

GIS Registry Disclaimer

This case was closed by the DNR prior to August 1, 2002, when DNR began adding approved cleanups with residual soil contamination into the GIS Registry. Certain documents that are currently required by ch. NR 726, Wis. Adm. Code may therefore not be included in this packet as they were unavailable at the time the original case was closed.

The information contained in this document was assembled by DNR from a previously closed case file, and added to the GIS Registry to provide the public with information on closed sites with residual soil and/or groundwater contamination remaining above applicable state standards.

GIS REGISTRY

Cover Sheet

March, 2010
(RR 5367)

Source Property Information

BRRTS #:

ACTIVITY NAME:

PROPERTY ADDRESS:

MUNICIPALITY:

PARCEL ID #:

CLOSURE DATE:

FID #:

DATCP #:

COMM #:

*WTM COORDINATES:

X: Y:

** Coordinates are in
WTM83, NAD83 (1991)*

WTM COORDINATES REPRESENT:

- Approximate Center Of Contaminant Source
- Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

Contaminated Media:

- Groundwater Contamination > ES (236)
- Contamination in ROW
- Off-Source Contamination
(note: for list of off-source properties see "Impacted Off-Source Property" form)
- Soil Contamination > *RCL or **SSRCL (232)
- Contamination in ROW
- Off-Source Contamination
(note: for list of off-source properties see "Impacted Off-Source Property" form)

Land Use Controls:

- N/A (Not Applicable)
- Soil: maintain industrial zoning (220)
(note: soil contamination concentrations between non-industrial and industrial levels)
- Structural Impediment (224)
- Site Specific Condition (228)
- Cover or Barrier (222)
(note: maintenance plan for groundwater or direct contact)
- Vapor Mitigation (226)
- Maintain Liability Exemption (230)
(note: local government unit or economic development corporation was directed to take a response action)

Monitoring Wells:

Are all monitoring wells properly abandoned per NR 141? (234)

- Yes No N/A

** Residual Contaminant Level
**Site Specific Residual Contaminant Level*

This Adobe Fillable form is intended to provide a list of information that is required for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request. The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

NOTICE: Completion of this form is mandatory for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing closure requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

BRRTS #: PARCEL ID #:
ACTIVITY NAME: WTM COORDINATES: X: Y:

CLOSURE DOCUMENTS (the Department adds these items to the final GIS packet for posting on the Registry)

- Closure Letter**
- Maintenance Plan** (if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.)
- Continuing Obligation Cover Letter** (for property owners affected by residual contamination and/or continuing obligations)
- Conditional Closure Letter**
- Certificate of Completion (COC)** (for VPLE sites)

SOURCE LEGAL DOCUMENTS

- Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.
Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).
Figure #: **Title:**
- Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

MAPS (meeting the visual aid requirements of s. NR 716.15(2)(h))

- Maps must be no larger than 11 x 17 inches unless the map is submitted electronically.
- Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.
Note: Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.
Figure #: 1 **Title: Site Location Map**
 - Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.
Figure #: **Title:**
 - Soil Contamination Contour Map:** For sites closing with residual soil contamination, this map is to show the location of all contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.
Figure #: **Title: Map of Contaminated Soil**

BRRTS #: 03-41-000531

ACTIVITY NAME: WEPCO - BLDG CONST HQ

MAPS (continued)

- Geologic Cross-Section Map:** A map showing the source location and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL). If groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES) when closure is requested, show the source location and vertical extent, water table and piezometric elevations, and locations and elevations of geologic units, bedrock and confining units, if any.

Figure #: 1 **Title: Geologic Cross Section**

Figure #: 2 **Title: Geologic Cross Section A-A**

- Groundwater Isoconcentration Map:** For sites closing with residual groundwater contamination, this map shows the horizontal extent of all groundwater contamination exceeding a ch. NR140 Preventive Action Limit (PAL) and an Enforcement Standard (ES). Indicate the direction and date of groundwater flow, based on the most recent sampling data.

Note: This is intended to show the total area of contaminated groundwater.

Figure #: **Title:**

- Groundwater Flow Direction Map:** A map that represents groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit 2 groundwater flow maps showing the maximum variation in flow direction.

Figure #: **Title:**

Figure #: **Title:**

TABLES (meeting the requirements of s. NR 716.15(2)(h)(3))

Tables must be no larger than 11 x 17 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

- Soil Analytical Table:** A table showing remaining soil contamination with analytical results and collection dates.
Note: This is one table of results for the contaminants of concern. Contaminants of concern are those that were found during the site investigation, that remain after remediation. It may be necessary to create a new table to meet this requirement.

Table #: 2 **Title: Soil Analytical Results**

- Groundwater Analytical Table:** Table(s) that show the most recent analytical results and collection dates, for all monitoring wells and any potable wells for which samples have been collected.

Table #: **Title:**

- Water Level Elevations:** Table(s) that show the previous four (at minimum) water level elevation measurements/dates from all monitoring wells. If present, free product is to be noted on the table.

Table #: **Title:**

IMPROPERLY ABANDONED MONITORING WELLS

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.

Note: If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.

- Not Applicable**

- Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.

Note: If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.

Figure #: **Title:**

- Well Construction Report:** Form 4440-113A for the applicable monitoring wells.

- Deed:** The most recent deed as well as legal descriptions for each property where a monitoring well was not properly abandoned.

- Notification Letter:** Copy of the notification letter to the affected property owner(s).

BRRTS #: 03-41-000531

ACTIVITY NAME: WEPCO - BLDG CONST HQ

NOTIFICATIONS

Source Property

Not Applicable

Letter To Current Source Property Owner: If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.

Return Receipt/Signature Confirmation: Written proof of date on which confirmation was received for notifying current source property owner.

Off-Source Property

Group the following information per individual property and label each group according to alphabetic listing on the "Impacted Off-Source Property" attachment.

Not Applicable

Letter To "Off-Source" Property Owners: Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.

Note: Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.

Number of "Off-Source" Letters:

Return Receipt/Signature Confirmation: Written proof of date on which confirmation was received for notifying any off-source property owner.

Deed of "Off-Source" Property: The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies)**. This does not apply to right-of-ways.

Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.

Letter To "Governmental Unit/Right-Of-Way" Owners: Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).

Number of "Governmental Unit/Right-Of-Way Owner" Letters:



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Regional Headquarters
2300 N. Dr. ML King Drive, PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8483
TDD 414-263-8713

September 29, 1999

Ms. Liz Stueck-Mullane
Wisconsin Electric
P O Box 2046
Milwaukee, WI 53201

Subject: Site Closure for Wisconsin Electric Construction Service Headquarters located at 418 S. Curtis, West Allis, WI FID 241282690, BRRTS: 03-41-000531.

Dear Ms. Stueck-Mullane:

This letter acknowledges the receipt of the Deed Restriction for the above-named site in your letter dated August 24, 1999. Based on the investigation and remedial documentation provided to the department, it appears that the above-named site is in compliance with the requirements of Chs. NR 700 to 724, Wis. Admin. Code, for the petroleum contamination at this site. Therefore, the department considers the case closed, having determined that no further action is necessary at the site at this time. However, the case may be reopened pursuant to S. NR 726.09, Wis. Admin. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment.

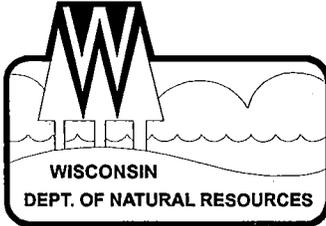
As referenced in M. McGee's letter dated January 27, 1999 continued efforts regarding Vinyl Chloride in the groundwater from an off-site source may result in an offsite liability exemption letter for this site. Please continue your efforts regarding this issue and notify this office of your decision.

The Department appreciates the actions you have taken to investigate and remediate the contamination at this site. If you have any questions or comments, please feel free to contact me at the above address or at (414) 263-8644. Please refer to the FID number at the top of this letter in any future correspondence. Future correspondence should be sent directly to the Remediation and Redevelopment programs assistant Brenda Brown (263-8680) at the above address.

Sincerely,

John J. Hnat
Hydrogeologist
Remediation and Redevelopment

C: Ken Yass, STS Consultants, Ltd.
WDNR SER Files



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Regional Headquarters
2300 N. Dr. ML King Drive, PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8483
TDD 414-263-8713

January 27, 1999

Ms. Liz Stueck-Mullane
Wisconsin Electric
P.O. Box 2046
Milwaukee, WI 53201

FID 241282690
BRRTS 0341000531

Subject: Closure request for Wisconsin Electric Construction Service Headquarters located at 418 S. Curtis Rd., West Allis, WI

Dear Ms. Stueck-Mullane:

The Department has reviewed your latest submittal, dated November 12, 1998, and any other relevant information regarding this site. The Department concurs with your consult and the Department of Commerce that no further action is necessary for the petroleum impacts at this site. The Department will require a deed restriction because there is soil contamination remaining on the property above the calculated site-specific RCLs and a cap is being used as a performance standard. Interim guidance on institutional controls may be found on the DNR's web site (<http://www.dnr.state.wi.us>) by searching "RR PDF Documents" or by calling the publication request line at (608)264-6009.

Please submit a draft deed restriction for approval by the Department's attorneys. After draft approval, the Department requests a copy of the official deed restriction with appropriate maps and/or tables of remaining soil contamination locations and concentrations. Please continue your efforts regarding the Vinyl Chloride in the groundwater. If the data supports an off-site source for the Vinyl Chloride, an off-site liability exemption letter may be requested.

For expedient processing, please send all future correspondence to the attention of RR Program Assistant at the above address.

If you have any questions regarding this letter, please contact me at the above address or at (414)263-8644.

Sincerely,

Michelle M. McGee
Hydrogeologist
Remediation and Redevelopment Program

cc: Ken Yass, STS Consultants, Ltd.
SER case file

REEL 4562 IMAGE 663
DEED RESTRICTION

Document Number

7740774

REGISTER'S OFFICE | SS
Milwaukee County, WI

RECORDED AT 9:39 AM

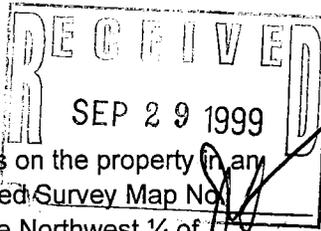
05-13-1999 663 TO

REEL 4562 IMAGE 665
INCL

WALTER R. BARCZAK
REGISTER OF DEEDS

AMOUNT 14.00

TAX KEY NO. 413-9999-030



Re: Petroleum Contaminated Soil that remains on the property in any area located within that part of Parcel 2, Certified Survey Map No. 3229 and being a part of the Northeast 1/4 of the Northwest 1/4 of Section 31, Township 7 North, Range 21 East, City of West Allis, County of Milwaukee, State of Wisconsin.

WHEREAS, Wisconsin Electric Power Company is the owner of the above-described property; and

WHEREAS, it is the desire and intention of the property owner to impose on the property restrictions which will make it unnecessary to conduct further soil investigation or subsequent remediation activities on the property at the present time;

WHEREAS, petroleum contaminants have been detected in soil samples conducted on the property. Standard Oil Company previously owned the property and operated a bulk petroleum storage and distribution facility from 1961-1993. A 10,000-gallon petroleum underground storage tank located on the property was closed in place in December of 1989. In August of 1991, Fluid Management Inc. determined that a buried pipe on the property had caused contamination. In March 1997, STS Consultants Ltd. sampled eight wells and advanced twelve soil probes on the property. It was determined that soil contamination remained on the property at concentrations which were above site-specific residual contaminant levels (RCLs) for the groundwater pathway. STS Consultants Ltd. has since collected groundwater samples in November 1997 and May 1998 from selected wells on the property. The historical groundwater sampling results have shown an overall decrease in petroleum impacts with no petroleum-related NR 140 Preventive Action Limit exceedances in the most recent sampling event. The impacts on the property caused by the petroleum release have been investigated and the source of the contamination has been removed. The remaining soil contamination does not pose a threat to public health, safety, welfare or the environment as long as it remains in place beneath pavement and cover soils.

WHEREAS, the tank is located within the Wisconsin Electric Power Company Construction Service Headquarters boundaries located at 418 S. Curtis Road, West Allis, Wisconsin. and beneath asphalt pavement and approximately 3 feet of overlying clean soils; soil impacts extend to approximately 14 feet below ground service.

NOW THEREFORE, the owner hereby declares that the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitation and restrictions:

The Department of Natural Resources has agreed that no further soil investigation is required at this time in regards to the residual soil impacts from the closed in place petroleum tank within the boundaries of the above-described property. The attached Exhibit A shows a graphical depiction of the affected area that is restricted by this deed notification.

Within the identified area, the petroleum contaminated soil is limited to the native soils at 14 feet below the ground surface, directly below the closed in place tank. The petroleum contamination is associated with the closed in place underground storage tank located southeasterly of the building on the property and buried under 3 feet of overlying clean soils and asphalt pavement.

RETURN TO: DOUGLAS J. FABIO
WISCONSIN ELECTRIC POWER COMPANY
PROPERTY MANAGEMENT
231 W. MICHIGAN STREET, ROOM A440
PO BOX 2046
MILWAUKEE, WI 53201-2046

The affected soil area is located within the boundaries of the above-referenced property in the area shown on the attached Exhibit A and being a part of Parcel 2, Certified Survey Map No. 3229, in the Northeast ¼ of the Northwest ¼ of Section 31, Township 7 North, Range 21 East, City of West Allis, County of Milwaukee, State of Wisconsin.

Pursuant to the requirements of s.292, Stats., any future work on this property which removes the structural impediments which currently exist shall include an investigation of the degree and extent of petroleum contamination. To the extent that contamination is found at that time, the Wisconsin Department of Natural Resources shall be immediately notified and the contamination shall be properly treated or disposed of in accordance with applicable laws.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction inures to the benefit of and is enforceable by the Wisconsin Department of Natural Resources, its successors or assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that one or more of the restrictions set forth in this covenant is no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished.

IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 5th day of May, 1999.

WISCONSIN ELECTRIC POWER COMPANY

By: Michael James
 Michael James, Manager of Property Management

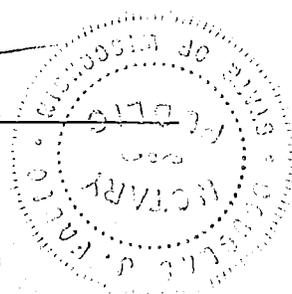
STATE OF WISCONSIN)
 : SS
 MILWAUKEE COUNTY)

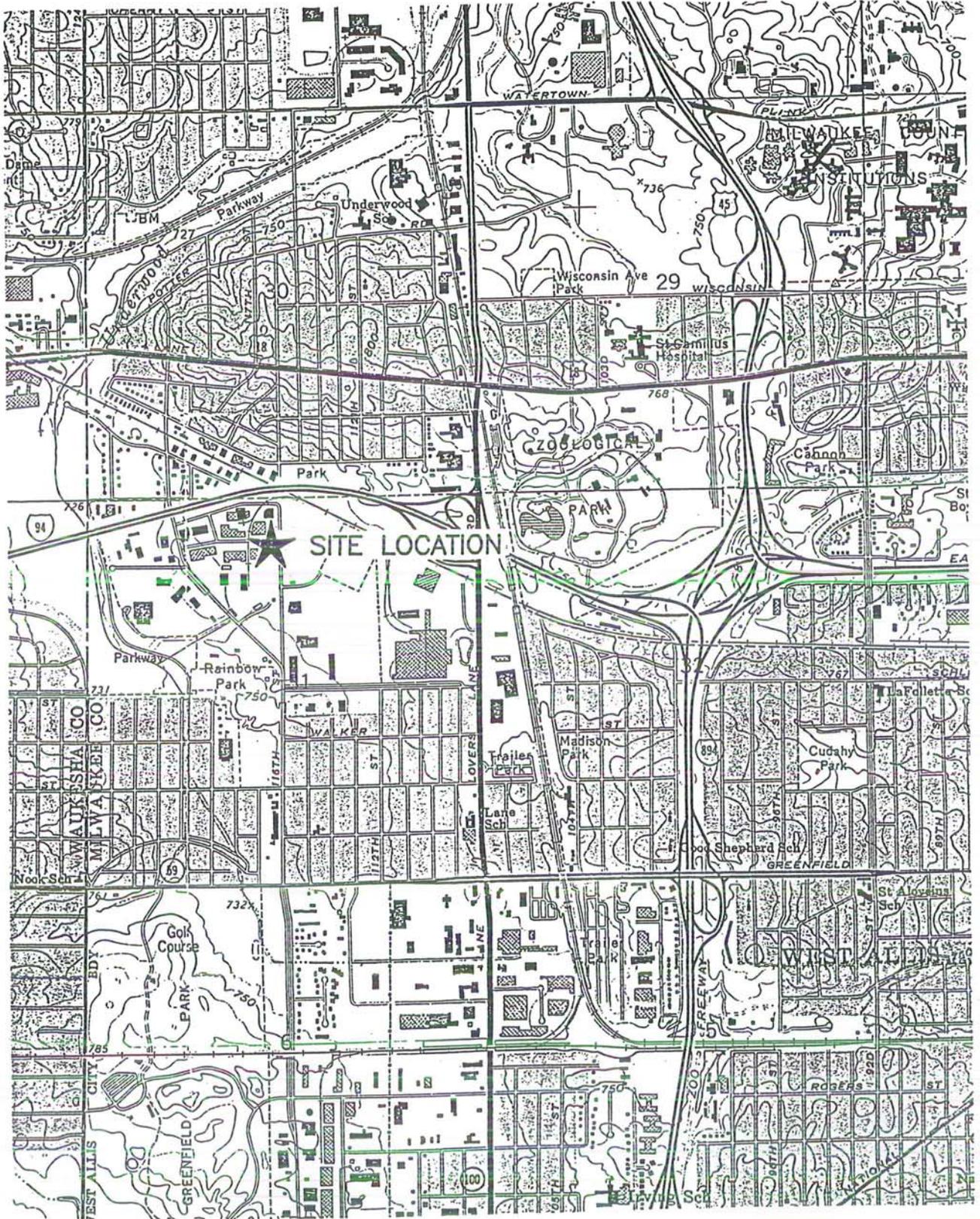
Personally came before me this 5th day of May, 1999, Michael James, Manager of Property Management for Wisconsin Electric Power Company, known to me to be the person who executed the foregoing instrument and to me known to be such Manager of Property Management for Wisconsin Electric Power Company and acknowledged that he executed the foregoing instrument in such capacity.

Douglas J. Fabio
 Douglas J. Fabio

Notary Public, State of Wisconsin

My commission expires February 11, 2001





SOURCE: USGS TOPOGRAPHIC MAP, WAUWATOSA QUADRANGLE
DATE 1958, REVISED 1994

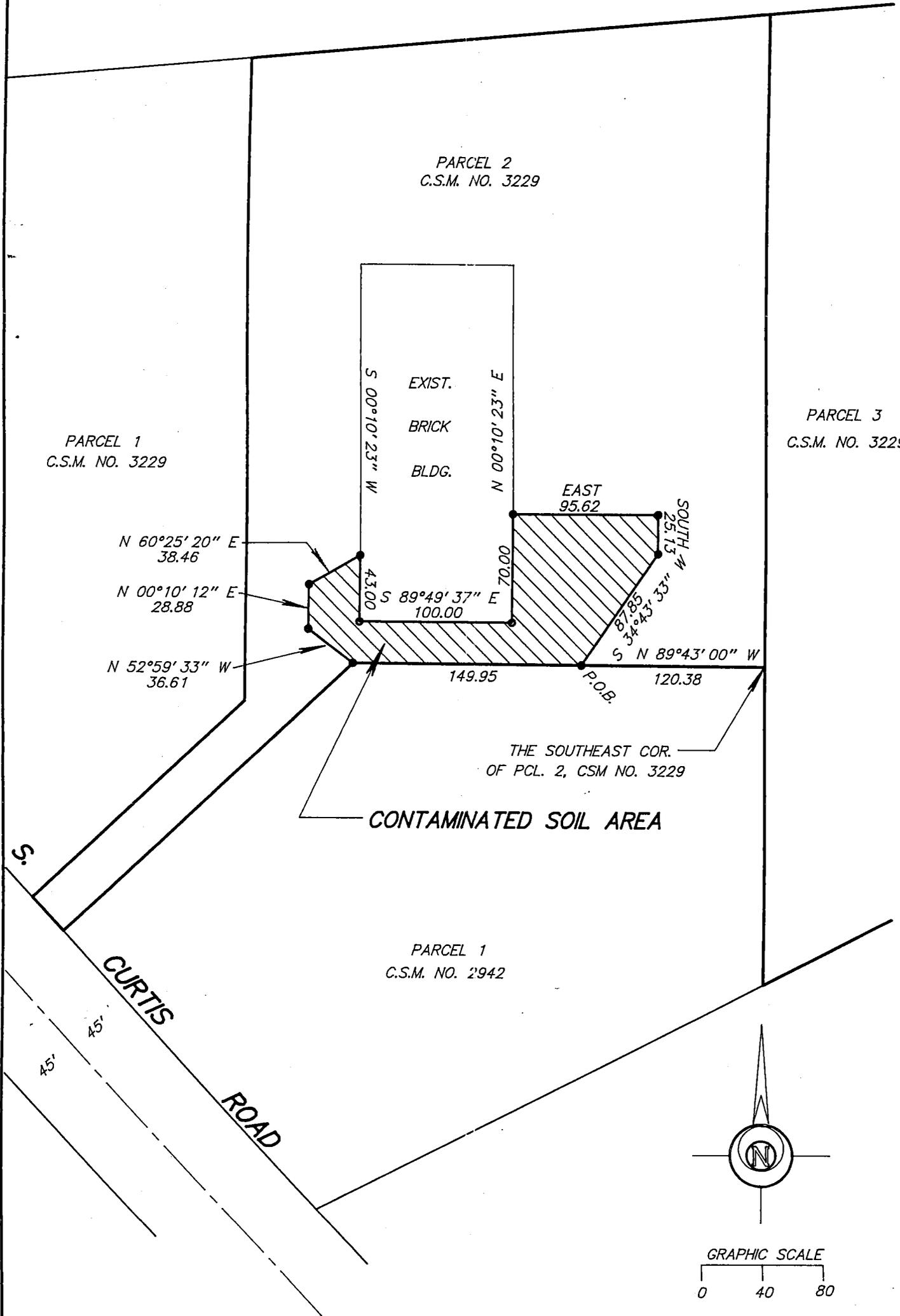


STS Consultants Ltd.
Consulting Engineers

SITE LOCATION MAP
WISCONSIN ELECTRIC
CONSTRUCTION SERVICES HEADQUARTERS
418 SOUTH CURTIS ROAD
WEST ALLIS, WISCONSIN

DRAWN BY	JMI	5-12-97
CHECKED BY	KWY	5-12-97
APPROVED BY	TWK	5-12-97
CADFILE	G567A001	SCALE 1"=2000'
STS PROJECT NO.	85067WA	FIGURE NO. 1

UNPLATTED LANDS



PARCEL 1
C.S.M. NO. 3229

PARCEL 2
C.S.M. NO. 3229

PARCEL 3
C.S.M. NO. 3229

N 60°25' 20" E
38.46

N 00°10' 12" E
28.88

N 52°59' 33" W
36.61

S 00°10' 23" W

EXIST.
BRICK
BLDG.

N 00°10' 23" E

EAST
95.62

SOUTH
25.13

43.00

S 89°49' 37" E
100.00

70.00

S 87°05' 33" W

S 87°05' 33" W

N 89°43' 00" W

149.95

120.38

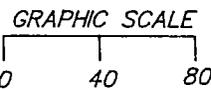
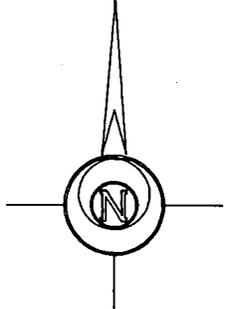
P.O.B.

THE SOUTHEAST COR.
OF PCL. 2, CSM NO. 3229

CONTAMINATED SOIL AREA

PARCEL 1
C.S.M. NO. 2942

CURTIS
ROAD

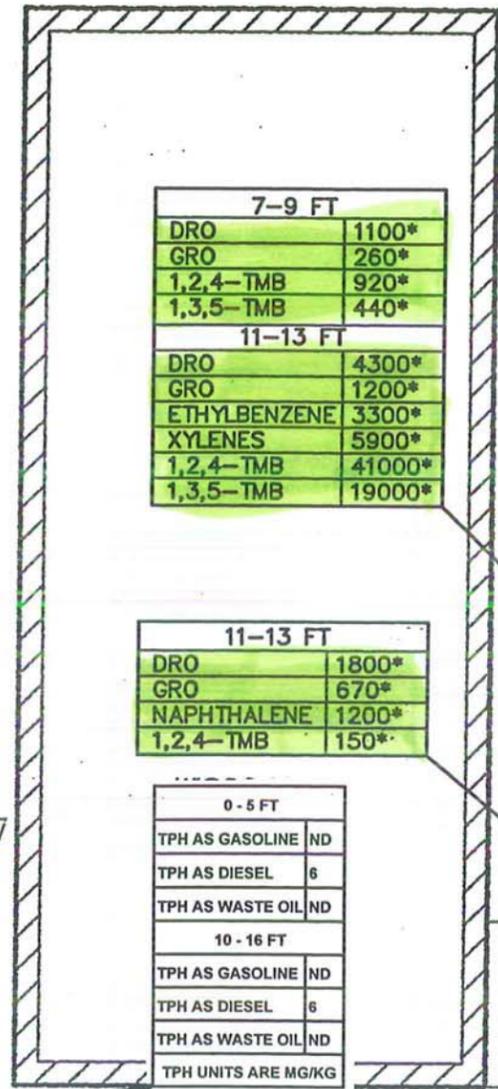


EXHIBIT

REVISIONS	WISCONSIN ELECTRIC POWER COMPANY	DRAWN BY: k.r.spaight
	<p>Map of Contaminated Soil Location Lying in the Northeast 1/4 of the Northwest 1/4 of Section 31, T 7 N, R 21 E, City of West Allis, Milwaukee County, Wisconsin.</p>	<p>CHECKED BY: APPROVED BY: SCALE: 1" = 80' DATE: 04/01/99 IDO: 100281</p>

projects\85067\WA\G567A004 Fri Jun 06 10:05:50 1997 STS CONSULTANTS LTD., MILWAUKEE, WISCONSIN

WASTE MANAGEMENT PROPERTY



13.5 - 15	
GRO	67
DRO	13
18.5 - 20 FT	
DRO	6.3

9-11 FT	
DRO	<4.1
GRO	6.5
BENZENE	3300*

7-9 FT	
DRO	15
GRO	240*
BENZENE	2000*
1,2,4-TMB	1100*
1,3,5-TMB	250*
11-13 FT	
DRO	110*
GRO	62
BENZENE	620*
1,2,4-TMB	1800*
1,3,5-TMB	890*

5-10 FT	
TPH AS GASOLINE	ND
TPH AS DIESEL	ND
TPH AS WASTE OIL	ND
10-16 FT	
TPH AS GASOLINE	140
TPH AS DIESEL	ND
TPH AS WASTE OIL	ND
TPH UNITS ARE MG/KG	

5-7 FT	
DRO	4400*
GRO	850*
BENZENE	610*
NAPHTHALENE	7900*
1,2,4-TMB	27000*
1,3,5-TMB	470*
11-13 FT	
DRO	690*
GRO	43
BENZENE	58*
1,2,4-TMB	960*
1,3,5-TMB	390*

5-7 FT	
DRO	1900*
GRO	840*
BENZENE	14000*
ETHYLBENZENE	20000*
XYLENES	57000*
NAPHTHALENE	7500*
1,2,4-TMB	16000*
1,3,5-TMB	5600*
11-13 FT	
DRO	110*
GRO	28
1,2,4-TMB	800*
1,3,5-TMB	370*

3-5 FT	
DRO	1600*
GRO	1400*
NAPHTHALENE	15000*
1,2,4-TMB	1400*
1,3,5-TMB	2400*
11-13 FT	
DRO	1300*
GRO	390*
1,2,4-TMB	2000*

5-10 FT	
TPH AS GASOLINE	ND
TPH AS DIESEL	1310
TPH AS WASTE OIL	ND
10-16 FT	
TPH AS GASOLINE	ND
TPH AS DIESEL	2800
TPH AS WASTE OIL	ND
TPH UNITS ARE MG/KG	

11-13 FT	
DRO	1700*
GRO	420*
1,2,4-TMB	2800*
1,3,5-TMB	3900*

7-9 FT	
DRO	3200*
GRO	440*
NAPHTHALENE	490*
1,3,5-TMB	1300*
11-13 FT	
DRO	1500*
GRO	200*
1,2,4-TMB	1400*

13.5 - 15	
GRO	340
DRO	220
18 - 20 FT	
DRO	6.3

5-7 FT	
DRO	3200*
GRO	390*
1,2,4-TMB	2600*
1,3,5-TMB	3400*

7-9 FT	
DRO	1800*
GRO	470*
NAPHTHALENE	4000*
1,2,4-TMB	240*
11-13 FT	
DRO	1400*
GRO	190*
1,2,4-TMB	1800*
1,3,5-TMB	2000*

7-9 FT	
DRO	1100*
GRO	260*
1,2,4-TMB	920*
1,3,5-TMB	440*
11-13 FT	
DRO	4300*
GRO	1200*
ETHYLBENZENE	3300*
XYLENES	5900*
1,2,4-TMB	41000*
1,3,5-TMB	19000*

11-13 FT	
DRO	1800*
GRO	670*
NAPHTHALENE	1200*
1,2,4-TMB	150*

0-5 FT	
TPH AS GASOLINE	ND
TPH AS DIESEL	6
TPH AS WASTE OIL	ND
10-16 FT	
TPH AS GASOLINE	ND
TPH AS DIESEL	6
TPH AS WASTE OIL	ND
TPH UNITS ARE MG/KG	

9-11 FT	
DRO	1500*
GRO	110*
11-13 FT	
DRO	1400*
GRO	110*
BENZENE	100*
1,2,4-TMB	2800*
1,3,5-TMB	700*

LEGEND

- GEOPROBE LOCATION AND SOIL SAMPLING RESULTS FROM MARCH 1997
- ⊕ TEST BORING
- ⊞ EXISTING MONITORING WELL
- DRO DIESEL RANGE ORGANICS (mg/kg)
- GRO GASOLINE RANGE ORGANICS (mg/kg)
- VOCs NR720 EXCEEDANCES, (ug/kg)
- * NR720 RCL EXCEEDANCE (EITHER GENERIC OR SITE-SPECIFIC)

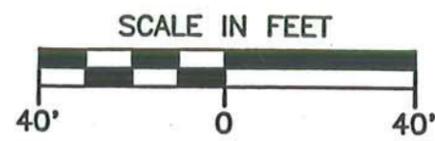
SOIL CONTAMINANT DISTRIBUTION
 WISCONSIN ELECTRIC
 CONSTRUCTION SERVICES HEADQUARTERS
 418 SOUTH CURTIS ROAD
 WEST ALLIS, WISCONSIN



STS Consultants Ltd.
 Consulting Engineers

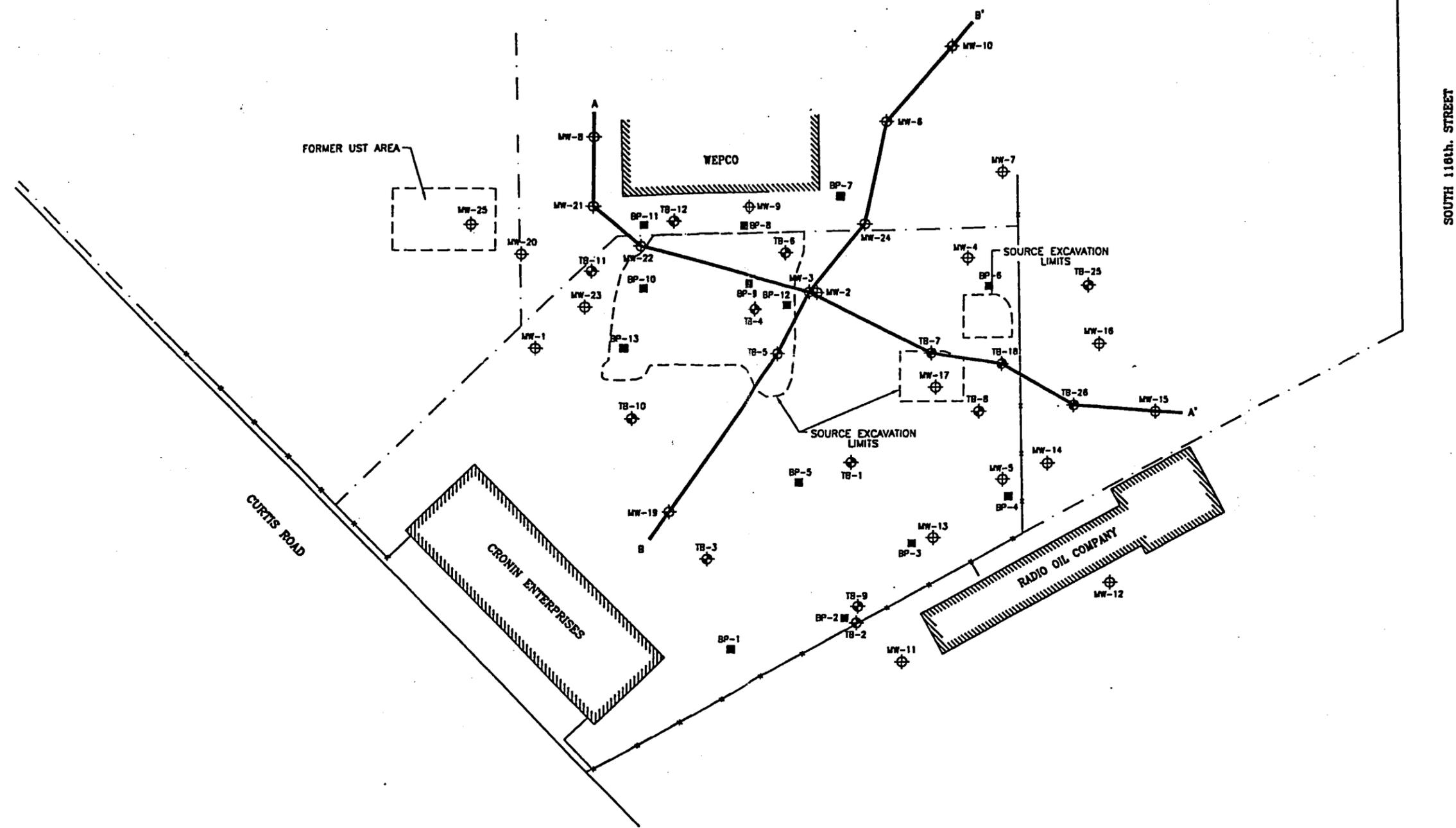
STS PROJECT NO.
 85067WA
 STS PROJECT FILE

SCALE
 AS SHOWN
 FIGURE NO. 4



DRAWN BY	JMI	DATE	6-6-97
CHECKED BY	KWY	DATE	6-6-97
APPROVED BY	TWK	DATE	6-6-97
CADFILE	PROJECTS\85067\WA\G567A004.DWG XREF=X567A001		

DRAWING NO. 90.210L31
 DRAWN BY: JPH
 8/29/96
 CHECKED BY: [Signature]
 APPROVED BY: SWT
 1/20/96



LEGEND
 ⊕ MONITORING WELL
 ⊕ TEST BORING
 ■ BACKHOE PIT

Fluid Management, Inc.



Geologic Cross-Section
 Plan View
 Cronin Enterprises, Inc. Site
 West Allis, Wisconsin

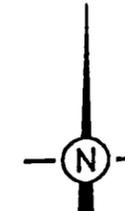
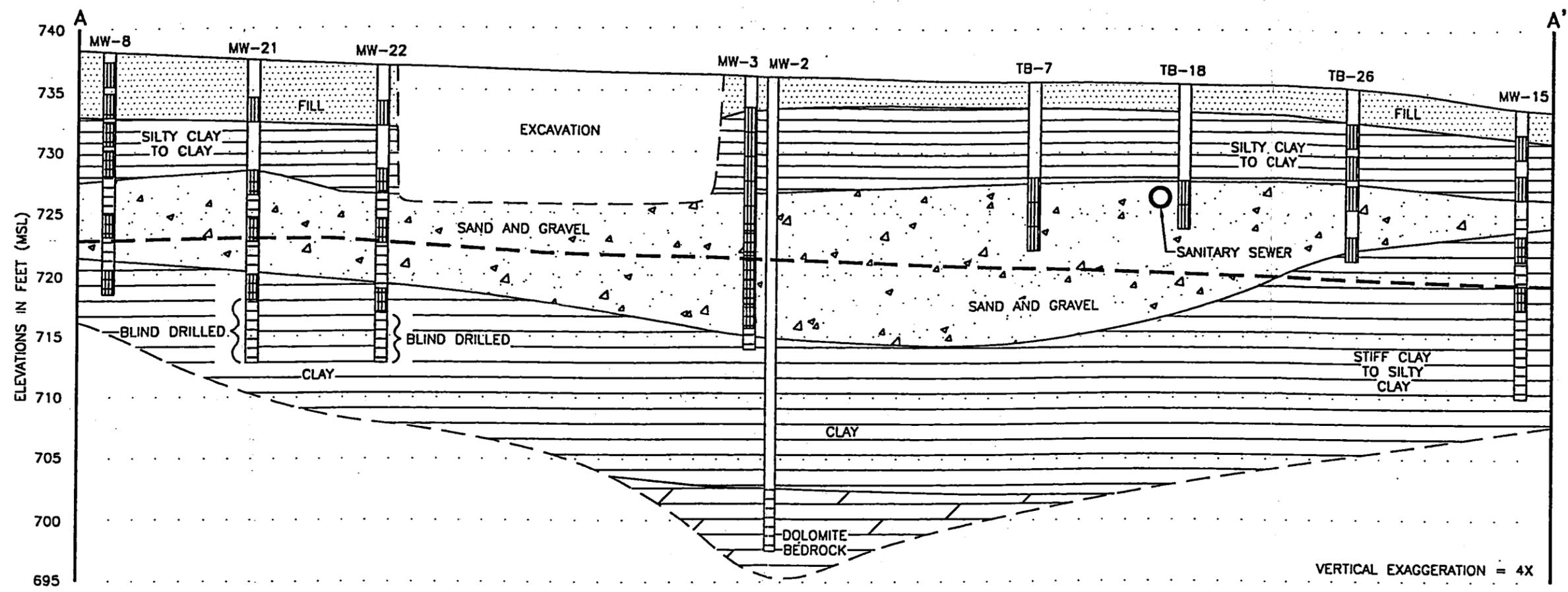


FIGURE NO.
 1

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

DRAWING NO. 90.210L32
 DRAWN BY: JPH
 8/29/96
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]
 4/2/16



LEGEND
 SOIL SAMPLING INTERVAL
 SCREENED INTERVAL
 - - - GROUNDWATER TABLE (7/11/94)

Fluid Management, Inc.



Geologic Cross-Section A-A'
Cronin Enterprises, Inc. Site
West Allis, Wisconsin

FIGURE NO.
2

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

1/20/96

APPROVED BY: SWT

8/29/96

CHECKED BY: JPH

8/29/96

8/29/96

8/29/96

8/29/96

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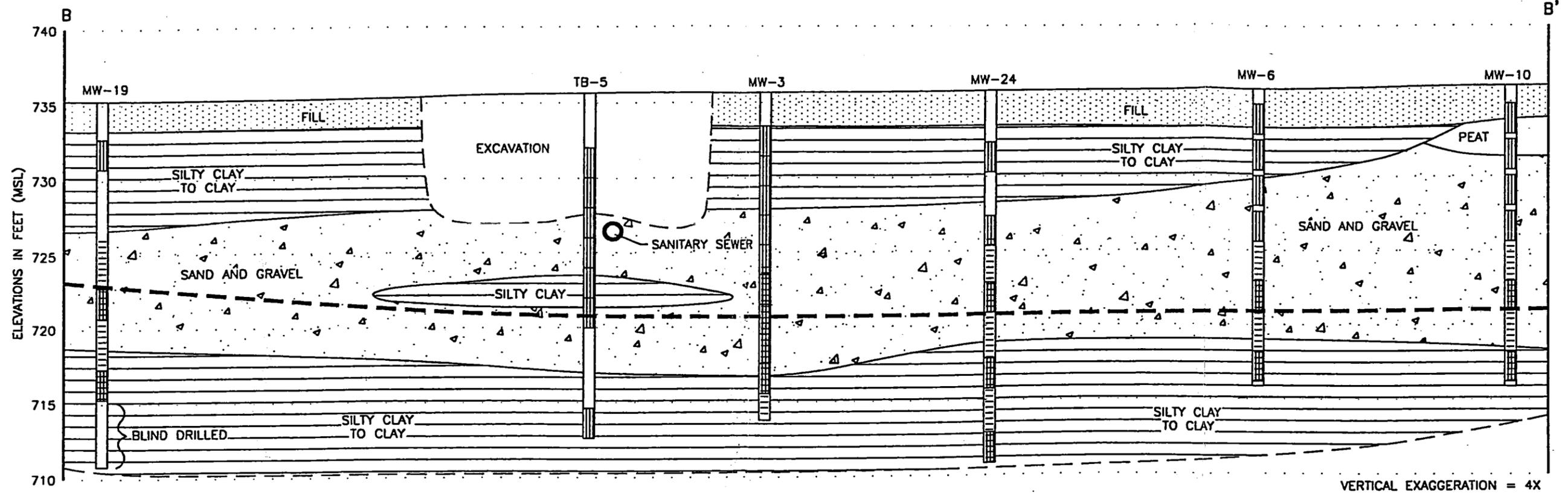
8/29/96

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8/29/96



VERTICAL EXAGGERATION = 4X

LEGEND

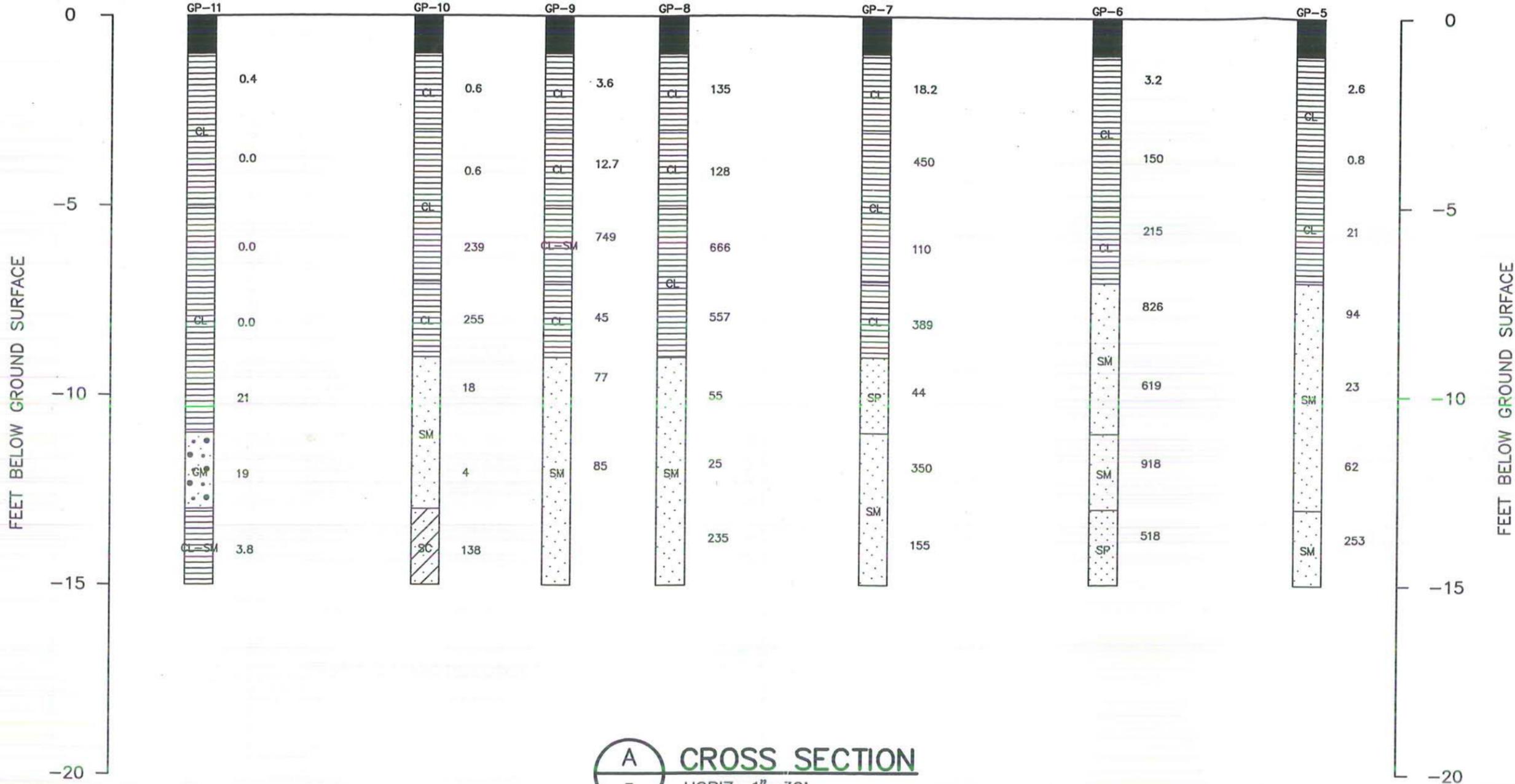
-  SOIL SAMPLE INTERVAL
-  SCREENED INTERVAL
-  GROUNDWATER TABLE (7/11/94)



Geologic Cross-Section B-B'
 Cronin Enterprises, Inc. Site
 West Allis, Wisconsin

FIGURE NO.
 3

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.



A
5 **CROSS SECTION**
HORIZ: 1"=30'
VERT: 1"=3'

NOTE:

SOIL CONDITIONS DESCRIBED HEREIN ARE VALID AT THE BORING LOCATIONS ONLY. HORIZONTAL PROJECTIONS ARE INTERPOLATED AND REPRESENT ONLY APPROXIMATIONS OF ACTUAL SOIL CONDITIONS.

LEGEND

- GP-1 ← GEOPROBE IDENTIFICATION
- CONCRETE\ASPHALT
- ← PID READING
- CL ← USCS CLASSIFICATION

POST-REMEDIATION GEOLOGIC CROSS-SECTION
WISCONSIN ELECTRIC
CONSTRUCTION SERVICES HEADQUARTERS
420 SOUTH CURTIS ROAD
WEST ALLIS, WISCONSIN



DATE	4-17-97
DRAWN BY	JMI
CHECKED BY	KWY
APPROVED BY	TWK
CAD FILE	PROJECTS\85067\WA\G567A005.DWG
STS PROJECT NO.	85067WB
STS PROJECT FILE	
SCALE	AS SHOWN
FIGURE NO.	5

Table 2
Soil Analytical Results
Wisconsin Electric Construction Services Headquarters
418 South Curtis Road, West Allis, Wisconsin
STS Project No. 85067WB

Parameter	Units	NR 720 RCL for Groundwater Pathway ⁸	Sample Number/Depth																					Calculated Site-Specific RCL for Direct Contact	
			GP-1 S-4 7' - 9' SM-GM	GP-1 S-6 11' - 13' SM-GM	GP-2 S-6 11' - 13' SM-GM	GP-3 S-4 7' - 9' GM	GP-3 S-6 11' - 13' SM	GP-4 S-3 5' - 7' GM	GP-4A S-5 9' - 11' GM	GP-4A S-6 11' - 13' GM	GP-5 S-4 7' - 9' CL	GP-5 S-6 11' - 13' SM	GP-6 S-6 11' - 13' SM	GP-7 S-2 3' - 5' CL	GP-7 S-6 11' - 13' SM	GP-8 S-3 5' - 7' CL	GP-8 S-6 11' - 13' SM	GP-9 S-3 5' - 7' CL/SM	GP-9 S-6 11' - 13' SP	GP-10 S-4 7' - 9' CL	GP-10 S-6 11' - 13' SM	GP-11 S-5 9' - 11' CL			
DRO	mg/kg	100	1,800	1,400	1,800	1,100	4,300	3,200	1,500	1,400	3,200	1,500	1,700	1,600	1,300	1,900	110	4,400	690	15	110	<4.1	--		
GRO	mg/kg	100	470	190	670	260	1,200	390	110	110	440	200	420	1,400	390	840	28	850	43	240	62	6.5	--		
VOCs																									
Benzene	µg/kg	5.5	<50	<130	<100	<25	<630	<200	<25	100 Q	<250	<130	<200	<310	<200	14,000	<25	610	58 Q	2,000	620	3,300	99,000		
n-Butylbenzene	µg/kg	--	1,000	---	110 Q	130	---	---	84	---	520 Q	---	---	3,200	---	2,100	---	2,600	---	290	---	---	--		
sec-Butylbenzene	µg/kg	12,930	710	---	<100	110	---	---	<25	---	<250	---	---	1,300	---	1,300	---	1,900	---	250	---	---	10,000,000		
Ethylbenzene	µg/kg	2,900	<50	340	<100	<25	3,300	300 Q	<25	290	<250	<130	450 Q	2,200	<200	20,000	28 Q	<310	<25	330	400	<25	100,000,000		
Isopropylbenzene	µg/kg	8,620	320	---	<100	110	---	---	<25	---	<250	---	---	960	---	1,600	---	1,300	---	210	---	---	40,000,000		
p-Isopropyltoluene	µg/kg	--	640	---	210 Q	180	---	---	32 Q	---	610 Q	---	---	1,800	---	1,500	---	1,800	---	310	---	---	--		
Naphthalene	µg/kg	400	4,000	---	1,200	220	---	---	120	---	490 Q	---	---	15,000	---	7,500	---	7,900	---	85 Q	---	---	4,000,000		
n-Propylbenzene	µg/kg	--	700	---	<100	170	---	---	<25	---	<250	---	---	2,000	---	3,100	---	3,700	---	430	---	---	--		
Toluene	µg/kg	1,500	<50	<130	<100	<25	<630	<200	<25	<63	<250	<130	<200	<310	<200	<250	<25	<310	27 Q	85 Q	980	320	200,000,000		
1,2,4-Trimethylbenzene	µg/kg	86	240	1,800	150 Q	920	41,000	2,600	51 Q	2,800	<250	1,400	2,800	1,400	<200	16,000	800	27,000	960	1,100	1,800	<25	500,000		
1,3,5-Trimethylbenzene	µg/kg	86	84 Q	2,000	<100	440	19,000	3,400	<25	700	1,300	<130	3,900	2,400	2,000	5,600	370	470 Q	390	250	890	<25	400,000		
Xylenes	µg/kg	4,100	68 Q	300 Q	<200	75	5,900	370 Q	<50	620 Q	<500	<260	970 Q	620 Q	320 Q	57,000	320 Q	<620	215 Q	1,100	1,610	<50	2,000,000,000		
Total Solids	%	--	94	96	97	97	96	92	96	96	93	97	97	83	96	82	97	90	94	81	97	78			
Sample Date	--	--	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97		
DRO Analysis Date	--	--	3/18/97	3/17/97	3/18/97	3/18/97	3/19/97	3/19/97	3/17/97	3/17/97	3/19/97	3/18/97	3/17/97	3/19/97	3/19/97	3/17/97	3/19/97	3/18/97	3/19/97	3/17/97	3/19/97	3/17/97	3/19/97		
GRO Analysis Date	--	--	3/18/97	3/21/97	3/18/97	3/18/97	3/18/97	3/18/97	3/18/97	3/19/97	3/18/97	3/18/97	3/18/97	3/19/97	3/19/97	3/19/97	3/20/97	3/19/97	3/19/97	3/19/97	3/20/97	3/20/97	3/20/97		
VOC Analysis Date	--	--	3/27/97	3/21/97	3/27/97	3/27/97	3/18/97	3/18/97	3/20/97	3/19/97	3/27/97	3/18/97	3/18/97	3/18/97	3/27/97	3/19/97	3/27/97	3/20/97	3/27/97	3/19/97	3/27/97	3/20/97	3/20/97		
Field PID (IU)	--	--	517	327	739	981	606	378	65	38	94	62	918	450	350	666	25	749	85	255	4	21			

- NOTES:**
- DRO - Diesel Range Organics (WI. Modified Method).
 - GRO - Gasoline Range Organics (WI. Modified Method).
 - VOCs - Volatile Organic Compounds, analyzed using EPA Method 8021; only the VOCs which have any detections in soil at the site or which have an NR 720 Table 1 value are shown here.
 - mg/kg - milligrams per kilogram, or parts per million.
 - µg/kg - micrograms per kilogram, or parts per billion.
 - Sample depths shown in feet below ground surface.
 - Field PID (IU) - Photoionization Detector result. IU - Instrument Units, similar to ppm.
 - NR 720 RCL = Residual Contaminant Level = The lowest concentration of the following: 1) the NR 720 Table 1 generic RCL (which are based on the groundwater pathway); or 2) the calculated site-specific RCL based on the protection of groundwater. NR 720 Table 1 value used for DRO and GRO. Groundwater pathway RCLs are shown for comparison only; several rounds of groundwater monitoring have shown that soil is not providing a source of groundwater contamination at the site.
 - = No NR 720 Table 1 generic RCL, and, not enough information was found to calculate a site-specific RCL for this compound.
 - 34,000 = NR 720 RCL exceedance
 - Samples listed were collected by STS Milwaukee, and analyzed by EnChem Inc. in Green Bay, Wisconsin.
 - Q - Reported result is less than the Limit of Quantitation (LOQ).
 - - Not analyzed