

Amy L. Hanrahan Senior Environmental Engineer Environmental Services

January 18, 2013

Ms. Andrea Rhodes
Illinois Environmental Protection Agency – DPWS
MC #19
1021 North Grand Avenue East
Springfield, IL 62702

VIA FEDERAL EXPRESS

Re: Compliance Commitment Agreement - Groundwater Management Zone

Application

Midwest Generation, LLC, Powerton Generating Station; ID No. 6282

Violation Notice W-2012-00057

Dear Ms. Rhodes:

The Compliance Commitment Agreement (CCA) for the above referenced site relative to Violation Notice W-2012-00057 was signed by Midwest Generation on October 15, 2012 and executed by Illinois Environmental Protection Agency (IEPA) signature on October 24, 2012 (effective date). Item 5 (g) of the CCA requires Midwest Generation to submit an application to establish a Groundwater Management Zone (GMZ) pursuant to 35 Ill. Adm. Code Part 620.250 within 90 days of the effective date of the CCA.

Based on previous discussions with IEPA, the proposed areal extent of the GMZ is shown on Figure 1 in Attachment 1. The GMZ Application Forms (Parts I through III) and supporting information/data are provided in Attachment 2. As discussed in the Application Forms support documentation, groundwater flow within the silt/clay unit in the vicinity of the subject ash basins is in a westerly direction with discharge to the adjoining intake channel and groundwater flow within the gravelly sand unit is to the north with discharge to the Illinois River. The western (downgradient) extent of the proposed GMZ corresponds with the hydraulic boundary formed by the intake channel. The northern extent corresponds with the hydraulic boundary formed by the Illinois River. The southern and eastern boundaries are defined by the property boundary. The vertical extent of the GMZ would be defined by the top of the Carbondale Formation which is estimated to be approximately 70 feet below ground surface based on other site boring logs from other portions of the property.

235 Remington Blvd. Suite Λ

Bolingbrook, Il 60440 Tel: 630 771 7865 Fax: 949 225 0813 ahanrahan@mwgen.com This submittal fulfills the requirements set forth under Item 5 (g) of the signed CCA. Once the application is approved by IEPA and the proposed extent of the GMZ is agreed upon, a formal surveying of the area will be performed and legal description generated. Please call me at 630-771-7863 if there are any questions.

Sincerely,

Midwest Generation, LLC

Amy Hanraha

Senior Environmental Engineer

Attachments: 1 - Proposed Areal Extent of GMZ

2 - Completed GMZ Application Forms (Parts I through III)

cc: Ms. Maria Race, Midwest Generation EME, LLC

Mr. Basil Constantelos, Midwest Generation EME, LLC

Mr. Joseph Heredia, Midwest Generation, LLC

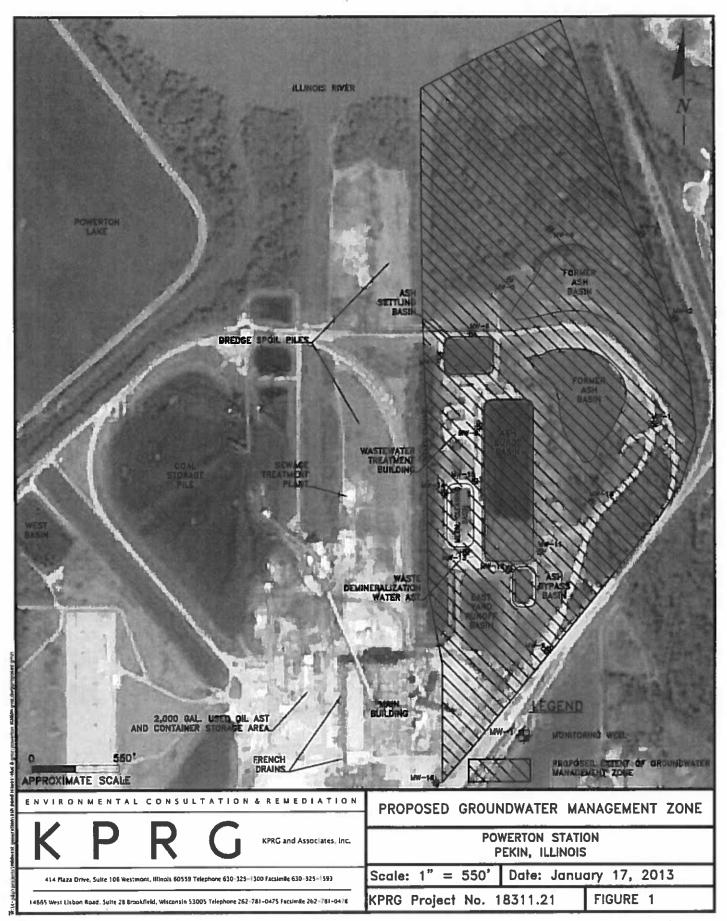
Mr. Christopher Foley, Midwest Generation EME, LLC

Ms. Susan Franzetti, Nijman Franzetti, LLP

Mr. Richard Gnat, KPRG and Associates, Inc.

Mr. Bill Buscher, IEPA

ATTACHMENT 1 Proposed Areal Extent of GMZ



<u>ATTACHMENT 2</u>
Completed GMZ Application Forms (Parts I through III)

Section 620.APPENDIX D Confirmation of an Adequate Corrective Action Pursuant to 35 Ill. Adm. Code 620.250(a)(2)

Pursuant to 35 Ill. Adm. Code 620.250(a) if an owner or operator provides a written confirmation to the Agency that an adequate corrective action, equivalent to a corrective action process approved by the Agency, is being undertaken in a timely and appropriate manner, then a groundwater management zone may be established as a three-dimensional region containing groundwater being managed to mitigate impairment caused by the release of contaminants from a site. This document provides the form in which the written confirmation is to be submitted to the Agency.

- Note 1. Parts I and II are to be submitted to IEPA at the time that the facility claims the alternative groundwater standards. Part III is to be submitted at the completion of the site investigation. At the completion of the corrective process, a final report is to be filed which includes the confirmation statement included in Part IV.
- Note 2. The issuance of a permit by IEPA's Division of Air Pollution Control or Water Pollution Control for a treatment system does not imply that the Agency has approved the corrective action process.
- Note 3. If the facility is conducting a cleanup of a unit which is subject to the requirements of the Resource Conservation and Recovery Act (RCRA) or the 35 III. Adm. Code 731 regulations for Underground Storage Tanks, this confirmation process is not applicable and cannot be used.
- Note 4. If the answers to any of these questions require explanation or clarification, provide such in an attachment to this document.

Part I. Facility Information

Facility Name	Powerton Generating Station	
Facility Address	13082 E. Manito Rd. Pekin, IL	
County Taze	ewell County	
Standard Indus	astrial Code 4911	

1. Provide a general description of the type of industry, products

manufactured, raw materials used, location and size of the facility.

The Midwest Generation Powerton Station is a coal-fired electrical power generating station in operation since the 1920s. The facility is located at 13082 E. Manito Road in Pekin, Illinois. The generating station property covers an area of approximately 1,710 acres plus approximately 1,440 acres for Powerton Lake.

2. What specific units (operating or closed) are present at the facility which are or were used to manage waste, hazardous waste, hazardous substances or petroleum?

	YES	<u>NO</u>
Landfill		_X
Surface Impoundment	X	
Land Treatment		_X
Spray Irrigation		<u>X</u>
Waste Pile	X	
Incinerator		_X
Storage Tank (above ground)	X	
Storage Tank (underground)		_X
Container Storage Area	<u>X</u>	
Injection Well		_X
Water Treatment Units	<u>X</u>	
Septic Tanks		<u>X</u>
French Drains	_X	
Transfer Station	-	X
Other Units (please describe)		
	_	

Provide an extract from a USGS topographic or county map showing the location of the site and a more detailed scaled map of the facility with each waste management unit identified in Question 2 or known/suspected source clearly identified. Map scale must be specified and the location of the facility must be provided with respect to Township, Range and Section.

Please see Figures 1 and 2 in Attachment 2A.

4. Has the facility ever conducted operations which involved the generation, manufacture, processing, transportation, treatment, storage or handling of "hazardous substances" as defined by the Illinois Environmental Protection Act? Yes X No If the answer to this question is "yes" generally describe these operations.

Powerton Station generates typical hazardous and non-hazardous substance wastes associated with coal-fired electrical power generation. A full list of hazardous substances can be provided upon request.

- 5. Has the facility generated, stored or treated hazardous waste as defined by the Resource Conservation and Recovery Act? Yes____ No _X__ If the answer to this question is "yes" generally describe these operations.
- 6. Has the facility conducted operations which involved the processing, storage or handling of petroleum? Yes X No If the answer to this question is "yes" generally describe these operations.

The facility stores oil for operations in above ground storage tanks for start-up operations and for heavy equipment fueling and other diesel powered equipment.

- 7. Has the facility ever held any of the following permits?
 - a. Permits for any waste storage, waste treatment or waste disposal operation. Yes ___ No _X _ If the answer to this question is "yes", identify the IEPA permit numbers.

Powerton Station did maintain a NPDES permit to filter asbestos from the Units 1 through 4 demolitions (ILR10H493). Sludge disposal. 2011-EE-1949
NPDES permit (RBC Sewerage Treatment) IL0002232 (2005).

- b. Interim Status under the Resources Conservation and Recovery Act (filing of a RCRA Part A application). Yes ____ No _X__ If the answer to this question is "yes", attach a copy of the last approved Part A application.
- c. RCRA Part B Permits. Yes No X If the answer to this question is "yes", identify the permit log number.
- 8. Has the facility ever conducted the closure of a RCRA hazardous waste management unit? Yes ___ No _X_
- 9. Have any of the following State or federal government actions taken place for a release at the facility?
 - a. Written notification regarding known, suspected or alleged contamination on or emanating from the property (e.g., a Notice pursuant to Section 4(q) of the Environment Protection Act)? Yes
 X No If the to this question is "yes", identify the caption

and date of issuance.

A Violation Notice was issued by IEPA on June 11, 2012 relative to the three ash basins alleging a potential release of coal ash constituents to groundwater (Violation Notice No. W-2012-00057). This was resolved through a Compliance Commitment Agreement (CCA) dated October 4, 2012 and formally executed on October 24, 2012. This submittal is part of the CCA compliance.

b.	Consent Decree or Order under RCRA, CERCLA, EPAct Section 22.2 (State Superfund), or EPAct Section 21(f) (State RCRA). Yes No _X
c.	If either of Items a or b were answered by checking "yes", is the notice, order or decree still in effect? Yes X No
	groundwater classification will the facility be subject to at the etion of the remediation?
	I X Class II Class III Class IV L

11. Describe the circumstances which the release to groundwater was identified.

As requested by Illinois Environmental Protection Agency (IEPA), a groundwater monitoring plan was developed and implemented for three ash basins known as the Ash Bypass Basin, Ash Surge Basin and Ash Settling Basin which are located on the east side of the facility. A total of fifteen monitoring wells were installed in the vicinity of the ash basins. Quarterly sampling was initiated in December 2010 and has been ongoing since. The data were provided to IEPA on a quarterly basis. Based on the monitoring data, on June 11, 2012, IEPA issued a Violation Notice (W-2012-00057) to Midwest Generation alleging that potential leakage from the basins has resulted in a violation of Class I groundwater standards for arsenic, boron, chloride, iron, lead, manganese, nitrate, pH, selenium, sulfate thallium and total dissolved solids.

Based on my inquiry of those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true and accurate.

Powerton Generating Station

Facility Name

Pekin, IL

Location of Facility

Signature of Owner/Operator

Name of Owner/Operator

EPA Identification Number

ID No. 6282

10.

Date

January

PART II: Release Information

1. Identify the chemical constituents release to the groundwater. Attach additional documents as necessary.

Chemical Description	Chemical Abstract No.
Arsenic	7440-38-2
Boron	7440-42-8
Chloride	16887-00-6
Iron	7439-89-6
Lead	7439-92-1
рH	Not Applicable
Manganese	7439-96-5
Nitrate	C-005
Selenium	7782-49-2
Sulfate	18785-72-3
Thallium	7440-28-0
Total Dissolved Solids	C-010

2. Describe how the site will be investigated to determine the source or sources of the release.

This work has already been performed. As requested by Illinois Environmental Protection Agency (IEPA), Midwest Generation, LLC (Midwest Generation) prepared and submitted on September 3, 2010 a Hydrogeologic Assessment Plan for three ash basins located at the Powerton Generating Station. The purpose of the hydrogeologic assessment was to: (i) evaluate the potential, if any, for migration of ash related constituents from the ash basins and conduct monitoring for groundwater constituents regulated by Illinois Part 620 groundwater standards; (ii) characterize the subsurface hydrogeology: and (iii) identify potable well use within 2,500 feet of the ash basins.

Upon IEPA approval of the Hydrogeologic Assessment Plan, a total of twelve monitoring wells (MW-1 through MW-12) were installed around the three ash basins identified as Ash Bypass Basin, Ash Surge Basin and Ash Settling Basin (see Figure 3 in Attachment 2A). In addition, three monitoring wells MW-12 through MW-15 were concurrently installed associated with monitoring of the adjacent Metals Cleaning Basin. These wells have now also been included by IEPA as part of the overall ash basin system monitoring program. The wells were drilled and constructed in October 2010 after which point quarterly monitoring was initiated in accordance with approved, low-flow sampling procedures. A Hydrogeologic Assessment Report for Powerton Generating Station was prepared by Patrick Engineering, Inc. and submitted by Midwest Generation to IEPA in February 2011. The results of the Hydrogeologic Assessment Report are incorporated into this

application submittal by reference. It is noted that since the submittal of the Hydrogeologic Assessment Report, a re-evaluation of the groundwater flow system was performed and discussion submitted to IEPA as part of Violation Notice Responses dated July 27, 2012. Specifically, it was noted that wells MW-6, MW-8, MW-12, MW-14 and MW-15 are screened within a localized silt/clay unit whereas the remaining monitoring wells are screened within a gravelly sand unit. Water levels within the wells screened in the silt/clay unit tend to be higher that those in the gravelly sand unit by approximately 8 to 10 feet, or more, in elevation. When the water levels from the five monitoring wells that are screened in the silt/clay unit are plotted separately from the wells screened within the gravelly sand unit, it is evident that there are two distinct, though hydraulically connected, groundwater units beneath this portion of the site. Groundwater flow maps for each unit using the most recent data from the December 2012 sampling event are provided as Figures 4 and 5 in Attachment 2A. Figure 4 indicates a westerly groundwater flow within the silt/clay unit towards the adjoining intake channel. Figure 5 indicates a northerly groundwater flow direction within the gravelly sand unit towards the Illinois River.

Since the submittal of the Hydrogeologic Assessment Report in February 2011, quarterly monitoring of the wells has been ongoing. As part of the CCA, another upgradient monitoring well (MW-16) was installed in November, 2012 and is now included in the monitoring program. The most recent round of sampling was performed in December 2012. Complete updated data summary tables are provided in Attachment 2B. As noted above, updated groundwater flow maps using the water level measurements from the most recent round of sampling are provided as Figure 4 (silt/clay unit wells) and Figure 5 (gravelly sand unit wells) in Attachment 2A.

3. Describe how groundwater will be monitored to determine the rate and extent of the release.

As part of the hydrogeologic assessment already performed (see discussion for item 2 above), in-situ hydraulic conductivity tests were performed on five of the monitoring wells (MW-2, MW-5, MW-8, MW-9 and MW-10) installed around the ash basins. Based on the results of the testing, hydraulic conductivity values in the vicinity of the well screens were found to range from 7.41×10^{-4} to 9.24×10^{-3} ft/sec with an average hydraulic conductivity of 4.7×10^{-3} ft/sec.

Relative to the extent of impacts, a box-plot map of detections of the constituents identified in Part II - Item 1 above is provided as Figure 6 in Attachment 2A.

4. Has the release been contained on-site at the facility?

Yes. Groundwater monitoring data indicates that the impacts are limited to within the property boundary. Natural groundwater flow is generally to the west towards

the adjoining intake channel (silt/clay unit) and north towards the Illinois River (gravelly sand unit).

5. Describe the groundwater monitoring network and groundwater and soil sampling protocols in place at the facility.

The existing IEPA approved groundwater monitoring network at the site consists of sixteen monitoring wells (MW-1 through MW-16) located around the three existing ash basin (see Figure 3 in Attachment 2A). Wells MW-1, MW-9, MW-10 and MW-16 are generally upgradient monitoring wells. The remaining wells are considered downgradient monitoring points. The well borings were advanced using hollowstem augers to depths ranging from approximately 30 to 45 feet below ground surface (bgs). The depth of a specific boring was terminated approximately 10 feet below the encountered water table. The wells were subsequently constructed using standard, 2-inch diameter PVC casing with 10-feet of 0.010 slot PVC screens. The wells were completed approximately three feet above grade with locking protective steel casings and bumper posts. The boring logs and well construction summaries are included in the above referenced Hydrogeologic Assessment Report (see discussion for item 2 above). The monitoring wells are sampled on a quarterly basis using low-flow sampling with a peristaltic pump. Field measurements of pH, specific conductivity, temperature, dissolved oxygen (DO) and oxidation-reduction potential (ORP) are recorded. Once collected, the samples are placed on ice and transported under a completed chain-of-custody to PDC Laboratories, Inc. which is an Illinois accredited analytical laboratory. The samples are analyzed for the inorganic compounds listed in 35 IAC 620.410(a) and (d), excluding radium 226/228.

There is no soil sampling that is performed as part of the approved site monitoring program.

6. Provide the schedule for investigation and monitoring.

Groundwater sampling of all existing monitoring wells is performed on a quarterly basis. The general sampling schedule is as follows:

mpling Schedule
arch
ne
ptember
cember

7. Describe the laboratory quality assurance program utilized for the investigation.

The quality management system for PDC Laboratories, Inc. is outlined in the *Quality Manual*. The *Quality Manual* defines the policies, procedures, and documentation that assure analytical services continually meet a defined standard of quality that is designed to provide clients with data of known and documented quality and, where applicable, demonstrate regulatory compliance.

The Quality Manual sets the standard under which all laboratory operations are performed, including the laboratory's organization, objectives, and operating philosophy. The Quality Manual has been prepared to assure compliance with the 2009 TNI Environmental Laboratory Sector Standard – Volume 1 – Management and Technical Requirements for Laboratories Performing Environmental Analysis (EL-V1-M1 through M7-ISO-2009). This Standard is consistent with ISO/IEC 17025:2005 requirements that are relevant to the scope of environmental testing services and thus, the laboratory operates a quality system in conformance with ISO/IEC 17025:2005(E). In addition, the policies and procedures outlined are compliant with the various accreditation and certification programs the laboratory maintains.

In addition, the *Quality Manual* has been prepared to be consistent with the requirements of the following documents:

- 1. Manual for the Certification of Laboratories Analyzing Drinking Water, Fifth Edition,
- 2. Standard Methods for the Examination of Water and Wastewater, as updated by MUR II,
- 3. 40 CFR Part 136 including Appendices,
- 4. Test Methods for Evaluating Solid Waste: SW-846,
- 5. State-specific analytical methods (such as OA-1 and OA-2 for State of Iowa), and
- 6. Title 77 Illinois Administrative Code, Chapter I, Subchapter d, Part 465 Certification and Operation of Environmental Laboratories (Microbiology)

A copy of the Quality Manual can be provided upon request.

8. Provide a summary of the results of available soil testing and groundwater monitoring associated with the release at the facility. The summary or results should provide the following information: dates of sampling; types of samples taken (soil or water); locations and depths of samples; sampling and analytical methods; analytical laboratories used; chemical constituents for which analyses were performed; analytical detection limits; and concentrations of chemical constituents in ppm (levels below detection should be identified as "ND").

The data summary for all groundwater sampling performed to date is provided in Tables 1 and 2 in Attachment 2B.

Based on my inquiry of those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of knowledge and belief, true and accurate and confirm that the actions identified herein will be undertaken in accordance with the schedule set forth herein.

Powerton Generating Station	alcho
Facility Name	Signature of Owner/Operator
Pekin, IL	Midwest Generation (LC)
Location of Facility	Name of Owner/Operator
ID No. 6282	January 17 2013

EPA Identification Number

Part III: Remedy Selection Information

1. Describe the selected remedy.

The Ash Bypass Basin is already lined with high density polyethylene (HDPE). The Ash Surge Basin is lined with Poz-o-Pac material and the Ash Settling Basin is presently unlined. The agreed upon remedy is specified in Item 5 (a) through (m) of the executed Compliance Commitment Agreement (CCA) which is provided in Attachment 2C. The remedy includes relining of the Ash Surge Basin and Ash Settling Basin with HDPE. This Groundwater Management Zone (GMZ) application fulfills requirements set forth under Item 5 (g) of the CCA.

2. Describe other remedies which were considered and why they were rejected.

The primary alternate remedy discussed during negotiations with IEPA was to ensure that the ash basins will not be used as permanent disposal sites, maintain the ash basins in a manner that will be protective of the integrity of the existing liners, include visual inspections of the liners during ash removal events, implement repairs or replacement of the liners as necessary, establish a GMZ and to continue with the existing quarterly groundwater monitoring program until the federal ash regulation revisions are established. Upon the finalization of the new federal ash storage regulations, retrofit the basins, as necessary, to meet the new technical requirements for ash storage impoundments or re-engineer plant processes to maintain compliance and take the basins out of service.

This remedy was rejected by IEPA due to the uncertainty of the timeframe within which the new federal regulations will be issued.

3. Will waste, contaminated soil or contaminated groundwater be removed from the site in the course of this remediation? Yes X No If the answer to this question is "yes", where will the contaminated material be taken?

The ash that will be removed from the Ash Surge Basin and the Ash Settling Basin prior to relining will be sent to the Buckheart Mine on County Highway 6 in Canton, Illinois.

4. Describe how the selected remedy will accomplish the maximum practical restoration of beneficial use of groundwater.

Once the Ash Surge Basin and the Ash Settling Basin are lined with a HDPE liner, all the ash basins in service for ash accumulation will have been constructed and operated to minimize potential release of ash basin fluids to groundwater. Any residual groundwater impacts potentially associated with prior ash basin leakage

will naturally attenuate through the groundwater system under monitored conditions within the established GMZ with eventual discharge to the adjoining intake channel or the Illinois River.

5. Describe how the selected remedy will minimize any threat to public health or the environment.

The existing conditions do not pose a threat to public health since the impacts are limited to within the property boundary, there are no downgradient groundwater use receptors and the basins are located within a fenced property with 24-hour security controlled access. Any potential impacts to the environment will be minimized and managed as discussed under item 4 above.

6. Describe how the selected remedy will result in compliance with the applicable groundwater standards.

Once all the ash basins are lined with HDPE, the ash collection system will have been constructed and operated to minimize potential release of ash basin fluids to groundwater (i.e, the ash basins as a potential source of groundwater impacts will be eliminated). Any residual groundwater impacts potentially associated with prior ash basin leakage will naturally attenuate through the groundwater system under monitored conditions within the established GMZ and/or discharge to the adjoining intake channel or the Illinois River, west and north of the ash basins, respectively.

7. Provide a schedule for design, construction and operation of the remedy, including dates for the start and completion.

Relative to the Ash Settling Basin, the construction window will be coordinated with the spring plant shutdown which will occur from March 15, 2013 through April 15, 2013. At this time liner installation is anticipated to occur the week of April 1, 2013.

Relative to the Ash Surge Basin, the construction window is April 9, 2013 through August 28, 2013. The dredging of ash will occur between April 9, 2013 and June 3, 2013. At this time liner installation will likely occur in July 2013.

A more detailed schedule is being provided under separate cover with the Application for Construction Permit to reline the two basins.

8. Describe how the remedy will be operated and maintained.

Upon completion of construction activities, Midwest Generation will develop and submit an Operation and Maintenance (O&M) Plan to the IEPA. The O&M Plan will be based on manufacturer and installer recommendations. It will include procedures for liner system inspections, inspection frequency, documentation

requirements and what corrective measure procedures are to be implemented, if necessary.

- 9. Have any of the following permits been issued for the remediation?
 - a. Construction or Operating permit from the Division of Water Pollution Control. Yes X No ____

This permit submittal is currently under review by IEPA.

- b. Land treatment permit from the Division of Water Pollution Control. Yes ___ No _X _ If the answer to this question is "yes", identify the permit number.
- c. Construction or Operating permit from the Division of Air Pollution Control. Yes ____ No _X _ If the answer to this question is "yes", identify the permit number.
- 10. How will groundwater at the facility be monitored following completion of the remedy to ensure that the groundwater standards have been attained?

There are currently 16 monitoring wells surrounding the ash basins (see Figure 3 in Attachment 2A). As required under Item 5 (d) of the CCA, these wells will continue to be monitored on a quarterly basis for constituents listed in 35 IAC 620.410(a) and (d), with the exception of radium 226/228. The monitoring data will be reported to IEPA within 30 days of the end of each quarter. In addition, an updated groundwater potentiometric surface map will be provided with each quarterly submittal. IEPA, upon written request, may approve a reduction in the frequency and scope of the sampling program in the future. Upon the IEPA's approval, the approved changes in the frequency and scope of the monitoring program shall be implemented.

It is noted that in addition to the quarterly groundwater monitoring, the CCA requires at least one year of quarterly monitoring of water from the East Yard Runoff Basin to be analyzed for constituents listed in 35 IAC 620.410(a) and (d), with the exception of radium 226/228.

Based on my inquiry of those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true and accurate and confirm that the actions identified herein will be undertaken in accordance with the schedule set forth herein.

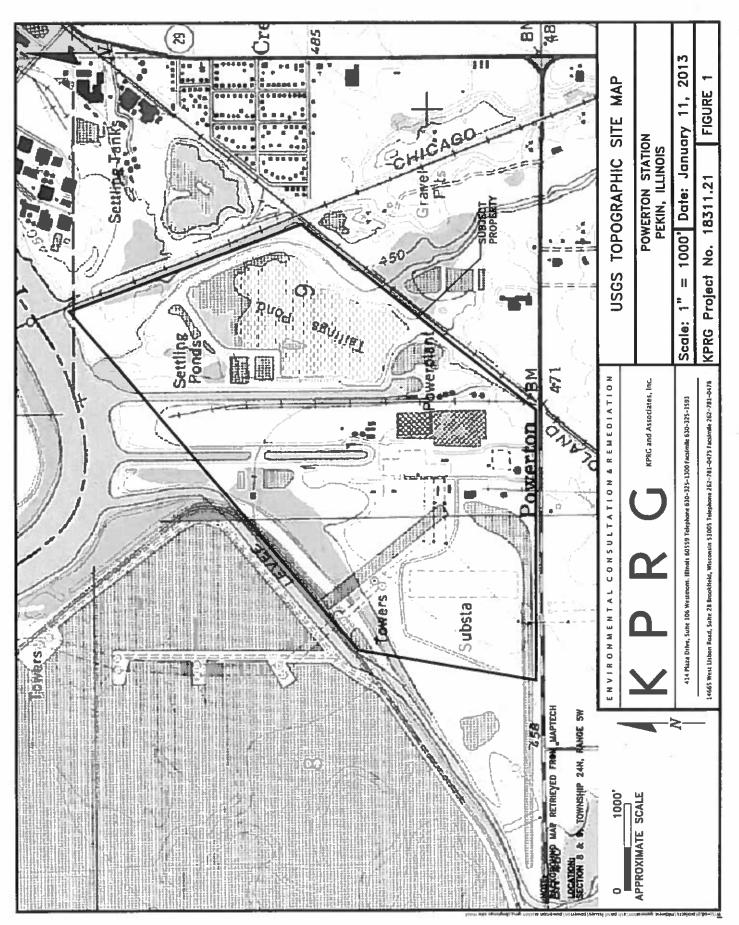
Facility Name
Pekin, IL
Location of Facility
ID No. 6282

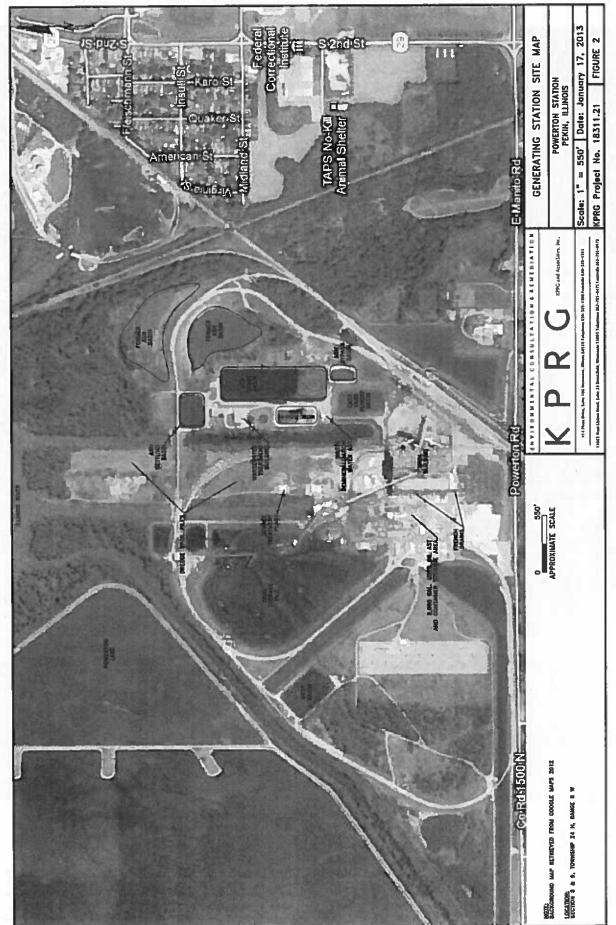
EPA Identification Number

Signature of Owner/Operator
Name of Owner/Operator
Valuest Generation, UC
Name of Owner/Operator
January 17, 2013
Date

(Source: Amended at 36 Ill. Reg. 15206, effective October 5, 2012)

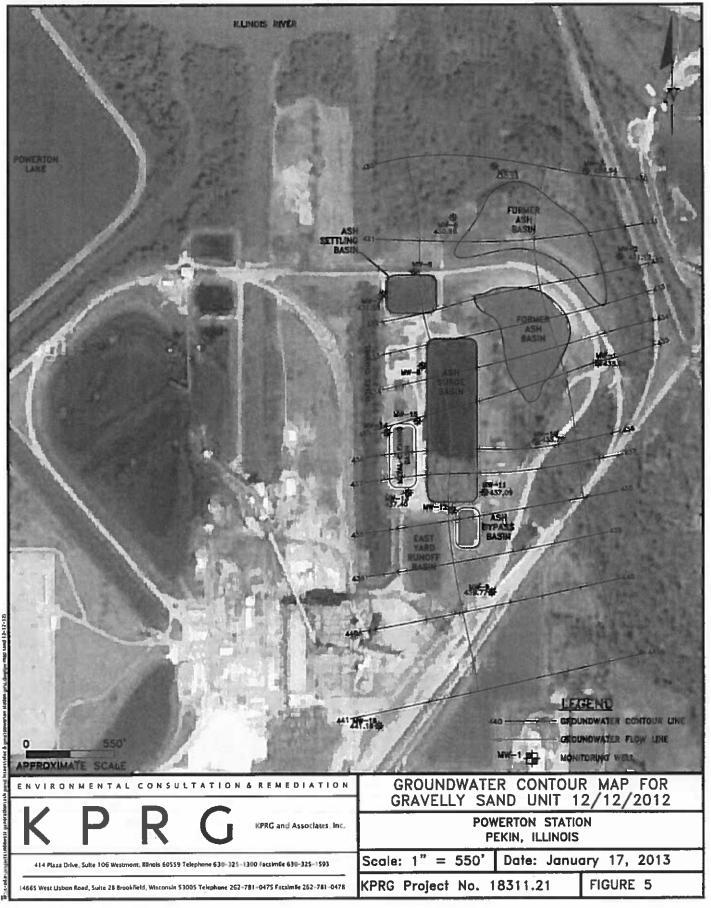
ATTACHMENT 2A Figures

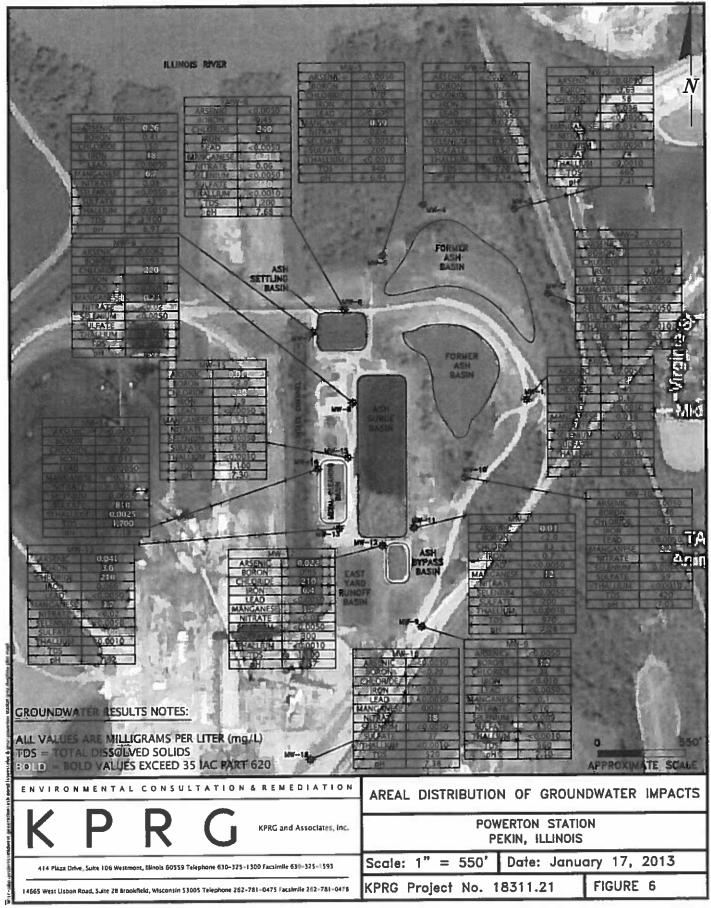












ATTACHMENT 2B Summary Data Table

810.0 0.014 6.98 ŝ 2 ŝ 0.17 ŝ $\hat{\bar{z}}$ 2 12/12/2012 0.0050 0.0030 0.00050 0.0020 0.0010 0.0010 0.0010 0.0050 0.0002 0.0050 0.0030 0.010 0.010 0.010 0.010 0.020 0.20 0.25 0.20 D.L. 2.0 ź 2 9 26 0.0027 0.074 2 $\frac{\alpha}{z}$ ŝ Î 2 Î S 0.01 7.06 0.005 S ŝ 35 ŝ Ω Z 2 90 Ê ŝ 학 역 7 22 9/18/2012 05000 0.0002 0.002 0.010 0.005 0.001 0.001 0.004 0.005 0.001 9000 70 0.003 0.001 0.00 0.003 0.25 0.001 0.001 0.20 ž 0.00 0.0 25 7 2 0.0042 0.0066 90.0 2 Ñ 0.46 ŝ Ŝ 2 2 2 Î R Î ŝ ŝ 6.5 7.45 $\frac{\alpha}{2}$ 99 ŝ 580 Ē 7 6/25/2012 0.002 0.00150 0.010 0.0002 0.005 0.003 0.001 0.001 0.001 0.004 0.003 0.001 0.001 0.20 0.001 0.005 0.001 0.006 0.00 0.25 DI. 0.01 ž 0 1 = 0.0025 Result 0.038 0.0077 0.29 £ ĝ 7.59 470 2 2 ŝ S ON. $\frac{\circ}{\mathbb{Z}}$ S Q Î S 73 $\frac{\Omega}{N}$ S Ê 53 19 3/19/2012 0.0050 0.003 0.003 0.010 0.0002 0.005 0.005 900.0 0.00 0.001 0.004 0.002 0.00 0.001 0.001 0.001 0.03 0.001 0.25 0.00 0.20 ź <u>0</u> 7 7 2 Result 0.0095 0.0027 100 6.39 0.48 ĝ 9 ŝ ĝ Š g Î S ŝ $\frac{2}{8}$ 2 $\frac{1}{2}$ ŝ ŝ ŝ 4 S Ξ 26 12/12/2011 0.0050 0.010 0.0002 0.005 0,006 0.003 0.002 41.003 0.004 0.001 D.L. 0.00 0.001 0.001 0.00 0.25 0.00 6.20 0.001 0.005 0.001 0.01 ž <u>=</u> 11 2 0.0057 690000 0.0036 0.056 7.33 2 ŝ Ē 2 ĝ 510 Ŝ Ŕ 2 S $\frac{\circ}{z}$ 7 S 문 ĝ 2 Î = 8 9/19/2011 0.0050 0.0002 900'0 0.003 0.010 0.002 0.001 0.001 0.005 0.001 0.005 0.001 0.003 0.001 0.004 D.L. 0.001 0.00 0.01 0.00 0.25 0.20 ź Ċ ≘ 2 0.0016 Result 0.034 7.58 0.38 ĝ 0 ĝ 0,33 Ê Î £ œ ŝ g Ē $\frac{\hat{z}}{z}$ ŝ $\frac{2}{x}$ 8 g 36 S ĝ 2 7 6/16/2011 0.0050 0.0002 0.00 0.003 0,004 0,0002 0.003 0.001 0.001 0.005 0.005 0.001 0,006 170 0.00 0.001 0.0 0.001 0.25 0.20 ź 0.001 2 2 Ξ 0.6022 Result 0.026 0.00% 7,43 0.26 0.32 Ê Ê Ê Î 7 2 ŝ 340 ã $\widehat{\overline{z}}$ Î Ê Ê 2 ŝ ŝ 몼 ŝ 5 3/25/2011 0.003 0.0050 0.0002 0.003 0.004 0.002 0.010 0.001 0.005 חלם 0.001 0.001 0.005 0.20 0.001 0.001 0.006 0.001 0.00 0.001 0.01 = 0.25 ź 2 ~ 0.0016 Result ĝ 7 2 0.45 S ŝ ŝ ŝ 0.28 ĝ ŝ Ê S 10.0 7.2 746 S Ê 450 Î R R 12/15/2010 \$ DE ŝ Ž d N Ž ż ŝ ž ź Ž Ž ž ž ŝ ŝ ŝ ź 2 ž Ž ž ž Ž Ž ŝ å Obtained in field Date Nitrogen Calc 5M 4500 F C Lab Method SM 2540C 7470A 6020 6020 6020 66020 6020 641213 6020 3 6020 6020 6020 6020 6020 60209 9038 64120 6020 6020 9251 6020 Sample: MW-01 **Total Dissolved Solids** Namagen/Namale Manganese Beryllium Chrumam Parameter Mercury Antemony Cadmium Chloride Selennin Thallium Cyanide Fluoride Nickel Arsenic Cubah Copper Sulfate Harmm Boron Least Least Silver Zinc Iron Ē

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Table 1. Groundwater Analytical Results - Midwest Generation LLC, Powerton Station, Pekin, IL

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Notes: Groundwater sample analyzed at PDC Laboratories.
Well sterent depth is from 20.5 to 30.5 feet below ground surface.
Sample collected using low-flow technique.
All values are in mg/L (ppm).

 Non-detect
 Non-detect
 Not Applicable
 Not Provided by tab S N N

Sample: MW-02	Date	12/15	12/15/2010	3/25/	3/25/2011	6/16/2011	2011	1102/61/6	2011	12/12	12/12/2011	3/19/2012	2012	6/25/2012	2012	/81/6	9/18/2012
Parameter	Lab Method	D.L.	Result	D.L.	Result	D.C.	Result	D.L.	Result	DT	Result	D.L.	Result	D.L.	Result	D.L.	Result
Antinony	60200	ΝP	QN	0.003	ND	0.003	GN	0.003	QN	0.003	ND	0.003	QN	0.003	QN	0.003	QN
Arsenic	6020	ž	0.0018	0.001	0.0015	100'0	0.0017	0.001	ON	0.001	ON.	0.001	ON	0.001	0.0011	0.001	0.0012
Вагист	6020	¥	0.042	0.001	0.025	100.0	0.053	0.001	0.059	0.001	990:0	0.001	0.049	0.001	0.064	100'0	0.06
Berythiam	6020	Z	ND	0.001	CIN	0.001	ON	0.001	QN	0.001	ND	0.001	ND	0.001	ND	0.001	ON
Boron	0209	NP.	0.38	0.01	0.23	0.01	0.35	0.01	0.83	0.01	69.0	10.0	0.27	10.0	0.74	0.01	0.65
Cadmum	6020	ž	CN	0.001	OIN	0.001	CIN	0.001	ON	0.001	CIN	0.001	GN	0.001	CN	0.001	Q
Chloride	4251	N.	45	10	43	10	4	10	-16	10	07	10	53	10	31	10	45
Стинит	6020	-Z	dN	0.004	UN	0.004	CN	1).004	GN	0.004	CIN	0.004	CIN	0.004	CN	0.004	S
Cobalt	60209	ž	QN	0.002	ON	0.002	OIN	0.002	ND	0.002	QN	0.002	QN	6.002	ND	0.002	Q
Соррег	6020	₽.	ND	0.003	QN	0.003	ND	0.003	ON	0.003	ON	0.003	QN	0.003	ON.	0.003	Q.
Cyanule	9014	Z	ON	0.0050	CIN	0.0050	QN	0.0050	ND	0.0050	QN	0.0058	ON	0.0050	ND	0.0050	Q
Phoride	SM 4500 F.C.	ž	ON.	0.25	0,10	0.25	0.35	0.25	GN	0.25	QN	0.25	ND	0.25	ND	0.25	ON
Iron	6020	NP	ON	0.010	QN	0.010	ON	0.010	ND	0.010	Q	0.010	ND	0.010	ON	0.010	QN
Lead	6020	å	GN.	0.001	QN	0.001	CN	0.001	CIN	0.001	QN	0.001	G.	0.001	CIX	0.001	S
Manganese	6020	NP	QN	0.001	0.0012	0.001	0.0022	0.001	QN.	0.001	ON	0.001	GN.	0.001	GN	0.001	0.0019
Mercury	7470A	Ž.	dN	0.0002	CN	0.0002	CIN	0.0002	SE	0.0002	GN	0.0002	ND	0.0002	GN	0.0002	CN
Nickel	6020	4N	0.0086	0.005	9600.0	0.005	0.0053	0.005	10.0	0.005	0.0073	9:00:0	QN	0.005	0.0065	0.005	9900:0
Nirugen/Nirate	Nitrogen Calc	å	7.5	0.20	4.5	0.20	4.7	0.20	4.3	0.20	6.9	0.20	1.5	0.20	4.4	0.20	2,9
pH	Obtained in field	VV	7,91	V.	RL'L	VN	7.20	N.A	7.52	NA NA	6.41	NA	7.92	NA	7.35	NA	7.32
Selenium	6020	a N	0.0017	0.001	0.0032	0.001	0.0014	0.001	0.0032	0.001	0.0037	0.001	ND	0.001	0.0039	0.001	0.0016
Silver	6020	å	ND	0.005	QN	0.003	ON	0.005	QN	0.00\$	UD	0.003	ND	0.005	QN	0.005	S
Sulfac	9038	å	52	01	42	10	53	10	70	10	69	01	55	10	7.3	10	69
Thathum	6020	å	QN	0.061	CIN	0.001	CIN	0.001	GN.	0.001	CN	0.001	CIN	0.001	QN	0.001	GN
Total Dissolved Solids	SM 2540C	ďN	480	17	420	17	470	17	160	11	490	11	440	17	\$00	17	\$10
Zinc	6020	ā.	Ę	0.006	CIN	9000	ND	9000	ND	0.006	CIN	0.006	0.013	900'0	CIN	0.006	GN

0.0096

0.0030

0.0010

90

0.40

2 $\frac{2}{8}$ Š

0,0030

0.075

S 0.8 ŝ 30

Result

D.L. 0.0050 0.0050 0.040 0.0010

12/12/2012

Table 1. Groundwater Analytical Results - Midwest Generation LLC, Powerton Station, Pekin, IL

2 S 0.0063

0.0000 0.0002

ŝ 2 3.4

0.010

0.20 × Z

7.38

ŝ S

0.0050

0.010

ĝ 520

0.0010

Ş

0.020

36

95

2

0.046

0.010 0.0050

ŝ

0,28

0.25

0.0050

0.010

Notes: Groundwater sample analyzed at PDC Laboratories.
Well serven sleph is from 23.5 to 33.5 feet below ground surface.
Sample collected using low-flow technique.
All values are in rug/L (ppm)

DL - Detection limit ND - Non-detect NA - Not Applicable NP - Not Provided by lab

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Pekin
Station,
Powerton
LLC,
Generation
Midwest
(
Results
Analytical
. Groundwater
Table 1.

Sample: MW-03	Date	12/15	12/15/2010	3/25/	1/25/2011	6/16/2011	2011	9/19/2011	2011	12/12	2/12/2011	3/19/2012	2012	6/25/2012	2012	9/18/2012	2012	12/12/2012	2012
	Lab Method	D.L.	Result	D.L.	Result	T'U	Result	D.1.	Result	D.1_	Result	D.L.	Result	D.1.	Result	D.L.	Resuk	D.L.	Result
	6020	₹	QN	0.003	QN	0.003	QN	0.0003	QN	0.003	GN	0.003	QN	0.003	QN	0.003	ND	0.0050	QN
	6020	ď.	4.0017	0.001	QN	0.001	0.0011	0.001	0.0012	0.001	0.0012	0.001	0.0012	0.001	QN	0.001	0.0015	0.0050	GN
	6020	NP	0.038	0.001	0.03	0.001	0.063	0.001	0.081	0.001	0.076	0.901	0.052	100.0	0.059	0.001	0.1	0.040	0.11
	0709	N.	CIN.	0.001	ND	0.001	Q	0.001	QN	0.001	ND	0.001	QN	0.001	ND	0.001	ND	0.0010	ND
	6020	AN.	0.75	0'01	0,18	10.0	0.24	10'0	0.64	0.01	1.0	10'0	0.56	10.0	0.63	0.01	0.64	0.40	0.63
	6020	dN	Ĝ	0.001	ŝ	0.001	CIN.	0.00	GN.	100.0	QN	0.001	CIN	0.001	S	0.001	QN.	0.0010	ŝ
	9251	å	39	10	52	010	56	10	29	10	36	20	54	9	57	01	54	2	58
	64020	ďΝ	CIN	0.004	C N	0.004	QN	0.004	GN	0.004	GN	0.004	QN	0.004	SN S	0.004	CN	0.0030	0.00%
	6020	ŝ	QN.	0.002	QN.	0.002	Û	0.002	QN	0.002	QN	0.002	Q	0.002	QN	D.002	QN	0.04130	QN
	6(0.20)	ďZ	ON.	0.003	ON.	0.003	ND	0.003	0.012	0.003	0.0042	0.003	QN	0.003	QN	0.003	QN	0.010	ON
	9014	N.	QN.	0.0050	CIN	0.0050	ND	0.0050	ON.	0.0050	QN.	0.0050	QN	0.0050	QN	0.0050	CIN	0.0050	Q.
	SM 4500 F.C.	NP	0.3	0.25	0.35	0.25	0.41	0.25	0.35	0.25	AN CN	0.25	ON.	0.25	Q.	0.25	0.29	0.25	0.35
	6020	ž	QN	0.010	ND	0.010	ND	0,010	0.042	0.010	QN	0.010	QN	0.010	QN	0.010	ND	0.010	0.036
	6020	ďN	ND	0.001	GN.	0.001	CIN	0.001	CIN	100.0	dN	0.001	CIN	0.001	GN	0.001	QN	0.0050	QN
	6620	ź	0.0047	0.001	0.0023	0.001	CIN	0.001	0.0037	0.001	0.0014	100.0	QN.	0.001	0.0033	0.001	0.002	0.0020	0.034
	7470A	NP	OIN	0.0002	GN	0.0002	CIN	0.0002	CIN	0.0002	CIN	0.0002	ND	0.0002	GN	0.0002	ND	0.0002	GN
	6020	ž	110.0	0.005	0.0095	0.005	ND	0.005	0.008	0.005	0.0078	0.005	QN	0.005	0.005	0.005	0.0067	0.010	ON
Nimgen/Nimate	Nitrogen Cale	٩N	9.4	0.20	5.2	0.20	5.4	0.02	0.20	0.02	0.20	0.20	2.1	0.02	0.37	0.02	0.08	0.02	0.13
	Obtained in field	NA	7,43	NA	7.55	NA	1,33	NA	7,30	NA NA	6.58	VV	7,38	NA	7.36	NA	7.46	VV	7.4
	6020	Ν	UD	0.001	0.0036	100.0	0.0015	0.001	0.0036	0.001	0.0021	0.001	0.0067	0.001	0.0018	0.001	0.0033	0.0050	Q
	6020	NP	QN	0.00\$	QN	0.005	ND	0.003	ON	0.005	ND	0.005	ND	0.005	ND	0.00\$	ND	0.010	QN
	9038	AN.	3	10	42	10	47	10	99	10	45	01	72	10	4	10	74	10	74
	6020	ď	QN.	100'0	QN	0.001	CN	0.001	QN	0.001	CIN	0.001	GN	0.001	QN	0.001	GN	0.0010	GN
Total Dissolved Solids	SM 2540C	NP	480	17	430	17	440	17	460	17	480	17	450	17	520	11	520	36	460
	6020	N.	ÛN.	900.0	Ĝ	0.006	G.	900'0	QX	900.0	QN	900.0	0.012	900:0	GN	900'0	GN	0.020	GN

Notes: Groundwater sample analyzed at PDC Laboratories.
Well sereen depth is from 24 to 14 feet below ground surface.
Sample collected using low frow technique.
All values are in mg/L (ppm).

DL - Detection limit ND - Non-detect NA - Not Applicable NP - Not Provided by lab

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weist 1.9 Method D.1. Ready Ready Ready	Sample: MW-04	Date	17/17	12/15/2010	3/25/	3/25/2011	/91/9	1102/91/9	9/19/2011	2011	12/12	1102/21/21	3/19/2012	2012	6/25/2012	2012	9/18/2012	2012	12/12	12/12/2012
6639 NP ND 0.001 ND<	Parameter	Lah Method	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Resutt	D.L.	Result	D.L.	Result	D.1.	Result	D.L.	Result
6629 NP ORD CARD NP CARD NP CARD CARD NP CARD NP CARD	Antimony	6020	₫Z.	QN	0.003	ND	0.003	QN	0.003	QN	0.003	QN	0.003	QN	0.003	ND	0.003	ND	0.0050	GN
6629 NP 0.055 0.091 0.092 0.091 0.091 0.091 NP 0.001	Arsenic	6020	ž	ND	0.001	ND ON	0.001	QN	0.001	ND	0.001	ND	0.001	ON	0.001	ND	0.001	0.0612	0.0050	ON
6429 NP OLOGI NP 0.001 NP 0.0	Barium	6024	N.	0.055	0.001	0.052	100.0	0.058	0.001	0.041	0.001	0.048	0.001	0.043	0.001	0.04	0.001	0.07	0.040	60'0
Parish P	Berythum	6020	Z.	ND	0.001	ND	0.001	ON	0.001	ON	0.001	ND	0.001	ND	0.001	QN	0.001	CIN	0.0010	QN
nick 6929 NP ND 0.001 ND 0.00	Borun	6020	Z	0.77		0.83	0.01	0,33	0.01	0.84	10:0	0.79	0.03	0.78	10.0	0.83	10:0	0.76	0.40	0.74
right 4921 NP 159 10 77 10 43 25 66 10 61 10 53 10 73 36 10 73 36 10 71 10 <	Cadmium	6020	ď	CIN	0.001	Î	100.0	QN	0.001	GN.	0.001	CZ.	0.001	QN	0.001	S	0.001	CIX	0.0010	Q
minut 64218 NP 0.00443 NID 0.0044 NID 0.0044 NID 0.0044 NID 0.0044 NID 0.0044 NID 0.0043 <	Chloride	9251	N.	150	01	11	10	43	25	986	1.0	1.9	10	585	9	75	25	011	25	130
th 6422 NP ND 0.002 ND 0.003 ND 0.004 ND 0.003 ND 0.004	Chromian	6020	ΝP	0.0045	0.004	UN	0.004	CIN	0.004	0.0044	0.004	QN	0.004	QN	0.004	CX	0.004	0.0045	0.0030	0.01
sket 6020 NP ND 0.003 ND 0.003 ND 0.003 ND 0.003 ND 0.003 ND 0.0049 ND 0.0049 </td <td>Cubah</td> <td>6020</td> <td>4N</td> <td>ND</td> <td>0.002</td> <td>0.0026</td> <td>0.002</td> <td>ND</td> <td>0.002</td> <td>QN</td> <td>0.002</td> <td>QN</td> <td>0.002</td> <td>QN</td> <td>0.002</td> <td>QN</td> <td>0.002</td> <td>8</td> <td>0.0030</td> <td>GN</td>	Cubah	6020	4N	ND	0.002	0.0026	0.002	ND	0.002	QN	0.002	QN	0.002	QN	0.002	QN	0.002	8	0.0030	GN
Adde 8014 NP ND 0.0050 ND 0.0	Copper	0209	NP	CIN	0.003	ND	0.003	QN	0.003	0.0033	0.003	10.0	0.003	ON	0.003	S	0.003	ax	0.010	2
signetic SM 4500 F C NP 0,13 0,24 0,43 0,21 0,11 0,21 0,13 0,23 0,13 0,23 0,13 0,23 0,13 0,23 0,13 0,23 0,13 0,13 0,13 0,14 0,10	Cyanide	9014	NP	ND	0.0050	QN	0.0050	ND	0.0050	ON.	0.00.50	QN	0.0050	ND	0.04050	ND	0.0050	GZ	0.0050	S
Fancesco Gozo NP ND 0.010 0.011 ND 0.001 ND 0.002 ND 0.001 ND 0.002 ND 0.001 ND 0.002 ND 0.00	Phoride	SM 4500 F.C.	dN.	0.3		0.39	0.25	0.43	0.25	0.31	0.25	QN	0.25	ND	0.25	SIN	0.25	0.26	0.25	0.29
Handle H	Iron	0209	ď	ND	0.010	710.0	0.010	CIN	0.010	QN	0.010	QN	0.010	UN	0.010	ND	0.010	QN	0.010	0.14
way 7.170A ND 0.001 0.41 0.001 0.69 0.001 0.002 ND 0.041 0.641 0.602 ND 0.001 ND 0.0002 ND <t< td=""><td>Lead</td><td>6620</td><td>ď</td><td>UN</td><td>0.001</td><td>Ę</td><td>0.001</td><td>QN</td><td>0.001</td><td>CIN</td><td>0.001</td><td>QN</td><td>0.001</td><td>CN</td><td>0.001</td><td>CIN</td><td>0.001</td><td>Q</td><td>0,000,0</td><td>£</td></t<>	Lead	6620	ď	UN	0.001	Ę	0.001	QN	0.001	CIN	0.001	QN	0.001	CN	0.001	CIN	0.001	Q	0,000,0	£
uny 1478A NP NP 00002 0012 0.0054 0.001 0.005 0.011	Manganese	6620	a.	0.77	0.001	0.68	0.001	0.48	0.001	69'0	100.0	0.35	0.001	0.089	0.001	0.26	0.001	0.5	0.0020	0.027
EL GAZO NA GAZ	Mercury	7478A	N.P.	ON	0 0002	Û	0.0002	OIN	0.0002	ND	0.0002	CIN	0.0002	ND	0.0002	GN	0.0002	CN	0.0002	GN
year/Nitrate Niveygen Cale NP 0.34 0.02 0.17 0.04 0.17 0.05 0.13 0.20 2.7 0.05 0.05 0.05 0.17 NA 7.26 NA 7.22 NA 7.24 NA 7.04 NA num 6.010 6.010 6.001 6.002 0.001 0.0022 0.001 0.0022 0.001 0.0022 0.001 0.0022 0.001 0.0022 0.001 0.0022 0.001 0.003 ND 0.004 ND 0.004 ND	Nickel	6820	ž	0.012	0.005	0.012	0.003	0.0067	0.005	1100	0.005	0.01	0.005	0.0055	0.005	0.0074	0.005	0.0095	0.010	QN
Mariane Mari	Nimgen/Narate	Nirwgen Cale	ž	0.34		0.73	0.20	2.7	0.02	90:0	0.02	0.07	0.02	0.65	0.02	1.1	0.02	0.46	0.03	1.0
From Edge (A12) NP (A12) (A12) (A13)	pH	Obtained in field	NA	7.27	NA NA	7.48	NA	7.26	NA	7.22	٧V	6.37	VV	7.24	NA	7.04	NA	7.13	NA NA	7,14
Fe 620 NP NP NP 10005 ND 6.005	Sclenum	6020	å	0.0022	0.001	0.0037	0.001	0.0022	1000	0.0039	0.001	0.002	0.001	0.0085	0.001	0.0035	0.001	0.0032	0.0050	CIN
te 9038 NP 110 25 140 16 48 25 61 1.0 6.7 50 160 10 94 25 NID SEARCH SOILS SM 2540C NP 680 17 620 ND 6006 ND	Silver	0209	ď.	QN	0.005	ND	0.005	ND	0.003	ND	0,005	QN	0.003	ON.	0.005	ND	0.005	QN	0.010	ON
warm 6620 NP NP <th< td=""><td>Sulfate</td><td>9038</td><td>Ž</td><td>110</td><td>22</td><td>140</td><td>10</td><td>8C *7</td><td>25</td><td>19</td><td>0.1</td><td>6.7</td><td>\$0</td><td>160</td><td>10</td><td>ま</td><td>25</td><td>170</td><td>25</td><td>150</td></th<>	Sulfate	9038	Ž	110	22	140	10	8C *7	25	19	0.1	6.7	\$0	160	10	ま	25	170	25	150
Dissolved Solids	Thallium	6020	A.	GN.	0.001	Ş	0.001	CIN	0.001	CIN	0.001	QN	0.001	CIN	100.0	CIN	0.001	GN	0.0010	S
9800 CIX 9800 CIX 9800 CIX 9000 CIX 9000 CIX 9000 CIX 9000 CIX 4N 0209	Total Dissolved Solids	SM 2540C	ã	680	13	620	17	470	17	580	17	520	17	099	17	009	17	800	2fi	720
	Zmc	6020	å	UN	0.006	UN	0.006	CIN	900.0	CIN	900.0	QN	0.006	ON	900.0	CN	0.006	UN	0.020	CIN

Notes: Groundwater sample analyzed at PDC Laboratories.
Well acreen depth is from 24 to 34 feet below ground surface.
Sample collected using low-flow technique.
All values are in mg/L (ppm).

DL - Detection limit ND - Non-detect NA - Not Applicable NP - Not Provided by Lab

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12/15/2010 3/2	725/2011		1102/91/9	_	9/19/2011	=	12/12/2011	2011	3/16/	3/19/2012	6/25/2012	012	9/18/2012	2012	12/12	2/12/2012
Result D	-		D.L. R	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result
D.803 ND 0.903		<u>=</u>		Ð.	0.003	ND	0.003	QN	0,003	ND	0.003	Q.	0.003	QN	0.0050	a N
0.001 ND 0.001			- 1	QN	0.001	QN.	0.001	100'0	0.001	QN	0.001	N N	100.0	QN	0.0050	2 N
0.001 0.048 0		=	0.001	0.046	0.001	0.071	0.001	0.065	0.001	0.054	0.001	0.058	0.001	0.066	0.040	0.077
GN 100.0	Ω	0.0	100.0	QN	0.001	ND	0.001	ON	0.001	ND	0.001	ND	0.001	ND	0.0010	ND
0.93	93	ď	0.01	61.0	0.01	0.79	10.0	0.77	10.0	0.82	0.01	0.74	0.01	0.65	0.40	99'0
0.00t ND	٩	ĕ	100.0	QN.	100'0	CIN	0.001	GZ	0.001	QN	0.001	Q	0.001	GN.	0.0010	Q
120	2:	_	01	69	25	16.0	25	97	10	82	50	100	50	150	25	170
0.004 0.0042	240	ĕ	0.004	<u>S</u>	0.004	9900.0	0.004	CIN	0.004	CIN	0.004	CN	0.004	B500:0	0.0030	0.0049
12 0.0023	023	ĕ	0.902	DN	0.002	0.0027	0.002	0.0022	0.002	ND	0.002	QN	0.002	0.002	0.0030	Q
ON E	۾	181	0.003	Q.	0.003	0.0036	0.003	1900:0	0.003	ON.	0.003	0.0031	0.003	2	0.010	Q.
0.0050 ND C		모	0.0050	QN	0.0050	Q	0.0030	QN	0.0050	ON	0.0050	ON.	0.0050	Ω N	0.0050	2 Z
0.36	36	0	0.25	0.43	0.25	0.25	0.25	QN	0.25	ND	0.25	ND	0.25	0.32	0.25	0,32
0.050			0.010	0.046	0.010	0.082	0.010	0.036	0.010	ND	0.010	Q	0.010	ND	0.010	0.43
0.001 ND		-	100.0	GN.	0.001	CZ.	100.0	Q.	0.001	ŝ	0.001	CN	0.001	GN	0.0050	ŝ
0.001 0.49	46	9	0.001	0.48	0.001	1970	0.001	0.5	0.001	92'0	0.001	0.41	0.001	-	0.040	0.59
0.0002 ND		0.0	0.0002	CIN	0.0002	SN	0.0002	CIN	0.0002	GN	0.0002	CN	0.0002	S	0.0002	Ē
0.005 0.013	13	3	0.005 0.	7,00.0	0.005	0.014	0.005	0.014	0.005	0.003	0.005	0.0095	0.005	0.013	0.010	Q
0.02 ND	٥	اء	0.02	80.0	20.0	Q.	0.02	ND	0.02	9'1	0.02	P.04	0.02	0.04	0.02	40.0
7.36	36	~	٧×	7.29	NA NA	7.05	ζ×.	6.34	NA	7,14	٧٧	7.00	NA AN	6.94	٧×	6.92
0.001 0.003	303	0	0.001	QN.	0.001	0.0045	0,001	0.0023	0.001	0.0028	0.001	0.0033	0.001	0,0031	0.0050	R
0.005 ND	Q	ö	0.005	ND CIN	0.005	GN	0.005	QN	0.005	CIN	0.005	Q.	0.003	ND	0.010	QN
07.1	70		25	011	25	250	25	170	25	120	20	130	20	200	25	200
0.001 ND	۵	0	0.001	CZ.	100.0	CN	100.0	CX	000	Ĝ	0.001	£	0.001	GN	0.0010	Ř
680	20		11	919	17	890	17	BZO	17	590	11	700	17	068	26	840
0.006 ND	_	-	9009	52	41 0006	CN.	A CATIS	CLN.	A On A	CX	9000	2	0.006	2	11/0 10	2

Notes: Groundwater sample analyzed at PTC Laboratories.
Well screen depth as from 21 to 31 feet below ground aurface.
Sample collected using low-flow technique.
All values are in mg/L (ppm).

DL - Detection limit ND - Non-detect NA - Not Applicable NP - Not Provided by lab

Sample: MW-06	Date	12/15	12/15/2010	3/25/2011	2011	1102/91/9	1102	9/19/2011	2011	12/12	1102/21/21	3/19/2012	2012	6/25/2012	2012	9/18/2
Parameter	Lab Method	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Resuft	D.L.	Result	D.L.	Result	D.L.	Result	D.L.
Antimony	6020	NP	ND	0.003	ND	0.003	GN	0.003	QN	0.003	ND	0.003	QN	0.003	QN	0.003
Arsenic	60218	¥	0.0042	0.001	0.0024	100.0	0.0029	0.001	0.0034	0.001	0.0036	0.001	0.002	0.001	0.0021	0.001
Barum	6020	-N	0,11	0.001	0.092	0.001	0.1	0.001	0.1	1001	0.12	0.001	0.097	0.001	0.12	0.001
Beryllaum	6020	.N	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	QN	0.001	QN	0.001
Boron	0000	ż	0.5	0.01	0.3\$	0.01	0.43	10.0	19.0	0.01	0.63	0.01	90'0	10.0	0.46	10:0
Cadmusin	6020	ž	GN.	0.001	ND	100'0	QN	0.001	CIN	0.001	dN	0.001	CIN	0.001	CIN	0.001
Chloride	9251	2	180	50	200	90	160	50	210	50	150	50	150	90	200	20
Chromiam	6020	NP	900.0	0.004	0.0083	0.004	0.0045	0.004	0.0085	0.004	0.0056	0.004	QN	0.004	0.0054	0.004
Cobak	6020	4Z	ND	0.002	ND	0.002	ND	0.002	ND	0.002	QN	0.002	Q	0.002	ND	0.002
Copper	6020	ďN	UN	0.003	ND	0.003	0.0032	0.003	0.0042	0.003	QN.	0.003	0.16	0.003	Q.	0.003
Cyanide	9014	Z	CIN	0.0050	CIN	0.0050	UN	0.0050	ND	0.9050	QN	0.0059	ND	0.0030	SP	0.0050
Phoride	SM 4500 F.C.	N	0.65	0.25	0.61	0.25	0.63	0.25	0.64	0.25	0.50	0.25	0.47	0.25	0.37	0.25
Iron	6020	4N	1.6	0.010	1.6	0.010	1.7	0.010	8.1	0.010	1.9	0.010	1.7	0.010	6.1	0.010
Lead	0209	ďN	î	100.0	ŝ	0,001	GN.	0.001	ND	100'0	GN.	0.001	GN.	0.001	QN.	0.001
Manganese	6020	- N	89.0	100.0	0.68	0.001	0.63	0.001	99:0	0.001	0.63	0.001	19.0	0.001	0,71	0.001
Mercury	7470A	ďN	CIN	0.0002	CN	0.0002	CIN	0.0002	ND	0.0002	GN	0.0002	GN	D.0002	GN	0.0002
Nickel	6620	å	0.0091	0.005	0.014	0.003	0.0078	0.005	0.0099	0.005	0.0089	0.005	QN	6.00.5	0.0095	0.005
Ninvgen/Nirate	Nitrugen Calc	4X	0.037	0.02	QN	0.02	S	0.02	0.04	0.02	90.0	0.02	ON.	0.03	QN	0.02
PIS	Obtained in field	NA	7,67	Y.	7,97	VV	7.62	NA	7.61	NA	7.35	NA	7.68	NA	7.59	NA
Sclenum	6020	Z.	0.0034	0.001	ND	0.001	ND	0.001	0.0025	0.001	0.0033	0.001	ND	0.001	0.0013	0.001
Silver	6020	å	QN	0.005	QN	0.005	ON	0.005	ND	0.005	ON	0.005	ND	0.005	ON	0.003
Sulfate	9038	å	210	20	250	50	280	50	260	50	170	20	250	50	450	50
Thalligen	6020	ďX	GN	0.001	QN	0.001	ND	0.001	Ĉ.	0.001	CN	0.001	ND	0.001	CIN	0.001
Total Dissolved Solids	SM 2540C	dN	950	17	066	17	1100	17	970	1.1	1000	17	1100	17	1300	1.1
Zinc	6020	å	0.0064	0.006	CIN	900:0	SIN	900.0	CIN	900.0	UN	900'0	0.049	0.006	GN	0.006

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D.L. 0.0050 0.0050

Result 0.0022

12/12/2012

9/18/2012

Table I. Groundwater Analytical Results - Midwest Generation LLC, Powerton Station, Pekin, IL

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Notes: Groundwater sample analyzed at PDC Laboratories.
Well screen depth is from 18 to 28 feet below ground surface,
Sample collected using low-flow technique.
All values are in ng/L (ppm).

DL - Detection limit ND - Non-detect NA - Not Applicable NP - Not Provided by lab

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Sample: MW-07	Date	12/6	12/6/2010	3/25/	3/25/2011	1107/91/9	2011	9/19/2011	2011	12/12	17/12/2011	3/19/2012	2012	6/25/2012	2012	9/18/	9/18/2012	12/12	2/12/2012
Parameter	Lab Method	D.E.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Resuth	D.1.	Result
Antimony	64020	ďN	Q.K.	0,003	ON	0.003	QN	0.003	dN	0.003	ND	0.003	QN	0.003	QN	0.003	QN	0.0050	Q
Arsenic	6020	ž	0.026	0.001	0.085	0.001	0.12	0.001	0.18	0.001	0.23	100'0	0.23	0.001	0.15	0.001	0.18	0.0050	0.26
Barnim	6020	ż	0.55	100'0	0.52	0.001	0.57	0.001	0.57	0.001	0.59	100'0	0.57	0.001	0.44	0.001	0.46	0.040	0.47
Beryllium	6020	ž	QN	0.001	Q.	0.001	QN	0.001	ND	0.001	ND	0.001	ND	100.0	ND	0.001	ND	0.0010	QN
Вогоп	6020	ž	19:0	0.01	0.44	0.012	0.43	10.0	0.38	10.0	0.34	10.0	0.35	10.0	0.41	0.01	0.36	0.40	0.41
Cadmium	6020	ź	0.0026	100.0	Ş	0.001	0.0015	0.001	Ę	0.601	GN.	0.001	GN.	0.001	GZ.	100.0	CIN	0.0010	GN
Chloride	9251	Š	170	90	200	25	140	25	130	2	180	25	8	57	130	25	130	25	150
Chromian	6020	å	0.0088	0.004	0.0075	0.004	0.0061	0.004	0.011	0.004	S	0.004	EN.	6.004	0.0043	0.004	0.0051	0.0030	0.028
Cobalt	6020	ž	0.017	0.002	95000	0.002	11.007	0.002	0.0055	0.002	900.0	0.002	0.0067	D.1002	0.013	0.002	0.009	0.0030	9500.0
Соррег	6020	å	0.14	0.003	ŝ	0.003	Q.	0.003	ΩN	0.003	QN	0.003	ON	0.003	QN	0.003	ND	0.010	ON.
Cyanide	9014	NP	S.	0.0050	S	0.0050	ND	0.0050	ΩN	0.0050	dN	0.0030	ND	0.0050	0.0055	0.0054	ND	0.0050	ON
Fhoride	SM 4500 F.C.	a.	0.47	0.25	0.42	0.25	0.58	0.25	0.94	0.25	0.47	0.25	0.54	0.25	0.38	0.25	0.35	0.25	0.35
lron	6020	ž	20	0.010	7.5	0.010	10	0.010	22	0.010	26	0.010	31	0.010	10	0.010	21	0.010	=
Lead	6020	Z	0.039	0.001	GN	0.001	0.0014	0.001	SID	0.003	CIN	0.001	CIN	0.001	0.0013	0.001	ND	0.0050	Q
Manganese	6020	ž	3.5	0.001	5.9	0.001	6.4	0.001	12	0.001	12	0.001	=	0.001	63	0.001	040	0,040	2.9
Mercury	7470A	ž	Š	0.0002	CIN	0.0002	0.00025	0.0001	CN	0.0002	UN	0.0002	ND	0.0002	CIN	0.0002	ND	0.00020	CIN
Nickel	9709	₹	0.045	0.005	0.021	0.005	0.022	0.005	0.026	0.005	0.022	0.005	0.018	0.005	0.026	0.005	0.028	0.010	QN
Nitrogen/Nitrate	Nárogen Calc	ď	0.043	0.02	80.0	0.02	ND	0.20	0.31	0.02	0.03	0.03	ND	0.02	0.02	0.02	QN	0.02	0.03
μd	Obtained in field	¥.	NM	V.	7.04	NA	6.78	NA	6.83	NA	6.45	NA NA	6.79	NA	16'9	NA	6.93	NA	6.97
Sclenum	6020	a.	0.0043	0.001	0.0026	0.001	0.0025	0.001	0.0073	0.001	0.0054	0.001	0.0013	0.001	0.006	0.001	0.0047	0.0050	QN.
Silver	6020	Ž	QN	0.005	Q	0.005	ON	0.005	QN	0.005	QN	0.005	QN	0.003	ND	0.002	ND	0.010	QN
Sulfate	9038	ů.	120	10	49	10	25	0.1	9.1	0.1	33	1.0	3.0	10	18	10	25	10	43
Thallium	6020	ďN	CIN	0.001	Û	100.0	QN	0.001	CN.	0.001	QN	0.001	CIN	0.001	GN.	0.001	S	0.0010	ŝ
Total Dissulved Solids	SM 2540C	N.	860	17	1100	11	1300	17	1300	1.1	1300	1.1	1400	1.1	1300	17	1300	26	1100
Zinc	6020	ΝÞ	0.076	0.006	SIN	0.006	CIN	0.006	CIN	0.006	CIN	0.006	GN	900.0	0.011	0.006	GN	0.020	Š
Notes:	Notes: Groundwater sample analyzed at PDC Laboratories.	ic analyzed	at PDC Labo	ratores	Į,		DE	DL - Detection limit	THE	NM	NAI - Not Measured	7							

Notes: Groundwater sample analyzed at PDC Laboratones.
Well screen depth is from 35 to 45 feet below ground surface.
Sample collected using low-flow technique.
All values are in mg/L. (ppm).

DL - Detection limit ND - Non-detect NA - Not Applicable NP - Not Provided by lah

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Result
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Table

Parameter La	Lab Method				-			-					•						4
Anlimony		D.L.	Result	D.L.	Result	D.1.	Result	17.71	Result	D.L.	Result	D.L.	Resutt	D.L.	Result	D.1,	Result	D.L.	Result
	6020	ďN	GN	0.003	UN	0.003	ON	0.003	ND	0.003	ND	0.003	QN	0.003	QN	0.003	ND	0.0050	QN
Arsenic	64120	Νħ	0.0052	0.001	0.0039	0.001	0.0044	0.001	0.0036	0.001	0.0052	0.001	0.0038	0.001	0.004	0.001	0.0041	0.0050	0.0062
Barium	64120	NP	0.11	100.0	0.12	0.901	0.11	0.001	0.11	0.001	0.13	0.001	0.54	100.0	D.14	0.001	0.14	0.040	0.16
Beryllum	6020	NP	QN	0.001	QN	0.001	ND	0.001	ND	0.001	ND	0.001	QN.	100.0	ND	0.001	ND	0.0010	ND
Boron	6020	ďZ	0.93	0.01	0.72	0.012	19.0	10:0	0.82	0.01	0.82	0.01	0.57	0.01	0.57	10:0	-	0.40	0.93
Cadmium	6020	NP	CIN	100.0	<u>Q</u>	0.001	Ę	0.001	CIN	0.001	QN	0.001	S	0.001	Ć.	0.001	CN	0.0010	QN
Chloride	1526	- N	180	50	210	50	140	50	210	50	190	90	170	Se.	200	50	210	5:0	220
Стория	6020	N.	0.0059	0.004	0.0081	0.004	0.0059	0.004	0.0084	0.004	0.0053	D.004	S	0.004	0.0056	0.004	0.0066	0.0030	0.012
Cobalt	647240	AN.	ΩN	0.002	QN	0.002	ND	4.002	ND	0.002	QN	0 003	Ŋ	0.002	ND	0.002	ND	0.0030	Ñ
Соррег	60241	Z.	ND	0.003	ON	0.003	0.0036	0.003	0.0037	0.003	10.0	0.003	QN	0.003	ND	0.003	0.0032	0.010	QN
Cyanide	9014	ž	ND	0.0050	ON	0.0050	ND	0.0050	ND	0.0000	ON	0.0050	QN	0.00150	ND	0.0050	UN	0.0050	2
Fluoride SA	SM 4500 F.C.	ž	0.77	0.25	0.76	0.25	0.81	0.25	0.84	0.25	0.75	0.25	0.70	0.25	0.63	0.25	0.53	0.25	0.63
Itom	6020	-N	0.56	0.010	2.1	0.010	1.7	0.010	0.97	0.010	P.0	0.010	2.3	0.010	1.2	0.010	1.3	0.010	2.1
Lead	0209	-N	Q.	0.001	ON.	0.001	QN	0.001	GN.	0.001	GN	0.001	S	0.001	QN	0.001	QN	0.0050	S
Manganese	6020	-IN	0.15	0.001	0.27	0.001	0.29	0.001	0.18	0.001	0.2	0.001	0.27	0.001	0.2	0.001	0.2	0.0020	0.23
Mercury	7470A	Ž	CN	0.0002	CIN	0.0002	ND	0.0002	ON	0.0002	GN	0.0002	CN	0.0002	ND	0.0002	QN	0.00020	UN
Nicket	6020	Z	110.0	0.005	0.013	0.005	0.0076	0.005	0.007	0.005	0.009	0.005	0.0054	0.005	0.0075	0.005	0.009	0.010	ON
Narogen/Narate Na	Nitrogen Calc	ż	Q.	0.02	QN	0.02	01.0	0.1	1.6	0.02	Q.	0.02	Ñ	0.02	ND	0.02	QN	0.02	Ñ
pH Obs	Obtained in field	NA NA	R.24	٧×	R.17	N.	7.66	VV	8.24	ž	7.87	V.	7.97	٧٧	8.20	VN	8.23	VV.	8.09
Selenum	6020	ž	0.0036	0.001	0.0013	0.001	ON	0.001	0.0031	0.001	0.0036	0.001	0.0018	0.001	0.0018	0.001	ND	0.0050	ON
Silver	6020	~N	ND	0.003	ND	0.005	QN	0.005	ND	0.005	QN	0.005	Q	0.003	ND	0.005	ND	0.010	ND
Suffate	9038	Ż	160	50	240	\$0	140	50	200	20	200	50	300	50	440	\$0	330	50	360
Thailium	6020	Ż	Ŝ	0.001	QN	0.001	ΩN	0.001	SN	0.001	CIN	0.001	QN	0.001	Ŝ	100.0	GN	0.0010	QN
Total Dissolved Solids S	SM 2540C	Ž	890	17	966	17	970	1.1	940	11	066	17	1200	11	1200	13	1200	26	1200
Zmc	6020	ž	GN	900'0	CIN	9000	ÇŽ	900'0	GN	9:00	CIN	900.0	UD	0.006	GN	9000	CIN	0.020	Q

Notes: Groundwater sample analyzed at PDC Laboratories.
Well acrees depth is from 20 to 30 feet below ground surface.
Surraje collected using low-flow technique.
All values are in mg/L (ppm).

DL - Detection limit ND - Non-detect NA - Not Applicable NP - Not Provided by lab

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Sample: MW-09	Date	12/16	12/16/2010	3/25/2011	2011	9/16/2011	110	9/19/2011	1102	12/12/2011	2011	3/19/2012	012	6/25/2012	012	9/18/2012	2012	12/12/	2/12/2012
Parameter	Lab Method	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result
Antimony	6020	å	dN	0.003	ND	0.003	ND	0.003	ND	0.003	QN	0.003	QN	0.003	QN	0.003	ND	0500'0	ND
Arsenic	6920	ž	ND	0.001	0.0018	0.001	0.0017	0.001	ON.	0.001	0.0012	100.0	ND	100.0	0.0017	0.001	ΩN	0.0050	Q
Barium	6020	-N	0.038	0.001	0.042	0.001	0.038	0.001	0.03	0.001	0.038	0.001	0.035	0.001	B 038	0.001	0.038	0.040	0.062
Berythum	6020	ž	ďΝ	0.001	ND	0.001	UN	0.001	ON	0.001	ND	0.001	ND	0.001	ND	0.001	ND	01000	î
Boron	0209	ž	2.1	0.01	6'1	0.012	6.1	0.01	2.5	0.01	2.7	0.01	2.6	10.0	2.6	0.01	2.9	1.0	3.2
Cadmium	6020	ď.	GN.	0.001	CIN	0.001	S	0.001	CN	100.0	GN	0.001	ND	0.001	GN	100.0	CN	0.0010	ŝ
Chloride	4251	Ą	25	01	RZ	10	28	2	30	22	30	01	30	10	22	91	28	10	31
Сиопии	9209	Ā	GX	0.004	GN	0.004	CIN	0.004	Ę.	0 004	E S	0.004	Ę	0.004	CIN	0.004	CIN	0.0030	0.01
Cobali	6020	Ž.	QN	0.002	CN	0.002	ON	0.082	ON	0,002	QN	0.002	QN	0.002	QN	0.002	ND	0.0030	QN
Copper	6020	a. Z	QX	0.003	QN	0.003	ON	0.003	ON	0.003	ON	0.003	ON	0.003	ND	0.003	ND	0.010	ON
Cyanide	9014	ďΝ	QN	0.0050	GN.	0.0050	UN	0.0050	GN	0.0050	ON	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Fluoride	SM 4500 F.C.	å	ND	0.25	0.31	0.25	0.34	57.0	0.25	0.25	QN	0.25	QN	0.25	ND	0.25	ON	0.25	0.3
fron	6020	ΔN	QN	0.010	0.066	0.010	QN	0.010	QN	0.010	QN	0.010	0.014	0.010	QN	0.010	QN	0.010	QN
Lead	6820	ΔN	GN	0.001	CN.	0.001	GN	0.001	CIN	0.001	QN	100.0	QN	0.001	ND	0.001	ND	0.0050	GN
Manganese	0209	άN	0.23	0.001	0.45	0.001	0.48	0.001	0.14	100.0	0.28	0.001	0 22	0.001	0.34	0.001	0.11	0.0020	0.1
Mercury	7470A	ΝP	QN.	0.0002	Ŝ	0.0002	GN	0.0002	CIN	0.0002	CE CE	0.0002	CZ	0.0002	GZ	0.0002	CN	0.00020	S
Nickel	6020	N.	0.01	0.005	0.0093	0.005	0.0063	0.005	0.0065	0.005	0.0088	0.005	QN	0.005	ND	0.005	0.0067	0.010	QN
Nimgen/Nirate	Nitrogen Calc	₽.	2.9	0.20	5.6	0.20	5.6	0.20	3.7	0.50	2.6	0.20	5.0	0.20	3.0	0.20	6.3	0.20	01
pH C	Obtained in field	NA	7.22	NA	7.34	NA	7.10	NA	7.32	NA	6.31	NA	7.28	NA	7.30	NA	7.18	NA	7.10
Sclenium	6020	N	0.0024	0.001	0.0072	0.001	0.0017	0.001	0.0043	0.001	0.0041	0.001	0.0072	0.001	0.0047	100'0	0.0044	0.0050	0.009
Silver	6020	NP	CIN	0.005	ON	0.005	ND	0.005	ND	0.005	ON	0.005	ND	0.005	ND	0.003	ND	0.010	QN
Sulfare	9038	NP	110	25	110	25	110	25	130	25	110	25	120	\$0	130	2.5	120	25	130
Thallium	6020	NP	(IN	100'0	ND	0.001	QN	0.001	QN	0.001	GN	0.001	GN	0.001	CN	0.001	CN	0.0010	CZ.
Total Dissolved Solids	SM 2540C	d.	500	17	510	17	240	17	200	17	520	17	530	17	520	17	580	26	560
Zinc	6020	ďN	CIN	900'0	CN	9000	S.	9000	CZ	900.0	S	900'0	Ŝ	0.006	S	900'0	S	0.020	CN

Notes: Groundwater sample analyzed at PTAC Laboratories.
Well increen lepth is from 22 to 12 feet below ground surface.
Sumple collected using low-fish technique.
All values are in mg/L (ppm).

DL - Detection limit ND - Non-detect NA - Not Applicable NP - Not Provided by lab

Sample: MW-10	Date	12/1:	12/15/2010	3/25.	3/25/2011	/91/9	6/16/2011	9/19/2011	2011	12/12	2/12/2011	3/19/2012	2012	6/25/2012	2012	9/18/2012	2012	12/12	12/12/2012
Parameter	Lab Method	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.1.	Result
Antimony	0209	ž	QN	0.003	QN	0.003	ND	0.003	QN	0.003	ND	0.003	QN	0.003	QN	0.003	UN	0,0050	QN
Arsenic	6020	ž	ON	0.001	ON	0.001	0.0015	0.001	ON	0.001	QN	0.001	ND	100.0	0.0015	0.001	0.0014	0.0050	줖
Barum	6020	ž	0.24	0.1011	0.28	0.001	0.36	0.001	0.25	0.001	0.26	0.001	0.26	0.001	0.27	0.001	0.23	0,040	0.24
Berythum	9020	NP	QN	0.001	ON	0.001	ON	0.001	QN	0.001	ND	0.001	ND	0.001	ND	0.001	N	0.0010	QN
Boron	0009	Ž	0.48	0.01	0.48	0.012	0.52	10.0	0.42	10.0	0.57	0.01	0.54	10.0	0.54	10.0	0.42	0.40	0.46
Cadmissm	6020	Ž.	CIN	0.001	GN	0.001	ON	0.001	QN	0.001	CIN.	0.001	CN	100'0	Ć.	0.001	GN	0.0010	ĝ
Chloride	1526	Ň	0+	10	43	01	43	10	49	10	42	01	45	2	46	=	45	9	45
Chromium	6020	N.	CIN	0.004	CIN	0.004	CIN	0.004	CN.	0.004	GN	0,004	CIN	0.004	CN	0.004	GN	0.0030	0 0048
Cobalt	6020	¥	0.0026	0.002	0.0027	0.002	0.0039	0.002	0.0025	0,002	0.0026	0.002	0,0024	0.002	0.0029	0.002	0.0029	0.0030	Q
Соррег	6020	₽	QN	0.003	ON.	0.003	GN.	0.003	ON.	0.003	0.0041	0.003	â	0.003	Q	0.003	ON.	0.010	Q
Cyanide	9014	Ν	ND	0.0050	ON	0.0050	ND	0.0050	ND	0.00.0	GN	0.0030	ON	0.0050	QN	0.00150	SN	0.0050	ON
Fluorade	SM 4500 F.C.	-N	UN	0.25	0,30	0.25	0.36	0.25	ND	0.25	ND	0.25	Q	0.25	Ñ	0.25	an	0.25	0.28
Iron	6020	N.	ON	0.010	ON	0.010	0.044	0.010	QN	0.010	ND	0,010	ND	0.010	0.015	0.010	0.012	010.0	0.016
Lead	6020	ž	CN	0.001	Û	0.001	GN.	0.001	GN	0.001	CIN	0.001	QN	0.001	ND	0.001	ND	0.0050	QN
Manganese	6020	ī	2.1	0.001	2.8	0.001	3.8	0.001	2.3	0.001	2.3	0.001	2.3	0.001	2.6	0.001	2.5	0,040	2.2
Mercury	7470A	-N	ON	0.0002	CIN	0.0002	ND	0.0002	CIN	0.0002	GN	0.0002	CN	0.0002	ON	0.0002	GN	0.00020	GN
Nickel	6020	ž	0.015	0.005	0.016	0.005	0.015	0.005	10.0	0.005	0.013	0.005	0.0091	0.003	0.0093	0.005	0.014	0.010	Q
Nirogen/Nirate	Nirrogen Calc	ž	3.0	0.20	4.0	0.20	2.1	0.20	4.5	0.20	4.9	0.20	6.0	0.20	2.9	0.20	5.2	0.20	10°
PH	Obtained in field	NA	7,04	Ϋ́N	7.01	NA	6.88	NA	7.04	NA	6.03	NA	7.03	NA	6.95	NA	96.99	NA	7.03
Selenium	6020	Νb	0.0042	100'0	0.0064	0.001	0.0043	0:001	0.0057	100.0	0.0065	0.001	0.0056	0.001	0.0056	100.0	0.0058	0.0050	0.0074
Silver	6020	ž	ND	0.003	QN.	0.003	ND	0.003	ON	0.005	QN	0.003	ND	0.003	ND	0.003	QN	0.010	QN
Sulfate	9038	NP	62	10	2	10	29	01	I	10	22	10	9/	10	63	10	58	01	65
Theflam	6020	Ž	CIN	0.001	CIN	0.001	QN	0.001	OIN	0.001	GN	0.001	G	0.001	CIN	100:0	QN	0,0010	GN
Total Dissolved Solids	SM 2540C	P.N.	530	17	520	17	650	17	470	17	\$40	17	530	11	550	17	580	26	420
Zinc	6620	a.	ND	9000	GN	0.006	GN	900.0	CIN	0.006	QN	0.006	GN	900.0	CIN	900'0	GN	0.020	QN

Notes: Groundwater sample analyzed at PIOC Laboratories.
Well screen depth is from 19 to 29 feet below ground surface.
Sample collected using low-flow technique.
All values are in mg/L (fipmi).

JM. - Detection limit ND - Non-detect NA - Not Applicable NP - Not Provided by Ltb

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Sample: MW-11	Date	12/16	12/16/2010	2/15/2011	2011	6/16/2011	1102	9/19/2011	2011	12/12/2011	2011	3/19/2012	2012	6/25/2012	012	9/18/2012	2012	12/12/	2/12/2012
Parameter	Lab Method	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.T.	Result
Antimony	6020	ď	QN	NP	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	QN	0500'0	S
Arsenic	6020	-N	0,0021	ž	0.0025	0.901	0.0019	0.001	0.0016	0.001	0.0019	0.001	0.0021	0.001	0.0032	0.001	0.0038	0.0050	0.03
Barnın	6020	-N	0.17	N.	0.11	0.001	0.18	0.001	0,11	0:001	0.11	0.001	0.13	0.001	0.17	0.001	0.22	0.20	UN
Beryllium	6020	NP	GZ.	N	GN	0.001	ND	0.001	QN	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND
Boron	6020	a.	9.1	dN	<u>=0</u>	0.012	971	10.0	1.5	10.0	1.00	10.0	1.3	0.01	1.9	0.01	2.6	2.0	Ñ
Садтият	6020	ĒZ.	£	ž	ŝ	100'0	S	0.001	GN.	0.001	QN	0.001	ON	0.001	GN	0.001	ON	0.0010	GN.
Chloride	9251	42	70	ďΝ	99	50	120	25	53	50	8.7	01	24	25	150	10	\$2	50	63
Сћгитит	6820	NP P	C.N	NP.	S	0.004	CIN	0.004	CIN	0,004	CIN	0.004	GN	0.004	0.0051	0.004	CIN	0.0030	0.015
Cobali	6020	ž	0.0028	ž	0.0041	0.002	0.0024	0.002	QN	0.002	QN	0.002	0.0024	0.002	0.0039	0.002	0.0049	0.0030	0.0041
Copper	6020	ž	0.0032	å.	0.0032	0.003	0.0043	0.003	QN	0.003	ND	0.003	ND	0.003	ND	0.003	0.0049	0.010	QN
Cyanide	9014	å	â	ž	GN	0.0050	ND	0.0050	CIN	0.0050	ND	0.0050	ND	0.00050	ND	0.0050	ND	0.0050	Q
Fluoride	SM 4500 F C	a.	0.53	ž	0.56	0.25	19.0	0.25	0.58	0.25	0.44	0.25	0.42	0.25	0.32	0.25	0.56	0.25	0.64
Iron	6020	ž	0.44	ź	0.01	0.010	0.029	0.010	0.018	0.010	ON	0.010	Q	0.010	0.056	0.010	2.0	0.010	0.7
Lead	6020	N.	ŝ	ž	û	0.001	dN	100'0	CIN	0.001	QN.	0.001	QN	0.001	<u>S</u>	0.001	0.0023	0.0050	S
Manganese	6020	ž	3.2	4N	3.6	0.001	2.9	0.001	2.2	100.0	2.5	0.001	2.9	0.001	3.7	0.001	4.7	0.20	12
Mercury	7470A	Ž	S.	ž	CIN	0.0002	C.X.	0.0002	CN	0.0002	CZ	0.0002	CIN	0.0002	GN	0.0002	ND	0.00020	CIN
Nickel	6020	ž	0.019	Ν	0.016	0.005	0.013	0.005	0.011	0.005	0.013	0.005	0.011	0.005	0.013	0.005	0.017	010.0	S
Nangen/Narate	Nitrugen Calc	Z.	0.41	Ž	0.17	0.02	0.04	0.02	0,74	0.02	1.5	0.02	0.39	0.02	ΩN	0.20	4.6	0.02	0.39
pH	Obtained in field	٧×	7.83	×Z	7.13	NA	7.02	NA	7,31	NA	6.48	NA	7.32	VN	7.15	٧V	7,30	NA	7.28
Selenium	6020	ž	0.0026	a.	0.0015	0.001	0.0018	0.001	0.004	0.001	0.0031	0.001	0.0039	0.001	0.0039	0.001	0.004	0.0030	QN.
Silver	6020	N.	ND	NP	ND	0.005	QN	0.003	ND	0.005	QN	0.005	QN	0.005	ND	0.005	ND	0.010	Q
Sulfate	9638	n N	170	ďN	160	50	210	25	140	50	160	20	130	901	320	25	170	85	200
Thalleum	6020	ž	CIN	ů.	S	0.001	CIN	0.001	CIN	0.001	CN	100.0	Ĉ.	0.001	GN	100.0	QN	0.0010	Q
Total Dissolved Solids	SM 2540C	ż	740	ī.Ν	710	17	930	17	620	17	730	7	740	17	1000	17	760	92	970
Zinc	6020	ΔN	0.012	ď	QN	0.006	CIN	0.006	CIN	900'0	CN	900.0	QN	0.006	ON	0.006	0.0073	0.020	Î

Notes: Groundwater sample analyzed at PDC Laboratories.
Well sereen depth is from 30 to 40 feet below ground surface.
Sample collected using low-flow technique.
All values are in mg/L (typin).

DL - Detection land ND - Non-detect NA - Not Applicable NP - Not Provided by lab

Pekin
Station,
Powerton
LLC.
Generation
Midwest
60
Resuh
lytical
Ana
alcr
ndw
Groun
Table

Sample: MW-12	Date	17/1	12/15/2010	2/15	7/15/2011	6/16/	6/16/2011	9/19/.	9/19/2011	12/12	2/12/2011	3/19/2012	2012	6/25/2012	2012	9/18/2012	2012	12/12	12/12/2012
Parameter	Lab Method	D.1.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Resutt	D.L.	Result	D.L.	Result
Antimony	6020	ΝÞ	ND	dN	QN	0.003	QN	0.003	GN	0.003	QN	0.003	Q	0.003	ON	0.003	QN	0.0050	QN
Arsenic	6020	a.	0.0038	NP	0.013	0.001	0.0064	0.001	0.0087	100.0	0.0089	0.001	0.0042	0.001	0.014	0.001	0.011	0.0050	0.022
Barrum	6020	ů.	0.089	ž	0.11	0.001	160.0	0.001	0.085	100'0	60:0	0.001	0.071	0.001	0.12	0.001	0.11	0.040	H.1
Beryllium	6020	N.F	ND	NP	QN	0.001	CIN	0.001	QN	0.001	QN	0.001	ON.	0.001	ND	0.001	ND	0.0010	QN
Вогол	0209	dN.	1.6	NP	1.4	0.012	1.3	0.01	1.2	0.01	13	10.0	0.92	0.01	1,2	10.0	=	0.40	0.85
Сафтит	9709	NP	CIN	ďN	Q	0.001	S	0.001	GN	100.0	CIN	0.001	S.	100'0	GZ	0.001	S	0.0010	û
Chluride	9251	a.N	170	ď	180	50	180	20	061	\$0	210	50	170	8	DK.	95	170	99	210
Стопит	6020	ΝÞ	UN	ď	0.0056	0.004	0.0044	0.004	0.0071	0.004	0.0047	0.004	CN	0.004	D.0043	0.004	0.0045	0.0030	0.0079
Cobati	6820	dN.	MD	₽.	QN	0.002	QN	0.002	QN	0.002	Ñ	0.002	QN	0.002	Q.	0.002	Q.	0,0030	QN
Copper	6820	ďN	ND	ă	ON	0.003	0.0032	0.003	0.0036	0.003	0.6031	11:003	Q.	0.003	ę.	0.003	ON	0.010	ŝ
Cyanide	9014	ž	QN.	ΑN	ON	0.0050	ON	0.0050	ND	0.0050	ON	0.0050	N.	0.0050	Q.	0.0050	ON	0.0050	CZ
Phoride	SM 4500 F C	å	0.71	Ž	0.61	0.25	1970	0.25	8.74	0.25	0.61	0.25	91:0	0.25	0.36	0.25	0.42	0.25	0.43
Iron	6020	ď	5.5	N.	6.3	0.010	5.6	0.00	4.0	0.010	3.1	0/0/0	4.8	0,010	8.2	0.0.0	8.9	0.010	6.4
Lead	6020	ž	QN	Z	CIN	0.001	CIN	0.001	QN.	0.001	GN.	0.001	GN.	100.0	G.	0.001	G.	0.0050	îz
Manganese	6020	å	0 32	NP	0.58	0.001	0.26	0.001	0.37	0.001	0.25	0.001	0.13	0.001	0.71	0.001	0.64	0.040	1.7
Mercury	7470A	S.	SN	N	QN.	0.0002	ND	0.0002	GN	0.0003	CIN	0.0002	CZ	0.0002	CN	0.0002	GN	0.00020	CZ
Nickel	6020	a.	0.00%	Ν	0.01	0.005	0.0072	0.005	0.0075	0.005	1600'0	0.005	0.0075	0.005	0.0082	0.003	0.012	0.010	QN
Nitragen/Nitrate	Nitrogen Cale	ž	QN	ž	QN	0.402	0.14	0.02	QN	0.02	ND	0.02	P.O.	0.20	QN	0.02	0.03	0.02	QN
pH	Obtained in field	NA NA	7.65	NA	7.51	V.V.	6,98	NA	7.66	NA	7.38	NA	7.23	NA	7.40	V.V.	7.50	NA	7.37
Selenium	6020	ž	0.0026	N.	0.0027	0.001	CIN	0.001	0.0023	0.001	0.0034	100.0	0.0043	0.001	0.0038	0.001	0.0016	0.0050	UN
Silver	6020	ž	QN	ď	ON	0.005	UN	0.003	ND	0.005	ND	0.005	QN	0.003	UN	0.005	ND	010.0	ND
Sulfate	9038	ž	290	×	270	50	150	50	360	20	300	50	310	\$0	430	250	370	50	300
Thallium	6020	Z	GN.	NF	GN.	100.0	CZ.	0.001	QN	0.001	ND	0.001	QN	0.001	GN	0.001	CIN	0.0010	UDN
Total Dissolved Solids	SM 2540C	ž	086	NP	1000	17	1100	17	970	17	970	11	1000	11	1200	17	1200	56	1100
Zinc	6020	Ā	S	å	CIN	900.0	GZ	900.0	QN	900'0	CIN	900.0	Ü	900.0	GN	9000	GN	0.020	S

Notes: Groundwater sample analyzed at PDC Laboratures.
Well screen depth is from 19 to 29 feet below ground surface.
Sample collected using low-flow recharque.
Alt values are in mg/L (ppm).

DL - Detection limit
ND - Non-detect
NA - Not Applicable
NP - Not Provided by lib

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≓
Pekin,
Station,
Powerton
LLC,
Generation
Midwest
Results -
Analytical
Groundwater
Table 1.

Parameter Lab Method D.L. Antimosy 6020 NP Arrenis 6020 NP Barum 6020 NP Beryllam 6020 NP Borum 6020 NP Cadroinm 6020 NP Chloride 9251 NP Crobat 6020 NP Crobat 6020 NP Crobat 6020 NP Cropper 6020 NP	Result ND 0.011										-						
77 (4020) NP (40	UN 110:0	D.L.	Result	D:L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Kesuk	D.L.	Result
77 6020 NP	0.011	NP	ON	0.003	QN	0.003	ND	0.003	ON.	0.003	ON.	0.003	QN	0.003	ND	0.0050	QN
mn 60200 NP 60200 NP 60200 NP 60200 NP 60200 NP 60200 NP 60201 NP 60201 NP 60201 NP 60201 NP 60201 NP		NP	0.0069	0.001	0.0063	0.001	0.0057	0.001	0.0048	0.001	9900'0	1001	0.023	0.001	0.027	0.0050	150.0
mn 66200 NP	0.11	ďŽ	0.052	0.001	0.073	0.001	0.059	0.001	0.046	0.001	0.083	0.001	0.21	0.001	0.14	0.0020	0.3
m 6620 NP 6920 NP 6620 NP	ND	å	QN	0.001	QN	100'0	ND	0.001	ON	0.001	ND	0.001	ND	0.001	ND	0.0010	ND
m 6020 NP 6020 NP 6020 NP 6020 NP 6020 NP 6020 NP	3.9	å	3.1	0.01	2.6	0,012	ı	0.01	2.7	10.0	e.	0.01	4.1	10.0	4	1.0	3.6
tum 6020 NP 6020 NP 6020 NP 6020 NP 6020 NP 6020 NP	GZ.	ž	GN	0.001	GN	100.0	CIN	100.0	CN	100.0	ON	0.001	QN	0.001	QN	0.0010	<u>N</u>
6020 NP 6020 NP 6020 NP 6020 NP 6020 NP	160	å	120	25	100	25	99	25	011	25	110	100	180	50	170	50	210
6020 NP 6020 NP 6020 NP 6020	0.0062	NP	0.0042	0.004	0.0045	0.004	GN.	0.004	GN	0.004	10.0	0.004	0.0055	0.004	0.0055	0.0030	0.011
6020 NP	0.0031	ΝP	0.0026	0.002	0.0023	41.0012	0.0022	0.002	0.0031	0.002	ND	0.002	ND	0.002	ND	0.0030	ND
7 00	0.0068	ž	0.0037	0.003	0.0041	0.003	0.004	0.003	0.004	0.003	0.0055	0.003	0.0066	0.003	0.0068	0.010	Q
	Q	ž	ON	0.0058	QN	0.0050	ND	0.0050	ND	0.00050	ON	0.0050	ON	0.0050	αN	0.0050	QN
Fluoride SM 4500 F C NP	0.28	ΨN	0.29	0.25	0.31	0.25	0.44	0.25	0.38	0.25	0.30	0.25	ND	0.25	0.32	0.25	ND
Iron . 6020 NP	69.0	ď	0.052	0.010	7,000	0.010	ND	0.010	0.043	0.010	ND	0.010	0.11	0.010	0.20	0.010	0.066
Lead 6020 NP	GZ.	NP	GN.	100.0	GN.	0.001	Q	0.001	CN	0.001	GN.	0.001	S.	0.001	ON	0.0050	û
Manganese 6020 NP	s	ďŽ	3.6	0.001	1.7	0.001	2.9	0.001	2.6	0.001	3.6	0.001	3.5	0.001	3.5	0.0020	3.7
Mercury 1470A NP	CIN	å	NTD	0.0002	ű.	0.0002	CIN	0.0002	GN	0.0002	CN	0.0002	CIN	0.0002	QN	0.00020	ŝ
Nickel 6020 NP	0.03	N.P	0.023	0.005	0.021	0.005	0.018	0.005	0.016	0.005	0.015	0.005	0.022	0.005	0.02	0.010	Q
Nimgen/Nimte Nimgen Calc NP	0,14	ž	1.3	0.02	20	0.20	2.2	0.50	3.6	0.02	1.6	0.02	0.07	0.02	90'9	0.02	S
pH Obtained in field NA	7.68	NA	7.53	NA	7.26	NA	6.75	N,	7.13	٧٧	1.31	NA	7.19	VN.	8,49	V.	7.92
Selenium 6020 NP	0.0046	N.	0.0046	0.001	0.0045	0.001	0.0029	0.001	0.0056	0.001	B.004	0.001	0.0036	0.001	0.0037	0.0058	Q
Silver 6020 NP	QN	₹.	UD	0.005	ND	0.003	ND	0.005	QN	0.005	ND	0.00\$	ND	0.005	QN	0.010	ON.
Sulfare 9038 NP	1400	N.	077	250	580	100	540	100	440	250	099	250	1100	200	1100	200	00
Thallium 6020 NP	GN	ž	CIN	0.001	ND	0.001	ND	0.001	QN	0.001	CIN	0.001	QN	0.001	CIN	0.0010	GN
Total Dissolved Suids SM 2540C NP	2600	NP	1600	11	1400	13	1300	1.1	1100	11	1500	17	2100	17	2300	26	1900
Zinc 6020 NP	CIN	NP	ON	900.0	QN	900.0	QN	900.0	ND	900.0	90:0	0.006	CIN	900.0	ON	0.020	G

Notes: Groundwater sample analyzed at PDC Laboratories.
Well faceres depth is from 30 to 40 feet below ground surface.
Sample collected using low-flow feet helpide.
All values are in mg/L (ppm).

DL - Detection limit ND - Non-detect NA - Not Applicable NP - Not Provided by tab

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D1L Result D1D D1001	Sample: MW-14 Date		12/15/2010	2/15/	2/15/2011	4/25/2011	2011	6/16/2011	2011	8/9/2011	011	10/13,	10/13/2011	12/12	2/12/2011	4/10/2012	2012	12/14/2012	2012
yet NP NP ND One ND One ND One One ND One	Lab Method	D:17	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Resub
Head of the color Head	6020	ď	GN	ďN	ND	0.003	QN	0.003	ND	0.003	ND	0.003	QN	0.003	ON	0.003	QN	0.0050	QN
Main Part Main	6020	Z	0.024	ďN	610.0	100.0	0.0084	0.001	0.005	0.001	0.0062	0.001	0.015	0.001	0.0033	0.001	0.0039	0.0050	0.0053
Mathematical Part Math	6020	ż	0.034	ďΝ	0.034	0.001	0.036	0.001	0.04	0.001	0.041	0.001	0.04	0.001	0.045	0.001	0.045	0.0020	0.038
m 6020 NP 2 NP 19 0.01 L9 0.01 L9 0.01 19 6.01 19 6.01 NP 19 0.001 ND 19 10 0.001 ND 19 0.004 0.001 ND 19 0.004 0.001 ND 10 0.001 ND 0.001 <td>9020</td> <td>N</td> <td>QN</td> <td>NP</td> <td>ND</td> <td>0.001</td> <td>QN</td> <td>0.001</td> <td>ND</td> <td>0.001</td> <td>ND</td> <td>0.001</td> <td>ON</td> <td>0.001</td> <td>ND</td> <td>0.001</td> <td>ND</td> <td>0.0010</td> <td>QN</td>	9020	N	QN	NP	ND	0.001	QN	0.001	ND	0.001	ND	0.001	ON	0.001	ND	0.001	ND	0.0010	QN
m 6020 NP ND NP F60 75 160 SD 160 ND 25 160 SD 160	9020	N	2	NP	6.1	0.01	6.1	0.01	1.9	0.01	8.1	0.01	1,9	10.0	1,9	0.01	8.1	2.0	ND
100 100	6020	ž	S	ď	GN.	100.0	GN	100.0	N.	0.001	CIN	0.001	Q.	0.001	CN	0.001	CIN	0.0010	GN
Main	9251	ď	160	ž	160	25	091	50	160	25	240	100	200	100	200	50	061	50	190
6020 NP 0.0037 NP 0.0035 0.003 0.0074 0.003 0.0071 0.003 0.0074 0.003 0.0074 0.003 0.0071 0.003 0.0074 0.003 0.0074 0.003 0.0074 0.003 0.0074 0.003 0.0074 0.003 0.0074 0.003 0.0074 0.003 0.0074 0.003 0.0074 0.003 0.0074 0.003 0.0074 0.003 0.0074 0.003 0.0074 0.003	6020	Ž	£	ďΝ	0.0046	0.004	0.0078	0.004	0.0049	0.004	0.0076	0.004	0.0096	0.004	0.0065	0.004	0.0057	0.0030	0.018
6020 NP 0.0037 NP 0.0035 0.0074 0.0039 0.0071 0.0030	6020	Z.	QN.	a.	ND	0.002	QN	0.002	QN	0.002	ND	0.002	QN	0.002	QN	0.002	QN	0.0030	ON
SM 4500 F C NP	9020	ž	0.0037	ş.	0.0035	0.003	0.0074	0.003	0.0071	0.003	1900.0	0.003	0.0055	0.003	0.025	0.003	0.0067	0.010	QN
See Section 1.1 NP 1.7 NP 1.6 0.25 11.1 0.25 11.3 0.25 Section NP 2.2 NP 0.94 0.010 0.36 0.010 0.30 0.010 Section NP 0.68 NP 0.81 0.001 0.29 0.001 0.30 0.001 Section NP 0.015 NP 0.081 0.0001 ND 0.0001 ND 0.0001 Section NP 0.015 NP 0.015 0.0002 ND 0.0002 ND 0.0002 Section NP 0.015 NP 0.015 0.0002 ND 0.0002 ND 0.0002 Section NP 0.015 NP 0.015 0.0002 0.0003 0.016 0.0003 Section NP 0.0004 NP 0.0004 NP 0.0004 0.0003 ND 0.0003 ND 0.0004 Section NP 0.0004 NP 0.0005 ND 0.0003 ND 0.0003 ND 0.0004 0.0001 Section NP 0.0019 NP 0.0018 NP 0.0018 0.001 0.0003 ND 0.0004 0.0001 Section NP 0.0019 NP 0.0018 NP 0.0018 0.001 0.0003 ND 0.0004 0.001 0.0004 Section NP 0.0019 NP 0.0018 0.001 0.0003 0.001 0.0003 0.001 0.0003 Section NP 0.0019 NP 0.0018 0.001 0.0003 0.001 0.0003 0.001 0.0003 Section NP 0.0019 NP 0.0018 0.001 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.	9014	a N	ON	-Z	ND	0.0000	QN	0.0050	ON	0.0050	ND	0.0050	GN	0.0050	ND	0.0050	ND	0.0050	QN
Marcele Marc	SM 4500 F C	Ž	1.7	dN.	1.6	0.25	7	0.25	1,3	0.25	*	0.25	68.88	0.25	1.1	0.25	0.1	0.25	1.2
Market M	9709	MP	2.2	N.	0.94	0.010	0.36	0.010	0.30	0.010	0.71	0.010	2.0	0.010	0.12	0.010	0.77	0,010	0.012
Colorate NP O.68 NP O.81 O.001 O.29 O.001 O.36 O.001	9050	ž	S	ΝP	S	100'0	ÛN.	100.0	CIN	0.001	ON	0.001	Q	0.001	QN	0.001	0.0035	0.0030	QN
At 10 A	9209	Ž	99.0	Ŋ	0.81	0.001	0.29	100.0	0,36	0.001	0.57	0.001	0.84	0.061	0.067	0.001	0.63	0.0020	0.11
Mitrogen Calc NP 0.015 NP 0.015 0.005 0.02 0.005 0.016 0.005 0.005 0.016 0.016 0.005 0.016 0.0	7470A	N.	CIN	NP	ON	0.0002	UN	0.0002	Ę.	0.0002	ND	0.0002	UD	0.0002	CN	0.0002	ND	0.00020	CIN
Nitrogeo Cak NP 0.036 NP ND 0.02 1.0 0.02 0.27 0.02	6020	ž	0.015	ΝP	0.015	0.005	0.02	0.005	0.016	0.005	0.016	0.005	0.011	0.005	\$10.0	0.005	0.018	010.0	ND
6020 NP ND NP ND ND ND ND 00015 ND 0001		ďΝ	0.036	ď	ND	0.02	1.0	0.02	0.27	0.02	0.05	0.02	QN	0.02	0.33	0.03	0.31	0.02	0.32
6020 NP 6.0024 NP 6.0015 0.001 6.665 0.001 0.0035 0.001 0.003 0.003 0.001 0.003 0.00	Obtained in fiel		7.55	NA	7.75	NA	7.27	٧٧	7,15	NA	7.08	NA	7.40	NA	6.05	VV	8,35	NA	7.13
6020 NP ND NP ND 0.005 ND 0.005 ND 0.005 ND 0.005	6020	Ν	0.0024	×	0.0015	0.001	0.065	100.0	0.0035	0.001	0.003	100.0	0.0017	0.001	0.0037	0000	0.622	0.0050	0.0055
6020 NP 6.0019 NP 6.0018 0.001 0.0035 0.001 0.0039 0.001 0.0035 0.001 0.0039 0.001	0209	Ŋ	QN	N.	ND	0.005	QN	0.005	QN	0.005	ND	0.005	QN	0.005	QN	0.005	ND	0.010	QN
6020 NP 0.0019 NP 0.0018 0.001 0.0035 0.001 0.0039 0.001	9038	å.	0%	'n	B20	250	770	250	810	250	940	100	850	100	880	250	066	906	810
CAA SE GATA AND 1970	9050	N _D	0.0019	-N	0.0018	0.001	0.0035	0.001	0.0039	0:001	0.0027	0.001	0.0016	0.001	9100.0	0.001	0.0034	0.000.0	0.0025
N. I LOW I LOW I LOW	Sulids SM 2540C	ΝP	1800	ΝĽ	1700	11	1800	11	1900	11	2000	17	1800	11	1800	1.1	2200	26	1700
Zinc 6020 NP NP NP NP 0.006 NP 0.006 NP 0.006 NP 0.006 NP 0.006 N	6020	M	GN	고	S	900'0	UN	900'0	GN.	900'0	GN	9000	CN	9000	CIN	900'0	0.0084	0.020	CIN

Notes: Groundwater sample analyzed at PDC Laboratories.
Well screen depth is from 20 to 30 feet below ground surface.
Sample collected using low-flow technique.
All values are in mg/L (ppm).

DL - Detection famit ND - Non-detect NA - Not Applicable NP - Not Provided by lab

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Sample: MW-15	Date	12/15	12/15/2010	2/15/	15/2011	4/25/2011	2011	6/16/2011	2011	8/9/2011	011	10/13	10/13/2011	12/12/2011	2011	4/10/2012	2012	12/14	2/14/2012
Parameter	Lab Method	D.L.	Result	D.L.	Result	D:L	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.1.	Result	D.1	Result	D.L.	Result
Antimony	6020	٩N	QN	ΝP	GN	600.0	QN	0.003	QN	0.003	QN	0.003	ON	0.003	ND	0.003	ND	0.0050	ND
Arsenie	0209	a. Z	0.0099	NP	0.0092	0.001	0.0064	0.001	0.0052	0.001	0.0053	0.001	0.011	0.001	0.0097	0.001	1900.0	0.00150	0.011
Barium	6020	ž	0.058	d'N	0.052	0.001	0.061	0.001	0.11	0.001	0.057	0.001	90:0	0.001	0.063	0.001	0.075	0.0020	0.11
Beryllium	6020	N.	QN	Z.	ND	100:0	ND	0.001	ND	0.001	ND	0.001	QN	0.001	ND	0.001	ND	0.0010	QN
Baron	6020	NP	1.6	ďN	7:	0.01	1.5	0.01	1.6	0.01	1.3	0.02	1.2	10.0	1.2	0.01	1.4	2.0	QN
Calminn	6020	ż	ŝ	ďN	CIN	0.001	CIN	0.001	CIN	0.001	CIN	0.001	CN	0.001	GN	0.001	CN	0.0010	QN
Chloride	9251	ž.	180	NP.	951	25	951	5:0	021	25	210	100	180	100	200	\$0	200	50	220
Chromium	6020	ď	0.0042	ž	1900'0	0.004	0.0092	0.004	0.0054	0.004	0.0091	0.004	0.0062	0.004	0.0062	0.004	0.0071	0.0030	0.012
Cubah	6024	Ż	QN	N.	QN	0.002	ND	0.002	ND	0.002	QN	0.002	ND	0.002	ND	0.002	QN	0.0030	QN
Capper	6020	Ž	QN	ž	QN	0.0083	0.0039	6.003	0.005	0.003	0.0041	0,003	0.0037	0.003	0.0031	0.003	0.0039	0.010	QN
Cyanide	9014	¥	QN	ž	UD	0.0050	UN	0.0038	ON	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	a
Fluoride	SM 4500 F C	ž	0.69	ž	0.75	0.25	0.60	0.25	0.73	0.25	0.76	0.25	0.77	0.25	0.75	0.25	0.79	0.25	0.95
Iron	6020	4N	13	ď	2.4	0.010	2.1	010.0	0.70	0.010	2.1	0.010	2.6	0.010	2.1	0.010	170	0.010	1.9
Lead	6020	å	(IN	ž	ON	0.001	0.0012	0.001	GN.	0.001	QN	0.001	ND	0.001	GN	0.001	S.	0.0050	ŝ
Мандалсяс	6020	ąz.	0.56	NP	0.42	0.001	0.36	100.0	9'0	0.001	0.37	0.001	0.48	0.001	0.39	0.001	0.25	0.0020	0.51
Mercury	7470A	42	CIN	NP	ND	0.0002	QN	0.0002	ND	0.0002	GN	0.0002	CIN	0.0002	QN	0.0002	GN	0.00020	GN
Nickel	6020	NP	0.013	NP	0.011	0.005	0.012	0.005	0.015	0.005	10.0	0.005	0.011	0.005	0.011	0.005	0.01	0.010	Ñ
Nitragen/Nitrate	Nitrugen Calc	Ā	0.03	NP	0.086	0.02	0.04	0.02	0.07	0.02	0.05	0.02	QN	0.02	0,07	0.02	0.12	0.02	0.12
pii	Obtamed in field	NA	7,43	NA	7.23	NA	7.06	NA	6.79	<z< td=""><td>6.89</td><td>V.V</td><td>7.37</td><td>VV</td><td>6.84</td><td>NA</td><td>8.23</td><td>NA NA</td><td>7.30</td></z<>	6.89	V.V	7.37	VV	6.84	NA	8.23	NA NA	7.30
Schnum	6020	-N	0.0042	Z	0.0079	0.001	210:0	0.001	0.004	0.001	0.002	0.001	0.004	100'0	0.0047	0.001	0.025	0.0050	<u>S</u>
Silver	6020	Ž	ND	å.	QN	0.005	ND	0.003	ND	0.005	ND	0.005	ND	0.005	ON	0.005	ND	0.010	CDV
Sulfare	9038	dN.	300	N	220	100	270	100	059	50	250	100	180	001	140	20	200	20	320
Thalliam	6020	ΨN	GN	NP	ÛN	0.001	QN	0.001	CIN	0.001	QN	0.001	CN	0.001	QN	0.001	CN	0.0010	ŝ
Total Dissolved Solids	SM 2540C	ΝP	1000	ΝÞ	1000	1.1	1100	17	1600	1.1	1000	1.1	8.50	17	640	E	1000	26	1100
Zinc	6020	ž	ND	ďN	QN	900.0	CN	900.0	C N	900 0	CIN	0.006	ÛN	0.006	GN	0.006	G	0.020	S

Notes: Groundwater sample analyzed at PTAC Laboratories.
Well sersen depth is from 20 to 30 feet below ground surface.
Sample collected using low-flow (echnique.
All values are in mg/L (frpm)

DL - Detection limit ND - Non-detect NA - Not Applicable NP - Not Provided by lab

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Table 1. Groundwater Analytical Results - Midwest Generation LLC, Powerton Station, Pekin, IL

Date 12/12/2012	od D.L. Resuk	0.0050 ND	0.0050 ND	0.020 0.039	0.0010 ND	0.20 ND	0.0010 ND	10 26	0.0030 0.0047	0.0030 ND	0.010 ND	0.0050 ND	FC 0.25 ND	0.010 0.012	0.0050 ND	0.0020 0.022	0.00020 ND	0.010 MD	alc 0.50 18	field NA 7.38	0.0050 ND	0.010 ND	10 37	0.0010 ND	240
	Parameter Lab Method	Antimony 68230	Агметис 6020	Barum 6020	Berytlium 6020	Borun 6020	Cadmium 6020	Chloride 9251	Сћготалт 6020	Cobali 6020	Copper 6020	Cyanide 9014	Phoride SM 4500 F C	Iron 6020	Lead 6020	Manganese 6020	Mercury 7470A	Nickel 6020	Nimgen/Ningen Calc	pH Obtained in field	Selenium 6020	Silver 6020	Sulfac 9018	Thallium 6020	Total Dissolved Solids SM 2540C

Notes: Groundwater sample analyzed at PDC Laboratories.
Well secret depth is from 20 to 30 feet below ground surface.
Sample collected using low-flaw technique.
All wahez are in mg/L (rppm).

DL. - Detection limit ND - Non-detect NA - Not Applicable NP - Not Provided by tab

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Pekin, IL
rerion Station,
ration LLC, Poy
west Gene
1 Results - Mid
r Analytical
Groundwate
Table 2.

12/12-14/2012	Sample	MW-0	-10-	MW-02	-02	MW-03	-03	MW-04	-04	MW-05	-05	MW-06	90-	MW-07	-07	MW-08	-08
Parameter	Lab Method	D.L.	Result														
Вепхере	EPA 624	0.005	GN	0.005	ΩN	0.005	QN	0.005	QN	0.005	QN	0.005	ND	0.005	QN	0.005	QN
Ethylbenzene	EPA 624	0.00\$	Q.	0.005	ě	0.005	GN	0.005	QN	0.005	QN	0.00\$	ND	0.003	QN	0.005	ND
Toluene	EPA 624	0.005	QN	0.005	Q.	0.005	Ş	0.005	Q.	0.005	UN	0.005	QN	0.005	ND	0.005	QX
m,p-Xylene	EPA 624	0.005	QN	0.005	Q.	0.005	Ð	0.005	ND	0.005	ND	0.005	ND	0.005	QN	0.005	Q.
o-Xylene	EPA 624	0.005	QN	0.005	QN	0.005	QN	0.005	QN.	0.003	ND	0.005	QN.	0.005	ND	0.005	QN
Xylenes- Total	EPA 624	0.015	GN	0.015	Ñ	0.015	QN	0.015	S	0.015	QN	0.015	ND	0.015	QN	0.015	Q
Perchlorate	EPA 314.0	0.004	£	0.004	Q.	0.004	QX.	0.004	ð	0.004	ND	0.004	S	0.004	Q.	0.004	Š
Vanadium	6020	0.0080	ND	0.0080	QN	0.0080	ND	0.0080	Q	0.0080	ND	0.0080	ND	0.0080	0.012	0.0080	₽ Q

12/12-14/2012	Sample	MW-09	60-/	MW-10	-10	MW-11	-11	MW-12	-12	MW-13	-13	MW-14	-14	MW-15	-15	MW-16	-16
Parameter	Lab Method	D.L.	Result	DL	Result	DIL	Result	DIL	Result	D.L.	Result	D.L.	Result	D.L.	Result	D.L.	Result
Benzette	EPA 624	0.005	ON	0.005	Đ.	0.005	Q.	0.005	Q.	0.005	MD	0.005	QN	0.005	ND	0.005	ND
Ethylbenzene	EPA 624	0.005	Ð.	0.005	£	0.005	Q	0.005	GN	0.005	QN	0.005	ND	0.005	ND	0.005	QN
Toluene	EPA 624	0.00\$	æ	0.005	£	0.005	Q	0.005	£	0.005	ND ND	0.005	QN	0.005	ND	0.005	Q.
m,p-Xylene	EPA 624	0.005	Q.	0.005	ND	0.005	Q.	0.005	Q.	0.005	ND	0.005	ND	0.005	ND	0.005	Q
o-Xylene	EPA 624	0.005	SN SN	0.005	QX	0.005	Q.	0.005	QX	0.005	ND	0.005	ND	0.005	ND	0.005	QN
Xylenes- Total	EPA 624	0.015	S	0.015	QX	0.015	Q	0.015	QN	0.015	ND	0.015	QN	0.015	ND	0.015	QN.
Perchlorate	EPA 314.0	0.004	Ñ	0.004	QN	0.004	£	0.004	QN	0.004	ND	0.004	Q.	0.004	ND	0.00H	QZ
Vanadium	6020	0.0080	Ð	0.0000	QN	0.0080	QN	0.0080	ND	0.0080	ND	0.0080	0.010	0.00%0	ND	0.0080	ND

Notes: Groundwater sample analyzed at TestAmerica laboratory.

Sample collected using low-flow technique.

Please see Table 1 for sample depths.

All values are in mg/L (ppm).

DL - Detection limit ND - Non-detect

ATTACHMENT 2C Compliance Commitment Agreement





1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-3397
PAT QUINN, GOVERNOR JOHN J. KIM, INTERIM DIRECTOR

217-785-0561

October 4, 2012

CERTIFIED MAIL # 7010 2780 0002 1163 4895 RETURN RECEIPT REQUESTED

John Kennedy Senior Vice President, Generation 235 Remington, Suite A Bolingbrook, IL 60440

Re:

Proposed Compliance Commitment Agreement

Violation Notice: W-2012-00057

Midwest Generation, LLC, Powerton Generating Station; ID Number: 6282

Dear Mr. Kennedy:

The Illinois Environmental Protection Agency ("Illinois EPA") has reviewed the proposed Compliance Commitment Agreement ("CCA") terms submitted by Midwest Generation, LLC, Powerton Generating Station in a letter dated September 4, 2012, in response to the Violation Notice dated June 11, 2012. Pursuant to the authority vested in the Illinois EPA under Section 31(a)(7)(i) of the Illinois Environmental Protection Act ("Act"), 415 ILCS 5/31(a)(7)(i), attached to this letter is a proposed CCA, which contains terms and conditions that the Illinois EPA has determined are necessary in order for you to attain compliance with the Act and Illinois Pollution Control Board Regulations.

Pursuant to Section 31(a)(7.5) of the Act, 415, ILCS 5/31(a)(7.5), within 30 days of your receipt of this proposed CCA, Midwest Generation, LLC, Powerton Generating Station or its duly authorized representative must either (1) agree to and sign the proposed CCA, and submit the signed and dated CCA by certified mail to Illinois EPA Bureau of Water, Andrea Rhodes, MC #19, 1021 North Grand Ave East, Springfield, IL 62702; or (2) notify the Illinois EPA by certified mail that you reject the proposed CCA.

The proposed CCA shall only become effective upon your timely submittal of the signed CCA as discussed above, and upon final execution by the Illinois EPA. Failure by you to execute and submit the proposed CCA within 30 days of receipt shall be deemed a rejection of the CCA by operation of law. Upon timely receipt of the signed CCA, the Illinois EPA will send you a fully executed copy of the CCA for your records.

In addition, the proposed CCA is not subject to amendment or modification prior to execution by you and the Illinois EPA. Any amendment or modification to the proposed CCA by Respondent prior to execution by you and the Illinois EPA shall be deemed a rejection of the proposed CCA by operation of law. The proposed CCA may only be amended subsequent to its effective date, in writing, and by mutual agreement between the Illinois EPA and you.

DOT 0 9 2012

4302 N. Moin St., Rockford, IL 61 103 (815)987-7760. 595 S. State, Elgin, IL 60123 (847)608-3131 2125 S. First St., Champaign, IL 61820 (217)278-5800 2009 Mall St., Calânsville, IL 62234 (618)346-5120 9511 Horrison St., Des Plaises, IL 40016 [847]294-4000 5407 N. Usiversity St., Arbot 1.13, Peerfa, IL 61614 (309)693-5462 2309 W. Main St., Suite 116, Marion, IL 62959 (618)993-7200 100 W. Randolph, Seite 10-300, Chicago, IL 60601 (312)814-6026

PLEASE PRINT ON RECYCLED FAVER

Questions regarding this matter should be directed to Illinois EPA, Bureau of Water, Andrea Rhodes at 217/785-0561. Written communications should be directed to Illinois EPA – DPWS, Attn: Andrea Rhodes, MC #19, 1021 North Grand Ave East, Springfield, IL 62702.

Sincerely,

Michael Crumly

Manager, Compliance Assurance Section

Division of Public Water Supplies

Bureau of Water

Attachments

cc: Basil G. Constantelos Maria Race Susan M. Franzetti

BOW ID: W1798010008 CASE ID: 2012-006

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

IN THE MATTER OF:	}
MIDWEST GENERATION, LLC, POWERTON GENERATING STATION PEKIN, TAZEWELL COUNTY, IL ID NUMBER: 6282)))
) ILLINOIS EPA VN W-2012-00057) BUREAU OF WATER)

COMPLIANCE COMMITMENT AGREEMENT

I. Jurisdiction

1. This Compliance Commitment Agreement ("CCA") is entered into voluntarily by the Illinois Environmental Protection Agency ("Illinois EPA") and Midwest Generation, LLC, Powerton Generating Station ("Respondent") (collectively, the "Parties") under the authority vested in the Illinois EPA pursuant to Section 31(a)(7)(i) of the Illinois Environmental Protection Act ("Act"), 415 ILCS 5/31(a)(7)(i).

II. Allegation of Violations

- Respondent owns and operates Powerton Generating Station in Pekin, Tazewell County, Illinois ("Powerton").
- 3. Pursuant to Violation Notice ("VN") W-2012-00057 issued on June 11, 2012, the Illinois EPA contends that Respondent has violated the following provisions of the Act and Illinois Pollution Control Board ("Board") Regulations:
 - a) Operations at ash impoundments have resulted in violations of the Groundwater Quality Standards at monitoring wells MW-1, MW-2, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, and MW-15. Section 12 of the Act, 415 ILCS 5/12, 35 Ill. Adm. Code 620.115, 620.301, 620.401, 620.405, and 620.410.

III. Compliance Activities

- 4. On September 4, 2012, the Illinois EPA received Respondent's response to VN W-2012-00057, which included proposed terms for a CCA. The Illinois EPA has reviewed Respondent's proposed CCA terms, as well as considered whether any additional terms and conditions are necessary to attain compliance with the alleged violations cited in the VN.
- 5. Respondent agrees to undertake and complete the following actions, which the Illinois EPA has determined are necessary to attain compliance with the allegations contained in VN W-2012-00057:
 - a) The ash ponds at Powerton shall not be used as permanent disposal sites and shall continue to function as treatment ponds to precipitate ash. Ash shall continue to be removed from the ponds on a periodic basis.
 - b) The ash treatment ponds shall be maintained and operated in a manner which protects the integrity of the existing liners. During the removal of ash from the ponds, appropriate procedures shall be followed to protect the integrity of the existing liners, including operating the ash removal equipment in a manner which minimizes the risk of any damage to the liner.
 - c) During the ash removal process, visual inspections of the ponds shall be conducted to identify any signs of a breach in the integrity of the pond liners. In the event that a breach of the pond liners is detected, Midwest Generation shall promptly notify the Illinois EPA and shall implement a corrective action plan for repair or replacement as necessary, of the liner. Upon the Illinois EPA's approval, and the issuance of any necessary construction permit, Midwest Generation will implement the corrective action plan.
 - Midwest Generation shall monitor the new well as described in 5(f) below and the existing fifteen groundwater monitoring wells quarterly for constituents in 35 Ill. Adm. Code 620.410(a) and (d), with the exception of radium 226 and 228, and report its findings to the Illinois EPA within 30 days of the end of each quarter. In addition, Midwest Generation shall record and report groundwater elevation and submit a potentiometric surface map with the above quarterly groundwater monitoring report.
 - e) Within 90 days of the effective date of the CCA, Midwest Generation shall submit an application for a construction permit to re-line the Ash Surge Basin and the Secondary Ash Settling Basin at Powerton with a 60 mil thickness high density polyethylene ("HDPE") liner or an Illinois EPA approved equivalent material.
 - f) Midwest Generation shall install an additional groundwater monitoring well south of monitor well 9, in a location approved by the Illinois EPA, to better define up gradient groundwater quality, within 60 days of the effective date of the CCA.

- g) Midwest Generation shall submit an application to establish a GMZ pursuant to 35 Ill. Adm. Code Part 620.250 within 90 days of the effective date of the CCA.
- h) Midwest Generation shall enter into an Environmental Land Use Control (ELUC) to cover the area of the Powerton Station property which is contained within the GMZ. Midwest Generation shall submit a proposed draft ELUC to the Illinois EPA for review and comment within 90 days of the effective date of the CCA.
- i) Midwest Generation shall record the ELUC within 30 days of approval of the ELUC by the Illinois EPA.
- j) Midwest Generation shall establish a GMZ pursuant to 35 Ill. Adm. Code Part 620.250 within one year of the effective date of the CCA.
- k) Once the Ash Surge Basin and the Secondary Ash Settling Basin have been lined and a GMZ and ELUC have been established at Powerton, Midwest Generation shall submit a certification (or a statement) of compliance. Midwest Generation may submit either the attached "Illinois EPA Compliance Statement" or another similar writing to satisfy the statement of compliance within one year of the effective date of the CCA.
- 1) Midwest Generation shall not allow the East Yard Run-off Basin to be part of the ash sluicing flow system. Further, Midwest Generation shall submit monitoring results from water contained in the East Yard Run-off Basin proximate to outfall monitoring point 003 within 60 days of the effective date of the CCA. Quarterly monitoring of the East Yard Run-off Basin shall be for the constituents listed in 35 Ill. Adm. Code 620.410(a) and (d) with the exception of radium 226 and radium 228. At the end of four (4) quarters of monitoring, Midwest Generation may request cessation of water monitoring from the East Yard Run-off Basin.
- m) Midwest Generation shall not use any unlined areas for permanent or temporary ash storage or ash handling.

IV. Terms and Conditions

6. Respondent shall comply with all provisions of this CCA, including, but not limited to, any appendices to this CCA and all documents incorporated by reference into this CCA. Pursuant to Section 31(a)(10) of the Act, 415 ILCS 5/31(a)(10), if Respondent complies with the terms of this CCA, the Illinois EPA shall not refer the alleged violations that are the subject of this CCA, as described in Section II above, to the Office of the Illinois Attorney General or the State's Attorney of the county in which the alleged violations occurred. Successful completion of this CCA or an amended CCA shall be a factor to be weighed, in favor of the Respondent, by the Office of the Illinois Attorney General in determining whether to file a complaint on its own motion for the violations cited in VN W-2012-00057.

- 7. This CCA is solely intended to address the violations alleged in Illinois EPA VN W-2012-00057. The Illinois EPA reserves and this CCA is without prejudice to, all rights of the Illinois EPA against Respondent with respect to noncompliance with any term of this CCA, as well as to all other matters. Nothing in this CCA is intended as a waiver, discharge, release, or covenant not to sue for any claim or cause of action, administrative or judicial, civil or criminal, past or future, in law or in equity, which the Illinois EPA may have against Respondent, or any other person as defined by Section 3.315 of the Act, 415 ILCS 5/3.315. This CCA in no way affects the responsibilities of Respondent to comply with any other federal, state or local laws or regulations, including but not limited to the Act, and the Board Regulations [and Permit, if applicable].
- 8. Pursuant to Section 42(k) of the Act, 415 ILCS 5/42(k), in addition to any other remedy or penalty that may apply, whether civil or criminal, Respondent shall be liable for an additional civil penalty of \$2,000 for violation of any of the terms or conditions of this CCA.
- 9. This CCA shall apply to and be binding upon the Illinois EPA, and on Respondent and Respondent's officers, directors, employees, agents, successors, assigns, heirs, trustees, receivers, and upon all persons, including but not limited to contractors and consultants, acting on behalf of Respondent, as well as upon subsequent purchasers of Respondent's Powerton in Pekin, Tazewell County, Illinois.
- 10. In any action by the Illinois EPA to enforce the terms of this CCA, Respondent consents to and agrees not to contest the authority or jurisdiction of the Illinois EPA to enter into or enforce this CCA, and agrees not to contest the validity of this CCA or its terms and conditions.
- 11. This CCA shall only become effective:
 - a) If, within 30 days of receipt, Respondent executes this CCA and submits it, via certified mail, to Illinois EPA, Bureau of Water, Andrea Rhodes, MC #19, 1021 North Grand Ave East, Springfield, IL 62702. If Respondent fails to execute and submit this CCA within 30 days of receipt, via certified mail, this CCA shall be deemed rejected by operation of law; and
 - b) Upon execution by all Parties.
- 12. Pursuant to Section 31(a)(7.5) of the Act, 415 ILCS 5/31(a)(7.5), this CCA shall not be amended or modified prior to execution by the Parties. Any amendment or modification to this CCA by Respondent prior to execution by all Parties shall be considered a rejection of the CCA by operation of law. This CCA may only be amended subsequent to its effective date, in writing, and by mutual agreement between the Illinois EPA and Respondent's signatory to this CCA, Respondent's legal representative, or Respondent's agent.

AGREED:
FOR THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY:

BY:

Michael Crumly

Manager, Compliance Assurance Section

Division of Public Water Supplies

Bureau of Water

FOR RESPONDENT:

BY:

John Kennedy

Senior Vice President, Generation

Midwest Generation, LLC

Illinois EPA Compliance Statement

The owner of the facility must acknowledge that all compliance commitment agreement (CCA) measures have been successfully completed.

Please complete, sign, and return.	
I	(print name), hereby certify that all violations
addressed in Violation Notice (VN) number	have been addressed and
that all CCA measures were completed on	(date).
Signature	
Title	
Telephone Number	
Date	

Be sure to retain copies of this document for your files. Should you need additional notification forms, please contact this office at (217)785-0561. Return this completed form to:

Illinois Environmental Protection Agency Compliance Assurance Section #19 Bureau of Water 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276

"Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Agency,.....related to or required by this Act, a regulation adopted under this Act, any federal law or regulation for which the Agency has responsibility, or any permit, term, or condition thereof, commits a Class 4 felony..." (415 ILCS 5/44(h) (8))