working Cycles (gals.): _____ Captive Air? _____ 9. Pump System Disinfected: _____

10. Name of Pump Company _____ License # _____

11. Pump Installer: _____ License # _____

12. Licensed Pump Installation Contractor Signature _____ Date _____

Illinois Department of Public Health
 Division of Environmental Health
 525 West Jefferson Street
 Springfield, IL 62761
 IL 482-0126
 Revised 6/09

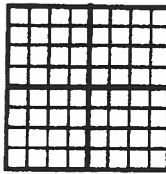
IMPORTANCE NOTICE: This state agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 08-63. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

13. Property Owner: Midwest Generation LLC Well # PEL-MW-15
 14. Driller: _____ License # _____
 15. Name of Drilling Company: Groff Testing Corporation 16. Permit Number: _____

Date Issued: _____ 17. Date Drilling Started Sep 30, 2010
 18. Well Site Address: 13082 E. Manito Road, Pekin, IL 61554

19. Township Name: Cincinnati Land I.D. # _____
 20. Subdivision Name: _____ Lot # _____

21. Location: a. County Tazewell b. Site Elevation 470 ft. (above msl)
 c. Township: 24N Range: 5W Section: 9



d. NW Quarter of the NE Quarter of the SW Quarter
 e. GPS: Lat: Degrees 40 Minutes 32 Seconds 40.8 N
 Lon: Degrees 89 Minutes 40 Seconds 38.7 W

22. Casing and Liner Information

Diameter (in.)	Material, Joint Type	From (ft.)	To (ft.)
<u>2</u>	<u>PVC, threaded</u>	<u>0</u>	<u>20</u>

23. Is the well screened? Yes No
 If yes Diameter (in.) Length (ft.) Slot Size (in.) From (ft.) To (ft.)

<u>2</u>	<u>10</u>	<u>0.01</u>	<u>20</u>	<u>30</u>
----------	-----------	-------------	-----------	-----------

24. Water from fine sand at a depth of (ft.) 19.5 To (ft.) 23.5
 a. Static water level (ft.) below top of casing 19.5 which is (in.) above ground 3
 b. pumping level is (ft.) _____ pumping (gpm) _____ for (hours) _____

25. Earth Materials Passed Through

Earth Materials	From (ft.)	To (ft.)
<u>clinders, gravel, clay</u>	<u>0</u>	<u>10</u>
<u>clinders, gravel, sand</u>	<u>10</u>	<u>19.5</u>
<u>fine sand</u>	<u>19.5</u>	<u>23.5</u>
<u>silt</u>	<u>23.5</u>	<u>28</u>
<u>silty clay</u>	<u>28</u>	<u>30</u>




(Attach 2nd page, if necessary) (if DRY HOLE, fill out log & indicate how hole was sealed)

Licensed Water Well Contractor Signature _____ License # _____

PATRICK ENGINEERING INC.

BORING NUMBER **B-MW-13-Po** SHEET **1 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **21053.070**
 LOCATION **Powerton**

LOGGED BY **MPG**
 GROUND ELEVATION **467.7**

ELEV.	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	10	20	30	40	
						Unconfined Compressive Strength (TSF) *					
						1	2	3	4	5	
467.7	0.0		Black cinders, sand, rock, dry FILL								Bentonite seal 3.0'-28.0'. Stickup protective cover installed.
			SS-1 1.0-2.5								
			SS-2 2.5-4.0								
			SS-3 6.0-7.5								
			SS-4 8.5-10.0								
457.7	10.0		Black cinders, medium sand FILL								qu=NT
			SS-5 11.0-12.5 14"R		5 9 7						
			SS-6 13.5-15.0 15"R		3 3 2						
			Some organic silt, moist								qu=NT
			SS-7 16.0-17.5 18"R	WOH 1 1							
450.2	17.5		Gray/olive gray organic silt, very soft OL								qu=0.0**tsf
			SS-8 18.5-20.0 18"R		1 0 0						
447.7	20.0										

DRILLING CONTRACTOR **Groff Testing**
 DRILLING METHOD **4.25" I.D. HSA**
 DRILLING EQUIPMENT **CME 550 ATV**
 DRILLING STARTED **9/29/10** ENDED **9/29/10**

REMARKS
Installed 2" diameter PVC monitoring well.

WATER LEVEL (ft.)
 ▽ **31.5**
 ▽ **29.5**
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **B-MW-13-Po** SHEET **2 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **21053.070**
 LOCATION **Powerton**

LOGGED BY **MPG**
 GROUND ELEVATION **467.7**

ELEV.	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	Unconfined Compressive Strength (TSF) *			LL	
						10	20	30	40	50	
447.7	20.0	[Hatched pattern]	Dark gray and black organic clay, very soft, moist	OH							
						SS-9 21.0-22.5 18"R	WOH WOH	2			
445.2	22.5	[Dotted pattern]	Dark gray and black organic silt, very soft, moist	OL							
						SS-10 23.5-25.0 18"R	WOH	1 1			
441.7	26.0	[Hatched pattern]	Dark gray and black organic clay, soft, dry	OH							
						SS-11 26.0-27.5 18"R	WOH	1 2			
		[Hatched pattern]	Medium stiff								
						SS-12 28.5-30.0 18"R	0 2 3				
438.2	29.5	[Dotted pattern]	Gray silty clay, some coarse to fine sand, trace fine gravel, wet	CL							
						SS-13 31.0-32.5 18"R	2 4 5				
437.2	30.5	[Dotted pattern]	Stiff								
						SS-14 33.5-35.0 6"R	2 3 2				
436.2	31.5	[Dotted pattern]	Brown coarse to fine gravel, trace coarse to medium sand, silt, medium dense, saturated	GP							
						SS-15 36.0-37.5 8"R	4 6 6				
		[Dotted pattern]									
						SS-16 38.5-40.0 8"R	5 8 8				
427.7	40.0		End of Boring at 40.0'								

DRILLING CONTRACTOR **Groff Testing**
 DRILLING METHOD **4.25" I.D. HSA**
 DRILLING EQUIPMENT **CME 550 ATV**
 DRILLING STARTED **9/29/10** ENDED **9/29/10**

REMARKS
 Installed 2" diameter PVC monitoring well.

WATER LEVEL (ft.)
 ▽ 31.5
 ▽ 29.5
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **B-MW-14-Po** SHEET **1 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **21053.070**
 LOCATION **Powerton**

LOGGED BY **MPG**
 GROUND ELEVATION **467.7**

ELEV.	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS			
						PL	LL	Unconfined Compressive Strength (TSF) *						
						10	20	30	40	50				
						1	2	3	4	5				
467.7	0.0	[Cross-hatched pattern]	Cinders, gravel, sand, silt, dry FILL	SS-1 1.0-2.5							Bentonite seal 3.0'-18.0'. Stickup protective cover installed.			
				SS-2 3.5-5.0										
				SS-3 6.0-7.5										
				SS-4 8.5-10.0										
457.7	10.0			[Cross-hatched pattern]	Brown fine gravel, some silty clay and coarse sand, dry FILL	SS-5 11.0-12.5 18"R	4							
						SS-6 13.5-15.0 16"R	4	3	4					
						SS-7 16.0-17.5 16"R	2	3	3					
						SS-8 18.5-20.0 18"R	3	3	1					
			Black cinders								Sand pack 18.0'-30.0'			
448.2	18.8	[Dotted pattern]	Gray organic silt, some fine sand,											

DRILLING CONTRACTOR **Groff Testing**
 DRILLING METHOD **4.25" I.D. HSA**
 DRILLING EQUIPMENT **CME 550 ATV**
 DRILLING STARTED **9/30/10** ENDED **9/30/10**

REMARKS
Installed 2" diameter PVC monitoring well.

WATER LEVEL (ft.)
 ▽ **19.5**
 ▽ **20.5**
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **B-MW-14-Po** SHEET **2 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **21053.070**
 LOCATION **Powerton**

LOGGED BY **MPG**
 GROUND ELEVATION **467.7**

ELEV.	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	Unconfined Compressive Strength (TSF) *			LL		
						1	2	3	4	5		
447.7	20.0		very loose, low plasticity, saturated OL								Set screen (slot 0.010") 20.0'-30.0' qu=NT qu=0.25**tsf qu=0.25**tsf qu=1.25**tsf	
447.2	20.5			SS-9 21.0-22.5 18"R	1 0 0							
442.7	25.0			Gray and mottled black organic silt, trace fine sand, soft, low plasticity, moist OL		1 1 2						
					SS-10 23.5-25.0 18"R							
438.7	29.0			SS-11 26.0-27.5 18"R	0 0 1							
437.7	30.0		Gray and black organic clay, medium stiff, moist OH	SS-12 28.5-30.0 18"R	2 3 4							
			End of Boring at 30.0'									

DRILLING CONTRACTOR **Groff Testing**
 DRILLING METHOD **4.25" I.D. HSA**
 DRILLING EQUIPMENT **CME 550 ATV**
 DRILLING STARTED **9/30/10** ENDED **9/30/10**

REMARKS
Installed 2" diameter PVC monitoring well.

WATER LEVEL (ft.)
 ▽ **19.5**
 ▽ **20.5**
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **B-MW-15-Po** SHEET **1 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **21053.070**
 LOCATION **Powerton**

LOGGED BY **MPG**
 GROUND ELEVATION **468.3**

ELEV.	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	Unconfined Compressive Strength (TSF) *			LL		
						10	20	30	40	50		
						1	2	3	4	5		
468.3	0.0	[Cross-hatched pattern]	Black cinders, fine gravel, sand, silt, dry FILL	SS-1 1.0-2.5							Bentonite seal 3.0'-17.0'. Stickup protective cover installed.	
				SS-2 3.5-5.0								
				SS-3 6.0-7.5								
				SS-4 8.5-10.0								
458.3	10.0		[Cross-hatched pattern]	Black cinders, fine gravel, coarse sand, silt, dry FILL	SS-5 11.0-12.5 14"R	6	13	12				
					SS-6 13.5-15.0 0"R	50/1"						
					SS-7 16.0-17.5 14"R	7	7	5				
					SS-8 18.5-20.0 18"R	2	1	1				
448.8	19.5										Sand pack 17.0'-30.0'	
448.3	20.0											

DRILLING CONTRACTOR **Groff Testing**
 DRILLING METHOD **4.25" I.D. HSA**
 DRILLING EQUIPMENT **CME 550 ATV**
 DRILLING STARTED **9/30/10** ENDED **9/30/10**

REMARKS
Installed 2" diameter PVC monitoring well.

WATER LEVEL (ft.)
 ▽ **20.0'**
 ▽ **19.5'**
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **B-MW-15-Po** SHEET **2 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **21053.070**
 LOCATION **Powerton**

LOGGED BY **MPG**
 GROUND ELEVATION **468.3**

ELEV.	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS		
						PL	Unconfined Compressive Strength (TSF) *			LL			
						10	20	30	40	50			
						1	2	3	4	5			
448.3	20.0		Gray fine sand, trace medium sand, loose, saturated SM	SS-9 21.0-22.5 18"R	1 1 1						Set screen (slot 0.010") 20.0'-30.0' qu=NT		
444.8	23.5			Gray silt, mottled black, some organics, soft, moist to wet OL	SS-10 23.5-25.0 18"R	1 2 2							qu=0.75**tsf
					SS-11 26.0-27.5 18"R	1 2 2							
440.3	28.0		Gray silty clay, some organics, soft, medium stiff, dry CL	SS-12 28.5-30.0 18"R	1 3 2						qu=1.0**tsf		
438.3	30.0			End of Boring at 30.0'									

DRILLING CONTRACTOR **Groff Testing**
 DRILLING METHOD **4.25" I.D. HSA**
 DRILLING EQUIPMENT **CME 550 ATV**
 DRILLING STARTED **9/30/10** ENDED **9/30/10**

REMARKS
Installed 2" diameter PVC monitoring well.

WATER LEVEL (ft.)
 ▽ **20.0'**
 ▽ **19.5'**
 ▽

ATTACHMENT B
LABORATORY ANALYTICAL RESULTS



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
<u>General Chemistry - PIA</u>						
Cyanide	< 0.0050 mg/L		04/11/12 08:28	04/12/12 10:56	Igth	335.4
Solids - total dissolved solids (TDS)	2300 mg/L		04/17/12 08:25	04/17/12 08:57	BNS	SM 2540C 18Ed
<u>Soluble Anions - PIA</u>						
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
<u>Soluble Metals - PIA</u>						
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



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: 2041228-03

Collect Date: 04/10/12 09:30

Matrix: Ground Water

Sample Description: MW-15

Parameters	Result	Qual	Prep Date	Analysis Date	Analyst	Method
<u>General Chemistry - PIA</u>						
Cyanide	< 0.0050 mg/L		04/11/12 08:28	04/12/12 10:57	Igth	335.4
Solids - total dissolved solids (TDS)	1000 mg/L		04/17/12 08:25	04/17/12 08:57	BNS	SM 2540C 18Ed
<u>Soluble Anions - PIA</u>						
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
<u>Soluble Metals - PIA</u>						
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.

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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: 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

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 CLIENT		PROJECT NUMBER		P.O. NUMBER		MEANS SHIPPED		3 ANALYSIS REQUESTED		4 (FOR LAB USE ONLY)		
ADDRESS: MWG-Pekin (Patrick Eng.) 4995 Versity Dr. Lisle, IL 60532 CONTACT PERSON: Dave McCoy		PHONE NUMBER	FAX NUMBER	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	GRAV	COMP	DATE	TIME	LOGGED BY	LAB PROJ.
CITY: Peoria STATE: IL ZIP: 61615		SAMPLER (PLEASE PRINT): Justin Jessopne SIGNATURE: <i>Justin Jessopne</i>		DATE COLLECTED: 4/10/12 TIME COLLECTED: 1040 1010 0930		MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER SW-SURFACE WATER WS-SLUDGE MS-SOLID LCRT-LEACHATE OTHER:		DATE RESULTS NEEDED:		LOGGED BY: <i>Patrick Eng.</i> LAB PROJ.: <i>2041288-3</i> TEMP. UPON RECEIPT: <i>10.0</i> PROGR. (DATE/TIME):		
2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	GRAV	COMP	MATRIX TYPE	BOTTLE COUNT	REMARKS			
MW-13		4/10/12	1040	GW	5		GW	5	X	Disolved Metals		
MW-14		↓	↓	↓	↓		↓	↓	X	Cyanide		
MW-15		↓	↓	↓	↓		↓	↓	X	Radium		
									X	CE/AN/3.50Y Dissolved		
									X	Total Diss. Solids		

5	TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)	NORMAL	RUSH	DATE RESULTS NEEDED	E-MAIL	
6	RUSH RESULTS VIA (PLEASE CIRCLE)					
7	RELINQUISHED BY: (SIGNATURE) <i>Justin Jessopne</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED AT LAB BY: (SIGNATURE) <i>Cupel & Booth</i>	DATE	TIME
8	COMMENTS: (FOR LAB USE ONLY)	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 ____ OF ____



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 A. Ferris

Carin Ferris

carin.ferris@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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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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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

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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

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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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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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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	



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	



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

RECEIVING LABORATORY:

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

Date Shipped 4-16-12

Sample Origin (State) IL

PO# L40790

Total # of Containers 3

3007792

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

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>Alan P. Hoge</u>	<u>4-16-12 11:50</u>	<u>[Signature]</u>	<u>4/16/12 09:10</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

27



Client Name: PRC Project # 3007792

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 281794215000846

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 Results

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: <u>VEA 4/19/12</u>
--

Temp should be above freezing to 6°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>VEA</u> Lot # of added preservative <u>RFD-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):		

4/19/12 1813 6mL each

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Carroll Date: 4/20/12

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)

