

Notice: Use of this form is required by the DNR for any application to develop at a historic fill site or licensed landfill pursuant to secs. NR 506.085 and NR 500.08(4), Wis. Adm. Code. The Department will not consider your application unless you provide complete information requested. Personally identifiable information collected will be used to process your application and will also be accessible by request under Wisconsin's Open Records law [ss.19.31 - 19.39, Wis. Stats.]

Instructions: See *Development at Historic Fill Sites and Licensed Landfills: What you need to know* (PUB-RR-683, November 2013) for detailed instructions.

- All Exemption Application materials should be sent to the region where the site is located, as listed on page 6.
- Include \$700 fee payment with this application. If the site is a licensed landfill and the Waste and Materials Management program is doing the review, submit no fee now. You will be sent an invoice upon receipt of this application.
- Determine the appropriate exemption type for the site and check appropriate box below.
- Provide complete information requested for each type of exemption. Include the following attachments:
Required: Summary of Existing and Potential Impacts described in Section V as an attachment, under the seal of a professional engineer or geologist registered to practice in Wisconsin.

Optional: Site Visit Summary Comments (Section IX) including any photos, sketches or site visit notes.

Exemption Type

- Remediation and Redevelopment Program NR 700 Rule Series Process Exemption:** Site with remedial actions conducted in accordance with NR 700 series
Required: Sections I - VI **Optional:** Sections VII - X
- Case-by-Case Evaluation:** Sites with anticipated environmental impacts or wastes of special concerns
Required: Sections I - VI **Optional:** Sections VII - X
- Expedited Exemption:** Site with no expected environmental impact
Required: Sections I - VI and Form 4400-226A Expedited Exemption Application **Optional:** Sections VII - X

I. Applicant Information

Owner - Last Name	First	MI	Phone Number (include area code)	
WEC Energy Group- Business Services			(414) 221-4172	
Contact Name (if different)				
Marita Stollenwerk				
Street Address	City	State	ZIP Code	
333 West Everett Street - A231	Milwaukee	WI	53203	
Developer - Last Name	First	MI	Phone Number (include area code)	
Street Address	City	State	ZIP Code	

II. Site Name and Location

Site Name	Location / Address		
WEPCO Valley Power Plant	1035 W. Canal Street		
Is the site known by another name(s)? <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown	<input checked="" type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village		
If yes, provide name: Valley Power Plant (VAPP)	of Milwaukee		
Does the site have a license number? <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown	State	ZIP Code	County
If yes, License Number:	WI	53203	Milwaukee

A. Attach a map with site location and limits of fill/waste disposal area.

B. Global Positioning System Coordinates	Describe method for collecting GPS Coordinates Online map
Latitude DEG MIN SEC 43 01 50.7216 N Longitude DEG MIN SEC 87 55 25.6260 W	

Program Lead, Fee Status and Regulatory ID Numbers (This area for DNR use only)			
<input type="radio"/> Waste Management Bureau		<input type="checkbox"/> Payment Attached	
<input checked="" type="radio"/> Remediation and Redevelopment Bureau - Exemption is part of remedy under NR 700 program		Amount	
<input type="radio"/> Fee already paid for review of remedial design report.		\$	
<input type="radio"/> Review of remedial design report not requested and payment is attached.			
Hazardous Waste Facility License ID #: (5 digits)	DNR FID #: (9 digits)	USEPA ID #: (used for both RCRA & CERCLIS #s) (WI+Alpha+9 digits)	
Region	Project Manager	Telephone Number	

Development at Historic Fill Site or Licensed Landfill Exemption Application

Form 4400-226 (R 05/16)

Page 2 of 6

III. Site Ownership History

Previous Owner - Last Name	First	MI	Telephone Number	
Street Address	City		State	ZIP Code
Responsible Municipal / Private Operator - Last Name (if applicable)	First	MI	Telephone Number	
Street Address	City		State	ZIP Code

IV. Evaluation of Existing and Potential Impacts. See Development at Historic Fill Sites and Licensed Landfill: Guidance for Investigation and Development at Historic Fill Sites and Licensed Landfill: Potential Problems and Considerations.

- A. Analytical data for the following media have been collected and/or examined before completing this application:
1. Groundwater: Yes No
 2. Soil: Yes No
 3. Surface water / sediment: Yes No
 4. Air: Yes No
 5. Methane or other explosive gases: Yes No
- B. Based on known or suspected sources and wastes, their physical characteristics, containment and geologic environment, do you suspect a release of pollutants to the environment?
- Yes: Groundwater Soil Surface Water / Sediment Methane or Other Explosive Gases
- No
- C. If there is NOT a likelihood of a release of pollutants or evidence of a release, would the impact of the proposed development be likely to cause a release to the environment?
- Yes: **If yes, be sure to summarize actions to be taken to prevent adverse environmental impacts in V. Part C below.**
- No

V. Summary of Existing and Potential Impacts. See Development at Historic Fill Sites and Licensed Landfill: Guidance for Investigation and Development at Historic Fill Sites and Licensed Landfill: Potential Problems and Considerations.

Describe the following in an attached narrative under the signature of a qualified professional. Organize, label and package as listed below.

- A. Existing Site Conditions
1. existing site conditions including waste types,
 2. potential for impacts, and
 3. evaluation of existing impacts.
- B. Proposed Development Summary. Include explanation for overall site decision.
- C. Summary of actions to be taken and engineering controls that will prevent or minimize adverse environmental impacts and potential threats to human health and welfare, including worker safety.

VI. Certification of Application Information

I certify that information in this application and all its attachments is true and correct and in conformity with applicable Wis. statutes.

Print / Type Name of Applicant
Marita Stollenwerk

Applicant Signature  Date Signed 4/16/2024

Development at Historic Fill Site or Licensed Landfill Exemption Application

Form 4400-226 (R 05/16)

Page 3 of 6

Sections VII - IX are optional for all Applicants.

VII. Current and Historic Type of Waste Disposal Site (Check all that apply)

- | | |
|---|--|
| <input type="checkbox"/> Licensed Landfill | <input type="checkbox"/> One-time Disposal |
| <input type="checkbox"/> Non-approved {See s.289.01(3)}, Wis Stats. | <input type="checkbox"/> Construction / Demolition |
| <input type="checkbox"/> Approved | <input checked="" type="checkbox"/> Historic Fill Site |

Liner

- | | |
|--|---------------------------------------|
| <input checked="" type="checkbox"/> Unlined | <input type="checkbox"/> Clay Liner |
| <input type="checkbox"/> Lined | <input type="checkbox"/> Unengineered |
| <input type="checkbox"/> Composite Liner | |
| <input type="checkbox"/> Other Liner (Describe): _____ | |

Total Landfill Volume

- < 50,000 yd³
 50,000-500,000 yd³
 > 500,000 yd³

Does the landfill have a closure plan? Yes No Unknown

Does the landfill have a groundwater monitoring plan? Yes No Unknown

Have groundwater monitoring wells been installed? Yes No Unknown

Was a cover installed? Yes: No **If no, go to Past Land Uses.**

- Composite cap
 Layered soil cap with clay barrier
 Clay cap
 Soil cap - not recompacted clay
 Other cover
 Unknown

What is the thickness of the cover? < 6 in 6-12 in 12-24 in > 24 in Unknown

Past Land Uses. (Check all that apply)

- | | | |
|--|--|--|
| <input type="checkbox"/> Agricultural co-op | <input type="checkbox"/> Electroplater | <input type="checkbox"/> Salvage yard |
| <input type="checkbox"/> Brush pile | <input type="checkbox"/> Lagoon | <input type="checkbox"/> Service Station |
| <input type="checkbox"/> Bulk plant | <input type="checkbox"/> Manufacturing Type: _____ | <input checked="" type="checkbox"/> Tannery |
| <input type="checkbox"/> Coal gas manufacturer | <input type="checkbox"/> Old burn pit | <input type="checkbox"/> Unknown |
| <input type="checkbox"/> Deer pit | <input type="checkbox"/> Pipeline | <input checked="" type="checkbox"/> Other: <u>Boat slip, power plant</u> |
| <input type="checkbox"/> Dry cleaner | <input type="checkbox"/> RCRA generator | |

Date(s) of Site Operation

From: _____ To: _____ No. of Years 130 Unknown

VIII. Waste Information & Geologic Environment. See Development at Historic Fill Sites and Licensed Landfills: Guidance for Investigation

A. Known or Suspected Sources/Wastes. (Check all that apply)

- | | | |
|--|---|---|
| <input type="checkbox"/> Abandoned containers | <input type="checkbox"/> Known or suspected hazardous materials | <input type="checkbox"/> Demolition/construction waste |
| <input type="checkbox"/> Above ground pipeline or tank | <input type="checkbox"/> Municipal waste | <input type="checkbox"/> Surface impoundment/lagoons |
| <input type="checkbox"/> Animal carcasses | <input type="checkbox"/> Paper mill sludge | <input checked="" type="checkbox"/> Underground pipeline or tank |
| <input type="checkbox"/> Buried drums | <input type="checkbox"/> Transformer | <input type="checkbox"/> Exempted fill [NR 500.08(1) and (2)] |
| <input type="checkbox"/> Burning of materials | <input type="checkbox"/> Trees/brush | <input type="checkbox"/> Unknown |
| <input checked="" type="checkbox"/> Foundry sand | <input type="checkbox"/> Surface spills | <input checked="" type="checkbox"/> Other: <u>Historic fill, coal</u> |
| <input type="checkbox"/> Industrial accident | <input type="checkbox"/> Fly ash | |

B. Physical Characteristics of Sources/Wastes

Liquid Solid Liquid & Solid Unknown

VIII. Waste Information & Geologic Environment (continued)

C. Waste Containment Liner Unknown Not applicable

Engineered cover

Maintained Not maintained

Functioning leachate collection & removal system

Functioning & maintained run-off management system

Functioning groundwater monitoring system

D. Soil Type: Estimate distances or determinations based on regional or site specific information.

Regional Site specific

Clay, silt or other fine grained soils present? (lacustrine, tills, etc.) Yes No

At surface? Yes No At depth? Yes No 10 feet

Sand & gravel, coarse grained soils present? Yes No

At surface? Yes No At depth? Yes No 50 feet

E. Depth to Groundwater

Regional Site specific 6 feet

F. Direction of Groundwater Flow

Regional Site specific South/east direction

G. Depth to Bedrock

Regional Site specific 150 direction

H. Bedrock Type

Regional Site specific Sandstone Limestone/Dolomite Metamorphic/Igneous

IX. Site Visit

Conduct a site visit to complete site screening and determine general site conditions, on-site activities and adjacent land use encroachment issues. As appropriate to document the site, take photos, sketch the site and prepare a Site Visit Report.

On-site visit conducted? Yes No

General site conditions: Document any observed releases and note whether or not you were able to walk the site. Examples of things to be aware of include the following:

- leachate seeps or evidence of seeps such as stained soil/vegetation
- stressed vegetation as a sign of gas migration to the surface or of leachate seeps;
- quality and coverage of vegetation on the cap;
- odors which may indicate gas migration to the atmosphere;
- erosion of the cap;
- maintenance of positive drainage over the capped area;
- visual desiccation cracks in the cap.

Attach the following to your application:

Photographs, regular or digital Site sketch Site Visit Report

Name(s) of Person(s) Conducting Site Visit	Date of Site Visit
Nate Duda	12/16/2023

Development at Historic Fill Site or Licensed Landfill Exemption Application

Form 4400-226 (R 05/16)

IX. Site Visit (continued)

A. Adjacent Land Uses. Indicate all directions. (Check all that apply)

<input type="checkbox"/> Agricultural	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input checked="" type="checkbox"/> Industrial	<input checked="" type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input checked="" type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input type="checkbox"/> Recreational	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input type="checkbox"/> Residential	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input checked="" type="checkbox"/> Undeveloped	<input type="checkbox"/> N	<input type="checkbox"/> S	<input checked="" type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input type="checkbox"/> Commercial	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input checked="" type="checkbox"/> Other: Canal	<input type="checkbox"/> N	<input checked="" type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW

B. Potential Groundwater Receptors. Estimate distances. (1 mile = 5,280 ft)

Distance to and direction of nearest municipal well: _____ feet > ½ mile from the waste West direction

Distance to and direction of nearest other-than-municipal well: _____ feet > ½ mile from the waste West direction

Distance to and direction of nearest non-community well: 100 feet > ½ mile from the waste _____ direction

Distance to and direction of nearest private well: _____ feet > ½ mile from the waste West direction

Distance to and direction of nearest private well: _____ feet > ½ mile from the waste West direction

C. Potential For Gas Migration

0 No. of homes within 300 feet of waste (gas migration potential)

0 No. of homes between 300 & 1,000 ft to waste (gas migration potential)

Distance to and direction of nearest building: 75 feet > ½ mile from the waste _____ direction

Type of building: On-site building Municipal Residential Commercial Industrial Unknown

D. Potential Surface Water Receptors. Estimate distances.

Creek _____ feet Drainage ditch: _____ feet Intermittent stream: _____ feet

River 400 feet Lake 7000 feet Wetland: _____ feet

E. Based on the site visit, did you visually observe...

1. a release to a surface water body? Yes No Unknown

2. a leachate seep? Yes No Unknown

3. a release to soils? Yes No Unknown

X. Comments: Use this section to provide comments on any aspect of the site visit. Attach any information or explanations labeled with the appropriate section number to which the material applies.

Relatively flat topography, vacant land. Two covers are associated with a release (BRRTS No. 02-41-001055) in the eastern portion of the property. One area consists of a concrete/building cover and a second area consists of a gravel cover. Concrete driveways, parking areas, and VAPP and associated structures are located in the northern portion of the property. The central and southern portions consist of undeveloped gravel areas. The area proposed to be redeveloped is part of the undeveloped gravel area in the central portion of the property. This area is not part of the cover associated with the release.

The development is a 625,000-gallon aboveground storage tank for wastewater collection.

Region Map

NORTHERN REGION

Remediation & Redevelopment
Team Supervisor
Department of Natural Resources
107 Sutliff Avenue
Rhineland, WI 54501
(715) 365-8976

OR

Regional Waste Program Manager
Department of Natural Resources
107 Sutliff Avenue
Rhineland WI 54501
(715) 365-8946

NORTHEAST REGION

Remediation & Redevelopment
Team Supervisor
Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313-6727
(920) 662-5160

OR

Regional Waste Program Manager
Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313-6727
(920) 662-5120

SOUTHEAST REGION

Remediation & Redevelopment
Team Supervisor
Department of Natural Resources
2300 N. Martin Luther King Drive
Milwaukee, WI 53212
(414) 263-8561 or (414) 263-8714

OR

Regional Waste Program Manager
Department of Natural Resources
2300 N. Martin Luther King Drive
Milwaukee, WI 53212
(414) 263-8694 or (414) 263-8697

WEST CENTRAL REGION

Remediation & Redevelopment
Team Supervisor
Department of Natural Resources
1300 West Clairemont Avenue
Eau Claire, WI 54701
(715) 839-3710

OR

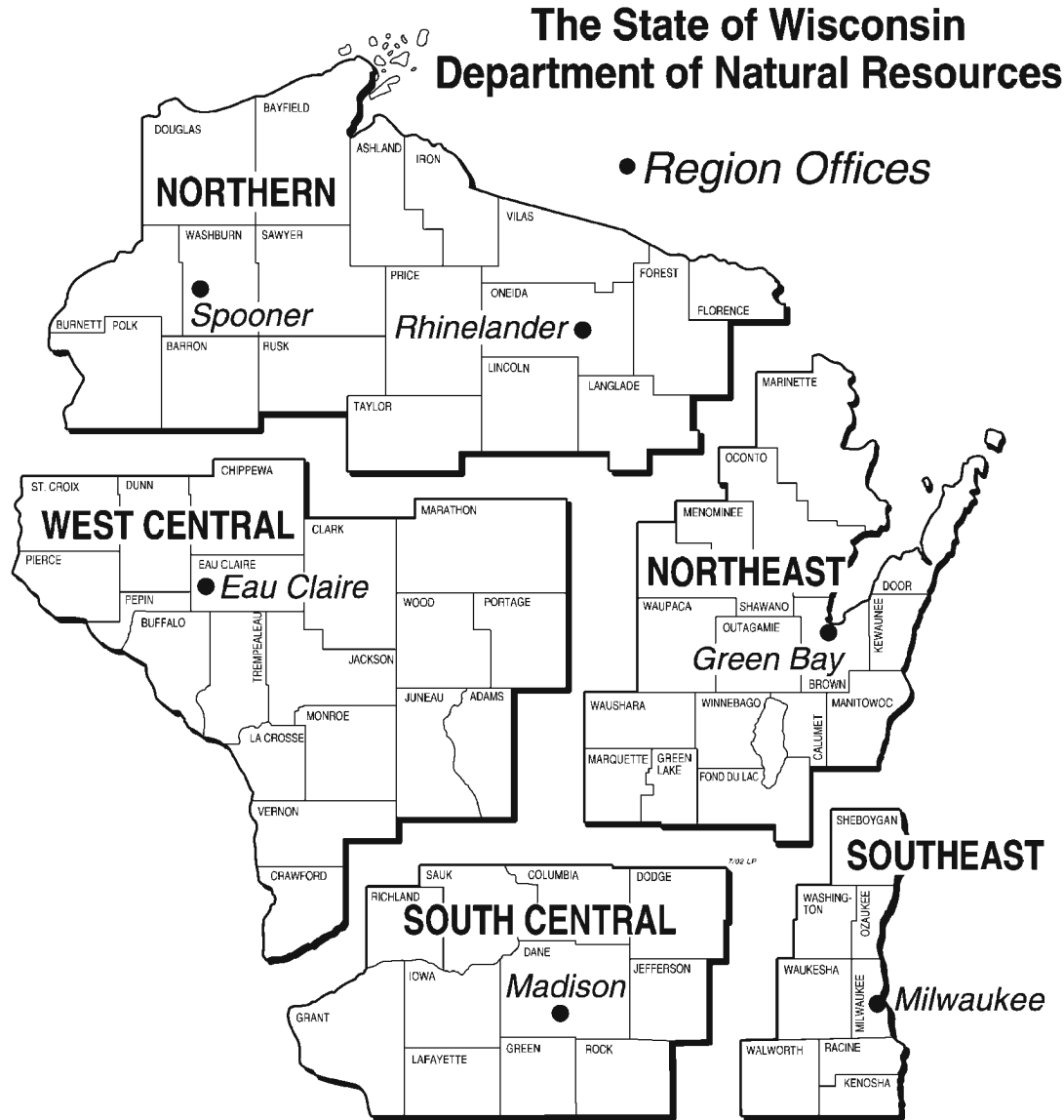
Regional Waste Program Manager
Department of Natural Resources
1300 West Clairemont Avenue
Eau Claire, WI 54701
(715) 839-3708

SOUTH CENTRAL REGION

Remediation & Redevelopment
Team Supervisor
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711
(608) 275-3241

OR

Regional Waste Program Manager
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711
(608) 275-3466



V. SUMMARY OF EXISTING AND POTENTIAL IMPACTS DEVELOPMENT AT HISTORIC FILL SITE OR LICENSED LANDFILL EXEMPTION APPLICATION

**VALLEY POWER PLANT
1035 WEST CANAL STREET
MILWAUKEE, WISCONSIN 53233
BRRTS Activity No. 02-41-001055**

INTRODUCTION

This request for exemption for development at a historic fill site is for construction of a 625,000-gallon open-top, wastewater aboveground storage tank at Valley Power Plant (VAPP) located at 1035 West Canal Street in Milwaukee, WI (Site). An ERP case (BRRTS No. 02-41-001055) associated with the Site was opened August 5, 1994 due to a release of diesel fuel. The ERP case was closed October 14, 2010 with continuing obligations. The text below summarizes the existing Site conditions, potential waste types, proposed development summary, actions necessary to manage impacts, and engineering controls proposed to minimize threats to human health and the environment.

A. EXISTING SITE CONDITIONS

Site Location and Background

The VAPP property (15.4 acres) is located at 1035 West Canal Street (Figure 1). The Site is bounded to the west by the We Energies District Energy building and laydown area (Former Balco site), to the south by the South Menomonee Canal, to the east by a vacant We Energies property and the I-94/I-43 overhead freeway, and to the north by Canal Street. VAPP is an operational natural gas power plant. Nearly half of the property is occupied by the power plant structure, paved driveway and parking areas, and associated structures. The remainder of the property consists of gravel surface where the historic coal pile was present and also a gravel surface that extends to the east under the overhead freeway. A vegetation buffer exists between the site operations and South Menomonee Canal. Site photographs are included in Attachment 2.

Based on a review of historic information, the Site has a history of varied industrial uses. A boat slip existed on the property since at least 1894 until it was filled around 1967. Other Site uses included warehousing, lumber storage, building contractors, a leather company/tannery, coal storage, and VAPP, which was historically a coal fired power plant.

Site Investigation Summary/Waste Types

Site investigation activities and the results are documented in the 2010 case closure request prepared by Natural Resource Technology, Inc. (NRT).

Fill material at the Site was observed to depths of approximately 5 to 18 feet below ground surface (bgs). Subsurface conditions identified during site investigation activities include fill material consisting of clay, silt, and sand with traces of coal fragments, wood fragments, and foundry sand. Beneath the fill is silt, silty clay, sand, and silty sand. Geotechnical borings (B-101 through B-104) completed by Terracon in the proposed tank area in March 2024 identified fill material consisting of crushed concrete, silty sand, rubble, wood, ash, and coal to depths of 18 feet bgs followed by native material consisting of

sand, silt, silty sand, and clay to depths of 60 feet bgs. Groundwater was encountered in the geotechnical borings at depths between 9 and 21.5 feet bgs. Boring logs are included in Attachment 3.

Bedrock is expected to occur approximately 150 feet bgs and consist of dolomite of the Galena-Platteville Formation.

An ERP case (BRRTS No. 02-41-001055) associated with the Site was opened August 5, 1994 due to a release of diesel fuel. In 1994, We Energies discovered a release of diesel fuel free product during the construction of the Unit No. 2 Bag House. Subsequent investigation revealed that the source of the free product was leaking underground fuel supply lines leading from a 12,000-gallon aboveground storage tank to the eastern portion of the main power plant building. The area associated with the historic release of diesel fuel is located on the east side of the Site in an area located approximately 100 feet east of the proposed tank location.

Remedial Action Summary

In response to this discovery, a diesel fuel recovery system (DFRS) was installed directly west of the 12,000-gallon fuel tank within the perimeter of the estimated extent of recoverable free product. Diesel fuel was recovered from a series of 30 wells utilizing a three phase vacuum extraction process (bioslurping) to remove diesel fuel impacted vapor, groundwater and free product. The DFRS was intermittently operational at the Site between September 1998 and February 2006. During operation of the DFRS, approximately 4,130 gallons of diesel fuel product were removed from the 434,440 gallons of groundwater/product mixture extracted from the subsurface from this operation. When the DFRS air/water separator transfer pump expired in February 2006, a discussion with the WDNR on June 1, 2006 confirmed We Energies recommendation to abandon the DFRS system and remove the remainder of recoverable diesel fuel product from the subsurface during planned WisDOT excavation activities.

Methane Sampling

Per We Energies prior communication with Mr. Greg Moll at WDNR on July 11, 2023, since there are no occupied enclosed structures associated with this project, WDNR is not requiring methane sampling as part of this historic fill exemption application.

Residual Soil Contamination

Diesel Range Organics (DRO), select polycyclic aromatic hydrocarbons (PAHs), and 1,3,5-trimethylbenzene in soil is present under the concrete and building areas, and arsenic in shallow soils associated with foundry sand fill is present in the gravel area (Figure 5 and Table 2).

Residual Groundwater Contamination

From November 2007 through August 2008 quarterly groundwater monitoring at all wells was performed for petroleum volatile organic compounds (PVOCs), PAHs, and RNA parameters. The depth to groundwater is approximately 5 to 9 feet bgs and flow is generally in an easterly to southerly direction (Figures 8 and 9).

Residual light non-aqueous phase liquid (LNAPL) that consists of 0.02 ft thick or less of diesel fuel is present adjacent to Unit No. 2 Bag House. During the last groundwater sampling event in August 2008 prior to closure, benzene, benzo(a)pyrene, benzo(b)fluoranthene, and chrysene were detected at concentrations exceeding their respective PALs but below the ESs (Figure 7A and Tables 3 and 4).

Case Closure

A cover consisting of gravel is located in the eastern portion of the Site and a cover consisting of concrete and buildings is located in the central portion of the Site (Figure 2). The ERP case was closed October 14, 2010 with continuing obligations. The release at the Site is located approximately 100 feet east of the proposed tank location and groundwater does not flow toward the proposed tank location. The proposed tank location is also not located within the cover areas associated with the release.

B. PROPOSED DEVELOPMENT SUMMARY

A new open-top 84'-3" diameter, approximately 625,000-gallon aboveground storage tank for wastewater collection, with a 15-ft maximum working level, will be constructed in the gravel area in the central portion of the Site. The location is approximately 300 feet south of the power plant structure and 350 feet north of the S. Menomonee Canal.

The new tank will be supported by an 85'-10" centerline diameter x 18" thick (estimated) concrete ring wall foundation bearing on structural fill. It is estimated that the base of the ringwall will be supported by a 24" thick x 48" to 72" wide concrete strip footing. The top of the ringwall will extend a minimum of 12" above grade and the base of the ringwall foundation will be 5 feet below grade. Overexcavation of 24" of soil beneath the footing and floor of the tank is required. The overexcavated areas will be back-filled with granular fill. The tank bottom will rest on granular fill reinforced with bi-axial or tri-axial geogrid placed within the confines of the ringwall. Excavation of the existing soils are to be performed with 1.5H:1V side slopes and an appropriate-sized dewatering system will be required for excavations below 6 feet if groundwater is encountered. The proposed location of the new tank is included as Attachment 1.

C. MATERIALS MANAGEMENT PLAN

The Materials Management Plan (MMP) will be followed by the contractor for proper handling and disposal of potentially impacted fill material/foundry sand encountered during redevelopment of the Site. Groundwater is likely to be encountered during the foundation construction activities at a depth of approximately 6 - 8 feet bgs. Fill material and groundwater that is encountered during construction will be managed as described below.

Field Oversight

Ramboll will conduct periodic oversight of the construction activities, particularly during times of substantial disturbance of the soils or if the contractor identifies material that is inconsistent with the general foundry fill. Ramboll will oversee soil excavation for foundations, hauling and disposal, and take photos for documentation.

Management and Disposal of Excavated Soil

Construction activities that will generate soil that needs to be properly managed include, but is not limited to:

- Site grading activities;
- Tank foundation construction;

- Piping installation;
- Removal of geotechnically unsuitable soil, if encountered.

Soils that are excavated will be hauled for landfill disposal, either as direct landfill or daily cover. If soils cannot be immediately removed, they will be stored temporarily on-Site in accordance with NR 718 requirements for temporary stockpiles.

The contractor will coordinate disposal of soils by a licensed waste hauler in accordance with local, state, and federal requirements. All soil, debris and foundry sand excavated as part of construction will be transported and disposed at Waste Management Metro RDF in Franklin, Wisconsin or Waste Management Orchard Ridge RDF in Menomonee Falls, Wisconsin utilizing waste profiles developed by WEC. All soil and solid waste removed from Site will be manifested according to state and federal requirements.

If soils that are excavated have strong odors, are stained, or otherwise seem inconsistent with soil conditions observed during the site investigation activities, excavation will cease until Ramboll can further review the Site conditions to determine if alternate management or disposal will be necessary. The contractor's health & safety personnel will also be involved in these discussions.

Management of Liquids

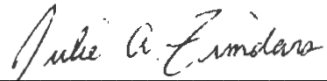
Groundwater will likely be encountered during construction of the foundation footings due to the required overexcavation of soil below the footing. If groundwater is encountered and requires removal, it will have to be managed and disposed of properly. In addition, the contractor will take necessary measures to direct stormwater away from excavations as much as practicable through use of berms and other means to prevent stormwater accumulation in the excavation areas. The contractor will also avoid leaving open excavations during precipitation events if possible.

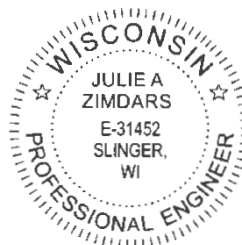
All water (stormwater and groundwater) accumulating in the excavations and requiring removal will be pumped into a frac tank to allow settling to reduce suspended solids and then discharged using a sediment sock to further reduce suspended solids. Following this pre-treatment and flow metering, the water will be discharged to an approved manhole in accordance with an approved Milwaukee Metropolitan Sewerage District (MMSD) Notice of Intent (NOI) to discharge. WEC will provide a copy of the approval and related conditions to the contractor. The approved NOI will require measurement of volume discharged, restrict discharges during/following significant rain events and will also prohibit discharge of high total suspended solids (TSS) or water with a sheen. Water that cannot be discharged in compliance with the approved NOI will be retained on-Site until it can be pre-treated properly and discharged or managed by off-Site treatment and disposal.

D. SUMMARY OF ACTIONS TO BE TAKEN AND ENGINEERING CONTROLS THAT WILL PREVENT OR MINIMIZE ADVERSE ENVIRONMENTAL IMPACTS AND POTENTIAL THREATS TO HUMAN HEALTH AND WELFARE, INCLUDING WORKER SAFETY

The following actions will be taken during the construction activities at the Site to prevent or minimize adverse environmental impacts and potential threats to human health and welfare, including worker safety:

- Follow outlined soil management procedures for handling, staging, re-using, and disposal of soil during construction and document material handling procedures.
- Construction personnel will be qualified and knowledgeable with respect to health and safety requirements relating to the redevelopment. Site-specific Health and Safety Plans will be developed by qualified hired contractors for their personnel working at the Site during all construction activities. This plan will be available upon request. Personnel will be familiar with the plan prior to the commencement of the work.
- Erosion controls and stormwater management will be implemented as part of the Site development. Stormwater will be directed away from excavations as much as possible.
- Excavations will be surrounded by security fencing if left open for an extended period of time (nights, weekends, etc.).
- Site activities could generate fugitive emissions during tank construction. Fugitive emissions include vapor, dust, odor and noise potentially generated by Site operations. A standard level of care will be taken to minimize fugitive emissions. Fugitive emission control measures may include the use of plastic sheeting, covering with clean soil, or watering for dust. Plastic sheeting may be used to provide a physical barrier to fugitive vapor and dust emissions specifically on inactive stockpiles in accordance with WAC NR 718.05. Soil wetting using potable water with or without additives may be sufficient to control fugitive dust emissions from stockpiles, excavated areas, and access roads.
- The spoils from the foundation construction will be disposed of at a licensed Subtitle D landfill under an approved waste profile.
- Groundwater is likely to require management during construction activities. If groundwater is encountered, it will have to be managed and disposed of properly as outlined above.
- Ramboll will conduct brief site visits on a regular basis to support documentation of the construction activities, disposal of the material, and to take photos for documentation. Following completion of the construction activities, Ramboll will prepare a documentation report for submittal to WDNR as required for the Exemption for Development at Historic Fill Site.


Prepared By Julie A. Zimdars, PE Wisconsin
Senior Managing Engineer, Ramboll



Figures

Figure 1 – Site Location Map
Figure 2 – Site Vicinity and Cap Extent
Figure 5 – Post-Remedial Soil Conditions
Figure 7A – Groundwater Concentrations
Figure 8 – Groundwater Elevation Contour Map – February 2008
Figure 9 – Groundwater Elevation Contour Map – August 2008

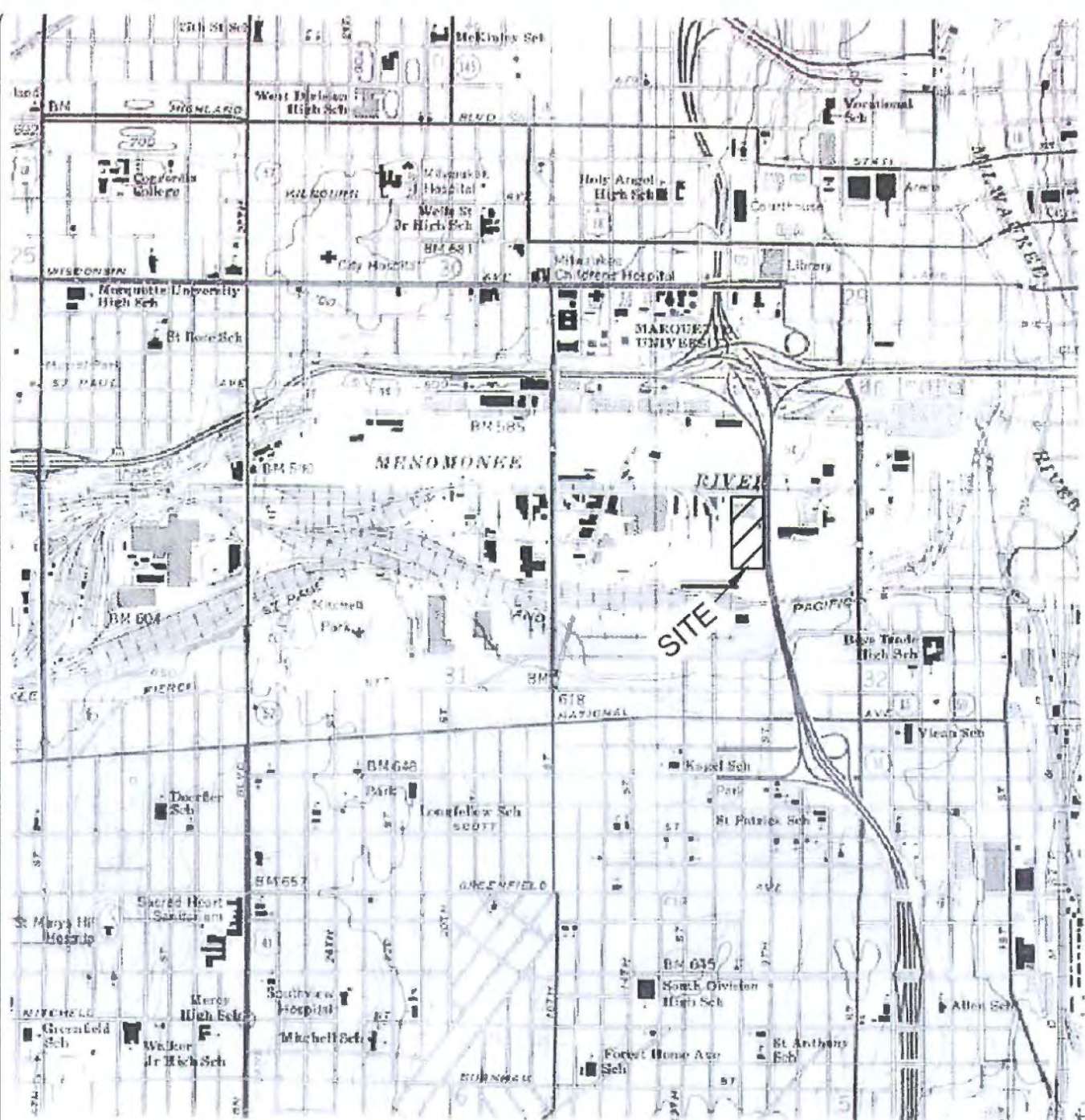
Tables

Table 2 – Post-Remedial Soil Analytical Results – Contaminants of Concern
Table 3 – Groundwater Laboratory Analytical Results - PVOCs
Table 4 – Most Recent Groundwater Laboratory Analytical Results - PAHs

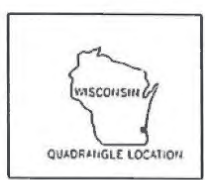
Attachments

Attachment 1 – General Site Plan
Attachment 2 – Site Photographs
Attachment 3 – Boring Logs

Figures



SOURCE: USGS 7.5 MINUTE QUADRANGLE, MILWAUKEE. DATED 1958. PHOTOREVISED 1971.



SCALE IN FEET
CONTOUR INTERVAL 10 FEET



SITE LOCATION MAP

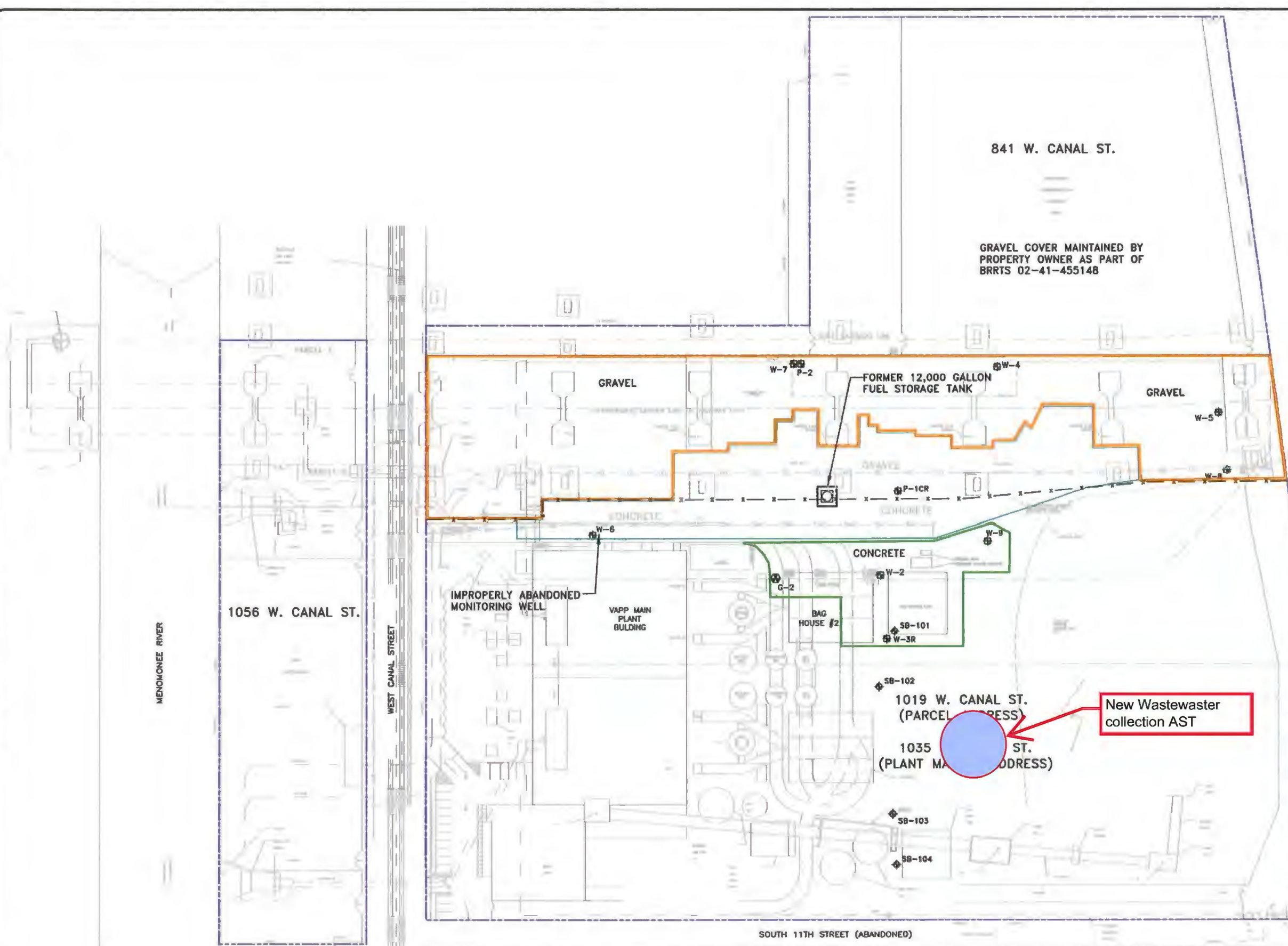
VALLEY POWER PLANT
1035 WEST CANAL STREET
MILWAUKEE, WISCONSIN

PROJECT NO.
1609

DRAWING NO.
1609-A02

FIGURE NO.
1

DRAWN BY: TAS APPROVED BY: E3T DATE: 05/20/05



841 W. CANAL ST.

GRAVEL COVER MAINTAINED BY PROPERTY OWNER AS PART OF BRRTS 02-41-455148

GRAVEL

FORMER 12,000 GALLON FUEL STORAGE TANK

GRAVEL

IMPROPERLY ABANDONED MONITORING WELL

VAPP MAIN PLANT BUILDING

CONCRETE

BAG HOUSE #2

1019 W. CANAL ST. (PARCEL ADDRESS)

1035 W. CANAL ST. (PLANT MAIN ADDRESS)

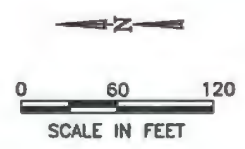
New Wastewater collection AST

SOUTH 11TH STREET (ABANDONED)

1135 W. CANAL ST.

LEGEND	
W-7	MONITORING WELL FOR BRRTS #02-41-001055
P-1CR	PIEZOMETER
SB-101	SOIL BORING (NRT)
G-2	GEOPROBE BORING (STS)
---	PROPERTY BOUNDARY
---	LIMITS OF EXCAVATION FOR BRRTS #02-41-001055
---	LIMITS OF GRAVEL COVER INCLUDED IN BRRTS 02-41-001055 MAINTENANCE PLAN
---	LIMITS OF CONCRETE/BUILDING CAP AREA INCLUDED IN BRRTS 02-41-001055 MAINTENANCE PLAN
x---	FENCE LOCATION (APPROXIMATE)

NOTE:
1. ALL MONITORING WELLS WERE PROPERLY ABANDONED ON 10/22/09 WITH THE EXCEPTION OF W-6, WHICH COULD NOT BE LOCATED.



SOURCE NOTE:
1. THIS DRAWING WAS DEVELOPED FROM A DRAWING BY STS CONSULTANTS LTD., STS PROJECT NUMBER 84588WF, CADFILE G522.DWG AND G523.DWG, JRP7-ROE/STIS, XS/STIS, DRAWINGS DATED 2-3-99. DRAWING: "EAST YARD EQUIPMENT & UNDERGROUND LAYOUT" BY WISCONSIN ELECTRIC, NUMBER VPP0315060029009 REV. 03, WISCONSIN ELECTRIC POWER COMPANY DRAWING: "YARD LINES UNDERGROUND 541" BY STONE & WEBSTER ENGINEERING, BOSTON, MASS., NUMBER 11312-78-2A REV. 13, WE ENERGIES DRAWING: "PLANT DISCHARGE RE-ROUTE", SHEET 07 REV. 1, DATED 6-18-03, AND WE ENERGIES DRAWING: "6" SANITARY RELOCATION", SHEET 08 REV. 01, DATED 8-3-03. LOCATIONS FOR SB-101, SB-102, SB-103 AND SB-104 BASED ON NRT FIELD VERIFICATION.
2. BASED ON SCHEMATIC PROVIDED BY MIKE CHRISTIANSON (WE ENERGIES) ON 6-1-06. UNDERGROUND ELECTRICAL LINES WERE RELOCATED 15 FEET WEST OF STS CONSULTANTS DRAWING DATED 2-3-99.



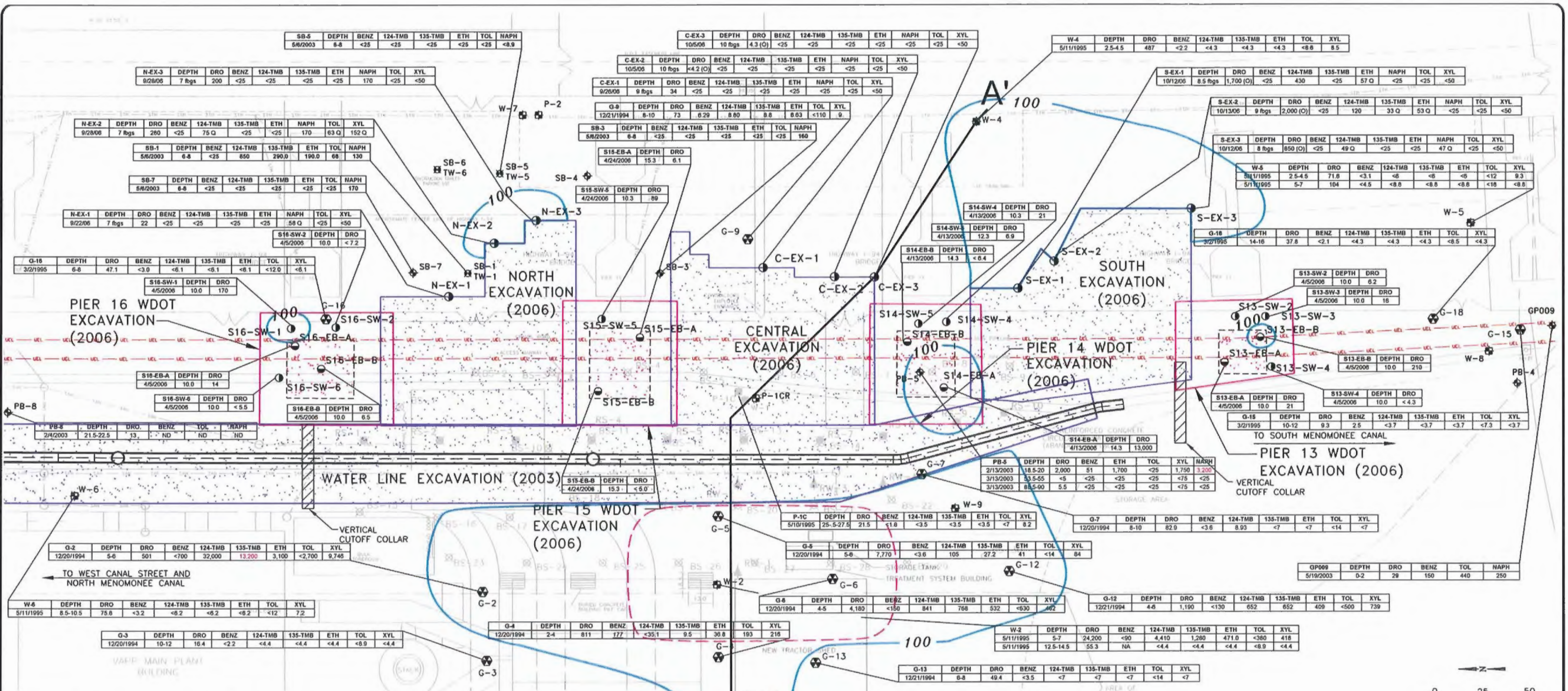
PROJECT NO.
1609/10
DRAWN BY:
KNW 02/27/09
CHECKED BY:
RJG 02/25/09
APPROVED BY:
JAZ 11/16/09

SITE VICINITY MAP AND CAP EXTENT

SITE CLOSURE
VALLEY POWER PLANT
WE ENERGIES
MILWAUKEE, WISCONSIN

DRAWING NO: 1609-10-B01C
REFERENCE:

FIGURE NO.
2



LEGEND

	W-7	MONITORING WELL		SB-4	SOIL BORING (NRT)
	P-1C	ABANDONED PIEZOMETER/WELL		G-5	GEOPROBE BORING (STS)
	P-1CR	PIEZOMETER		GP009	GEOPROBE BORING (MILWAUKEE TRANSPORTATION PARTNERS)
	PB-5	SOIL BORING (MILWAUKEE TRANSPORTATION PARTNERS)		N-EX-1	EXCAVATION WALL SAMPLE @ DEPTH, FEET BELOW GROUND SURFACE (fbgs)
		LIMITS OF REMEDIATION		15-EB-B	EXCAVATION BASE SAMPLE LOCATION
		FOOTPRINT OF BASE OF PIER EXCAVATION			ABANDONED RECOVERY SUMP
		FOOTPRINT OF TOP OF PIER EXCAVATION, SLOPE 1:1			MANHOLE
					ABANDONED RECOVERY WELL
					ABANDONED BIOSLURPING WELL

Sample Location	DEPTH	DRO	BENZ	124-TMB	135-TMB	ETH	NAPH	TOL	XYL
feet, below ground surface		Diesel Range Organics	Benzene	124-Trimethylbenzene	135-Trimethylbenzene	Ethylbenzene	Naphthalene	Toluene	Total Xylenes
fbgs		mg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Soil Screening Levels		100	8,500	83,000	11,000	4,600	2,700	38,000	42,000

Red = Level exceeds NR746 Table 1 value.
 Notes:
 <25 Analyte was not detected above the limit of detection (LOD) indicated
 µg/kg: Micrograms per kilogram
 mg/kg: Milligram per kilogram
 fbgs: Depth measured in feet below ground surface.
 Q: The analyte has been detected between the limit of detection (LOD) and the limit of quantification (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
 O: Sample received overnight
 ns: Standard not established
 ND: Analyte was not detected

GENERAL NOTES:

- MONITORING WELLS W-1 THROUGH W-6 WERE COMPLETED BY SIS CONSULTANTS LTD. (SIS) IN 1995.
- PIEZOMETER P-1C WAS INSTALLED BY SIS IN 1995.
- BIOSLURPING WELLS BS-1 THROUGH BS-30 WERE INSTALLED BY SIS IN 1998.
- MONITORING WELL W-7 AND W-8 WERE INSTALLED BY NATURAL RESOURCE TECHNOLOGY, INC. (NRT) IN 2003.
- PIEZOMETER P-2 WAS INSTALLED BY NRT IN 2003.
- SOIL BORINGS SB-1 THROUGH SB-7 AND TEMPORARY WELLS TW-1, TW-2, TW-5 AND TW-6 WERE INSTALLED BY NRT IN 2003.
- RECOVERY SUMPS RS-1 THROUGH RS-10 WERE INSTALLED BY WE ENERGIES CONTRACTOR (BARTON MALOW) DURING COMPLETION OF THE CIRCULATING WATER LINE RELOCATION ACTIVITIES.
- RECOVERY WELLS RW-1 THROUGH RW-4 WERE INSTALLED BY WE ENERGIES CONTRACTOR (BARTON MALOW) DURING COMPLETION OF THE CIRCULATING WATER LINE RELOCATION ACTIVITIES.
- ABANDONMENT OF THE ORIGINAL AND INSTALLATION OF THE NEW 54 INCH WATER CIRCULATION LINE AND SANITARY SEWER LINES, RESPECTIVELY, WERE PERFORMED BY WE ENERGIES IN 2003.
- TREATMENT WELLS BS-2, BS-3, BS-5, BS-6, BS-7, BS-8, BS-9 AND BS-10 WERE ABANDONED BY NRT IN CONFORMANCE WITH WAC NR 141 ON DECEMBER 7, 2005.
- TREATMENT WELLS BS-1, BS-4 AND BS-9 ARE ASSUMED TO HAVE BEEN ABANDONED DURING EXCAVATION ACTIVITIES DURING DECEMBER 2005 AND OCTOBER 2006. MONITORING WELL W-1 WAS ABANDONED DURING REMEDIAL EXCAVATION ACTIVITIES IN CONFORMANCE WITH WAC NR 141 ON SEPTEMBER 22, 2006.
- TREATMENT WELLS RS-1 THROUGH RS-8, AND RW-1 THROUGH RW-4 WERE ABANDONED BY EDGERTON CONTRACTORS (SUBCONTRACTED TO THE SIGMA GROUP) IN CONFORMANCE WITH WAC NR 141 ON OCTOBER 20, 2006.

2006 EXCAVATION NOTES:

- WEST LIMITS OF THE EXCAVATION WERE BOUND BY A PREVIOUS EXCAVATION (2003). THE PREVIOUS EXCAVATION CONSISTED OF THE INSTALLATION OF A WATER CIRCULATION LINE, AN ELECTRICAL DUCT BANK AND POTABLE WATER LINE. THESE UNDERGROUND UTILITIES WERE BACKFILLED WITH PEA GRAVEL AND THE CONTRACTOR STOPPED THE EXCAVATION ON THE WESTERN LIMIT WHEN THE PEA GRAVEL WAS ENCOUNTERED.
- DURING WDOT/MARQUETTE INTERCHANGE CONSTRUCTION (SPRING 2006), FOUR PIER EXCAVATIONS WERE LOCATED WITHIN THE LIMITS OF THE FORMER DIESEL RELEASE (AS SHOWN) DOCUMENTATION SOIL SAMPLES WERE COLLECTED AT THE BASE OF THE EXCAVATIONS AND ON THE SIDEWALLS APPROXIMATELY 0.5- FEET ABOVE THE LEVEL OF GROUNDWATER. RESULTS OF THE EXCAVATION BASE SAMPLES AND THE EASTERN SIDEWALL SAMPLES (EASTERN LIMIT) ARE SHOWN THE NORTHERN SIDEWALL SAMPLE AT PIER 16 AND THE SOUTHERN SIDEWALL SAMPLE OF PIER 13 ARE ALSO SHOWN SINCE THE REMEDIATION EXCAVATIONS DID NOT PROCEED IN THIS DIRECTION.
- REMEDIAL EXCAVATION WAS PERFORMED (FALL 2006) IN THE AREAS SHOWN. DOCUMENTATION SOIL SAMPLES WERE COLLECTED ON THE EASTERN SIDEWALL 0.5- FEET ABOVE THE LEVEL OF GROUNDWATER AT THE POINT WHERE EITHER DIESEL PRODUCT WAS NO LONGER DETECTED IN THE SOIL OR WHERE EXCAVATION WAS NO LONGER FEASIBLE DUE TO STABILITY CONSTRAINTS OF OTHER SUB- OR SUPER-STRUCTURES LOCATED IN THE VICINITY.

SOURCE NOTE:

- THIS DRAWING WAS DEVELOPED FROM A DRAWING BY SIS CONSULTANTS LTD., SIS PROJECT NUMBER B4586WF, CADFILE G522.0WG AND G523.0WG, XREF=X5K5185, X5K5185, DRAWINGS DATED 2-5-99, DRAWING: "EAST YARD EQUIPMENT & UNDERGROUND LAYOUT" BY WISCONSIN ELECTRIC, NUMBER VPP0315060029009 REV. 03, WISCONSIN ELECTRIC POWER COMPANY DRAWING: "YARD LINES UNDERGROUND SH-1" BY STONE & WEBSTER ENGINEERING, BOSTON, MASS., NUMBER 11312-FB-2A REV. 13, WE ENERGIES DRAWING: "PLANT DISCHARGE RE-ROUTE", SHEET 07 REV. 1, DATED 6-19-03, AND WE ENERGIES DRAWING: "B" SANITARY RELOCATION", SHEET 08 REV. 01, DATED 9-5-03. LOCATIONS FOR SB-101, SB-102, SB-103 AND SB-104 BASED ON NRT FIELD VERIFICATION.
- BASED ON SCHEMATIC PROVIDED BY MIKE CHRISTIANSON (WE ENERGIES) ON 6-1-06, UNDERGROUND ELECTRICAL LINES WERE RELOCATED 15 FEET WEST OF SIS CONSULTANTS DRAWING DATED 2-5-99.

PROJECT NO. 1609/10
DRAWN BY: KMW/RLH 01/22/07
CHECKED BY: RJG 02/25/09
APPROVED BY: JAZ 03/27/09

POST-REMEDIATION SOIL CONDITIONS

SITE CLOSURE
VALLEY POWER PLANT
WE ENERGIES
MILWAUKEE, WISCONSIN

FIGURE NO. 5



W-7	BEN	BTEX	BaP	BbF	CHRYS	DRO
8/2/2005	--	--	--	--	--	130
10/26/2005	<0.14	nd	< 0.019	< 0.017	< 0.02	100
2/17/2006	--	--	--	--	--	<100
2/28/2007	<0.14	nd	0.058	0.048	0.051	<120
11/26/2007	<0.14	nd	< 0.019	< 0.017	< 0.02	--
2/26/2008	<0.14	nd	0.049	0.037	0.061	--
5/21/2008	<0.14	nd	< 0.0054	0.0085	0.013	--
8/21/2008	<0.14	nd	0.011	0.009	0.0096	--
8/21/2008 LF	--	--	< 0.0054	< 0.0051	< 0.007	--

P-2	BEN	BTEX	BaP	BbF	CHRYS	DRO
8/2/2005	--	--	--	--	--	130
10/26/2005	<0.14	nd	0.023	0.019	< 0.02	<94
2/17/2006	--	--	--	--	--	<100
2/28/2007	<0.14	nd	1.4	1.2	1.5	670
11/26/2007	<0.21	nd	0.074	0.059	0.077	--
2/26/2008	<0.14	nd	0.39	0.31	0.5	--
5/21/2008	<0.14	nd	0.043	0.041	0.055	--
8/21/2008	<0.14	nd	0.064	0.054	0.063	--
8/21/2008 LF	--	--	< 0.0054	< 0.0051	< 0.007	--

W-5	BEN	BTEX	BaP	BbF	CHRYS	DRO
8/1/2005	--	--	--	--	--	230
10/26/2005	<0.14	nd	< 0.019	< 0.017	< 0.02	200
2/17/2006	--	--	--	--	--	110
2/28/2007	<0.14	nd	0.07	0.059	0.057	210
11/26/2007	<0.14	nd	< 0.019	< 0.017	< 0.02	--
2/26/2008	<0.14	nd	0.052	0.035	0.059	--
5/21/2008	<0.14	nd	0.025	0.019	0.025	--
8/21/2008	<0.14	nd	0.025	0.02	0.023	--
8/21/2008 LF	--	--	< 0.0055	< 0.0052	< 0.0071	--

W-4	BEN	BTEX	BaP	BbF	CHRYS	DRO
8/1/2005	--	--	--	--	--	200
10/26/2005	<0.14	nd	0.17	0.13	0.16	140
2/17/2006	--	--	--	--	--	110
2/28/2007	<0.14	nd	0.44	0.4	0.38	200
11/26/2007	0.14	0.14	1.8	1.3	1.8	--
2/26/2008	<0.14	nd	1.7	1.1	2	--
5/21/2008	<0.14	nd	0.19	0.17	0.18	--
8/21/2008	<0.14	nd	1.6	0.95	1.6	--
8/21/2008 LF	--	--	< 0.0055	< 0.0052	< 0.0071	--

P-1CR	BEN	BTEX	BaP	BbF	CHRYS	DRO
8/2/2005	--	--	--	--	--	670
10/26/2005	0.82	7.52	< 0.49	< 0.41	< 0.5	640
2/17/2006	--	--	--	--	--	600
2/27/2007	0.41	9.48	< 0.019	< 0.016	< 0.02	830
11/26/2007	0.25	3.75	< 0.4	< 0.34	< 0.41	--
2/26/2008	0.19	3.69	< 0.54	< 0.51	< 0.7	--
5/21/2008	0.19	2.89	< 0.13	< 0.13	< 0.17	--
8/20/2008	0.16	2.56	< 0.0054	< 0.0051	0.0081	--
8/20/2008 LF	--	--	< 0.0055	< 0.0052	< 0.0071	--

W-6	BEN	BTEX	BaP	BbF	CHRYS	DRO
8/2/2005	--	--	--	--	--	300
10/26/2005	<0.14	nd	0.12	0.099	0.13	400
2/23/2006	--	--	--	--	--	440
2/27/2007	<0.14	nd	0.22	0.16	0.18	160
11/26/2007	<0.14	nd	0.075	0.054	0.077	--
2/27/2008	<0.14	nd	< 0.0055	< 0.0052	0.0082	--
5/21/2008	<0.14	nd	0.059	0.044	0.063	--
8/20/2008	<0.14	nd	0.028	0.02	0.028	--
8/20/2008 LF	--	--	< 0.0055	< 0.0052	< 0.0071	--

W-2	BEN	BTEX	BaP	BbF	CHRYS	DRO
2/28/2007	0.51	1.16	0.085	0.074	0.08	63,000
11/26/2007	0.69	1.21	< 0.097	< 0.083	< 0.1	--
2/27/2008	0.37	0.37	0.028	0.028	0.047	--
5/21/2008	0.43	0.43	0.024	0.025	0.033	--
8/20/2008	0.63	0.63	--	--	--	--
8/20/2008 LF	--	--	0.056	0.055	0.057	--

W-9	BEN	BTEX	BaP	BbF	CHRYS	DRO
11/26/2007	1.90	56.9	2.3	< 1.8	3.1	--
2/27/2008	1.90	40.47	1.7	1	2.8	--
5/21/2008	2.00	45.74	0.67	0.57	0.89	--
8/20/2008	1.90	32.41	1.1	0.79	1.4	--
8/20/2008 LF	--	--	0.013	0.0096	0.023	--

W-3R	BEN	BTEX	BaP	BbF	CHRYS	DRO
8/2/2005	--	--	--	--	--	140
10/26/2005	<0.14	nd	0.077	0.064	0.08	<94
2/17/2006	--	--	--	--	--	<100
2/27/2007	<0.14	nd	0.062	0.053	0.059	<96
11/26/2007	<0.14	nd	< 0.019	< 0.017	< 0.02	--
2/27/2008	<0.14	nd	0.012	0.0099	0.019	--
5/21/2008	<0.14	nd	0.0069	0.0075	0.012	--
8/20/2008	<0.14	nd	0.0088	0.0069	0.01	--
8/20/2008 LF	--	--	0.0062	0.0083	0.0099	--

SAMPLE ID	BEN	BTEX	BaP	BbF	CHRYS	DRO
SAMPLE DATE	Benzene (ug/L)	Benzene, Toluene Ethylbenzene, and Xylenes (ug/L)	Benzo(a) pyrene (ug/L)	Benzo (b) fluoranthene (ug/L)	Chrysene (ug/L)	Diesel Range Organics (ug/L)
NR 140 GROUNDWATER STANDARDS						
PREVENTIVE ACTION LIMIT (PAL)	0.5	ns	0.02	0.02	0.02	ns
ENFORCEMENT STANDARD (ES)	5	ns	0.2	0.2	0.2	ns

Concentrations that attain or exceed a Preventive Action Limit (PAL) are shown in *italics* and underline.

Concentrations that attain or exceed an Enforcement Standard (ES) are shown in **bold** and underline.

<0.14 Parameter not detected above the Limit of Detection indicated.
 -- Analysis not performed
 ns = No NR 140 standard established
 ug/L = micrograms per Liter
 LF = Low Flow Sampling Method
 nd = Not detected

- GENERAL NOTES:
- MONITORING WELLS W-1 THROUGH W-6 WERE COMPLETED BY STS CONSULTANTS LTD. (STS) IN 1995.
 - PIEZOMETER P-1C WAS INSTALLED BY STS IN 1995.
 - BIOSLURPING WELLS BS-1 THROUGH BS-30 WERE INSTALLED BY STS IN 1998.
 - MONITORING WELL W-7 AND W-8 WERE INSTALLED BY NATURAL RESOURCE TECHNOLOGY, INC. (NRT) IN 2003.
 - PIEZOMETER P-2 WAS INSTALLED BY NRT IN 2003.
 - MONITORING WELL W-3R AND PIEZOMETER P-1CR WERE INSTALLED BY NRT IN SEPTEMBER 2004. W-3 AND P-1C WERE ABANDONED.
 - MONITORING WELL W-9 WAS INSTALLED BY NATURAL RESOURCE TECHNOLOGY, INC. (NRT) IN 2007.

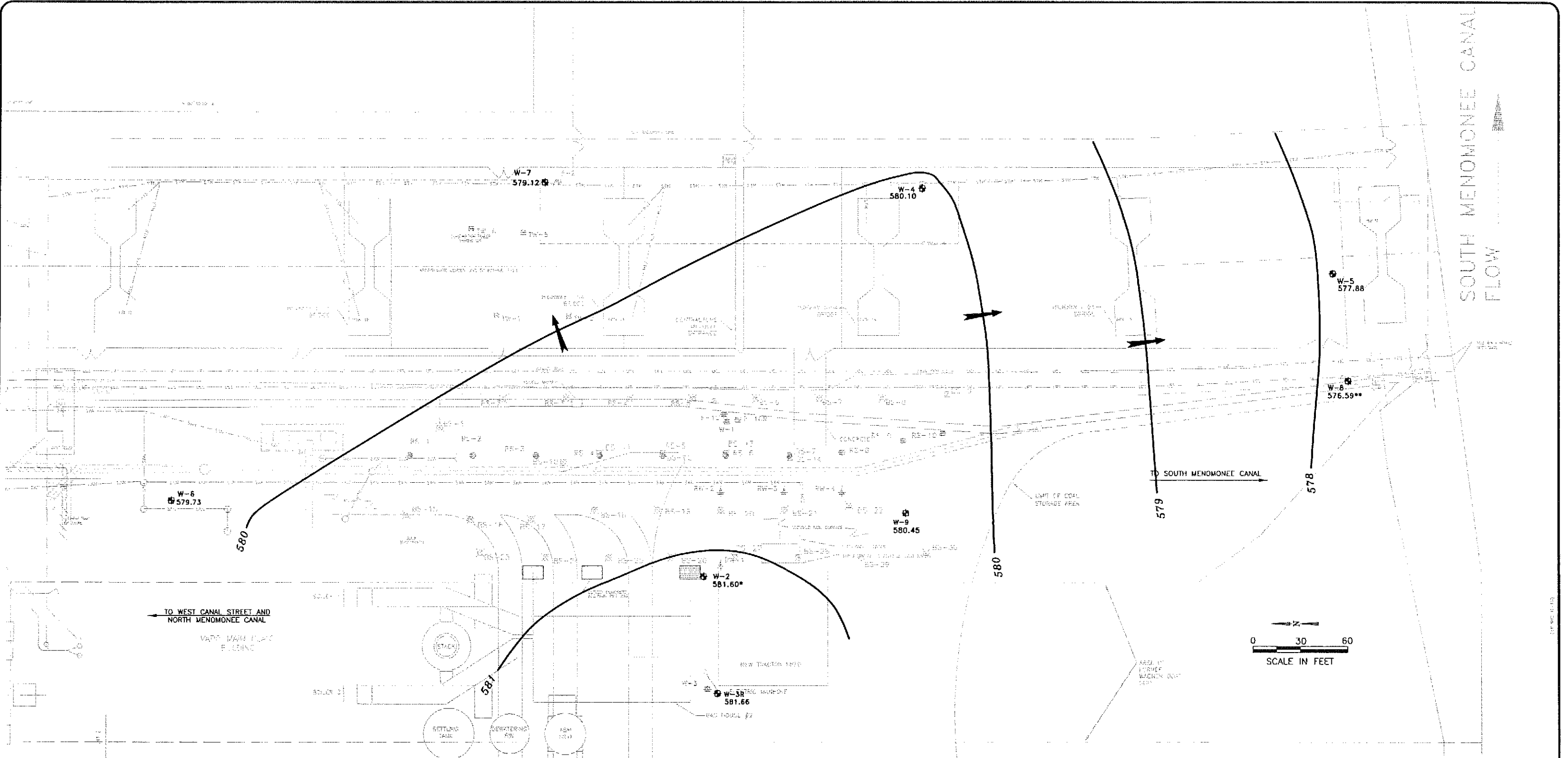
SOURCE NOTE:
 THIS DRAWING WAS DEVELOPED FROM A DRAWING BY STS CONSULTANTS LTD., STS PROJECT NUMBER 84586W, CADFILE G522.DWG AND G523.DWG, XREF=X5X5T8S, X5X5T8S, DRAWINGS DATED 2-5-99, DRAWING: "EAST YARD EQUIPMENT & UNDERGROUND LAYOUT" BY WISCONSIN ELECTRIC, NUMBER VPP015080028009 REV. 03, WISCONSIN ELECTRIC POWER COMPANY DRAWING: "YARD LINES UNDERGROUND SH-1" BY STONE & WEBSTER ENGINEERING, BOSTON, MASS., NUMBER 11312-FB-2A REV. 13, WE ENERGIES DRAWING: "PLANT DISCHARGE RE-ROUTE", SHEET 07 REV. 1, DATED 8-19-03, AND WE ENERGIES DRAWING: "B" SANITARY RELOCATION", SHEET 08 REV. 01, DATED 8-5-03, LOCATIONS FOR SB-101, SB-102, SB-103 AND SB-104 BASED ON NRT FIELD VERIFICATION.
 MONITORING WELL W-3R, PIEZOMETER P-1CR, TRACTOR SHED, TREATMENT SYSTEM BUILDING, STORAGE TANK, AND ELECTRIC MANHOLE WERE FIELD MEASURED AND/OR VERIFIED BY NATURAL RESOURCE TECHNOLOGY ON 12/28/04.
 ALL WELLS RE-SURVEYED BY KAPUR & ASSOCIATES, INC. ON MARCH 20, 2007, HOVD 88 AND WISCONSIN STATE PLANE COORDINATES.

LEGEND

- GROUNDWATER FLOW DIRECTION, AUGUST 2008
- MONITORING WELL
- PIEZOMETER
- ABANDONED RECOVERY SUMP
- ABANDONED RECOVERY WELL
- ABANDONED BIOSLURPING WELL
- TEMPORARY WELL (ABANDONED)
- ABANDONED PIEZOMETER
- ABANDONED MONITORING WELL
- UNDERGROUND ELECTRICAL WATER LINE
- STORM SEWER
- ACTIVE SANITARY SEWER
- ABANDONED SANITARY SEWER
- MANHOLE
- ORIGINAL 54 INCH REINFORCED CONCRETE CIRCULATING WATER LINE (ABANDONED, 2003)
- NEW 54 INCH REINFORCED CONCRETE CIRCULATING WATER LINE



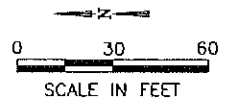
PROJECT NO. 1609/10	GROUNDWATER CONCENTRATIONS
DRAWN BY: RLH/KNW 07/31/09	
CHECKED BY: JAZ 08/03/09	SITE CLOSURE VALLEY POWER PLANT WE ENERGIES MILWAUKEE, WISCONSIN
APPROVED BY: JAZ 08/03/09	
DRAWING NO: 1609-10-B07C	FIGURE NO. 7A
REFERENCE: 1609 GW PAW.xls-tab CAD	



SOUTH MEMOMONEE CANAL
FLOW

TO WEST CANAL STREET AND
NORTH MEMOMONEE CANAL

TO SOUTH MEMOMONEE CANAL



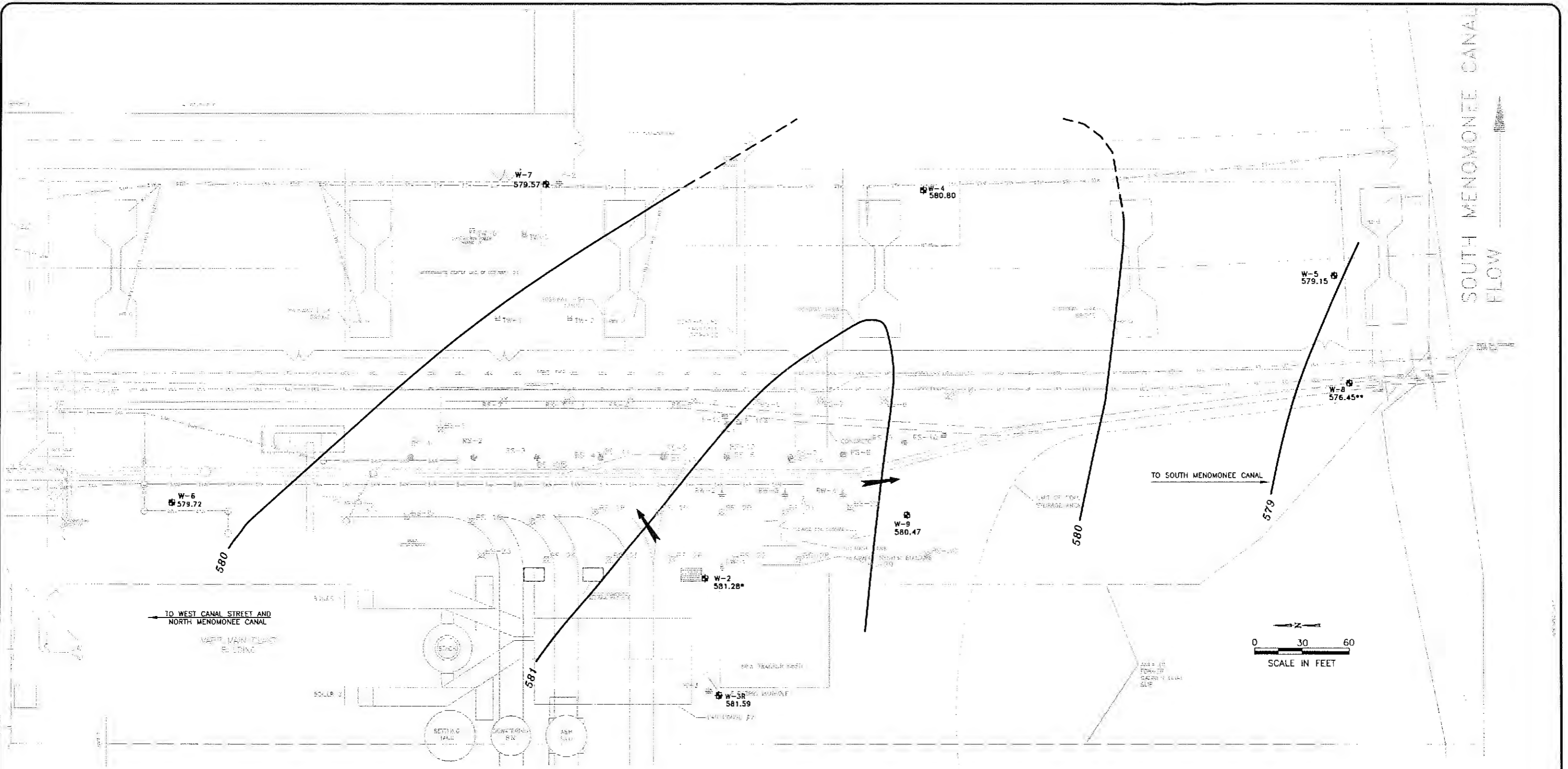
LEGEND			
	GROUNDWATER CONTOURS		ABANDONED RECOVERY SUMP
	GROUNDWATER FLOW DIRECTION		ABANDONED RECOVERY WELL
	MONITORING WELL AND GROUNDWATER ELEVATION, FT.		ABANDONED BIOSLURPING WELL
	PIEZOMETER		TEMPORARY WELL (ABANDONED)
			ABANDONED PIEZOMETER
			ABANDONED MONITORING WELL
			UNDERGROUND ELECTRICAL
			WATER LINE
			STORM SEWER
			ACTIVE SANITARY SEWER
			ABANDONED SANITARY SEWER
			MANHOLE
			ORIGINAL 54 INCH REINFORCED CONCRETE CIRCULATING WATER LINE (ABANDONED, 2003)
			NEW 54 INCH REINFORCED CONCRETE CIRCULATING WATER LINE

* PRODUCT PRESENT; THEREFORE WATER TABLE ELEVATION IS A CORRECTED CALCULATION AND IS APPROXIMATE.
 ** WATER LEVEL FROM W-8 WAS NOT USED TO DEVELOP WATER TABLE CONTOURS. WATER LEVELS HAVE HISTORICALLY BEEN SLOW TO RESPOND TO WATER TABLE ELEVATION FLUCTUATIONS.

GENERAL NOTES:
 1. MONITORING WELLS W-1 THROUGH W-6 WERE COMPLETED BY STS CONSULTANTS LTD. (STS) IN 1995.
 2. PIEZOMETER P-1C WAS INSTALLED BY STS IN 1995.
 3. BIOSLURPING WELLS BS-1 THROUGH BS-30 WERE INSTALLED BY STS IN 1998.
 4. MONITORING WELL W-7 AND W-8 WERE INSTALLED BY NATURAL RESOURCE TECHNOLOGY, INC. (NRT) IN 2003.
 5. PIEZOMETER P-2 WAS INSTALLED BY NRT IN 2003.
 6. MONITORING WELL W-3R AND PIEZOMETER P-1CR WERE INSTALLED BY NRT IN SEPTEMBER 2004. W-3 AND P-1C WERE ABANDONED.
 7. MONITORING WELL W-9 WAS INSTALLED BY NRT IN 2007.

SOURCE NOTE:
 THIS DRAWING WAS DEVELOPED FROM A DRAWING BY STS CONSULTANTS LTD., STS PROJECT NUMBER 04580WF, CADFILE G522.DWG AND G523.DWG, XREF=X5EXSTBS, X5XTRSYS, DRAWINGS DATED 2-5-99. DRAWING: "EAST YARD EQUIPMENT & UNDERGROUND LAYOUT" BY WISCONSIN ELECTRIC, NUMBER WPP0315080028009 REV. 03, WISCONSIN ELECTRIC POWER COMPANY DRAWING: "YARD LINES UNDERGROUND SH.1" BY STONE & WEBSTER ENGINEERING, BOSTON, MASS., NUMBER 11312-FB-2A REV. 13, WE ENERGIES DRAWING: "PLANT DISCHARGE RE-ROUTE", SHEET 07 REV. 1, DATED 6-19-03, AND WE ENERGIES DRAWING: "8" SANITARY RELOCATION", SHEET 08 REV. 01, DATED 9-5-03. LOCATIONS FOR SB-101, SB-102, SB-103 AND SB-104 BASED ON HIT FIELD VERIFICATION.
 MONITORING WELL W-3R, PIEZOMETER P-1CR, TRACTOR SHED, TREATMENT SYSTEM BUILDING, STORAGE TANK, AND ELECTRIC MANHOLE WERE FIELD MEASURED AND/OR VERIFIED BY NATURAL RESOURCE TECHNOLOGY ON 12/28/04.
 ALL WELLS RE-SURVEYED BY KAPUR & ASSOCIATES, INC. ON MARCH 20, 2007, NGVD 88 AND WISCONSIN STATE PLANE COORDINATES.

	PROJECT NO. 1609/10	GROUNDWATER ELEVATION CONTOUR MAP FEBRUARY 2008 SITE CLOSURE VALLEY POWER PLANT WE ENERGIES MILWAUKEE, WISCONSIN	FIGURE NO. 8
	DRAWN BY: KNW 02/27/09		
	CHECKED BY: RJG 02/25/09		
	APPROVED BY: JAZ 04/07/09	DRAWING NO: 1609-10-805	
		REFERENCE:	



SOUTH MEMONONEE CANAL
FLOW

LEGEND

580	GROUNDWATER CONTOURS		ABANDONED RECOVERY SUMP		UNDERGROUND ELECTRICAL
	GROUNDWATER FLOW DIRECTION		ABANDONED RECOVERY WELL		WATER LINE
W-5 579.72	MONITORING WELL AND GROUNDWATER ELEVATION, FT.		ABANDONED BIOSLURPING WELL		STORM SEWER
P-2	PIEZOMETER		TEMPORARY WELL (ABANDONED)		ACTIVE SANITARY SEWER
			ABANDONED PIEZOMETER		ABANDONED SANITARY SEWER
			ABANDONED MONITORING WELL		MANHOLE
					ORIGINAL 54 INCH REINFORCED CONCRETE CIRCULATING WATER LINE (ABANDONED, 2003)
					NEW 54 INCH REINFORCED CONCRETE CIRCULATING WATER LINE

* PRODUCT PRESENT; THEREFORE WATER TABLE ELEVATION IS A CORRECTED CALCULATION AND IS APPROXIMATE.
 ** WATER LEVEL FROM W-B WAS NOT USED TO DEVELOP WATER TABLE CONTOURS. WATER LEVELS HAVE HISTORICALLY BEEN SLOW TO RESPOND TO WATER TABLE ELEVATION FLUCTUATIONS.

GENERAL NOTES:

1. MONITORING WELLS W-1 THROUGH W-6 WERE COMPLETED BY STS CONSULTANTS LTD. (STS) IN 1995.
2. PIEZOMETER P-1C WAS INSTALLED BY STS IN 1995.
3. BIOSLURPING WELLS BS-1 THROUGH BS-30 WERE INSTALLED BY STS IN 1998.
4. MONITORING WELL W-7 AND W-8 WERE INSTALLED BY NATURAL RESOURCE TECHNOLOGY, INC. (NRT) IN 2003.
5. PIEZOMETER P-2 WAS INSTALLED BY NRT IN 2003.
6. MONITORING WELL W-3R AND PIEZOMETER P-1CR WERE INSTALLED BY NRT IN SEPTEMBER 2004. W-3 AND P-1C WERE ABANDONED.
7. MONITORING WELL W-9 WAS INSTALLED BY NRT IN 2007.

SOURCE NOTE:
 THIS DRAWING WAS DEVELOPED FROM A DRAWING BY STS CONSULTANTS LTD., STS PROJECT NUMBER B4586WF, CADFILE G522.DWG AND G523.DWG, XREF=XSEXSTBS, XSKTRSYS, DRAWINGS DATED 2-5-99, DRAWING: "EAST YARD EQUIPMENT & UNDERGROUND LAYOUT" BY WISCONSIN ELECTRIC, NUMBER VPPD315080029009 REV. 03, WISCONSIN ELECTRIC POWER COMPANY DRAWING: "YARD LINES UNDERGROUND SH.1" BY STONE & WEBSTER ENGINEERING, BOSTON, MASS., NUMBER 11312-FB-2A REV. 13, WE ENERGIES DRAWING: "PLANT DISCHARGE RE-ROUTE", SHEET 07 REV. 1, DATED 6-19-03, AND WE ENERGIES DRAWING: "B" SANITARY RELOCATION", SHEET 08 REV. 01, DATED 9-5-03. LOCATIONS FOR SB-101, SB-102, SB-103 AND SB-104 BASED ON NRT FIELD VERIFICATION.
 MONITORING WELL W-3R, PIEZOMETER P-1CR, TRACTOR SHED, TREATMENT SYSTEM BUILDING, STORAGE TANK, AND ELECTRIC MANHOLE WERE FIELD MEASURED AND/OR VERIFIED BY NATURAL RESOURCE TECHNOLOGY ON 12/28/04.
 ALL WELLS RE-SURVEYED BY KAPUR & ASSOCIATES, INC. ON MARCH 20, 2007, NAD83 AND WISCONSIN STATE PLANE COORDINATES.

	PROJECT NO. 1609/10	GROUNDWATER ELEVATION CONTOUR MAP AUGUST 2008 SITE CLOSURE VALLEY POWER PLANT WE ENERGIES MILWAUKEE, WISCONSIN	FIGURE NO. 9
	DRAWN BY: KNW 02/27/09		
	CHECKED BY: RJG 02/25/09	DRAWING NO: 1608-10-B06	REFERENCE:
APPROVED BY: JAZ 04/07/09			

Tables

Table 2. Post-Remedial Soil Analytical Results - Contaminants of Concern

Site Closure

Project # 1609 We Energies-Valley Power Plant

1035 W. Canal Street, Milwaukee, WI

BRRTS#: 0241001055

FID #: 241007800

Sample ID	Sample Depth (ft)	Sample Date	Diesel Range Organics (mg/kg)	Volatile Organic Compounds (µg/kg)							Arsenic (mg/kg)	
				1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2-Dichloroethane	Benzene	Ethylbenzene	Naphthalene	Toluene		Xylenes, Total
Wisconsin Administrative Code NR 720 Residual Contaminant Levels (RCLs), September 2007												
NR 720 RCLs			100	ns	ns	4.9	5.6	2,900	ns	1,500	4,100	1.6
Wisconsin Administrative Code NR 746 Soil Screening Levels (SSLs), January 2001												
NR 746 SSLs			ns	83,000	11,000	600	8,600	4,600	2,700	38,000	42,000	ns
G-2 S-3A	5 - 6	12/20/1994	501	32,000	13,200	--	<700	3,100	--	<2700	9,746	--
G-3 S-5	10 - 12	12/20/1994	16.4	<4.4	<4.4	--	<2.2	<4.4	--	<8.9	<4.4	--
G-4 S-2	2 - 4	12/20/1994	811	<35.1	9.5	--	177	36.8	--	193	216	--
G-5 S-3A	5 - 6	12/20/1994	7,770	105	27.2	--	<3.6	41	--	<14	84.4	--
G-6 S-3	4 - 5	12/20/1994	4,180	841	788	--	<150	532	--	<630	462	--
G-7 S-5	8 - 10	12/20/1994	82.9	8.93	<7	--	<3.6	<7	--	<14	<7	--
G-9 S-5	8 - 10	12/21/1994	73	8.8	8.8	--	6.29	6.83	--	<110	9.4	--
G-12 S-3	4 - 6	12/21/1994	1,190	652	652	--	<130	409	--	<500	739	--
G-13 S-4	6 - 8	12/21/1994	49.4	<7	<7	--	<3.5	<7	--	<14	<7	--
G-15 S-6	10 - 12	3/2/1995	9.32	<3.7	<3.7	--	2.5	<3.7	--	<7.3	<3.7	--
G-16 S-4	6 - 8	3/2/1995	47.1	<6.1	<6.1	--	<3.0	<6.1	--	<12.0	<6.1	--
G-18 S-8	14 - 16	3/2/1995	37.8	<4.3	<4.3	--	<2.1	<4.3	--	<8.5	<4.3	--
P-1C S-11	25.5 - 27.5	5/10/1995	21.5	<3.5	<3.5	--	<1.8	<3.5	--	<7	8.2	--
W-2 S-3	5 - 7	5/11/1995	24,200	4,410	1,280	--	<90	471	--	<360	418	--
W-2 S-6	12.5 - 14.5	5/11/1995	55.3	--	--	--	--	--	--	--	--	--
W-3 S-4	7.5 - 9.5	5/11/1995	445	<4.4	<4.4	--	<2.3	<4.4	--	<8.9	<4.4	--
W-4 S-2	2.5 - 4.5	5/11/1995	487	<4.3	<4.3	--	<2.2	<4.3	--	<8.6	8.5	--
W-5 S-2	2.5 - 4.5	5/11/1995	71.6	<6	<6	--	<3.1	<6	--	<12	9.3	--
W-5 S-3	5 - 7	5/11/1995	104	<8.8	<8.8	--	<4.5	<8.8	--	<18	<8.8	--
W-6 S-4	8.5 - 10.5	5/11/1995	75.8	<6.2	<6.2	--	<3.2	<6.2	--	<12	7.2	--
PB-8	21.5-22.5	2/4/2003	13	--	--	--	ND	--	--	ND	--	2.1
PB-5	18.5-20	2/13/2003	2,000	6,000	1,400	<25	51	1,700	3,200	<25	1,760	2.1
PB-5	53.5-55	3/13/2003	<5	<25	<25	<25	<25	<25	<25	<25	<75	3.7
PB-5	88.5-90	3/13/2003	5.5	<25	<25	<25	<25	<25	<25	<25	<75	12
SB-1	6-8	5/6/2003	--	850	290	--	<25	190	130	68	--	--
SB-3	6-8	5/6/2003	--	<25	<25	--	<25	<25	160	<25	--	--
SB-5	6-8	5/6/2003	--	<25	<25	--	<25	<25	<8.9	<25	--	--
SB-7	6-8	5/6/2003	--	<25	<25	--	<25	<25	170	<25	--	--
GP009	0-2	5/19/2003	29	--	--	--	150	--	250	440	--	58
SB-101	2-4	5/29/2003	--	--	--	--	--	--	1,000	--	--	22
SB-102	2-4	5/29/2003	--	--	--	--	--	--	620	--	--	9.6
SB-103	2-4	5/29/2003	--	--	--	--	--	--	180	--	--	2.3
SB-104	2-4	5/29/2003	--	--	--	--	--	--	<8.6	--	--	4.2
S13-SW-1*	10.0	4/5/2006	26	--	--	--	--	--	--	--	--	--
S13-SW-2	10.0	4/5/2006	6.2	--	--	--	--	--	--	--	--	--
S13-SW-3	10.0	4/5/2006	18	--	--	--	--	--	--	--	--	--
S13-SW-4	10.0	4/5/2006	< 4.3	--	--	--	--	--	--	--	--	--
S13-SW-5*	10.0	4/5/2006	150	--	--	--	--	--	--	--	--	--
S13-SW-6*	10.0	4/5/2006	40	--	--	--	--	--	--	--	--	--
S13-EB-A	10.0	4/5/2006	21	--	--	--	--	--	--	--	--	--
S13-EB-B	10.0	4/5/2006	210	--	--	--	--	--	--	--	--	--
S16-SW-1	10.0	4/5/2006	170	--	--	--	--	--	--	--	--	--
S16-SW-2	10.0	4/5/2006	< 7.2	--	--	--	--	--	--	--	--	--
S16-SW-3*	10.0	4/5/2006	13	--	--	--	--	--	--	--	--	--
S16-SW-4*	10.0	4/5/2006	25	--	--	--	--	--	--	--	--	--
S16-SW-5*	10.0	4/5/2006	43	--	--	--	--	--	--	--	--	--
S16-SW-6	10.0	4/5/2006	< 5.5	--	--	--	--	--	--	--	--	--
S16-EB-A	10.0	4/5/2006	14	--	--	--	--	--	--	--	--	--



Table 2. Post-Remedial Soil Analytical Results - Contaminants of Concern

Site Closure
 Project # 1609 We Energies-Valley Power Plant
 1035 W. Canal Street, Milwaukee, WI
 BRRTS#: 0241001055 FID #: 241007800

Sample ID	Sample Depth (ft)	Sample Date	Diesel Range Organics (mg/kg)	Volatile Organic Compounds (µg/kg)								Arsenic (mg/kg)
				1,2,4-Trimethylbenzene	1,2,5-Trimethylbenzene	1,2-Dichloroethane	Benzene	Ethylbenzene	Naphthalene	Toluene	Xylenes, Total	
Wisconsin Administrative Code NR 720 Residual Contaminant Levels (RCLs), September 2007												
NR 720 RCLs			100	ns	ns	4.9	5.5	2,900	ns	1,500	4,100	1.6
Wisconsin Administrative Code NR 746 Soil Screening Levels (SSLs), January 2001												
NR 746 SSLs			ns	83,000	11,000	600	8,500	4,600	2,700	38,000	42,000	ns
S16-EB-B	10.0	4/5/2006	6.5	--	--	--	--	--	--	--	--	--
S14-SW-1*	10.3	4/13/2006	2,600	--	--	--	--	--	--	--	--	--
S14-SW-2*	11.3	4/13/2006	3,800	--	--	--	--	--	--	--	--	--
S14-SW-3*	10.3	4/13/2006	2,000	--	--	--	--	--	--	--	--	--
S14-SW-4	10.3	4/13/2006	21	--	--	--	--	--	--	--	--	--
S14-SW-5	12.3	4/13/2006	6.9	--	--	--	--	--	--	--	--	--
S14-SW-6*	11.3	4/13/2006	3,500	--	--	--	--	--	--	--	--	--
S14-EB-A	14.3	4/13/2006	13,000	--	--	--	--	--	--	--	--	--
S14-EB-B	14.3	4/13/2006	< 6.4	--	--	--	--	--	--	--	--	--
S15-SW-1*	10.3	4/24/2006	200	--	--	--	--	--	--	--	--	--
S15-SW-2*	9.3	4/24/2006	760	--	--	--	--	--	--	--	--	--
S15-SW-3*	9.3	4/24/2006	19,000	--	--	--	--	--	--	--	--	--
S15-SW-4*	9.3	4/24/2006	3,400	--	--	--	--	--	--	--	--	--
S15-SW-5	10.3	4/24/2006	89	--	--	--	--	--	--	--	--	--
S15-SW-6	8.3	4/24/2006	4,800	--	--	--	--	--	--	--	--	--
S15-EB-A	15.3	4/24/2006	6.1	--	--	--	--	--	--	--	--	--
S15-EB-B	15.3	4/24/2006	< 5.0	--	--	--	--	--	--	--	--	--
N-EX-1	7.0	9/22/06	22	<25	<25	<25	<25	<25	58 Q	<25	<50	--
C-EX-1	9.0	9/28/06	34	<25	<25	<25	<25	<25	<25	<25	<50	--
N-EX-2	7.0	9/28/06	280	75 Q	<25	<25	<25	<25	170	63 Q	152 Q	--
N-EX-3	7.0	9/28/06	200	<25	<25	<25	<25	<25	170	<25	<50	--
C-EX-2	10.0	10/5/06	<4.2 (O)	<25	<25	<25	<25	<25	<25	<25	<50	--
C-EX-3	10.0	10/5/06	4.3 (O)	<25	<25	<25	<25	<25	<25	<25	<50	--
S-EX-1	8.5	10/12/06	1,700 (O)	430	<25	<25	<25	57 Q	<25	<25	<50	--
S-EX-3	8.0	10/12/06	850 (O)	49 Q	<25	<25	<25	<25	47 Q	<25	<50	--
S-EX-2	9.0	10/13/06	2,000 (O)	120	33 Q	<25	<25	53 Q	<25	<25	<50	--

(D:\LPMC\JCS_R\5\JAZZ_0309)

Notes:

- 1) Refer to laboratory analytical reports for data qualifiers.
- *: Sidewall samples were collected along adjoining excavation areas and were most likely excavated. These samples are not representative of post-remedial conditions.
- : Not analyzed
- µg/kg: Micrograms per kilogram.
- mg/kg: Milligram per kilogram.
- ns: Standard not established.
- <25: Analyte was not detected above limit of detection shown.
- Q: The analyte has been detected between the limit of detection (LOD) and the limit of quantification (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- O: Sample was received over weight at the lab.
- S13: Excavation number associated with pier number
- SW/EB: Sidewall/Excavation base sample
- 1: Sample number
- N/C/S: North/Central/South
- EX: Excavation sample
- ND: Not detected
- Bold & Underline: Indicates NR746 SSL exceedance
- Italic & underline: Indicates NR720 RCL exceedance



Table 3. Groundwater Laboratory Analytical Results - Petroleum Volatile Organic Compounds (PVOCs), and Diesel Range Organics (DRO)

Site Closure

Project # 1609 We Energies-Valley Power Plant

1035 W. Canal Street, Milwaukee, Wisconsin

BRRTS# : 0241001055

FID# : 241007800

Sample ID	Collection Date	PVOCs (µg/L)							Diesel Range Organics (µg/L)	
		Benzene	Ethyl-benzene	Toluene	Xylene, O	Xylenes, m+p	MTBE	1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene
Wisconsin Groundwater Quality Standards (NR 140, January 2007)										
Preventive Action Limit (PAL)		0.5	140	200	1000	1000	12	96	96	NS
Enforcement Standard (ES)		5	700	1000	10000	10000	60	480	480	NS
P01CR										
	10/26/2005	0.82	1.4	< 0.36	1.3	4	8.8	20	4.4	640
	2/17/2006	--	--	--	--	--	--	--	--	600 Q
	2/27/2007	0.41 Q	0.68 Q	< 0.36	0.69 Q	7.7	6.6	35	4.9	830 Q
	11/26/2007	0.25 Q	< 0.4	< 0.36	< 0.36	3.5	7.9	16	2.4	--
	2/26/2008	0.19 Q	< 0.4	< 0.36	< 0.36	3.5	9.3	17.3	3.1	--
	5/21/2008	0.19 Q	< 0.4	< 0.36	< 0.36	2.7	9.4	14.7	2.8	--
	8/20/2008	0.16 Q	< 0.4	< 0.36	< 0.36	2.4	9.2	13.4	2.8	--
P02										
	10/26/2005	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	< 94
	2/17/2006	--	--	--	--	--	--	--	--	< 100
	2/28/2007	< 0.14 Q	< 0.4 Q	< 0.36 Q	< 0.36 Q	< 0.74 Q	< 0.36 Q	< 0.39 Q	< 0.4 Q	670
	11/26/2007	< 0.21	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	2/26/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	5/21/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	8/21/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
TB										
	10/26/2005	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	2/28/2007	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	11/26/2007	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	2/26/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	2/27/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	5/21/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	8/20/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
W01										
	10/26/2005									Product present
	2/17/2006									sheen
	9/22/2006									Well abandoned

Site Closure

Project # 1609 We Energies-Valley Power Plant

1035 W. Canal Street, Milwaukee, Wisconsin

BRRTS# : 0241001055

FID# : 241007800

Sample ID	Collection Date	PVOCs (µg/L)								Diesel Range Organics (µg/L)
		Benzene	Ethyl-benzene	Toluene	Xylene, O	Xylenes, m+p	MTBE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	
Wisconsin Groundwater Quality Standards (NR 140, January 2007)										
Preventive Action Limit (PAL)		0.5	140	200	1000	1000	12	96	96	NS
Enforcement Standard (ES)		5	700	1000	10000	10000	60	480	480	NS
W02										
	10/26/2005									Product present
	2/17/2006									0.02 ft product
	2/28/2007	<u>0.51</u>	0.65 Q	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	63000
	11/26/2007	<u>0.69</u>	0.52 Q	< 0.36	< 0.36	< 0.74	< 0.36	0.45 Q	< 0.4	--
	2/27/2008	0.37 Q	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	0.53 Q	< 0.4	--
	5/21/2008	0.43 Q	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	8/20/2008	<u>0.63 Q</u>	< 0.4	< 0.36	< 0.36	< 0.74	0.46 Q	0.63 Q	< 0.4	--
W03R										
	10/26/2005	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	< 94
	2/17/2006	--	--	--	--	--	--	--	--	< 100
	2/27/2007	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	< 96 Q
	11/26/2007	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	2/27/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	5/21/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	8/20/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
W04										
	10/26/2005	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	140
	2/17/2006	--	--	--	--	--	--	--	--	110
	2/28/2007	< 0.14 Q	< 0.4 Q	< 0.36 Q	< 0.36 Q	< 0.74 Q	< 0.36 Q	< 0.39 Q	< 0.4 Q	200
	11/26/2007	0.14 Q	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	2/28/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	5/21/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	8/21/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
W05										
	10/26/2005	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	200 Q
	2/17/2006	--	--	--	--	--	--	--	--	110 Q
	2/28/2007	< 0.14 Q	< 0.4 Q	< 0.36 Q	< 0.36 Q	< 0.74 Q	< 0.36 Q	< 0.39 Q	< 0.4 Q	210
	11/26/2007	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	2/26/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	5/21/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	8/21/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--

Table 3. Groundwater Laboratory Analytical Results - Petroleum Volatile Organic Compounds (PVOCs), and Diesel Range Organics (DRO)



Site Closure

Project # 1609 We Energies-Valley Power Plant

1035 W. Canal Street, Milwaukee, Wisconsin

BRRTS# : 0241001055

FID# : 241007800

Sample ID	Collection Date	PVOCs (µg/L)								Diesel Range Organics (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylene, O	Xylenes, m+p	MTBE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	
Wisconsin Groundwater Quality Standards (NR 140, January 2007)										
Preventive Action Limit (PAL)		0.5	140	200	1000	1000	12	96	96	NS
Enforcement Standard (ES)		5	700	1000	10000	10000	60	480	480	NS
W06	10/26/2005	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	400
	2/23/2006	--	--	--	--	--	--	--	--	440
	2/27/2007	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	160 Q
	11/26/2007	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	2/27/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	5/21/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	8/20/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
W07	10/26/2005	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	100 Q
	2/17/2006	--	--	--	--	--	--	--	--	< 100 Q
	2/28/2007	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	< 120
	11/26/2007	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	2/26/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	5/21/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
	8/21/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	< 0.36	< 0.39	< 0.4	--
W08	10/26/2005	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	1.1 Q	< 0.39	< 0.4	190
	2/17/2006	--	--	--	--	--	--	--	--	280 Q
	2/27/2007	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	3.3	< 0.39	< 0.4	290 Q
	11/26/2007	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	2.3	< 0.39	< 0.4	--
	2/26/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	2 Q	< 0.39	< 0.4	--
	5/21/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	1.8 Q	< 0.39	< 0.4	--
	8/21/2008	< 0.14	< 0.4	< 0.36	< 0.36	< 0.74	1.2 Q	< 0.39	< 0.4	--
W09	11/26/2007	<u>1.9</u>	46	< 0.36	1.6	7.4	2.8	46	< 0.4	--
	2/27/2008	<u>1.9</u>	32.2	< 0.36	0.97 Q	5.4	3.5	45	< 0.4	--
	5/21/2008	<u>2</u>	36.7	0.45 Q	0.99 Q	5.6	2.8 Q	37.7	0.53 Q	--
	8/20/2008	<u>1.9</u>	25.7	< 0.36	0.41 Q	4.4	2.4 Q	25	< 0.4	--

Table 3. Groundwater Laboratory Analytical Results - Petroleum Volatile Organic Compounds (PVOCs), and Diesel Range Organics (DRO)

Site Closure

Project # 1609 We Energies-Valley Power Plant

1035 W. Canal Street, Milwaukee, Wisconsin

BRRTS# : 0241001055

FID# : 241007800

<i>Sample ID</i>	<i>Collection Date</i>	<i>PVOCs (µg/L)</i>								
		<i>Benzene</i>	<i>Ethyl-benzene</i>	<i>Toluene</i>	<i>Xylene, O</i>	<i>Xylenes, m+p</i>	<i>MTBE</i>	<i>1,2,4-Trimethylbenzene</i>	<i>1,3,5-Trimethylbenzene</i>	<i>Diesel Range Organics (µg/L)</i>
Wisconsin Groundwater Quality Standards (NR 140, January 2007)										
<u>Preventive Action Limit (PAL)</u>		0.5	140	200	1000	1000	12	96	96	NS
<u>Enforcement Standard (ES)</u>		5	700	1000	10000	10000	60	480	480	NS

Notes

- 1) Parameters that attain or exceed the NR 140 Wisconsin Groundwater Quality Preventive Action Limit (PAL) Standard are identified in italics and underlined.
 - 2) Parameters that attain or exceed the NR 140 Wisconsin Groundwater Quality Enforcement Standard (ES) are identified in bold and underlined.
 - 3) Only detected parameters are shown in report, reference the laboratory analytical report for full list of compounds analyzed.
 - 4) Xylene analytical results combined for comparison against the NR 140 PAL and ES standards.
- <2.0 : Parameter not detected above the Limit of Detection indicated.
 NS : NR 140 Wisconsin Groundwater Quality Standard not established for this parameter.
 Q : Analyte result has been qualified, see laboratory analytical report for additional information.
 --: Analysis not performed.
 TB : Trip Blank for QA/QC.
 QC: Quality Control duplicate sample.

Table 4. Groundwater Laboratory Analytical Results - Polynuclear Aromatic Hydrocarbons (PAH)

Site Closure
 Project # 1609 We Energies-Valley Power Plant
 1035 W. Canal Street, Milwaukee, Wisconsin
 BRRTS# : 0241001055

FID# : 241007800

Sample ID	Collection Date	All PAH analytical results in µg/L	1-Methyl naphthalene	2-Methyl naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Wisconsin Groundwater Quality Standards (NR 140, January 2007)																				
<i>Preventive Action Limit</i>			NS	NS	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	10	NS	50
<i>Enforcement Standard</i>			NS	NS	NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	100	NS	250
P01CR	10/26/2005		12	4.3	0.65 Q	< 0.21	< 0.31	< 0.41	< 0.49	< 0.41 Q	< 0.51	< 0.51 Q	< 0.5	< 0.5	< 0.41	1.3	< 0.5	2	1.4	< 0.38
	2/27/2007		34 Q	16 Q	< 1.1 Q	0.2 Q	0.18 Q	< 0.016	< 0.019	< 0.016 Q	< 0.02	< 0.02 Q	< 0.02	< 0.02	0.1 Q	1.7 Q	< 0.02	11 Q	2.4 Q	0.14 Q
	11/26/2007		29 Q	15 Q	0.93	0.27 Q	< 0.25	< 0.34	< 0.4	< 0.34 Q	< 0.42	< 0.42 Q	< 0.41	< 0.41	< 0.34	1.6	< 0.41	7.6	1.7	< 0.32
	2/26/2008		30.8	14.8	1 Q	< 0.5	< 0.65	< 0.35	< 0.54	< 0.51	< 0.62	< 0.78	< 0.7	< 0.43	< 0.53	1.9 Q	< 0.36	10.3	2.3 Q	< 0.68
	5/21/2008		22.5	11.8	0.82 Q	< 0.12	0.21 Q	< 0.087	< 0.13	< 0.13	< 0.16	< 0.19	< 0.17	< 0.11	< 0.13	1.5	< 0.09	7.6	1.7	< 0.17
	8/20/2008		24.8	14.8	0.96 Q	0.021 Q	0.18	0.0079 Q	< 0.0054	< 0.0051	< 0.0062	< 0.0078	0.0081 Q	< 0.0043	0.079	1.7 Q	< 0.0036	9.2	2 Q	0.11
	8/20/2008	low-flow	12.6	6.3	0.42	0.012 Q	0.084	< 0.0035	< 0.0055	< 0.0052	< 0.0063	< 0.0078	< 0.0071	< 0.0043	0.042 Q	0.66 Q	< 0.0036	5.1	0.52 Q	0.049
P02	10/26/2005		0.054	0.047	< 0.0086	< 0.0086	< 0.012	0.021 Q	0.023 Q	0.019 Q	< 0.02	< 0.02 Q	< 0.02	< 0.02	0.043 Q	< 0.0096	< 0.02	0.043 Q	0.032 Q	0.041 Q
	2/28/2007		0.58 Q	0.68 Q	< 0.16 Q	< 0.16 Q	0.63 Q	1.2	1.4	1.2 Q	1 Q	1.3 Q	1.5	< 0.38	3.6 Q	0.2 Q	0.81 Q	0.47 Q	2 Q	2.9 Q
	11/26/2007		0.034 Q	0.04 Q	0.011 Q	< 0.0093	0.03 Q	0.065	0.074	0.059 Q	0.047 Q	0.061 Q	0.077	< 0.022	0.18	0.016 Q	0.039 Q	0.049	0.092	0.14
	2/26/2008		0.13	0.15	0.034 Q	0.032 Q	0.15	0.4	0.39	0.31	0.28	0.38	0.5	0.059 Q	1	0.06 Q	0.21	0.093 Q	0.52	0.86
	5/21/2008		0.025 Q	0.032 Q	< 0.0078	< 0.005	0.018 Q	0.05	0.043	0.041 Q	0.037 Q	0.039 Q	0.055	0.0068 Q	0.14	0.015 Q	0.027 Q	0.022 Q	0.078	0.12
	8/21/2008		0.035 Q	0.038 Q	0.013 Q	0.006 Q	0.027 Q	0.066	0.064	0.054	0.042 Q	0.051	0.063	0.0092 Q	0.17	0.016 Q	0.033 Q	0.028 Q	0.09	0.12
	8/21/2008	low-flow	0.013 Q	0.019 Q	< 0.0078	0.0074 Q	< 0.0065	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 0.0053	< 0.0063	< 0.0036	0.04 Q	< 0.0075	< 0.0068
QC01	10/26/2005		0.052	0.053	< 0.01	< 0.01	< 0.014	0.034 Q	0.036 Q	0.032 Q	0.03 Q	0.024 Q	0.036 Q	< 0.023	0.07	< 0.011	< 0.023	0.04 Q	0.045 Q	0.072
(P02)	2/27/2007		< 0.011 Q	0.015 Q	< 0.0085 Q	0.0098 Q	0.033 Q	0.054	0.06 Q	0.042 Q	0.037 Q	0.052 Q	0.058 Q	< 0.02	0.14 Q	0.013 Q	0.029 Q	0.017 Q	0.069 Q	0.13 Q
(W03R)	11/26/2007		23	12	< 0.94	< 0.93	< 1.3	< 1.8	< 2.1	< 1.8 Q	< 2.2	< 2.2 Q	< 2.2	< 2.2	< 1.8	1.4 Q	< 2.2	8	2 Q	< 1.7
(P01CR)	2/27/2008		0.71	0.055 Q	1.5	0.25	0.4	0.052 Q	0.03 Q	0.028 Q	0.017 Q	0.033 Q	0.053 Q	< 0.011	0.44	0.15	< 0.009	0.31	0.45	0.65
(W02)	5/21/2008		0.051	0.055	0.51	0.045 Q	0.3	0.78	0.67	0.55	0.45	0.58	0.66	0.15	1.9	0.17	0.41	0.1	0.47	1.8
(W04)	8/20/2008		27.1	15.6	0.99 Q	< 0.5	< 0.65	< 0.35	< 0.54	< 0.51	< 0.62	< 0.78	< 0.7	< 0.43	< 0.53	1.7 Q	< 0.36	9.8	2.1 Q	< 0.68
(P01CR)	8/20/2008	low-flow	0.024 Q	0.047	< 0.0078	< 0.005	< 0.0065	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 0.0053	< 0.0063	< 0.0036	0.21	< 0.0075	< 0.0068
W01	10/26/2005																			
	2/17/2006																			
	9/22/2006																			
W02	10/26/2005																			
	2/17/2006																			
	2/28/2007		1.2 Q	0.081 Q	1.3 Q	0.12 Q	0.26 Q	0.11	0.085	0.074 Q	0.042 Q	0.068 Q	0.08	< 0.019	0.41 Q	0.36 Q	0.036 Q	0.31 Q	0.43 Q	0.76 Q
	11/26/2007		0.81 Q	< 0.059	1.2 Q	0.17 Q	0.21 Q	< 0.083 Q	< 0.097 Q	< 0.083 Q	< 0.1 Q	< 0.1 Q	< 0.1 Q	< 0.1	0.33 Q	0.12 Q	< 0.1 Q	0.28 Q	0.39 Q	0.45 Q
	2/27/2008		0.6	< 0.053	1.4	0.24	0.37	0.046 Q	0.028 Q	0.028 Q	< 0.031	< 0.039	0.047 Q	< 0.022	0.4	0.16 Q	< 0.018	0.26	0.45	0.59
	5/21/2008		0.4	0.059 Q	1.2	0.066 Q	0.34	0.049 Q	0.024 Q	0.025 Q	< 0.025	< 0.031	0.033 Q	< 0.017	0.35	0.029 Q	< 0.014	0.16 Q	0.32	0.57
	8/20/2008	low-flow	0.75 Q	0.05	1.4 Q	0.053	0.4 Q	0.092 Q	0.056 Q	0.055 Q	0.027 Q	0.041 Q	0.057 Q	0.0069 Q	0.34 Q	0.028 Q	0.02 Q	0.17	0.33 Q	0.76 Q



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Sample ID	Collection Date	All PAH analytical results in µg/L	1-Methyl naphthalene	2-Methyl naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Wisconsin Groundwater Quality Standards (NR 140, January 2007)																				
<i>Preventive Action Limit</i>			NS	NS	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	10	NS	50
Enforcement Standard			NS	NS	NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	100	NS	250
W03R	10/26/2005		0.02 Q	0.028 Q	0.016 Q	0.013 Q	0.041	0.079	<u>0.077</u>	<u>0.064 Q</u>	0.053 Q	0.06 Q	<u>0.08</u>	< 0.02	0.15	0.032 Q	0.046 Q	0.044	0.098	0.17
	2/27/2007		0.027 Q	0.028 Q	0.01 Q	0.01 Q	0.037 Q	0.058	<u>0.062</u>	<u>0.053 Q</u>	0.039 Q	0.049 Q	<u>0.059 Q</u>	< 0.019	0.15 Q	0.016 Q	0.029 Q	0.031 Q	0.075 Q	0.14 Q
	11/26/2007		< 0.011	< 0.012	< 0.0086	< 0.0086	0.012 Q	< 0.017	< 0.019	< 0.017 Q	< 0.02	< 0.02 Q	< 0.02	< 0.02	0.027 Q	< 0.0096	< 0.02	< 0.013	0.013 Q	0.026 Q
	2/27/2008		< 0.0095	< 0.011	< 0.0078	< 0.005	0.012 Q	0.013 Q	0.012 Q	0.0099 Q	0.0092 Q	0.012 Q	0.019 Q	< 0.0043	0.044 Q	< 0.0063	0.0071 Q	< 0.016	0.022 Q	0.042 Q
	5/21/2008		< 0.0096	< 0.011	< 0.0079	< 0.005	0.0093 Q	0.011 Q	0.0069 Q	0.0075 Q	< 0.0063	< 0.0078	0.012 Q	< 0.0043	0.036 Q	< 0.0063	0.0044 Q	< 0.017	0.018 Q	0.044 Q
	8/20/2008		< 0.0095	< 0.011	< 0.0078	< 0.005	0.0097 Q	0.009 Q	0.0088 Q	0.0069 Q	0.0063 Q	0.0089 Q	0.01 Q	< 0.0043	0.032 Q	< 0.0063	< 0.0036	< 0.016	0.012 Q	0.029 Q
	8/20/2008	low-flow	0.013 Q	< 0.011	< 0.0078	0.0063 Q	0.0091 Q	0.008 Q	0.0062 Q	0.0083 Q	0.0077 Q	0.0097 Q	0.0099 Q	0.0057 Q	0.0099 Q	0.008 Q	0.0061 Q	0.016 Q	0.012 Q	0.012 Q
W04	10/26/2005		< 0.021	< 0.024	0.55	< 0.017	0.081 Q	0.16	<u>0.17</u>	<u>0.13 Q</u>	0.12 Q	0.13 Q	<u>0.16</u>	< 0.04	0.43	0.043 Q	0.095 Q	< 0.026	0.11	0.41
	2/28/2007		0.062 Q	0.078 Q	0.62 Q	0.043 Q	0.21 Q	0.45	<u>0.44</u>	<u>0.4 Q</u>	0.29	0.31 Q	<u>0.38</u>	0.069	1.3 Q	0.14 Q	0.23	0.1 Q	0.37 Q	1.1 Q
	11/26/2007		0.093	0.11	1.1 Q	0.09	0.8 Q	1.6 Q	<u>1.8 Q</u>	<u>1.3 Q</u>	1 Q	1.4 Q	<u>1.8 Q</u>	0.23	4.7 Q	0.25	0.87 Q	0.14	1.5 Q	3.8 Q
	2/26/2008		< 0.19	< 0.21	0.99	< 0.099	0.82 Q	1.6	<u>1.7</u>	<u>1.1</u>	1.1	1.6	<u>2</u>	0.22 Q	5.2	0.44 Q	0.83 Q	< 0.33 Q	1.2	4.3
	5/21/2008		0.016 Q	0.018 Q	0.46	0.014 Q	0.08	0.23	<u>0.19</u>	<u>0.17</u>	0.13	0.13	<u>0.18</u>	0.031 Q	0.54	0.051	0.1	0.036 Q	0.15	0.53
	8/21/2008		< 0.19	< 0.21	0.72 Q	< 0.099	0.69 Q	1.2	<u>1.6</u>	<u>0.95</u>	1	1.5	<u>1.6</u>	0.19 Q	4.9	0.3 Q	0.76 Q	< 0.33	1.1	3.5
	8/21/2008	low-flow	< 0.0096	< 0.011	0.31	0.006 Q	0.013 Q	< 0.0035	< 0.0055	< 0.0052	< 0.0063	< 0.0078	< 0.0071	< 0.0043	0.059	< 0.0063	< 0.0036	< 0.017	< 0.0075	0.035 Q
W05	10/26/2005		0.019 Q	0.018 Q	0.21	< 0.0086	0.018 Q	0.017 Q	< 0.019	< 0.017 Q	< 0.02	< 0.02 Q	< 0.02	< 0.02	0.028 Q	0.052	< 0.02	0.025 Q	0.023 Q	0.034 Q
	2/28/2007		0.041 Q	0.051 Q	0.75 Q	0.026 Q	0.052 Q	0.058	<u>0.07</u>	<u>0.059 Q</u>	0.047 Q	0.047 Q	<u>0.057 Q</u>	< 0.019	0.17 Q	0.16 Q	0.035 Q	0.048 Q	0.084 Q	0.14 Q
	11/26/2007		< 0.011	< 0.012	0.73 Q	0.012 Q	0.039 Q	< 0.017	< 0.019	< 0.017 Q	< 0.02	< 0.02 Q	< 0.02	< 0.02	0.057	0.13	< 0.02	< 0.013	0.016 Q	0.038 Q
	2/26/2008		< 0.01	< 0.011	0.33	0.014 Q	0.042 Q	0.049 Q	<u>0.052</u>	<u>0.035 Q</u>	0.033 Q	0.048 Q	<u>0.059</u>	0.0068 Q	0.16	0.083	0.026 Q	< 0.017	0.051	0.13
	5/21/2008		0.021 Q	0.023 Q	0.82	0.017 Q	0.055	0.031 Q	<u>0.025</u>	0.019 Q	0.019 Q	0.021 Q	<u>0.025 Q</u>	< 0.0043	0.15	0.2	0.013 Q	0.023 Q	0.043 Q	0.14
	8/21/2008		0.013 Q	0.011 Q	1.1	0.026 Q	0.072	0.026 Q	<u>0.025</u>	<u>0.02 Q</u>	0.019 Q	0.023 Q	<u>0.023 Q</u>	< 0.0043	0.15	0.18	0.014 Q	0.027 Q	0.035 Q	0.099
	8/21/2008	low-flow	< 0.0096	< 0.011	0.89	0.016 Q	0.056	< 0.0035	< 0.0055	< 0.0052	< 0.0063	< 0.0078	< 0.0071	< 0.0043	0.058	0.16	< 0.0036	0.022 Q	0.01 Q	0.032 Q
W06	10/26/2005		0.076	0.063	0.19	0.017 Q	0.079	0.14	<u>0.12</u>	<u>0.089 Q</u>	0.084	0.087 Q	<u>0.13</u>	0.024 Q	0.21	0.041	0.068	0.072	0.25	0.22
	2/27/2007		0.04 Q	0.052 Q	0.19 Q	0.019 Q	0.12 Q	0.2	<u>0.22</u>	<u>0.16 Q</u>	0.14	0.15 Q	<u>0.18</u>	0.032 Q	0.46 Q	0.034 Q	0.1	0.044 Q	0.26 Q	0.47 Q
	11/26/2007		0.021 Q	0.025 Q	0.11	0.0099 Q	0.065	0.07	<u>0.075</u>	<u>0.054 Q</u>	0.05 Q	0.059 Q	<u>0.077</u>	< 0.023	0.19	0.02 Q	0.037 Q	0.024 Q	0.1	0.17
	2/27/2008		< 0.0096	< 0.011	0.066	< 0.005	0.0088 Q	0.0054 Q	< 0.0055	< 0.0052	< 0.0063	< 0.0078	0.0082 Q	< 0.0043	0.025 Q	< 0.0063	< 0.0036	< 0.017	0.013 Q	0.024 Q
	5/21/2008		0.02 Q	0.026 Q	0.12	0.0075 Q	0.052	0.071	<u>0.059</u>	<u>0.044 Q</u>	0.044 Q	0.043 Q	<u>0.063</u>	0.009 Q	0.18	0.017 Q	0.029 Q	0.024 Q	0.099	0.21
	8/20/2008		0.013 Q	0.012 Q	0.086	0.0052 Q	0.028 Q	0.029 Q	<u>0.028</u>	<u>0.02 Q</u>	0.021 Q	0.025 Q	<u>0.028 Q</u>	0.0047 Q	0.099	0.0076 Q	0.014 Q	0.018 Q	0.045 Q	0.081
	8/20/2008	low-flow	< 0.0097	< 0.011	0.044 Q	< 0.0051	0.0076 Q	< 0.0035	< 0.0055	< 0.0052	< 0.0064	< 0.0079	< 0.0071	< 0.0044	0.0077 Q	< 0.0064	< 0.0037	< 0.017	< 0.0076	< 0.0069

Table 4. Groundwater Laboratory Analytical Results - Polynuclear Aromatic Hydrocarbons (PAH)



Site Closure
 Project # 1609 We Energies-Valley Power Plant
 1035 W. Canal Street, Milwaukee, Wisconsin
 BRRTS# : 0241001055

FID# : 241007800

Sample ID	Collection Date	All PAH analytical results in µg/L.	1-Methyl naphthalene	2-Methyl naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Wisconsin Groundwater Quality Standards (NR 140, January 2007)																				
<i>Preventive Action Limit</i>			NS	NS	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	10	NS	50
Enforcement Standard			NS	NS	NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	100	NS	250
W07																				
	10/26/2005		0.024 Q	0.025 Q	< 0.0086	< 0.0086	< 0.012	< 0.017	< 0.019	< 0.017 Q	< 0.02	< 0.02 Q	< 0.02	< 0.02	0.02 Q	< 0.0096	< 0.02	0.022 Q	0.02 Q	0.02 Q
	2/28/2007		0.011 Q	0.017 Q	< 0.0082 Q	< 0.0081 Q	0.024 Q	0.052	<u>0.058 Q</u>	<u>0.048 Q</u>	0.039 Q	0.044 Q	<u>0.051 Q</u>	< 0.019	0.14 Q	< 0.0091 Q	0.032 Q	0.016 Q	0.069 Q	0.12 Q
	11/26/2007		< 0.011	< 0.012	< 0.0086	< 0.0086	< 0.012	< 0.017	< 0.019	< 0.017 Q	< 0.02	< 0.02 Q	< 0.02	< 0.02	0.025 Q	< 0.0096	< 0.02	< 0.013	0.014 Q	0.02 Q
	2/26/2008		< 0.0095	< 0.011	< 0.0078	< 0.005	0.025 Q	0.054	<u>0.049</u>	<u>0.037 Q</u>	0.035 Q	0.045 Q	<u>0.061</u>	0.0062 Q	0.17	< 0.0063	0.025 Q	< 0.016	0.046 Q	0.13
	5/21/2008		< 0.0095	< 0.011	< 0.0078	< 0.005	0.0085 Q	0.0098 Q	< 0.0054	0.0085 Q	0.0081 Q	0.0081 Q	0.013 Q	< 0.0043	0.02 Q	< 0.0063	0.0054 Q	< 0.016	0.01 Q	0.016 Q
	8/21/2008		< 0.0095	< 0.011	< 0.0078	< 0.005	0.0091 Q	0.011 Q	0.011 Q	0.009 Q	0.0077 Q	0.0092 Q	0.0096 Q	< 0.0043	0.028 Q	< 0.0063	0.0059 Q	< 0.016	0.012 Q	0.022 Q
	8/21/2008	low-flow	< 0.0095	< 0.011	< 0.0078	< 0.005	0.0083 Q	< 0.0035	< 0.0054	< 0.0051	< 0.0062	< 0.0078	< 0.007	< 0.0043	< 0.0053	< 0.0063	< 0.0036	0.017 Q	< 0.0075	< 0.0068
W08																				
	10/26/2005		0.016 Q	0.015 Q	0.05	0.015 Q	0.028 Q	0.061	<u>0.049 Q</u>	<u>0.036 Q</u>	0.028 Q	0.037 Q	<u>0.054 Q</u>	< 0.02	0.088	0.01 Q	0.022 Q	0.028 Q	0.071	0.11
	2/27/2007		0.048 Q	0.065 Q	0.14 Q	< 0.0089 Q	0.075 Q	0.024 Q	<u>0.026 Q</u>	0.018 Q	0.022 Q	< 0.021 Q	<u>0.023 Q</u>	< 0.021	0.098 Q	0.016 Q	< 0.021	0.037 Q	0.046 Q	0.085 Q
	11/26/2007		< 0.058	< 0.064	1.5	< 0.046	0.1 Q	< 0.089	< 0.1	< 0.089 Q	< 0.11	< 0.11 Q	< 0.11	< 0.11	0.22 Q	< 0.052	< 0.11	< 0.071	0.14 Q	0.18 Q
	2/26/2008		< 0.077	< 0.086	1.5	< 0.04	< 0.053	< 0.028	< 0.044	< 0.042	< 0.05	< 0.063	< 0.056	< 0.035	0.071 Q	< 0.051	< 0.029	< 0.13	< 0.06	< 0.055
	5/21/2008		< 0.04	< 0.044	1.6	< 0.021	0.056 Q	< 0.014	< 0.022	< 0.021	< 0.026	< 0.032	< 0.029	< 0.018	0.087 Q	0.03 Q	< 0.015	< 0.068	< 0.031	0.082 Q
	8/21/2008		< 0.095	< 0.11	3.5	< 0.05	0.082 Q	< 0.035	< 0.054	< 0.051	< 0.062	< 0.078	< 0.07	< 0.043	0.14 Q	< 0.063	< 0.036	< 0.16	< 0.075	0.1 Q
	8/21/2008	low-flow	0.029 Q	0.026 Q	1.2	0.024 Q	0.1	< 0.0035	< 0.0055	< 0.0052	< 0.0063	< 0.0078	< 0.0071	< 0.0043	0.11	0.019 Q	< 0.0036	0.028 Q	0.025 Q	0.075
W09																				
	11/26/2007		100 Q	< 1.3	13	5.1	7.4	2.7 Q	<u>2.3 Q</u>	< 1.8 Q	< 2.2	< 2.2 Q	<u>3.1 Q</u>	< 2.1	7.8	27	< 2.1	4.9	34	13
	2/27/2008		82.1	< 1.1	13.3	5.7	5.9	2 Q	<u>1.7 Q</u>	<u>1 Q</u>	1 Q	1.3 Q	<u>2.8 Q</u>	< 0.43	6.4	27.4	0.61 Q	3.4 Q	19.6	10.7
	5/21/2008		55.8	< 1.1	7	< 0.5	2.1 Q	1.1 Q	<u>0.67 Q</u>	<u>0.57 Q</u>	0.62 Q	< 0.78	<u>0.89 Q</u>	< 0.43	2.4 Q	14	< 0.36	< 1.6	9.4	4.8
	8/20/2008		31.8	< 1.1	8	0.59 Q	3.8 Q	1.2 Q	<u>1.1 Q</u>	<u>0.79 Q</u>	1.1 Q	0.87 Q	<u>1.4 Q</u>	< 0.43	4.1 Q	15.9	< 0.36	< 1.6	5.7	5.5
	8/20/2008	low-flow	24.4	0.047	3.6 Q	0.042 Q	0.38	0.028 Q	0.013 Q	0.0096 Q	0.0075 Q	0.008 Q	<u>0.023 Q</u>	< 0.0043	0.18	5.8	0.0046 Q	0.37	2.5 Q	0.29

Notes

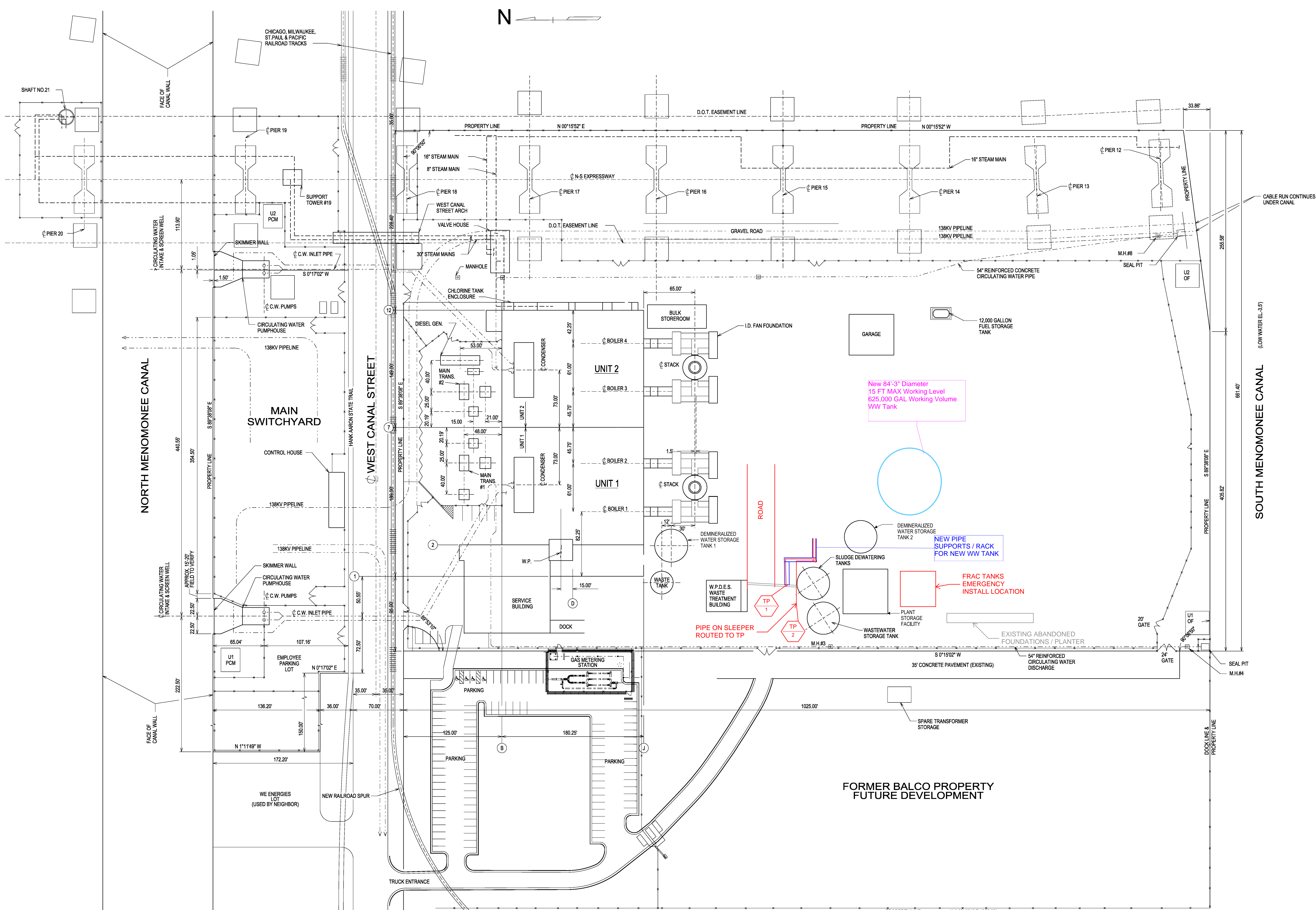
- 1) Parameters that attain or exceed the NR 140 Wisconsin Groundwater Quality Preventive Action Limit (PAL) Standard are identified in italics and underlined.
- 2) Parameters that attain or exceed the NR 140 Wisconsin Groundwater Quality Enforcement Standard (ES) are identified in bold and underlined.

<2.0 : Parameter not detected above the Limit of Detection indicated.
 NS : NR 140 Wisconsin Groundwater Quality Standard has not been established for this parameter.
 TB : Trip Blank for QA/QC.
 QC: Quality Control duplicate sample.
 Q: Analyte result has been qualified, see laboratory analytical report for additional information.
 --: Analysis not performed.

Attachments

REFERENCE DRAWINGS

REFERENCE DRAWINGS	MICROFILM NO.	WEPCO NO.	REFERENCE DRAWINGS	MICROFILM NO.	WEPCO NO.
LOT PLAN	71966	VPP31S10004001	SLUDGE DEWATERING TANKS	146318	VPP31S120001035
SERVICE BLDG. ADDITION	184423	VPP31S10006010	UNDERGROUND YARD LINES	77865	VPP31MEL420001
CONTROL HSE. FOR 138KV EQUIP.	167559	TD-8809-F-53	SWITCHYARD FOUNDATIONS	233654	VL003SANL030001
138KV PIPELINE	205892	ED-83-4056-H	BASELINE & BENCHMARK LOCATIONS	68099	VPP31S100060004
30" STEAM MAINS	208665	SSD513M00100400	I.D. FAN FOUNDATIONS	119623	VPP31S010026002
FUEL OIL STORAGE TANK & PIPING	243394	VPP31MFL165001	16" STEAM MAIN	283059	SSD52W00100500
CIRCULATING WATER PIPING	71509	VPP31M080003006	NEW SURVIFY		
SQ2 TANK FOUNDATION	185547	VPP31S080031005	CONSTRUCTION DETAILS	549484	VPP31S010003000
YARD PAVING PLAN	71502	VPP31S080029002	PAVEMENT REPLACEMENT OVERVIEW	066713	VPP31S100060002
18,000 GAL. PROPANE TANK	247232	VPP31MBG2460006			
YARD GARAGE FOUNDATIONS	81911	VPP31S070020001			
DOCKING FACILITY	182729	VPP30M000000127			
TRUCK VESTIBULE	120023	VPP30S001015001			
SEAL PIT & BULKHEAD	66716	VPP31S080003001			
54" CIRC. WATER DISCHARGE PIPE	66535	VPP30M080003003			
CONSTR. TRAILER PARKING LOT	226004	VPP31S080028001			



REF FILES

RELATED DRAWINGS

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AS-BUILT
APR 06 2018
PRINT

REV	DATE	INT. ORDER NO.	REVISION DESCRIPTION	DESIGNED BY	CHECKED BY	APPROVED BY	DATE	INT. ORDER NO.	REVISION DESCRIPTION
C	08-14-23		PRELIMINARY FOR PAR DEVELOPMENT - REVISED NEW TANK SIZE						
B	08-31-23		PRELIMINARY FOR PAR DEVELOPMENT - REVISED NEW TANK LOCATION						
A	04-14-23		PRELIMINARY FOR PAR DEVELOPMENT						
ZZ	04-06-18		AS-BUILT - SITE PLAN UPDATE	Q107010016	CS3488	C135542	E53338	18	10-07-83

REV	DATE	INT. ORDER NO.	REVISION DESCRIPTION	DESIGNED BY	CHECKED BY	APPROVED BY	DATE	INT. ORDER NO.	REVISION DESCRIPTION
21	04-12-13		AS-BUILT - ADDED WASTE TANK						
20	02-22-11	1200370	AS-BUILT - PARKING LOT ADDITION & OVERALL SITE UPDATE						
19	05-08-09		PAVEMENT REPLACEMENT	5266840	RCM	RCM	TD		
18	08-09-06		UPDATED SITE PLAN SHOWING BALCO LOT	X4388	W5709	W5709			
17	07-20-04		ADDED DIMENSIONS FROM PLANT TO FABRIC FILTERS	5069	JLC	JLC	MAB		
16	10-07-83		REDRAWN & UPDATED	3741	JLC	TPT	FRM		

DOCUMENT NO. **66713**

VENDOR No. 31-FY-2-A

DRAWN DATE INT. ORDER NO. FILE NAME: 66713.dgn

CHECKED DATE WO.NO. APPROVED DATE SCALE 1" = 50'-0"

WE Energies
231 W. Mendenhall St.
Madison, WI 53703

GENERAL SITE PLAN
PROPERTY LAYOUT

VALLEY POWER PLANT

2021-226-ME-SK-004

REV C



[Click Here](#)

[Drag and Drop Image File](#)

[Click Photo > Format Tab > Size Group > Shape Height > Down Arrow](#)

Photo 1: Site Location



[Click Here](#)

[Drag and Drop Image File](#)

[Click Photo > Format Tab > Size Group > Shape Height > Down Arrow](#)

Photo 2: Site Location



Photo Log
Valley Power Plant
December 17, 2023



Photo 3: Site Location

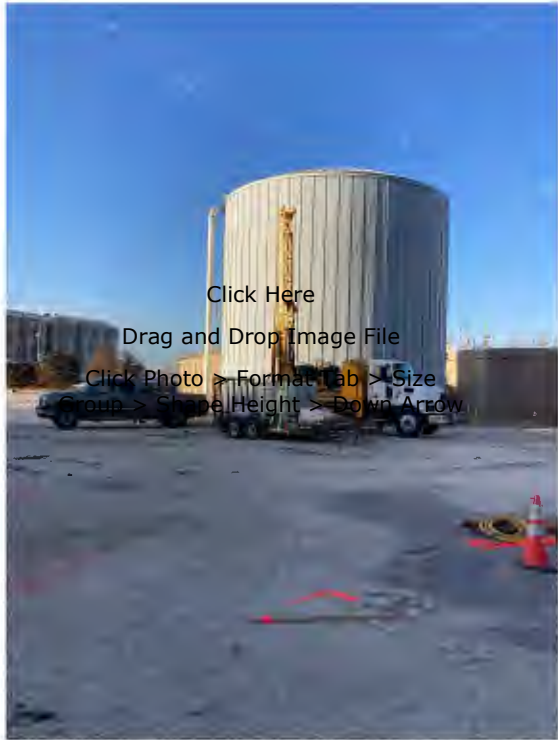


Photo 4: Site Location

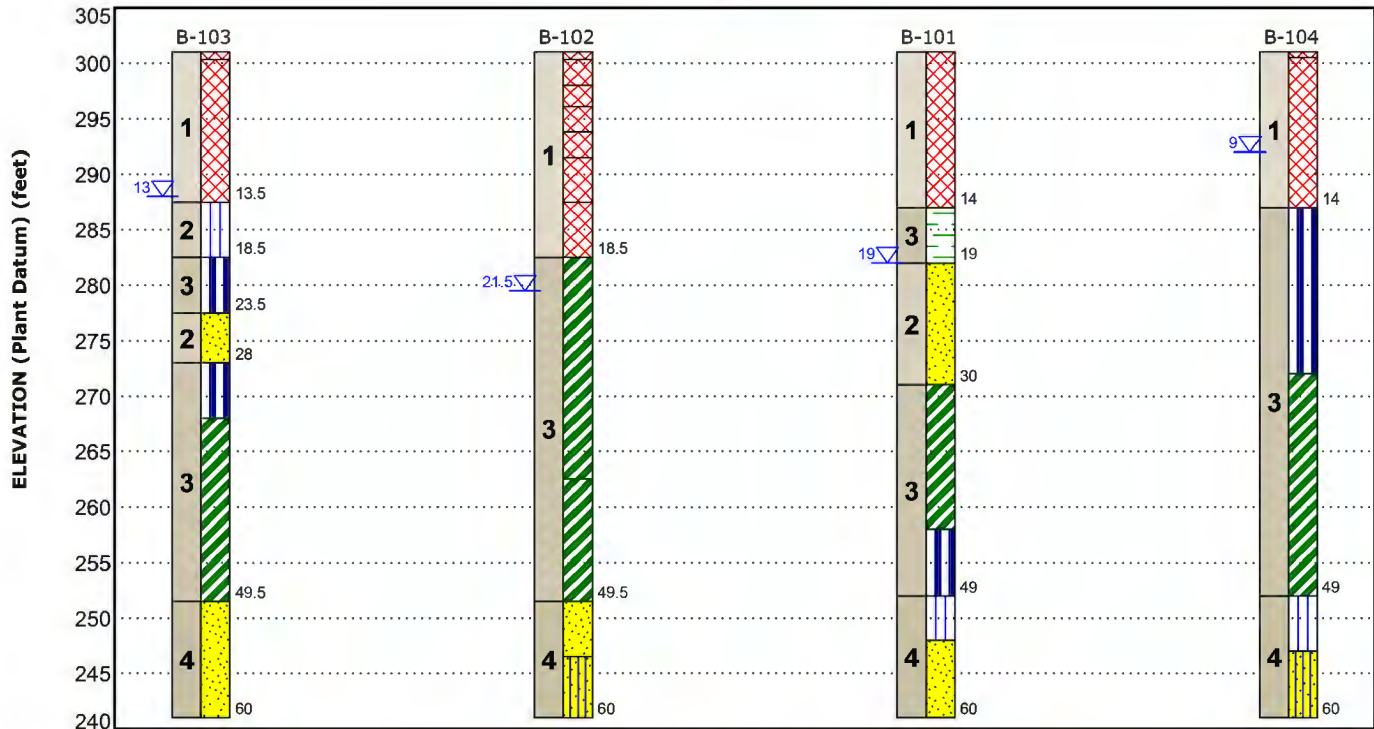


Photo Log
Valley Power Plant
December 17, 2023



Photo 5: Site Location

GeoModel



This is not a cross section. This is intended to display the Geotechnical Model only. See individual logs for more detailed conditions.

Model Layer	Layer Name	General Description	Legend	
1	Existing Fill	Fill material consisting of crushed concrete, silty sand, rubble, wood and trace amounts of coal.	Fill	Organic Silt
2	Upper Native Granular Soil	Native silty sand with trace amounts of organics and shells.	Poorly-graded Sand	Fat Clay
3	Elastic Silt and Fat Clay	Elastic Silt and Fat clay with organics	Elastic Silt	Silt
4	Native Non-Cohesive Soil	Silt, sandy silt, and silty sand with varying gravel and clay contents.	Silty Sand	
5	Native Cohesive Soils	Lean clay with trace sand and gravel.		

First Water Observation

NOTES:

Layering shown on this figure has been developed by the geotechnical engineer for purposes of modeling the subsurface conditions as required for the subsequent geotechnical engineering for this project. Numbers adjacent to soil column indicate depth below ground surface.

Groundwater levels are temporal. The levels shown are representative of the date and time of our exploration. Significant changes are possible over time.

Water levels shown are as measured during and/or after drilling. In some cases, boring advancement methods mask the presence/absence of groundwater. See individual logs for details.

Boring Log No. B-101

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 43.0296° Longitude: -87.9242° Depth (Ft.)	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (%)	Field Test Results	HP (tsf)	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	
											LL-PL-PI	Organic Content (%)
1	FILL - LEAN CLAY, with sand, gravel, ash, and coal, brown Possible rubble and debris	14.0	5		8		4-8-9 N=17	2.0 (HP)	16.3	85	53-25-28	5.3
			5		17		4-12-9 N=21		16.0			
			5		19		3-9-7 N=16		14.0			
			10		5		50/1"		15.9			
			15		0		4-3-3 N=6					
3	ORGANIC SILT (OL), trace shells, gray, moist	19.0										
2	POORLY GRADED SAND (SP), trace silt and shells, fine grained, gray, moist to wet, very loose to loose	30.0	20	▽	15		2-4-5 N=9		45.3	85	53-25-28	5.3
			25		18		2-2-1 N=3		30.7			
			30		24				32.3			
3	FAT CLAY (CH), trace silt and shells, gray, stiff	43.0	35		3							
			40		17		2-2-3 N=5	1.25 (HP)	55.0			

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).
 See [Supporting Information](#) for explanation of symbols and abbreviations.

Water Level Observations
 ▽ While drilling

Drill Rig
 B-29

Hammer Type
 Automatic

Driller
 Terracon

Notes

Advancement Method
 3 1/4" HSA

Logged by

Abandonment Method
 Boring backfilled with Auger Cuttings and/or Bentonite

Boring Started
 03-11-2024

Boring Completed
 03-11-2024

Boring Log No. B-101

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 43.0296° Longitude: -87.9242° Depth (Ft.)	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (%)	Field Test Results	HP (tsf)	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	
											LL-PL-PI	Organic Content (%)
3		ELASTIC SILT (MH) , with clay, trace shells, gray, stiff 49.0	45			24					88-41-47	
4		SILT (ML) , trace sand and clay, gray, wet, loose 53.0	50	X		18	2-4-3 N=7		32.9			
		POORLY GRADED SAND (SP) , trace silt, fine to medium grained, gray, wet, very loose 60.0	55	X		18	0-1-1 N=2		25.1			
		Boring Terminated at 60 Feet	60	X		13	0-0-1 N=1		23.7			

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).
 See [Supporting Information](#) for explanation of symbols and abbreviations.

Water Level Observations
 While drilling

Drill Rig
B-29

Hammer Type
Automatic

Driller
Terracon

Notes

Advancement Method
3 1/4" HSA

Logged by

Abandonment Method
Boring backfilled with Auger Cuttings and/or Bentonite

Boring Started
03-11-2024

Boring Completed
03-11-2024

Boring Log No. B-102

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 43.0295° Longitude: -87.9242°	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (%)	Field Test Results	HP (tsf)	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	
											LL-PL-PI	Organic Content (%)
1	0.7	FILL - CRUSHED STONE , (8" Thick)										
	3.0	FILL - LEAN CLAY , with sand and gravel, brown		X	12		5-7-6 N=13	4.25 (HP)	15.9			
	4.9	FILL - ASH , fine to medium grained, black, moist		X	10		8-9-11 N=20		9.0			
	7.2	FILL - SANDY SILT , trace ash, gray, moist		X	14		6-7-33 N=40		17.8			
	9.5	FILL - SILTY SAND , trace clay, fine grained, gray, medium dense		X	14		8-6-11 N=17		17.8			
	13.5	FILL - SANDY SILT , trace clay and gravel, gray		X	4		11-6-5 N=11		16.1			
	18.5	FAT CLAY (CH) , with silt, trace shells, gray, very stiff		X	18		4-2-3 N=5	2.25 (HP)	73.9			
3	25		▽		24				46.9	68	54-28-26	3.9
	30			X	18		3-2-3 N=5	2.0 (HP)	79.5			
	35			X	18		2-2-2 N=4	1.0 (HP)	54.2			
38.5	FAT CLAY (CH) , trace silt, sand, and shells, gray, stiff		X	18		2-2-2 N=4	1.0 (HP)	54.2				

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).
 See [Supporting Information](#) for explanation of symbols and abbreviations.

Water Level Observations
 ▽ While drilling

Drill Rig
 D-50

Hammer Type
 Automatic

Driller
 Terracon

Notes

Advancement Method
 3 1/4" HSA

Logged by

Abandonment Method
 Boring backfilled with Auger Cuttings and/or Bentonite

Boring Started
 03-11-2024

Boring Completed
 03-11-2024

Boring Log No. B-102

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 43.0295° Longitude: -87.9242° Depth (Ft.)	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (%)	Field Test Results	HP (tsf)	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	
											LL-PL-PI	Organic Content (%)
3		FAT CLAY (CH) , trace silt, sand, and shells, gray, stiff <i>(continued)</i> 49.5	45		X	18	3-2-3 N=5	1.0 (HP)	45.8			
			50		X	18	2-3-2 N=5		24.4			
4		POORLY GRADED SAND (SP) , trace silt and shells, fine to medium grained, gray, wet, loose 54.5	55		X	18	1-1-3 N=4		24.4			
			60.0		X	18	2-2-5 N=7		20.9			
Boring Terminated at 60 Feet			60									

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).
 See [Supporting Information](#) for explanation of symbols and abbreviations.

Water Level Observations
 While drilling

Drill Rig
D-50

Hammer Type
Automatic

Driller
Terracon

Notes

Advancement Method
3 1/4" HSA


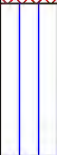

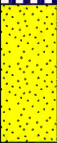


Logged by

Abandonment Method
Boring backfilled with Auger Cuttings and/or Bentonite


Boring Started
03-11-2024

Boring Completed
03-11-2024

Boring Log No. B-103

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 43.0294° Longitude: -87.9243° Depth (Ft.)	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (%)	Field Test Results	HP (tsf)	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits		
											LL-PL-PI	Organic Content (%)	
1		0.7	FILL - CRUSHED STONE, (8" Thick)										
			FILL - LEAN CLAY, with sand and gravel										
				5		X	13		5-7-7 N=14		15.7		
					X	18		4-5-6 N=11	4.5+ (HP)	14.8			
					X	8		18-11-8 N=19	3.5 (HP)	16.6			
2		13.5	SILT (ML), with sand, trace wood, black, wet, loose										
				15	X	10		5-4-3 N=7		34.0			
3		18.5	ELASTIC SILT (MH), with clay, trace shells, black, stiff										
				X	15		4-2-2 N=4	1.0 (HP)	61.9				
2		23.5	POORLY GRADED SAND WITH CLAY (SP), trace silt and shell, medium to coarse grained, black and gray, wet, very loose										
				X	18		1-1-1 N=2		18.7				
3		28.0	ELASTIC SILT (MH), with clay, trace shells, gray, medium stiff										
				30		20				44.0	75	98-50-48	6.9
				X	18		2-2-2 N=4	1.0 (HP)	53.2				
3		33.0	FAT CLAY (CH), trace shells, gray, medium stiff										
				40		24						64-30-34	

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
 See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations
 While drilling

Drill Rig
 D-50

Hammer Type
 Automatic

Driller
 Terracon

Notes

Advancement Method
 3 1/4" HSA

Logged by

Abandonment Method
 Boring backfilled with Auger Cuttings and/or Bentonite

Boring Started
 03-11-2024

Boring Completed
 03-11-2024

Boring Log No. B-103

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 43.0294° Longitude: -87.9243° Depth (Ft.)	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (%)	Field Test Results	HP (tsf)	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	
											LL-PL-PI	Organic Content (%)
3		FAT CLAY (CH) , trace shells, gray, medium stiff <i>(continued)</i>	45		X	18	2-2-3 N=5	1.0 (HP)	46.5			
		49.5	50		X	18	2-1-1 N=2		21.6			
4		POORLY GRADED SAND (SP) , trace silt, fine to medium grained, gray, wet, very loose to medium dense	55		X	18	14-9-5 N=14		14.5			
		60.0	60		X	18	12-11-7 N=18		23.3			
Boring Terminated at 60 Feet												

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
 See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations

While drilling

Drill Rig
D-50

Hammer Type
Automatic

Driller
Terracon

Notes

Advancement Method

3 1/4" HSA

Logged by



Abandonment Method

Boring backfilled with Auger Cuttings and/or Bentonite

Boring Started
03-11-2024

Boring Completed
03-11-2024

Boring Log No. B-104

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 43.0294° Longitude: -87.9241°	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (%)	Field Test Results	HP (tsf)	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	
											LL-PL-PI	Organic Content (%)
1		Depth (Ft.) 0.5 - FILL - CRUSHED STONE , (6" Thick) FILL - LEAN CLAY , with sand and gravel, brown gravel seam at 8.5' 14.0										
			5	X	12		3-11-10 N=21	4.5+ (HP)	10.1			
				X	11		4-12-16 N=28		7.0			
				X	13		6-6-7 N=13	4.5+ (HP)	19.6			
			10	▽	15		17-7-3 N=10		44.4			
				X	14		2-1-3 N=4	1.0 (HP)	35.1			
				X	18		2-2-3 N=5	1.25 (HP)	40.8			
			25		10							
				X	18		2-2-3 N=5	1.0 (HP)	80.2			
				X	18		2-1-3 N=4	1.5 (HP)	49.1			
	X	18		3-1-2 N=3	1.25 (HP)	52.3						
3		29.0 FAT CLAY (CH) , trace silt, gray, stiff										

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).
 See [Supporting Information](#) for explanation of symbols and abbreviations.

Water Level Observations
 ▽ While drilling

Drill Rig
 D-50

Hammer Type
 Automatic

Driller
 Terracon

Notes

Advancement Method
 3 1/4" HSA

Logged by

Abandonment Method
 Boring backfilled with Auger Cuttings and/or Bentonite

Boring Started
 03-04-2024

Boring Completed
 03-04-2024

Boring Log No. B-104

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 43.0294° Longitude: -87.9241° Depth (Ft.)	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (%)	Field Test Results	HP (tsf)	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	
											LL-PL-PI	Organic Content (%)
3		FAT CLAY (CH) , trace silt, gray, stiff <i>(continued)</i>	45	X	18	2-2-2 N=4	1.0 (HP)	38.9				
		49.0 SILT (ML) , trace sand and clay, gray, moist, medium dense	50	X	17	4-5-4 N=9		20.4				
4		54.0 SILTY SAND (SM) , fine to medium grained, gray, wet, medium dense	55	X	18	2-6-10 N=16		24.9				
		60.0 Boring Terminated at 60 Feet	60	X	15	4-5-6 N=11		24.7				

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).
 See [Supporting Information](#) for explanation of symbols and abbreviations.

Water Level Observations

While drilling

Drill Rig
D-50

Hammer Type
Automatic

Driller
Terracon

Notes

Advancement Method
3 1/4" HSA

Abandonment Method
Boring backfilled with Auger Cuttings and/or Bentonite

Logged by

Boring Started
03-04-2024

Boring Completed
03-04-2024