



Tommy G. Thompson, Governor
William J. McCoshen, Secretary

August 22, 1997

DOA - Div. Of Facilities Development
Attn: Terry Cook
PO Box 306
King WI 54946

Subject: **Close-out** of WI DOC Green Bay Correctional Institution
Petroleum Contamination Site
2833 Riverside Drive, Green Bay, WI
COMMERCE #54301-1635-33 WDNR #03-05-002140

Dear Mr. Cook:

On August 22, 1997 the above site was reviewed for closure by the Site Review staff of the PECFA Bureau. Because the site involved only soil contamination, without a threat to groundwater, **all issues** relating to this site are administered by the staff within the Department of Commerce's PECFA Bureau. Your consultant, Foth & Van Dyke, had recommended site closure. Upon reviewing all the data collected for this site, the Department considers this site to meet environmental standards, and **no further action** is necessary.

If, in the future, site conditions indicate that any contamination that might remain poses a threat, the need for further remediation would be determined and required if necessary. If subsequent information indicates a need to reopen this case, any original claim under the PECFA fund would also reopen and you may apply for assistance to the extent of remaining eligibility.

Thank you for your efforts in the protection of the environment. If you have any additional questions, please call me at 920-424-0046.

Sincerely,

A handwritten signature in cursive script that reads 'Dee Zoellner'.

Dee Zoellner
Hydrogeologist
Department of Commerce

cc: Case File - Oshkosh
Mr. Martin Romero, WDOA - Div. of Facilities Dev.
Mr. Philip Brochocki - Foth & Van Dyke



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
William R. Selbig, Regional Director

Northeast Region Headquarters
Bureau for Remediation & Redevelopment
PO Box 10448, 1125 N. Military Avenue
Green Bay, WI 54307-0448
TELEPHONE 414-492-5916
TELEFAX 414-492-5859

August 14, 1997

DOA - Div. Of Facilities Development
Attn: Terry Cook
PO Box 306
King, WI 54946

COPY

SUBJECT: WI DOC Green Bay Correctional Institution, 2833 Riverside Drive, Green Bay
WDNR ID #03-05-002140
Transfer of Your File to the Wisconsin Department of Commerce

The 1995-97 state budget bill made significant changes in the way state government manages discharges to the environment from petroleum storage tank systems. As of July 1, 1996, the Department of Commerce is responsible for governmental oversight of environmental cleanup activities at properties contaminated by petroleum storage systems when contamination has not impacted groundwater above state preventive action levels.

This is to notify you that the Department of Natural Resources (DNR) has an open file regarding contamination at the above site. Information presented to the DNR to date shows that this site falls into the group of sites identified for transfer. Therefore, we are transferring your file to the Department of Commerce effective immediately. Commerce will provide all future oversight of your cleanup at the property, including determination of file closure.

All future contacts regarding this site should be directed to the Department of Commerce. Correspondence should be addressed to:

Wisconsin Department of Commerce
Attn: Thomas Verstegen
2129 Jackson Street
Oshkosh, WI 54901
Phone: 414-424-0025

Please include both your PECFA claim number, if you have one, and your WDNR site identification number in your correspondence. The PECFA program reimbursement staff have also been transferred to Commerce from the Department of Industry, Labor & Human Relations (DILHR), effective July 1, 1996.

Your efforts toward cleanup of this site are greatly appreciated.

Sincerely,

Janis DeBrock

Janis DeBrock, Program Assistant
Remediation & Redevelopment Program

cc: Thomas Verstegen, WI DCOM, 2129 Jackson Street, Oshkosh, WI 54901
Philip Brochocki, Foth & Van Dyke, PO Box 19012, Green Bay, WI 54307-9012

AC 33
AC 41
AC 179

Report



Power Plant Underground Tank Compliance Site Assessment and Remediation Documentation

DOC-Green Bay Correctional Institution Heating Plant

WDNR ID No. 03-05-2140

Scope ID: 94W048

**Wisconsin Department of Administration
Division of Facilities Development
Division Project No. 93943**

July 1997

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AUG 01 1997

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Foth & Van Dyke

engineers • architects • scientists



Foth & Van Dyke
engineers · architects · scientists

July 29, 1997

Ms. Kathy Erdmann
Lake Michigan District Headquarters
Wisconsin Department of Natural Resources
P.O. Box 10448
Green Bay, WI 54307-0448

Dear Ms. Erdmann:

Re: Power Plant Underground Tank Compliance
Site Assessment and Remediation Documentation
Green Bay Correctional Institution Heating Plant
WDNR LUST ID # 03-05-2140
Removal of Two 20,000-gal and one 1,000-gal Petroleum Underground Storage Tanks
DILHR Reg Nos. #051600012, 051600013, 051600009

On behalf of the Wisconsin Department of Administration, Division of Facilities Development, Foth & Van Dyke is submitting documentation for the removal and remediation of two 20,000-gal heating oil and one 1,000-gal diesel underground storage tanks (USTs). The former UST systems were located at the Green Bay Correctional Institution, 2833 Riverside Drive, Green Bay, Wisconsin. The two 20,000-gallon USTs were closed on July 13-14, 1995 and the 1,000-gallon UST was closed on November 21, 1995, in accordance with Wisconsin Administrative Code Chapter ILHR 10.

This report contains:

- ♦ Description of Site Activities
- ♦ Analytical results of soil samples collected during closure and remediation
- ♦ Tanks, Tank sludge and cleaning waste disposal documentation
- ♦ Contaminated soil disposal documentation
- ♦ Completed WDNR Case Summary and Closeout Form
(Second copy submitted for Closure Committee)

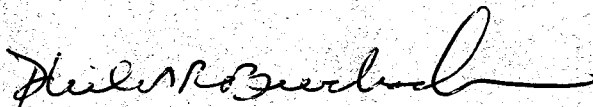
During Removal activities contaminated soil was encountered and remediated by overexcavation. Extent of soil contamination was determined by visual observation, field jar headspace procedures and laboratory analysis. Laboratory results demonstrate that contaminated soil was remediated to "non-detect" levels or levels below NR 720 soil standards. Therefore, Foth & Van Dyke requests that the site be closed. In order to expedite review and case closure, we have included a completed Case Summary and Closeout Form in Appendix I. Foth & Van Dyke is also sending, with this report, a second copy of the Case Summary and Closeout Form to be forwarded directly to the Closure Committee.

Ms. Kathy Erdmann
Wisconsin Department of Natural Resources
July 29, 1997
Page 2

Please direct any questions or comments concerning the tank closure or the site to Phil Brochocki
at (920) 497-2500.

Sincerely,

Foth & Van Dyke

A handwritten signature in dark ink, appearing to read "Philip R. Brochocki", with a stylized, flowing script.

Philip R. Brochocki, P.G.
Project Hydrogeologist

PRB:lmc

**Power Plant Underground Tank Compliance
Site Assessment and Remediation Documentation
Green Bay Correctional Institution Heating Plant
WDNR LUST ID # 03-05-2140**

Distribution

<u>No. of Copies</u>	<u>Sent To</u>
1	Ms. Kathy Erdmann Lake Michigan District Headquarters Wisconsin Department of Natural Resources P.O. Box 10448 1125 N. Military Avenue Green Bay, Wisconsin 54307-0448
1	Bureau of Petroleum Inspection and Fire Protection P.O. Box 7969 Madison, WI 53707
2	Mr. Martin Romero, P.E. Wisconsin Department of Administration Division of Facilities Development 101 East Wilson Street - 7th Floor P.O. Box 7866 Madison, Wisconsin 53707-7866
1	Mr. Terry Cook Wisconsin Department of Administration P.O. Box 306 King, Wisconsin 54946
1	Mr. Jim Nelson Environmental Manager Department of Corrections 149 East Wilson Madison, WI 53703
1	Mr. Christopher Timmers Heating Plant Superintendent Green Bay Correctional Institute P.O. Box 19033 Green Bay, WI 54307-9033

**Power Plant Underground Tank Compliance
Site Assessment and Remediation Documentation
DOC-Green Bay Correctional Institution Heating Plant
WDNR ID No. 03-05-2140**

Scope ID: 94W048

Prepared for
**Wisconsin Department of Administration
Division of Facilities Development
Division Project No. 93943**

Prepared by
Foth & Van Dyke and Associates Inc.

July 1997

REUSE OF DOCUMENTS

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2737 S. Ridge Road, P.O. Box 19012, Green Bay, Wisconsin 54304, 414/497-2500, FAX: 414/497-8516

Executive Summary

Two 20,000-gal underground storage tanks (USTs) containing heating oil that fueled boilers and one 1,000-gal UST containing diesel fuel that served an emergency generator at the Green Bay Correctional Institution were permanently closed by removal on July 13-14, 1995 and November 21, 1995 respectively.

The tanks were cleaned and the tank sludge and cleaning wastes were disposed of off-site by Stiles Environmental Testing, Lake Mills, Wisconsin. The tanks and associated piping were cut into scrap and removed from the site. During the excavation and removal of the tanks, soil samples were collected for field screening and laboratory analysis to assess for soil contamination.

During the removal of the two 20,000-gal tanks, petroleum product odor was present in the soils at several areas of the excavation. Headspace sample field readings were variable from 0.0 to 178 instrument units.

Soil contamination was not observed adjacent to the 1,000 gal tank.

Soil samples were collected from the 20,000-gal tank system excavation and analyzed for diesel range organics (DRO), following the Wisconsin Department of Natural Resources (WDNR) Modified DRO Method, petroleum volatile organic compounds (PVOCs), polynuclear aromatic hydrocarbons (PAHs) and lead. Several samples collected from the soils remaining after overexcavation exhibited DRO and PVOC detects. However, these levels did not exceed the WDNR residual contaminant levels (RCL) established in Ch. NR 720 Wis. Adm. Code. Soil contamination was detected in the samples collected from beneath the remote fill ports for the 20,000 gal tanks even though surface staining was not evident. DRO was detected at elevated concentrations at these locations with a few minor detects of PAHs, however PVOCs were not detected. The contaminated soil could not be excavated at this location due to the presence of a gas main pipe.

A minimal amount of free water was encountered within the 20,000-gal tank pit at approximately 11 ft below grade. It could not be determined whether this water was perched groundwater or surface water that was trapped within the tank backfill.

Approximately 63 tons of overexcavated contaminated soil was generated as part of the remedial action. The petroleum-impacted soil was treated and disposed of at Waste Management's Ridgeview Landfill in Whitelaw, Wisconsin. Both excavations were backfilled with clean imported sand.

In conclusion, the site assessment conducted in accordance with ILHR 10 determined that the soils adjacent to the 20,000-gal UST system were contaminated with petroleum product. However, the overexcavation sampling of tank pit soils demonstrated that excavation has been

done to the extent practicable, and the site has been remediated to levels below NR 720 soil cleanup standards.

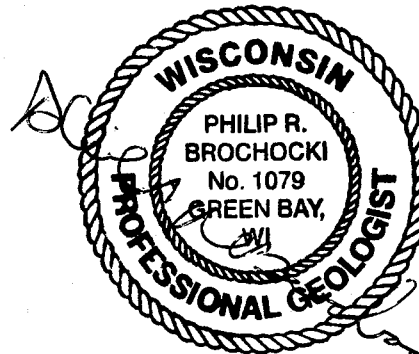
Pursuant to the requirements of NR 726, a Case Summary and Closeout form has been prepared for this site and is included with this report.

I, Nandakumaran Paruvakat, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.



Nandakumaran Paruvakat
7-31-97

I, Philip R. Brochocki, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.



**Power Plant Underground Tank Compliance
Site Assessment and Remediation Documentation
Green Bay Correctional Institution Heating Plant
WDNR LUST ID # 03-05-2140**

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Appendix B	"Checklist for Underground Tank Closure" DILHR Form SBD-8951 (N 02/91)
Appendix C	Certificate of Tank Destruction
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Appendix E	Photograph Documentation
Appendix F	WDNR Correspondence
Appendix G	STS Consultants Ltd. Site Information
Appendix H	Laboratory Analytical Data Chain-of-Custody Record
Appendix I	"Case Summary and Closeout" WDNR Form 4400-171

1 Site Background Information

1.1 Site Location and History

The site is located at the Green Bay Correctional Institution, 2833 Riverside Drive, Green Bay, Wisconsin. The site is located in the Village of Allouez in Brown County. The location is shown on the "Site Location Map", Figure 1-1, which is a portion of the United States Geological Survey (USGS), De Pere Quadrangle, 7.5-minute series topographic map published in 1982. The terrain of the Institution is flat and is approximately 1500 ft east of the Fox River. A minimal amount of free water was encountered within the 20,000-gal tank pit at approximately 11 ft below grade. It could not be determined whether this water was perched groundwater or surface water that was trapped within the tank backfill.

The two 20,000 USTs were located west of the northwest corner of the heating plant along the prison wall, as shown on the "Site Layout Map", Figure 1-2. The 1,000-gal UST was located immediately north of the southeast corner of the heating plant. All three USTs were steel, single wall tanks. The two 20,000-gal USTs (Tanks 1 and 2) served the oil-fired boilers in the heating plant and were installed in 1972. The 1,000-gal UST (Tank 3) served an emergency generator and was installed in 1984. The larger tanks' fill pipes and vent pipes were located north of the tanks and outside of the prison wall, respectively. The fill pipe for the small tank was directly above the tank.

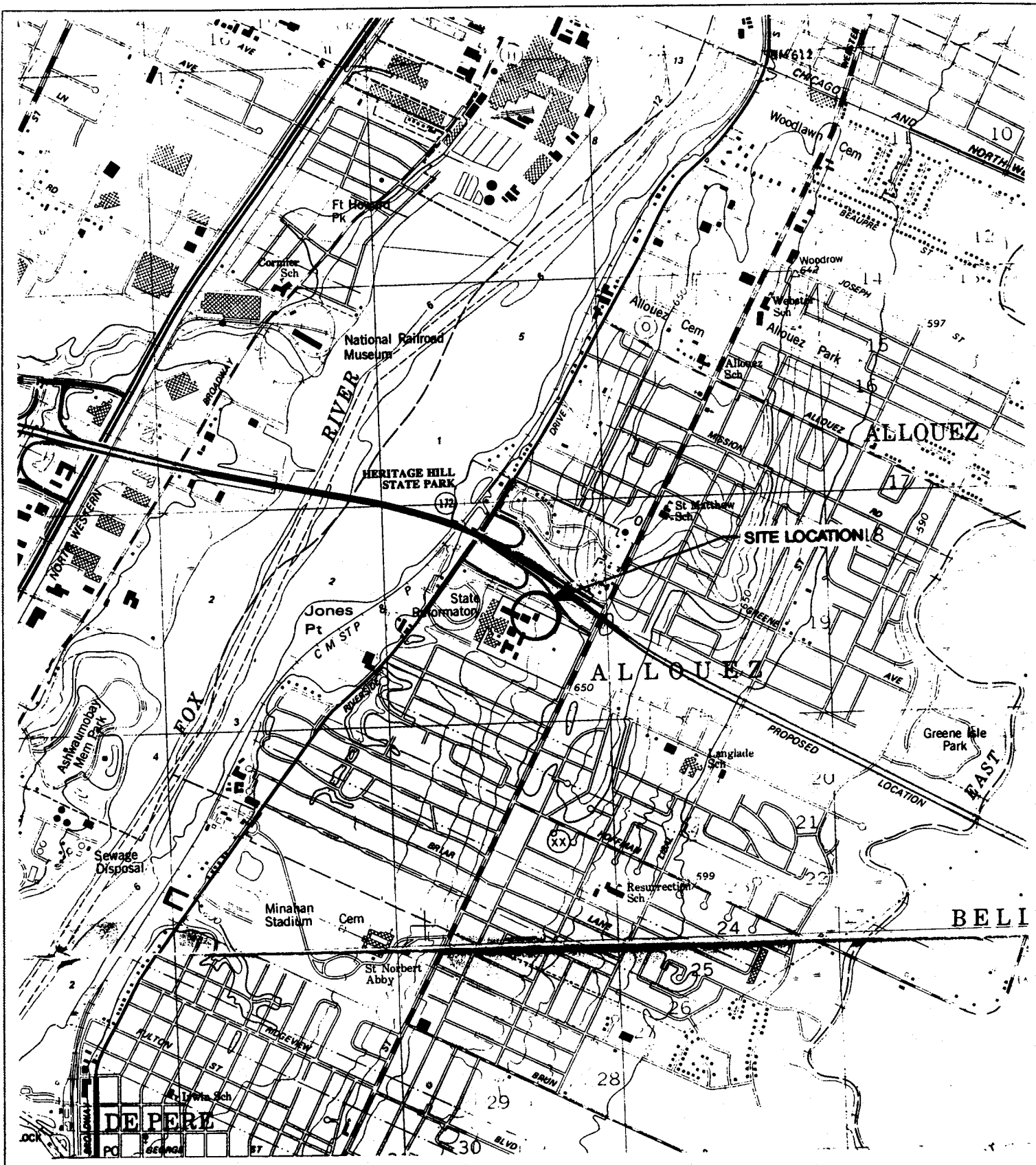
The registration numbers for the tanks are as follows:

- ♦ 20,000 gal tanks - 051600012 and 051600013
- ♦ 1,000 gal tank - 051600009

A copy of the "Underground Petroleum Product Tank Inventory" form (DILHR SBD-7437) were completed at the time of the tank closures and indicate that the tanks were permanently closed by removal. Copies of these forms are presented in Appendix A.

In 1990 during removal of a 500 gal diesel UST, which was previously located between the subject 1,000 gal UST and the Generator Building, contaminated soil was observed. This release was documented by the WDNR as WDNR LUST ID# 05-00132. In 1990 STS Consultants Ltd. (STS) drilled two soil borings (GBCI-4 and GBCI-5) adjacent to the former contaminated soil excavation site. Laboratory analysis of the soil samples collected from the borings indicated that very low levels of contamination were present in the boring east of the former 500 gal diesel tank pit (GBCI-4). The soil sample collected from GBCI-5 indicated that toluene was present at a level of 4.5 ug/kg. GBCI-5 was located adjacent to the subject 1,000 gal tank product piping.

In 1992 STS installed a monitoring well adjacent to the northeast corner of the former 500-gal diesel tank pit. 1992 and 1993 groundwater sampling did not indicate the presence of contamination. In September, 1992 approximately 26 tons of contaminated soil was disposed of at Brown County Landfill. This volume was composed of the previously stockpiled



SOURCE: USGS 7.5 MIN. QUAD
DE PERE, WISCONSIN



QUADRANGLE LOCATION



STATE OF WISCONSIN DEPARTMENT OF ADMINISTRATION		94W048
BROWN COUNTY		DRAWING NO.
FIGURE 1-1 SITE LOCATION MAP GREEN BAY CORRECTIONAL INSTITUTION GREEN BAY, WISCONSIN		
SCALE: 1" = 2000'	A/E NUMBER: 95W056	DATE: AUGUST, 1995
PREPARED BY:	Foth & Van Dyke	
	BY:	BSH

contaminated soil generated at the time of the tank removal (1990) and approximately 10 cu yd of contaminated soil that was overexcavated in 1992. This LUST site (05-00132) was closed by the WDNR in February 1994.

The UST Owner/Operator is:

Wisconsin Department of Corrections - Green Bay Correctional Institution
2833 Riverside Drive
P.O. Box 19033
Green Bay, Wisconsin 54307-9033

State of Wisconsin, Division of Facilities Development Project Manager is:

Mr. Martin Romero, P.E.
Wisconsin Department of Administration
Division of Facilities Development
101 East Wilson Street 7th Floor
P.O. Box 7866
Madison, WI 53707-7866
(608) 266-2886

Site Contact is:

Mr. Christopher Timmers, Heating Plant Superintendent
Green Bay Correctional Institution
P.O. Box 19033
Green Bay, WI 54307-9033
(414) 432-4877

The Project Consultant is:

Philip R. Brochocki, P.G.
Foth & Van Dyke
P.O. Box 19012
Green Bay, WI 54307-9012
(414) 497-2500

1.2 Site Soils

Two soil types were encountered at the site. The soil type around the two 20,000-gal USTs was Allendale fine sandy loam (AeA) and the soil type around the 1,000-gal UST was Oshkosh silt loam (OnB) according to the *Soil Survey of Brown County, Wisconsin*.

Allendale fine sandy loam is part of the Allendale series, which consists of deep, somewhat poorly drained soils on lacustrine plains. In a typical profile of the series the surface layer is dark grayish-brown loamy fine sand about 8 in thick. The subsurface layer, about 7 in thick, is reddish-yellow and strong-brown fine sand mottled with yellowish red and light brownish gray. The subsoil is about 25 in thick. It is dark-brown to brown fine sand mottled with reddish yellow in the upper part, brown loamy fine sand mottled with reddish yellow and gray in the middle part, and reddish-brown silty clay mottled with strong brown and reddish yellow in the lower part. The substratum is reddish-brown silty clay that extends to a depth of 60 in. The Allendale fine sandy loam, 0 to 3 % slopes variety (AeA) is similar to that described above but the surface layer is lighter colored and has a lower content of sand. The sandy part of the profile is rapidly permeable (between 6 and 20 in/hr) and the clayey lower part and the substratum is slowly permeable (between 0.06 and 0.2 in/hr). Runoff is also slow. The Allendale soils have medium available water capacity.

Oshkosh silt loam is part of the Oshkosh series which consists of deep, well drained and moderately well drained soils on lacustrine plains dissected by V-shaped valleys. In a typical profile of the series the surface layer is dark-gray to very dark grayish brown silt loam about 4 in thick. The subsurface layer is weak red silt loam about 3 in thick. The subsoil is about 22 in thick. The upper 2 in is dark reddish-gray to reddish-clay. The upper 2 in of the substratum is reddish-brown silty clay loam, and the lower part is reddish-brown silty clay. The Oshkosh silt loam, 2 to 6 % slopes variety (OnB) has the profile described above. The Oshkosh soils exhibit slow permeability (between 0.06 and 0.2 in/hr) and have medium available water capacity.

2 Site Assessment

2.1 Work Functions

Stiles Environmental Testing performed the excavation, tank cleaning and tank removal procedures. Stiles also arranged for disposal of the tank sludge and cleaning wastes. At the time of this report Stiles had not presented tank sludge and cleaning wastes disposal information. Salvage Specialists, Inc. cut the tanks into scrap for disposal. Foth & Van Dyke performed the site assessment procedures.

DILHR Certified Tank Remover
DILHR Certified Tank Cleaner
Sludge/Waste Transporter and Disposer

Stiles Environmental Testing, Inc.
W7694 Hwy V
Lake Mills, Wisconsin 53551-9643
(414) 648-8084
Remover: Doug Stiles
DILHR Cert. No. 03100
Expiration date: 02/12/98
Cleaner: Chris Hinz
DILHR Cert. No. 02991

Expiration Date: 12/21/97

Tank Destruction

Salvage Specialists, Inc.
518 E. Main St.
Waterford, WI 53185
(414) 534-2866

DILHR Certified Site Assessor

Foth & Van Dyke
2737 S. Ridge Road, P.O. Box 19012
Green Bay, Wisconsin 54307-9012
(414) 497-2500
Site Assessor: John Blayne Kirsch
DILHR Cert. No. 05312
Expiration Date: 03/13/98

Soil Disposal

Ridgeview Recycling and Disposal
Facility
6207 Hempton Lake Road
Whitelaw, WI 54247-0227
Profile No. BIO 22509

2.2 Tank Closure

Two 20,000-gal USTs were permanently closed by removal on July 13-14, 1995. One 1,000-gal tank was closed by removal on November 21, 1995. The Village of Allouez Fire Department was notified prior to tank removal operations. Capt. Robert Dunks (Tank Inspector LPO No. 002) was at the site on July 14 during tank removal.

The tanks were cleaned in the ground before being removed from the excavation. No fuel oil was recovered from the USTs for reuse. The atmosphere within the tank was checked for combustible vapors and the tank was vented using a blower before being cleaned. A 20- to 24-in circular manway was used to gain access to the inside of the tanks for cleaning. Approximately

650 gal of cleaning sludge were removed from the 20,000 gal tanks and approximately 500 gal from Tank No. 3. The sludge was placed into 55-gal drums for disposal. An absorbent material was then placed in the bottom of the tank to soak up the remaining sludge residue, which was subsequently removed and also placed into drums for disposal. The drums of tank sludge and cleaning waste were disposed of by Stiles Environmental Testing. Waste disposal documentation has not been received from Stiles at the time of this report. This information will be forwarded to the WDNR when received.

The two 20,000-gal tanks and the 1,000-gal tank were removed from two separate excavations. The depth to the tops of the three tanks was approximately 2 ft. The two large USTs were steel, single-wall tanks, 11 ft by 26 ft. The approximate dimensions of the 1,000-gal tank were 5 ft by 6 ft. Native clays were encountered in both tank excavations after the tank backfill was removed. The clays were very hard and dry. The three tanks were backfilled with sand and gravel.

The two 20,000-gal USTs were each anchored in the excavation with steel hold down straps secured to individual concrete slabs beneath the tanks. The bottom of these tanks were approximately 13 ft below grade. To remove the tanks, the hold down straps were sheared off using the backhoe bucket. The concrete slabs were left in the tank pit but the steel straps were removed. To facilitate removal, each 20,000-gal tank was cut in half and then lifted out of the excavations.

Soil around the remote fill pipes was excavated by hand in order to protect the adjacent gas main and facilitate removal. Discoloration of grass and surficial soils was not observed. However at a depth of approximately 5 ft elevated PID readings were detected from samples collected for laboratory analysis.

The 20,000-gal tank excavation site was covered with grass. Staining and petroleum odor were evident at the fill pipe of Tank No. 1 and soils above Tank No. 2. While excavating, the backhoe broke the return line between the two 20,000-gal tanks which released a small amount fuel oil that contaminated a small amount of soil. All of the contaminated soil encountered was excavated and stockpiled for disposal. Contaminated soil was not encountered during the removal of the 1,000 gal tank.

A minimal amount of free water was encountered within the 20,000-gal tank pit at approximately 11 ft below grade. It could not be determined whether this water was perched groundwater or surface water that was trapped within the tank backfill. There was no petroleum odor or film associated with the groundwater and it was not sampled.

The "*Checklist for Underground Tank Closure*" forms (DILHR SBD-8951, N 02/91) were completed and copies of the forms are included in Appendix B. The tanks appeared to be in good condition. The excavations were backfilled with clean imported sand and the previously excavated material that was judged as uncontaminated.

The tanks were cut into scrap by Salvage Specialists, Inc. A copy of the letter documenting destruction of the tanks is included in Appendix C.

The contaminated soil within the tank pit was remediated by overexcavation. Approximately 63 ton of contaminated soil was disposed of at Ridgeview Recycling and Disposal Facility's biopile in Whitelaw, Wisconsin. Disposal documentation as well as a completed WDNR "Notification to Treat or Dispose of Petroleum Contaminated Soil & Water" Form 4400-120 are presented in Appendix D.

Photographs of the UST site including excavation, tank removal, and the decommissioned tank are included in Appendix E.

Documentation of WDNR notification of the contaminated soil observed is presented in Appendix F.

3 Remedial Actions

3.1 Over Excavation

Overexcavation of contaminated soil continued at the site until July 14, 1995. A PID was used to screen soil headspace samples. Soils that were believed to be contaminated were stockpiled for future disposal or treatment. The approximate limits of excavation are shown in Figure 3-1. Contaminated soil was confined to the areas around Tank No.1 fill pipe, above Tank No.2 and the soil between the tanks (which resulted from excavation practices) and the soils beneath the remote fill pipes. According to Stiles the soils beneath the remote fill pipes could not be overexcavated due to the close proximity of the large gas pipe as shown on Figures 1-2 and 3-1.

Approximately 63 tons of contaminated soil was generated as part of the remedial action. Appendix D presents the WDNR soil disposal notification Form 4400-120. Analytical results the samples collected from the separated contaminated soil were tabulated and are presented in Table 3-1.

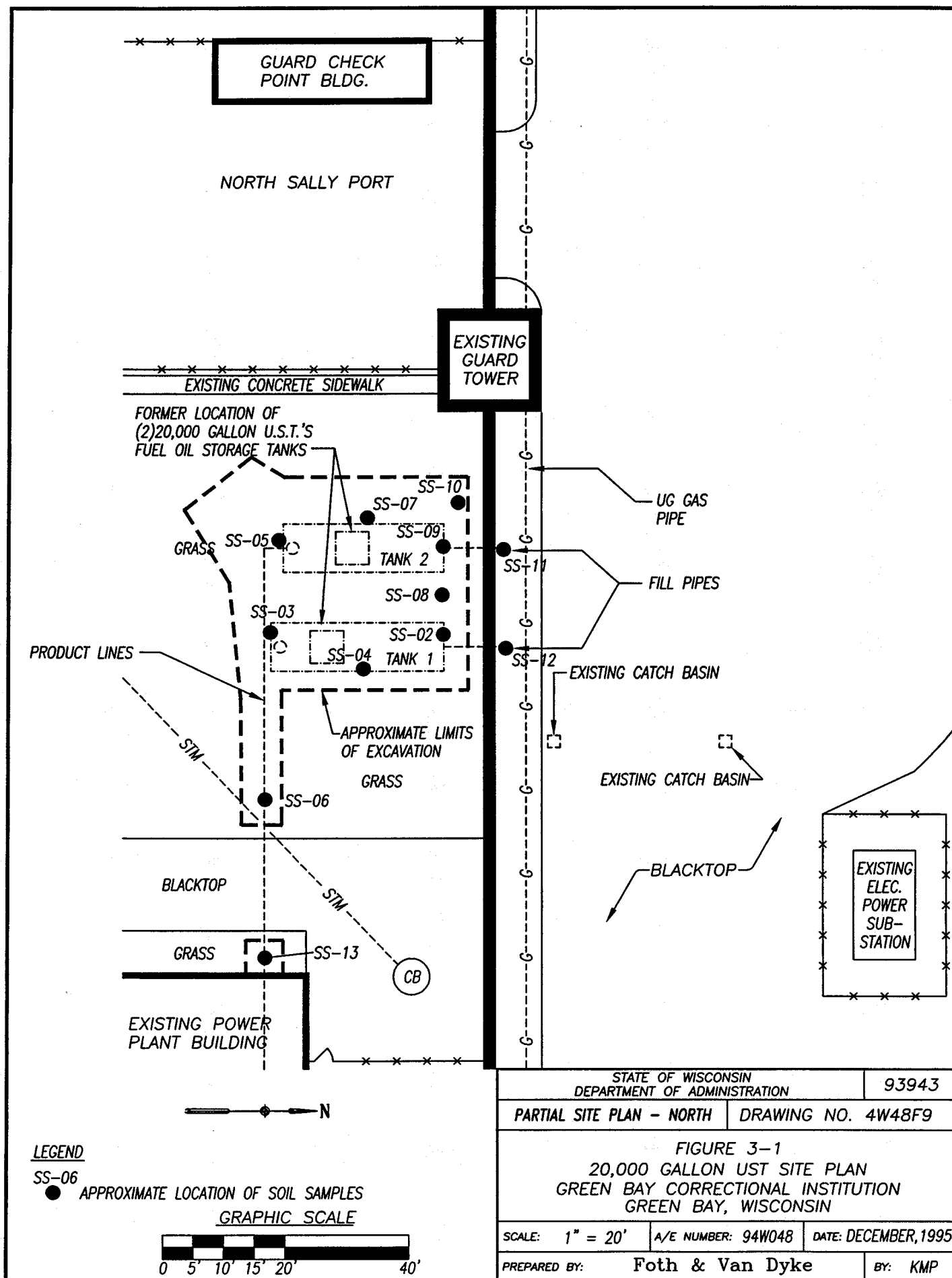
Contaminated soil was not encountered during the removal of the 1,000 gal tank.

3.2 Soil Sample Methodology

Soil samples collected during the 20,000 gal tank assessment were from the native soils beneath the remote fill ports, the supply/return fuel piping, from the bottom of the excavation just beyond the edge of the concrete hold-down slab at each end of the tank, and under the supply/return piping where it entered the building. Figure 3-1 shows the soil sample locations.

Soil samples collected during the 1,000-gal tank assessment were from the native soils beneath each end of the tank. An assessment sample was not collected from soil around the product lines as STS demonstrated through their boring GBCI-5 that only toluene was detected at a level of 4.5 ug/kg. Soil sampling locations are shown on Figures 3-2. The information provided by STS is presented in Appendix G.

Headspace samples collected from the excavations were field screened using a photoionization detector (PID) for the presence of volatile organic compounds (VOCs) following the headspace sample container analysis procedure, as described in Chapter ILHR 10, Wis. Adm. Code, Appendix B. The PID used was a Photovac MicroTIP HL-200 (Serial No. PA910111) with a 10.6 electron-volt (eV) lamp. The PID was field calibrated to a span gas with a concentration of 100 parts-per-million (ppm) isobutylene each construction day, prior to measuring the headspace samples. Field headspace sampling results corresponding to the soil samples collected for laboratory analysis are presented on Table 3-2.



4W48F9.DWG

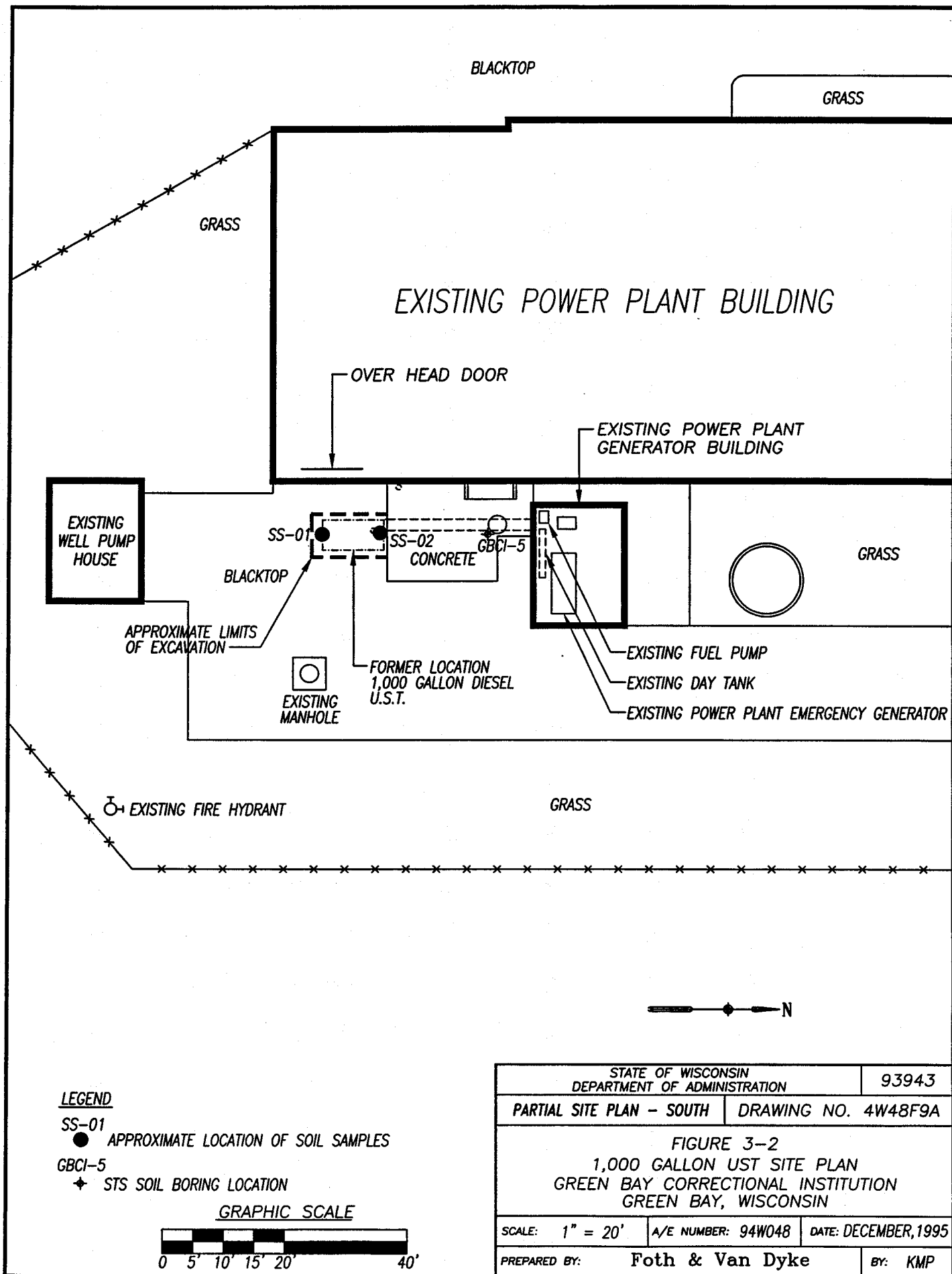
Table 3-1

**Green Bay Correctional Institute Power Plant
Soil Stockpile Analytical Results
Fuel Oil Tank Assessment/Remediation
Protocol D-1 DRO**

Sample ID	Sample Description	Date Sampled	Total Solids (%)	Lead (mg/kg)	Ignitability (°F)	Frep Liquids (%)	DRO (mg/kg)	Benzene (µg/kg)
SP-02	Soil Pile Mid	07/14/95	86	5.2	>210	0.0	150	<25

DRO = Diesel Range Organics by Wisconsin Modified DRO method.
< = Compound below minimum detection limit shown.

Prepared by: MDF
Checked by: PRB



4W48F9.DWG

Table 3-2

**Green Bay Correctional Institute Power Plant
Soil Analytical Results
Fuel Oil Tank Assessment/Remediation
Field Screening, PVOCs, and DRO**

Sample ID/ Depth (ft)	Sample Description	Date Sampled	PID	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl- benzene (ug/kg)	m/p Xylenes (ug/kg)	O- Xylenes (ug/kg)	MTBE (ug/kg)	1,2,4- Tri- methyl- benzene (ug/kg)	1,3,5-Tri- methyl- benzene (ug/kg)	DRO (mg/kg)	Lead (mg/kg)
20,000-Gal Heating Oil Tank System													
SS-02/12	T-1 NW D12 HS-06	07/13/95	34	NA	NA	NA	NA	NA	NA	NA	NA	72	NA
SS-03/12	T-1 EW D12 HS-07	07/13/95	1	NA	NA	NA	NA	NA	NA	NA	NA	<4.4	NA
SS-04/11	T-1 SW D11 HS-08	07/13/95	2	NA	NA	NA	NA	NA	NA	NA	NA	<4.2	NA
SS-05/11	T-2 SW D11 HS12	07/14/95	1.3	NA	NA	NA	NA	NA	NA	NA	NA	17	NA
SS-06/5	PR W D5 HS15	07/14/95	0.0	NA	NA	NA	NA	NA	NA	NA	NA	<4.5	NA
SS-07/11	T-2 WW D11 HS13	07/14/95	0.0	NA	NA	NA	NA	NA	NA	NA	NA	<4.4	NA
SS-08/13	T-2 NW D13 HS16	07/14/95	65	<25	<25	<25	<25	<25	<25	<25	<25	<4.6	5.3
SS-09/15	T-2 NWB D15 HS17	07/14/95	4	<25	<25	<25	<25	<25	<25	<25	<25	<4.6	5.4
SS-10/13	T-2 NWNW D13 HS19	07/14/95	0.0	<25	<25	<25	<25	<25	<25	<25	<25	<4.4	4.9
SS-11/5	FPT-2 D5 HS20	07/14/95	152	<25	<25	<25	<25	<25	<25	<25	<25	1100	15
SS-12/5	FPT-1 D5 HS-21	07/14/95	114	<25	<25	130	220	83	<25	1400	<25	1600	12
SS-13/4	PRE D4 HS22	07/14/95	0.6	NA	NA	NA	NA	NA	NA	NA	NA	<4.2	NA
1,000-Gal Digester Tank System													
SS-01/8	GB-1,000-South	11/21/95	16.0 ^(C)	NA	NA	NA	NA	NA	NA	NA	NA	<4.1	NA
SS-02/8	GB-1,000-North	11/21/95	0.0 ^(C)	NA	NA	NA	NA	NA	NA	NA	NA	<4.3	NA

Table 3-2 (Continued)

Sample ID/ Depth (ft)	Sample Description	Date Sampled	PID	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl- benzene (ug/kg)	m/p Xylenes (ug/kg)	O- Xylenes (ug/kg)	MTBE (ug/kg)	1,2,4- Tri- methyl- benzene (ug/kg)	1,3,5-Tri- methyl- benzene (ug/kg)	DRO (mg/kg)	Lead (mg/kg)
Soil Cleanup Standards (NR 720)													
	RCL			5.5	1500	2900	(4100) ^(B)	(4100) ^(B)	NE	NE	NE	250	50

Prepared by: MDF
Checked by: PRB

NA = Not Analyzed
 NE = Not Established
 PVOCs = Petroleum Volatile Organic Compounds (8020 method list)
 MTBE = Methyl tert-butyl ether
 DRO = Diesel Range Organics by Wisconsin Modified DRO Method
 < = Compound below minimum detection limit shown
 RCL = Residual Contaminant Level
 For soils with saturated hydraulic conductivity less than 1×10^{-6} cm/sec, DRO at 250 mg/kg
 For non-industrial land uses, lead at 50 mg/kg, for industrial land uses, lead at 500 mg/kg

^(A)Constituent units for this sample are $\mu\text{g/l}$.

^(B)Standard established for total xylenes, summation of m/p and O-xylenes.

Soil sample locations are shown on Figures 3-1 and 3-2.

All samples collected were analyzed for DRO, following the WDNR Modified DRO method. Samples SS-08 through SS-12 (20,000-gal tank system) were analyzed for petroleum volatile organic compounds (PVOC), polynuclear aromatic hydrocarbons (PAH), and lead. Soil samples were analyzed by En Chem Inc., Green Bay, Wisconsin. A copy of the laboratory reports and the chain-of-custody records are presented in Appendix H. Samples collected for laboratory analysis were obtained using EnChem Encore Sampler. Sampling results are summarized in Tables 3-2 and 3-3.

Table 3-3

**Green Bay Correctional Institute Power Plant
Soil Analytical Results
Fuel Oil Tank Assessment/Remediation
Polynuclear Aromatic Hydrocarbons (PAHs)^(A)
20,000-Gal Heating Oil Tank System**

Sample ID	Sample Description	Date Sampled	Acenaph-thene (ug/kg)	Acenaph-thylene (ug/kg)	Anthracene (ug/kg)	Benzo (a) anthracene (ug/kg)	Benzo (a) pyrene (ug/kg)	Benzo (b) fluoranthene (ug/kg)	Benzo (ghi) perylene (ug/kg)	Benzo (k) fluoranthene (ug/kg)	Chrysene (ug/kg)
SS-08	T-2 NW D13 HS16	07/14/95	<59	<120	<2.3	<2.9	<2.3	<2.3	5.5	<2.3	<2.9
SS-09	T-2 NWB D15 HS17	07/14/95	<19	<39	<0.8	<1.0	<0.8	<0.8	<5.8	<0.8	<1.0
SS-10	T-2 NWNW D13 HS19	07/14/95	<19	<39	<0.8	<1.0	<0.8	<0.8	<5.8	<0.8	<1.0
SS-11	FPT-2 D5 HS20	07/14/95	<21	<43	<0.9	<5.3	<4.3	<4.3	<6.4	<4.3	20
SS-12	FPT-1 D5 HS21	07/14/95	<340	<680	<14	<17	<14	35	<20	<14	62

Sample ID	Sample Description	Date Sampled	Dibenzo (a,h) anthracene (ug/kg)	Fluor-anthene (ug/kg)	Fluorene (ug/kg)	Indeno (1,2,3-cd) pyrene (ug/kg)	1-Methyl-naphthalene (ug/kg)	2-Methyl-naphthalene (ug/kg)	Naphthalene (ug/kg)	Phenan-threne (ug/kg)	Pyrene (ug/kg)
SS-08	T2 NW D13 HS16	07/14/95	2.6	<2.3	<12	<2.3	<59	<59	<59	<12	<12
SS-09	T-2 NWB D15 HS17	07/14/95	<3.9	<0.8	<3.9	<3.9	<19	<19	<19	<3.9	<3.9
SS-10	T-2 NWNW D13 HS19	07/14/95	<3.9	<0.8	<3.9	<3.9	<19	<19	<19	<3.9	<3.9
SS-11	FPT-2 D5 HS20	07/14/95	<4.3	<0.9	<4.3	<4.3	<21	<21	<21	<4.3	7.1
SS-12	FPT-1 D5 HS21	07/14/95	<14	<14	<68	<14	<340	<340	<340	<68	<68

< = Compound below minimum detection limit shown.
Note (A) There are no soil cleanup standards established for any of these PAHs.

Prepared by: MDF
Checked by: PRB

Soil sample locations are shown on Figure 3-1.

4 Conclusions

- ♦ Elevated PID readings and petroleum staining/odor in the soils adjacent to the 20,000 gal tanks indicated that a release of petroleum had occurred during operation of the tank system.
- ♦ Soil contamination was detected in the samples collected from beneath the remote fill ports for the 20,000-gal tanks even though surface staining was not evident. DRO was detected at elevated concentrations at these locations with a few minor detects of PAHs, however PVOC were not detected. The contaminated soil could not be excavated due to the presence of a gas main pipe.
- ♦ Water collected at the bottom of the 20,000-gal tank excavation. It could not be determined whether this water was perched groundwater or surface water that was trapped within the tank backfill. There was no petroleum odor or film associated with the groundwater and it was not sampled.
- ♦ Approximately 63 tons of overexcavated contaminated soil was generated as part of the remedial action. The petroleum-impacted soil was treated and disposed of at Waste Management's Ridgeview Landfill in Whitelaw, Wisconsin. Stiles also disposed of the tank cleaning waste. This documentation will be supplied to the WDNR when it has been obtained from Stiles.
- ♦ Laboratory reports on the soil samples collected from the contaminated soil overexcavation indicate that the contaminated soil was removed and the site remediated to levels below NR 720 soil standards.
- ♦ Contaminated soil was not encountered during the removal of the 1,000-gal diesel tank.

5 Recommendation

Since accessible contaminated soil has been remediated to the practical and physical extent, Foth & Van Dyke recommends that the site be closed. A completed WDNR Case Summary and Closeout Form has been prepared in order to expedite project review and case closeout. Appendix I presents the completed form and supplemental information.

6 Limitations of Assessment

This report was prepared under constraints of cost, time, and scope, and reflects a limited assessment and evaluation rather than a full, total, complete or extensive assessment and evaluation.

Our assessment was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by Professional Consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusion and professional advice included in this report.

The findings of this report are valid as of the present date of the assessment. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge, or from other reasons. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control.

If the interpretations and conclusions contained in this report are based upon the result of independent laboratory tests and analysis intended to detect the presence and/or concentration of certain chemical constituents in samples taken from the subject property, such testing and analysis have been conducted by an independent testing laboratory. Foth & Van Dyke has no control over such testing and analysis and, therefore, disclaims any responsibility for any errors or omissions arising therefrom.

If the assessment contained in this report is based upon observation of conditions at the facility/site and/or information provided by the client and/or investigation of records, and it does not include sampling of soil, rock, groundwater, surface water, air, on-site substances or materials, it is, therefore, not possible to confirm the presence or absence of toxic or hazardous substances, wastes or materials in the environments associated with the facility/site.

If subsurface exploration was performed and presented in the report, any subsurface exploration cannot reveal totally what is below the surface. Depending upon the sampling method and frequency, every soil condition may not be observed, and some materials or layers which are present in the subsurface may not be noted.

This report is issued with the understanding that it is the responsibility of the owner(s) to ensure that the information and recommendations contained herein are brought to the attention of the appropriate regulatory agency(ies).

Appendix A

"Underground Petroleum Product Tank Inventory" DILHR Form SBD-7437

UNDERGROUND
PETROLEUM PRODUCT
TANK INVENTORYSend Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

For Office Use Only:

Tank ID # 051600012

Information Required By Sec. 102.142, Wis. Stats.

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (included piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously registered this tank by submitting a form? ☒ YES ☐ NO If yes, are you correcting/updating information only? ☒ Yes ☐ No

This registration applies to a tank that is (check one):

- 1A. ☐ In Use or 1B. ☐ Newly Installed 4. ☒ Closed - Tank Removed 8. ☐ Changed Ownership
2. ☐ Abandoned With Product 6. ☐ Closed - Filled With (Indicate new owner
3. ☐ Abandoned No Product (empty) Inert Material below)
or With Water 7. ☐ Out of Service - Provide Date: _____

Fire Department Providing Fire Coverage
Where Tank Located:

ALLOUEZ FIRE DEPT.

0516

A. IDENTIFICATION: (Please Print)

1. Tank Site Name GREEN BAY CORRECTIONAL		Site Address 2833 RIVERSIDE DR.		Site Telephone No. 414/432-4877	
<input type="checkbox"/> City ALLOUEZ	<input checked="" type="checkbox"/> Village	<input type="checkbox"/> Town of:	State WI	Zip Code 54301	County BROWN
2. Owner Name (mail sent here unless indicated otherwise in #3 below) STATE OF WISCONSIN			Owner Mailing Address (mail sent here unless indicated otherwise in #3) PO BOX 2866		
<input checked="" type="checkbox"/> City MADISON	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:	State WI	Zip Code 53707	County DAVE
3. Alternate Mailing Name If Different Than #2			Alternate Mailing Street Address If Different From #2		
<input type="checkbox"/> City	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:	State	Zip Code	County
4. Tank Age (date installed, if known: or years old) 23 YRS		5. Tank Capacity (gallons) 20,000		6. Tank Manufacturer's Name (if known) UNKNOWN	

B. TYPE OF USER (check one):

1. ☐ Gas Station 2. ☐ Bulk Storage 3. ☐ Utility 4. ☐ Mercantile
5. ☐ Industrial 6. ☒ Government 7. ☐ School 8. ☐ Residential
9. ☐ Agricultural 10. ☐ Other (specify): _____

C. TANK CONSTRUCTION:

1. <input checked="" type="checkbox"/> Bare Steel	2. <input type="checkbox"/> Cathodically Protected and Coated Steel (A. <input type="checkbox"/> Sacrificial Anodes or B. <input type="checkbox"/> Impressed Current)	5. <input type="checkbox"/> Other (specify): _____
3. <input type="checkbox"/> Coated Steel	4. <input type="checkbox"/> Fiberglass	6. <input type="checkbox"/> Steel - Fiberglass Reinforced Plastic Composite
7. <input type="checkbox"/> Relined - Date _____	8. <input type="checkbox"/> Unknown	
Approval: 1. <input type="checkbox"/> Nat'l Std. 2. <input type="checkbox"/> UL 3. <input type="checkbox"/> Other: _____		Is Tank Double Walled? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Overfill Protection Provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, identify type: _____		Spill Containment? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tank leak detection method: 1. <input type="checkbox"/> Automatic tank gauging 2. <input type="checkbox"/> Vapor monitoring 3. <input type="checkbox"/> Groundwater monitoring 4. <input checked="" type="checkbox"/> Inventory control and tightness testing 5. <input type="checkbox"/> Interstitial monitoring 6. <input type="checkbox"/> Not required at present 7. <input type="checkbox"/> Manual Tank Gauging (only for tanks of 1,000 gallons or less)		

D. PIPING CONSTRUCTION

1. <input type="checkbox"/> Bare Steel	2. <input type="checkbox"/> Cathodically Protected and Coated or Wrapped Steel (A. <input type="checkbox"/> Sacrificial Anodes or B. <input type="checkbox"/> Impressed Current)	3. <input type="checkbox"/> Coated Steel
4. <input type="checkbox"/> Fiberglass	5. <input checked="" type="checkbox"/> Other (specify): COOPER / WRAPPED	6. <input type="checkbox"/> Unknown
Piping System Type: 1. <input type="checkbox"/> Pressurized piping with: A. <input type="checkbox"/> auto shutoff; B. <input type="checkbox"/> alarm; or C. <input type="checkbox"/> flow restrictor 2. <input type="checkbox"/> Suction piping with check valve at tank 3. <input checked="" type="checkbox"/> Suction piping with check valve at pump and inspectable		
Piping leak detection method: used if pressurized or check valve at tank: 1. <input type="checkbox"/> Vapor monitoring 2. <input type="checkbox"/> Interstitial monitoring 3. <input type="checkbox"/> Groundwater monitoring 4. <input type="checkbox"/> Tightness testing 5. <input type="checkbox"/> Line Leak Detector 6. <input checked="" type="checkbox"/> Not Required		
Approval: 1. <input type="checkbox"/> Nat'l Std. 2. <input type="checkbox"/> UL 3. <input type="checkbox"/> Other: _____		Double Walled: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

E. TANK CONTENTS

1. ☐ Diesel 2. ☐ Leaded 3. ☐ Unleaded 4. ☒ Fuel Oil
5. ☐ Gasohol 6. ☐ Other 7. ☐ Empty 8. ☐ Sand/Gravel/Slurry
9. ☐ Unknown 10. ☐ Premix 11. ☐ Waste Oil 12. ☐ Propane
13. ☐ Chemical * 14. ☐ Kerosene 15. ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

If Tank Closed, Give Date (mo/day/yr): 7-14-95	Has a site assessment been completed? (see reverse side for details) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
---	---

If installation of a new tank is being reported, indicate who performed the installation inspection: 1. <input type="checkbox"/> Fire Department 2. <input type="checkbox"/> DILHR 3. <input type="checkbox"/> Other (identify) _____	
Name of Owner or Operator (please print): TERRY D. COOK	Indicate Whether: <input checked="" type="checkbox"/> Owner or <input type="checkbox"/> Operator
Signature of Owner or Operator: Terry D Cook	Date Signed: 7-14-95

UNDERGROUND
PETROLEUM PRODUCT
TANK INVENTORYSend Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

For Office Use Only:

Tank ID # 051600013

Information Required By Sec. 102.142, Wis. Stats.

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (included piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously registered this tank by submitting a form? ☒ YES ☐ NO If yes, are you correcting/updating information only? ☒ Yes ☐ No

This registration applies to a tank that is (check one):

- 1A ☐ In Use or 1B ☐ Newly Installed 4 ☒ Closed - Tank Removed 8 ☐ Changed Ownership
2 ☐ Abandoned With Product 6 ☐ Closed - Filled With (Indicate new owner
3 ☐ Abandoned No Product (empty) Inert Material below)
or With Water 7 ☐ Out of Service - Provide Date: _____

Fire Department Providing Fire Coverage
Where Tank Located:ALLOUEZ PUBLIC SAFETY
0516

A. IDENTIFICATION: (Please Print)

1. Tank Site Name <u>GREEN BAY CORRECTIONAL</u>		Site Address <u>2833 RIVERSIDE DR</u>		Site Telephone No. <u>(414) 432-4877</u>	
<input type="checkbox"/> City <u>ALLOUEZ</u>	<input checked="" type="checkbox"/> Village	<input type="checkbox"/> Town of:	State <u>WI</u>	Zip Code <u>54301</u>	County <u>BROWN</u>
2. Owner Name (mail sent here unless indicated otherwise in #3 below) <u>STATE OF WISCONSIN</u>			Owner Mailing Address (mail sent here unless indicated otherwise in #3) <u>101 E. WILSON ST.</u>		
<input type="checkbox"/> City <u>MADISON</u>	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:	State <u>WI</u>	Zip Code <u>53707</u>	County <u>DANE</u>
3. Alternate Mailing Name If Different Than #2			Alternate Mailing Street Address If Different From #2		
<input type="checkbox"/> City	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:	State	Zip Code	County
4. Tank Age (date installed, if known: or years old) <u>23 YRS</u>		5. Tank Capacity (gallons) <u>20,000</u>		6. Tank Manufacturer's Name (if known)	

B. TYPE OF USER (check one):

1. ☐ Gas Station 2. ☐ Bulk Storage 3. ☐ Utility 4. ☐ Mercantile
5. ☐ Industrial 6. ☒ Government 7. ☐ School 8. ☐ Residential
9. ☐ Agricultural 10. ☐ Other (specify): _____

C. TANK CONSTRUCTION:

1. <input checked="" type="checkbox"/> Bare Steel		2. <input type="checkbox"/> Cathodically Protected and Coated Steel (A. <input type="checkbox"/> Sacrificial Anodes or B. <input type="checkbox"/> Impressed Current)		3. <input type="checkbox"/> Coated Steel	
3. <input type="checkbox"/> Coated Steel		4. <input type="checkbox"/> Fiberglass		5. <input type="checkbox"/> Other (specify): _____	
6. <input type="checkbox"/> Relined - Date _____		7. <input type="checkbox"/> Steel - Fiberglass Reinforced Plastic Composite		9. <input type="checkbox"/> Unknown	
Approval: 1. <input type="checkbox"/> Nat'l Std. 2. <input type="checkbox"/> UL 3. <input checked="" type="checkbox"/> Other: <u>UNKNOWN</u>				Is Tank Double Walled? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Overfill Protection Provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, identify type: _____				Spill Containment? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Tank leak detection method: 1. <input type="checkbox"/> Automatic tank gauging 2. <input type="checkbox"/> Vapor monitoring 3. <input type="checkbox"/> Groundwater monitoring 4. <input checked="" type="checkbox"/> Inventory control and tightness testing 5. <input type="checkbox"/> Interstitial monitoring 6. <input type="checkbox"/> Not required at present 7. <input type="checkbox"/> Manual Tank Gauging (only for tanks of 1,000 gallons or less)					
D. PIPING CONSTRUCTION					
1. <input type="checkbox"/> Bare Steel		2. <input type="checkbox"/> Cathodically Protected and Coated or Wrapped Steel (A. <input type="checkbox"/> Sacrificial Anodes or B. <input type="checkbox"/> Impressed Current)		3. <input type="checkbox"/> Coated Steel	
4. <input type="checkbox"/> Fiberglass		5. <input checked="" type="checkbox"/> Other (specify): <u>COPPER, WRAPPED</u>		9. <input type="checkbox"/> Unknown	
Piping System Type: 1. <input type="checkbox"/> Pressurized piping with: A. <input type="checkbox"/> auto shutoff; B. <input type="checkbox"/> alarm; or C. <input type="checkbox"/> flow restrictor 2. <input type="checkbox"/> Suction piping with check valve at tank					
3. <input checked="" type="checkbox"/> Suction piping with check valve at pump and inspectable					
Piping leak detection method: used if pressurized or check valve at tank: 1. <input type="checkbox"/> Vapor monitoring 2. <input type="checkbox"/> Interstitial monitoring					
3. <input type="checkbox"/> Groundwater monitoring 4. <input type="checkbox"/> Tightness testing 5. <input type="checkbox"/> Line Leak Detector 6. <input checked="" type="checkbox"/> Not Required					
Approval: 1. <input type="checkbox"/> Nat'l Std. 2. <input type="checkbox"/> UL 3. <input type="checkbox"/> Other: _____				Double Walled: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

E. TANK CONTENTS

1. ☐ Diesel 2. ☐ Leaded 3. ☐ Unleaded 4. ☒ Fuel Oil
5. ☐ Gasohol 6. ☐ Other 7. ☐ Empty 8. ☐ Sand/Gravel/Slurry
9. ☐ Unknown 10. ☐ Premix 11. ☐ Waste Oil 12. ☐ Propane
13. ☐ Chemical * _____ 14. ☐ Kerosene 15. ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

If Tank Closed, Give Date (mo/day/yr):

7-14-95

Has a site assessment been completed? (see reverse side for details)

☒ Yes ☐ No

If installation of a new tank is being reported, indicate who performed the installation inspection:

1. ☐ Fire Department 2. ☐ DILHR 3. ☐ Other (identify) _____

Name of Owner or Operator (please print):

TERRY D. COOK

Indicate Whether:

☒ Owner or ☐ Operator

Signature of Owner or Operator:

Terry D. Cook

2

Date Signed:

7-14-95

UNDERGROUND
PETROLEUM PRODUCT
TANK INVENTORYSend Completed For:
Safety & Buildings Div.
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

For Office Use Only:

Tank ID #

Information Required By Sec. 101.142, Wis. Stats.

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (included piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously registered this tank by submitting a form? ☒ YES ☐ NO If yes, are you correcting/updating information only? ☐ Yes ☐ No

This registration applies to a tank that is (check one):

- 1A. ☐ In Use or 1B. ☐ Newly Installed 4. ☒ Closed - Tank Removed 8. ☐ Changed Ownership
2. ☐ Abandoned With Product 6. ☐ Closed - Filled With (Indicate new owner
3. ☐ Abandoned No Product (empty) Inert Material below)
or With Water 7. ☐ Out of Service - Provide Date: _____

Fire Department Providing Fire Coverage
Where Tank Located:

A. IDENTIFICATION: (Please Print)

1. Tank Site Name <u>Green Bay Correctional</u>		Site Address <u>2833. Riverside</u>		Site Telephone No. <u>(414) 432-487</u>	
<input checked="" type="checkbox"/> City <u>Green Bay</u>	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:	State <u>WI</u>	Zip Code <u>54307</u>	County <u>BROWN</u>
2. Owner Name (mail sent here unless indicated otherwise in #3 below) <u>State of Wisconsin</u>			Owner Mailing Address (mail sent here unless indicated otherwise in #3) <u>101 E. Wilson</u>		
<input checked="" type="checkbox"/> City <u>Madison</u>	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:	State <u>WI</u>	Zip Code <u>53707</u>	County <u>DANE</u>
3. Alternate Mailing Name If Different Than #2			Alternate Mailing Street Address If Different From #2		
<input type="checkbox"/> City	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:	State	Zip Code	County
4. Tank Age (date installed, if known: or years old)		5. Tank Capacity (gallons) <u>1000</u>		6. Tank Manufacturer's Name (if known)	

B. TYPE OF USER (check one):

1. ☐ Gas Station 2. ☐ Bulk Storage 3. ☐ Utility 4. ☐ Mercantile
5. ☐ Industrial 6. ☒ Government 7. ☐ School 8. ☐ Residential
9. ☐ Agricultural 10. ☐ Other (specify): _____

C. TANK CONSTRUCTION:

1. <input type="checkbox"/> Bare Steel	2. <input type="checkbox"/> Cathodically Protected and Coated Steel (A. <input type="checkbox"/> Sacrificial Anodes or B. <input type="checkbox"/> Impressed Current)	
3. <input checked="" type="checkbox"/> Coated Steel	4. <input type="checkbox"/> Fiberglass	5. <input type="checkbox"/> Other (specify): _____
6. <input type="checkbox"/> Relined - Date _____	7. <input type="checkbox"/> Steel - Fiberglass Reinforced Plastic Composite	9. <input type="checkbox"/> Unknown
Approval: 1. <input type="checkbox"/> Nat'l Std. 2. <input type="checkbox"/> UL 3. <input type="checkbox"/> Other:		Is Tank Double Walled? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Overfill Protection Provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, identify type:		Spill Containment? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tank leak detection method: 1. <input type="checkbox"/> Automatic tank gauging 2. <input type="checkbox"/> Vapor monitoring 3. <input type="checkbox"/> Groundwater monitoring 4. <input checked="" type="checkbox"/> Inventory control and tightness testing 5. <input type="checkbox"/> Interstitial monitoring 6. <input type="checkbox"/> Not required at present 7. <input type="checkbox"/> Manual Tank Gauging (only for tanks of 1,000 gallons or less)		

D. PIPING CONSTRUCTION

1. <input type="checkbox"/> Bare Steel	2. <input type="checkbox"/> Cathodically Protected and Coated or Wrapped Steel (A. <input type="checkbox"/> Sacrificial Anodes or B. <input type="checkbox"/> Impressed Current)	3. <input type="checkbox"/> Coated Steel
4. <input type="checkbox"/> Fiberglass	5. <input checked="" type="checkbox"/> Other (specify): <u>Copper</u>	9. <input type="checkbox"/> Unknown
Piping System Type: 1. <input type="checkbox"/> Pressurized piping with: A. <input type="checkbox"/> auto shutoff; B. <input type="checkbox"/> alarm; or C. <input type="checkbox"/> flow restrictor 2. <input type="checkbox"/> Suction piping with check valve at tank 3. <input type="checkbox"/> Suction piping with check valve at pump and inspectable		
Piping leak detection method: used if pressurized or check valve at tank: 1. <input type="checkbox"/> Vapor monitoring 2. <input type="checkbox"/> Interstitial monitoring 3. <input type="checkbox"/> Groundwater monitoring 4. <input type="checkbox"/> Tightness testing 5. <input type="checkbox"/> Line Leak Detector 6. <input checked="" type="checkbox"/> Not Required		
Approval: 1. <input type="checkbox"/> Nat'l Std. 2. <input type="checkbox"/> UL 3. <input type="checkbox"/> Other:		Double Walled: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

E. TANK CONTENTS

1. ☐ Diesel 2. ☐ Leaded 3. ☐ Unleaded 4. ☒ Fuel Oil
5. ☐ Gasohol 6. ☐ Other 7. ☐ Empty 8. ☐ Sand/Gravel/Slurry
9. ☐ Unknown 10. ☐ Premix 11. ☐ Waste Oil 12. ☐ Propane
13. ☐ Chemical * 14. ☐ Kerosene 15. ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

If Tank Closed, Give Date (mo/day/yr): <u>11/21/95</u>	Has a site assessment been completed? (see reverse side for details) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
---	---

If installation of a new tank is being reported, indicate who performed the installation inspection:

1. <input type="checkbox"/> Fire Department 2. <input type="checkbox"/> DILHR 3. <input type="checkbox"/> Other (identify) _____	
Name of Owner or Operator (please print): <u>MICHAEL E. WIDEN STATE OF WIS.</u>	Indicate Whether: <input checked="" type="checkbox"/> Owner or <input type="checkbox"/> Operator
Signature of Owner or Operator: <u>Michael E. Widen</u>	Date Signed: <u>1-10-96</u>

Appendix B

"Checklist for Underground Tank Closure" DILHR Form SBD-8951 (N 02/91)

CHECKLIST FOR UNDERGROUND

TANK CLOSURE

RETURN COMPLETED CHECKLIST TO:
Safety & Buildings Division
Fire Prevention & Underground
Storage Tank Section
P. O. Box 7969, Madison, WI 53707

**Complete one form for
each site closure.**

A. IDENTIFICATION: (Please Print)

1. Installation Name <u>Green Bay Correctional</u>			2. Owner Name <u>State of Wisconsin</u>		
Installation Street Address <u>2833 Wisconsin Ave</u>			Owner Street Address <u>PO Box 7066</u>		
<input type="checkbox"/> City	<input checked="" type="checkbox"/> Village	<input type="checkbox"/> Town of:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:
State <u>ALCOUE</u>		Zip Code <u>54301</u>	County <u>DANE</u>		Telephone No. (include area code) <u>(608) 266 7496</u>
3. Closure Company Name <u>STIFF SMITH TESTING</u>			Closure Company Street Address, City, State, Zip Code <u>4776 Hwy V Lake Mills WI 5355</u>		
Company Telephone No. (include area code) <u>(608) 618 9094</u>			Certified Remover Name <u>Steve Smith</u>		Remover Certification No. <u>63100</u>
4. Name of Company Performing Closure Assessment <u>John V. Duke</u>			Assessment Company Street Address, City, State, Zip Code <u>2737 S. Rios Rd GR 54302</u>		
Company Telephone No. (include area code) <u>(614) 492 2500</u>			Certified Assessor Name <u>John Blaine Kirsch</u>		Assessor Certification No. <u>05312</u>

Tank ID #	Closure	Temp. Closure	Closure In Place	Tank Capacity	Contents *	Closure Assessment
1. <u>0516 00012</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>20,000</u>	<u>GH</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2. <u>0516 00013</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>20,000</u>	<u>GH</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N

* Indicate which product by numeric code: 01-Diesel; 02-Leaded; 03-Unleaded; 04-Fuel Oil; 05-Gasohol; 06-Other; 09-Unknown; 10-Premix; 11-Waste oil; 13-Chemical (indicate the chemical name(s) or numbers(s) _____); 14-Kerosene; 15-Aviation.

Notification was provided to the local authorities 15 days in advance of closure date. ☒ Y ☐ N ☐ NA
All local permits were obtained before beginning closure. ☒ Y ☐ N ☐ NA

Check applicable box at right in response to all statements in Sections B - E.

B. TEMPORARILY OUT OF SERVICE

	Remover Verified	Inspector Verified	NA
1. Product Removed			
a. Product lines drained into tank (or other container) and resulting liquid removed, AND	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. All product removed to bottom of suction line, OR	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. All product removed to within 1" of bottom.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
3. All product lines at the islands or pumps located elsewhere are removed and capped, OR	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
4. Dispensers/pumps left in place but locked and power disconnected.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
5. Vent lines left open.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
6. Written inspector approval of temporary closure obtained, which is effective until _____ (Date) _____	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
7. Inventory form filed by owner indicating temporary closure.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

C. CLOSURE BY REMOVAL

1. Product from piping drained into tank (or other container).	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Piping disconnected from tank and capped or removed.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. All pump motors and suction hoses bonded to tank or otherwise grounded.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR.			
7. Vent lines left connected until tanks purged.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
8. Tank openings temporarily plugged so vapors exit through vent.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Tank removed from excavation after <u>PURGING/INERTING</u> ; placed on level ground and blocked to prevent movement.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>

C. CLOSURE BY REMOVAL (continued)

12. Tank labeled in 2" high letters after removal but before being moved from site.
- NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE.**
13. Tank vent hole (1/8 th " in uppermost part of tank) installed prior to moving the tank from site.
14. Inventory form filed by owner with Safety and Buildings Division indicating closure by removal.
15. Site security is provided while the excavation is open.

Remover Verified	Inspector Verified	NA
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>

D. CLOSURE IN PLACE

NOTE: CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR APPROVAL OF THE DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS.

1. Product from piping drained into tank (or other container).
2. Piping disconnected from tank and capped or removed.
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps.
4. All pump motors and suction hoses bonded to tank or otherwise grounded.
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.

Remover Verified	Inspector Verified	NA
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR.

6. Vent lines left connected until tanks purged.
7. Tank openings temporarily plugged so vapors exit through vent.
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.
9. Openings cut in tank top if necessary to introduce inert material.
10. Solid inert material (sand, cyclone boiler slag, pea gravel recommended) introduced and tank filled.
11. Vent line disconnected or removed.
12. Inventory form filed by owner with Safety and Buildings Division indicating closure in place.

Remover Verified	Inspector Verified	NA
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

E. CLOSURE ASSESSMENTS

NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO ILHR 10.

1. Individual conducting the assessment has a closure assessment plan (written) which is used as the basis for their work on the site.
2. Do points of obvious contamination exist?
3. Are there strong odors in the soils?
4. Was a field screening instrument used to pre-screen soil sample locations?
5. Was a closure assessment omitted because of obvious contamination?
6. Was the DNR notified of suspected or obvious contamination?

Remover Verified	Inspector Verified	NA
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Agency and office contacted: Bay

7. Contamination suspected because of: ☒ Odor ☒ Soil Staining ☐ Free Product ☐ Sheen On Groundwater ☒ Field Instrument Test

F. METHOD OF ACHIEVING 10% LEVEL DESCRIPTION

Eductor Or Diffused Air Blower

Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12 feet above ground.
Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.

Dry Ice

Dry ice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed over the greatest possible tank area. Dry ice evaporated before proceeding.

Inert Gas (CO₂ or N₂) **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT**

Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent.
Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.

X Tank atmosphere monitored for flammable or combustible vapor levels.

Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained before removing tank from ground.

G. NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW

TANK CUT INTO SCRAP ON SITE

I. INSPECTOR INFORMATION

Inspector Name (print) Dunks

Inspector Signature [Signature]

Inspector Certification No. 0002

FDID # For Location Where Inspection Performed 05167

Inspector Telephone Number (414) 443-2806

Date Signed 7/14/95

2
OWNER

Appendix C

Certificate of Tank Destruction

STILES ENVIRONMENTAL TESTING, INC.
CERTIFICATE of TANK DESTRUCTION

DATE OF EXCAVATION:

July 12, 1995

DATE OF CUTTING & CLEANING:

July 12, 1995

OWNER/OPERATOR:

Name: Green Bay Correctional Institution
Address: Riverside Drive Hwy. 57 at Hwy 172
City, State, Zip: Green Bay, WI 54307
Contact:

TANK SIZE, CONTENT & LOCATION:

- | | |
|--------------------|----|
| 1) 20,000 fuel oil | 4) |
| 2) 20,000 fuel oil | 5) |
| 3) | 6) |

Tank scrapped per: WDNR Publ. SW 114 Sept. 1990, Page 3, Par. 3:

"Properly cleaned tanks may be recycled for scrap metal. WDNR does not regulate scrap metal recycling."

Certified by:

Date:

07/12/95

W7694 Hwy. V, Lake Mills, WI 53551 800-962-7965 414-648-8084, 414-648-2090 - fax
202 W. State St., Rockford, IL 61101 815-969-9993, 815-969-9615 - fax

STILES ENVIRONMENTAL TESTING, INC.
CERTIFICATE of TANK DESTRUCTION

DATE OF EXCAVATION:

11/21/95

DATE OF CUTTING & CLEANING:

11/21/95

OWNER/OPERATOR:

Name:

STATE OF WISCONSIN / *Green Bay Correctional*

Address:

101 E. WILSON

City, State, Zip:

MADISON, WI 53707

Contact:

CHRIS TIMMERS

TANK SIZE, CONTENT & LOCATION:

- | | |
|-------------------|---------------------------------|
| 1) 1,000 FUEL OIL | <i>EAST SIDE OF POWER PLANT</i> |
| 2) | 5) |
| 3) | 6) |

Tank scrapped per: WDNR Publ. SW 114 Sept. 1990, Page 3, Par. 3:

"Properly cleaned tanks may be recycled for scrap metal. WDNR does not regulate scrap metal recycling."

Certified by:

Raymond D. Stiles

Date:

11/21/95

W7694 Hwy. V, Lake Mills, WI 53551 800-962-7965 414-648-8084, 414-648-2090 - fax
202 W. State St., Rockford, IL 61101 815-969-9993, 815-969-9615 - fax

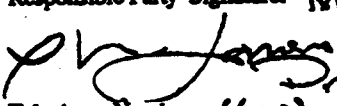
Appendix D

Soil Treatment and Disposal Information

This form is required by the Department of Natural Resources (DNR) to ensure that the remediation of petroleum contaminated soil and water is in compliance with NR 158, NR 500-540, NR 419 and NR 445, Wis. Adm. Code. Failure to comply with applicable statutes and administrative rules may lead to violations of subchapters III and IV of Ch. 144, Wis. Stats. and may result in forfeitures of not less than \$10 or more than \$25,000 for each violation, pursuant to ss. 144.426(1), 144.74(1), 144.99, Wis. Stats., or fines of not less than \$100 or more than \$150,000 or imprisonment for not more than 10 years, or both, pursuant to s. 144.74(2), Wis. Stats. Each day of a continuing violation constitutes a separate violation. Except for the remediation of virgin petroleum spills, this form needs to be submitted to the DNR 10 business days prior to the commencement of the remediation. Personally identifiable information found on this form is not intended to be used for any other purpose.

DIRECTIONS: 1) complete both sides of the form. 2) Have the responsible party sign the form. This signature certifies that the information on this form and in all supporting documents is accurate. 3) Submit the form with supporting documentation, lab reports and any maps to the appropriate District Air Management Program at least 10 business days prior to the commencement of remediation. 4) Submit a copy of this form to the DNR project manager and retain a copy for your records.

PART I - GENERAL INFORMATION

Site Name & Address: POWER PLANT GREEN BAY CORRECTIONAL INST. 2833 RIVERSIDE DR. GREEN BAY, WI 54301	Date of Form Completion: 7-7-97
Site Number: 03-05-2140	Do Other Remediation Systems Exist at This Site: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
County: BROWN	Site Type: <input type="checkbox"/> LUST <input type="checkbox"/> ERP <input type="checkbox"/> CERCLA <input type="checkbox"/> Other, Explain:
Responsible Party Name & Address: MARTIN ROMERO WISCONSIN DEPT. OF ADMINISTRATION 101 EAST WILSON STREET 7TH FLOOR P.O. BOX 7866 MADISON, WI 53707-7866	Responsible Party Signature: MARTIN ROMERO  Project Manager Telephone Number: 608 266-2586
Consulting Firm Name & Address: FOTH & VAN DYKE 2737 S. RIDGE RD. P.O. BOX 19012 GREEN BAY, WI 54307-9012	Consulting Firm Contact: PHILIP R. BROCHOCKI Telephone Number: 920 497-2500

PART II - SOIL AND WATER DATA (Attach Lab Reports and Calculations)

Type of Contamination:	<input type="checkbox"/> Gasoline	<input type="checkbox"/> Diesel	<input checked="" type="checkbox"/> Fuel Oil	<input type="checkbox"/> Waste Oil			
	<input type="checkbox"/> Chlorinated Organics	<input type="checkbox"/> Other: _____					
Soil Concentration:							
GRO:	_____ mg/kg/10 ⁶	x	2800 lb/yd ³	x	_____ yd ³	=	_____ lb
DRO:	150 mg/kg/10 ⁶	x	2800 lb/yd ³	x	50 yd ³	=	21 lb
* Benzene:	<0.025 mg/kg/10 ⁶	x	2800 lb/yd ³	x	50 yd ³	=	0.002 lb
Chlorinated Organics:	_____ mg/kg/10 ⁶	x	2800 lb/yd ³	x	_____ yd ³	=	_____ lb
Other:	_____ mg/kg/10 ⁶	x	2800 lb/yd ³	x	_____ yd ³	=	_____ lb
Water Concentration:							
GRO:	_____ mg/L	DRO:	_____ mg/L	Benzene:	_____ mg/L		
* BENZENE NOT DETECTED. USE 1/2 DETECTION FOR CALC.							
Chlorinated Organics:		_____ mg/L	Other:		_____ mg/L		

PART III - TREATMENT OR DISPOSAL FACILITY INFORMATION

Treatment/Disposal Facility Name & Address: RIDGEVIEW RECYCLING & DISPOSAL FACILITY 6207 HEMPTON LAKE RD. P.O. BOX 227 WHITE LAKE, WI 54247-0227	Facility ID: 3785
Facility Contact: CHRIS JOHNSON Telephone Number: (414) 732-4473	Air Pollution Control Permit Number: NA Facility Located in 10-county Area in Southeast Wisconsin? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Distance to Nearest Residence or Business: > 1/4 MILE
Headquarter Address: WASTE MANAGEMENT OF WISCONSIN, INC. 1124 N 8925 BOUNDARY ROAD MENOMONEE FALLS, WI 53051	Portable Sources Only: Has a Portable Source Relocation Notification (Form 4500-25) Been Submitted for This Location? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

PART III - SOIL VACUUM EXTRACTION OR GROUNDWATER REMEDIATION

Site Contact: Telephone Number: ()	Proposed Operations: (Attach Calculations) Anticipated Start-Up Date: Estimated Project Duration: Number of Wells: Number of Emission Points: Stack Height: Maximum Equipment Flow Rate (scfm or gpm): Total VOC Emission Rate (lb/hr): Benzene Emission Rate (lb/hr): Benzene Emission Rate (lb/yr):
Site Located in 10-county Area in Southeast Wisconsin? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Distance to Nearest Residence or Business:	
Pilot Test/Soil Venting Only: (Attach Lab Reports and Calculations) Date of Test: Flow Rate (scfm): Total Withdrawal of Air (scf): Total VOC Emission Rate (lb/hr): Benzene Emission Rate (lb/hr):	

PART III - OTHER REMEDIATION METHODS (Attach Lab Reports and Calculations)

Proposing Other Remediation Method? <input type="checkbox"/> Yes Method Name: _____
<p>Attach a project description for other remediation methods including landspreading, passive aeration and bioremediation. At a minimum, the information submitted should include the following items (with any supporting lab reports and calculations):</p> <ul style="list-style-type: none"> ✓ Address/Location of Remediation Site - Indicate if this location is in the 10-county area in Southeast Wisconsin and the distance to the nearest residence or business. Include a map or site plan if appropriate. ✓ Description of Remediation Method. ✓ Project Contact & Telephone Number. ✓ Anticipated Start-Up and Estimated Project Duration. ✓ Highest Estimated Hourly VOC Emissions. ✓ Highest Estimated Hourly and Annual Benzene Emissions. ✓ Emission Testing Methodology. ✓ Final Destination of Soil.

Foth & Van Dyke

Client: WDOA / DFD Scope I.D.: 94W048
Project: GREEN BAY CORRECTIONAL Page: 1/1
Prepared by: PRB Date: 7/7/97
Checked by: SGL Date: 7/20/97

SOIL CONCENTRATION CALCULATIONS

APPROX. 50 yd^3 CONTAMINATED SOIL GENERATED

I. DRO EMISSIONS

$$(a/1 \times 10^6) * (2800 \text{ LBS/yd}^3) * b = \text{DRO (POUNDS)}$$

a = DRO CONCENTRATION IN mg/Kg

b = AMOUNT OF CONTAMINATED SOIL IN yd^3

$$(150/1 \times 10^6) * (2800) * 50 = 21 \text{ LBS DRO}$$

II BENZENE EMISSIONS

NOTE: SAME EQUATION AS ABOVE BUT a = BENZENE CONC. IN mg/Kg

SINCE BENZENE WAS NOT DETECTED USE $1/2$ DETECTION LIMIT IN CALCULATION

$$(0.0125/1 \times 10^6) * (2800) * 50 = 0.002 \text{ LBS BENZENE}$$



...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/ 94W048
Your Sample ID: SP-02
Sample Desc. : SOIL PILE MID
Sample Matrix : SOIL Date Collected: 07/14/1995
En Chem Proj#: 9507229 Date Received : 07/17/1995
En Chem Lab # : 148736 Date Reported : 07/24/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyze By
TOTSOLID	Total Solids	86	percent				EPA 160.3	07/18/1995	NJS
PB-S	Lead, soil	5.2	mg/kg	3.8	SW846 3050	07/19/1995	SW846 7421	07/20/1995	ctk
IGNIT	Ignitability	>210	°F				SW846 1010	07/19/1995	DJB
FREELIQ	Free Liquids	0.0	Percent				SW846 9095	07/19/1995	NJS
DRO-S	Diesel Range Organics(DRO)-Soil	150	mg/kg	8.4		07/17/1995	WDNR MOD DRO	07/21/1995	PHS
	Blank spike	89 %	RECOV	50					
	Blank spike duplicate	89 %	RECOV	50					
	Soil spike	77 %	RECOV	50					
BENZ-S-ME	Benzene	ND	ug/kg	25		07/19/1995	WDNR MOD GRO	07/23/1995	PMS

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Mark Melroy



State of Wisconsin
Department of Natural Resources



CHAIN OF CUSTODY RECORD
LUST PROGRAM
Based on Form 4400-151 Rev. 4-93

✓ 10

Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

Sample Collector(s) <u>Blayne Kirsch / Gene Austin</u>	Title/Work Station/Company <u>Env. Eng. / FOM + VAN DYKE - GB</u>	Telephone Number (include area code) <u>414-497-2500</u>
Property Owner <u>GREEN BAY CORRECTIONAL / S. G. WIS.</u>	Property Address <u>RIVERSIDE DR. ALQUER</u>	Telephone Number (include area code)

I hereby certify that I received, properly handled and disposed of these samples as noted below:

Relinquished By (Signature) <u>[Signature]</u>	Date/Time <u>6pm 7/14/95</u>	Received By (Signature)	LABORATORY USE ONLY Temperature of temperature blank <u>R.O.I.</u> If samples were received on ice and there was ice remaining, you may report the temperature as 'received on ice'. If all of the ice was melted, the temperature of the melt may be substituted for a temperature blank.
Relinquished By (Signature)	Date/Time	Received By (Signature)	
Relinquished By (Signature)	Date/Time	Received for EN CHEM by (Signature) <u>R. Samuels</u> 7/14/95 12:00	

Field ID Number	Date Collected	Time Collected	Sample Type	Device	Preserv. Type	Field Screening	Location/Description (see footnote 2)	Analysis Type	Lab ID Number	no/Type of Containers	Cracked /broken	Improp. Sealed	Good Cond.	Other Comments
SP-01	7/13/95	15:45	Soil	GRAE	NO	178	Soil/PILE - MQUED	15.5						DID NOT RELEV
SP-02	7/14/95	17:35	1	1	—	34	Soil/PILE min	15.5	148736	2-502 2-ENCORE				B/M

FOOTNOTES
1. specify groundwater, surface water, soil, leachate, sludge, etc.
2. sample description must clearly correlate the sample ID to the sampling location.

ANALYSIS CODES
 1. GRO
 2. PVOC
 3. Lead
 4. 8021
 5. DRO
 6. PAH
 7. Flashpoint
 8. Percent Solids
 9. Free Liquids
 10. pH
 11. TCLP-Benzene
 12. TCLP-Lead
 13. BETX
 14. Protocol D1-GRO
 15. Protocol D1-DRO
 16. 8260

QTA# _____ En Chem Project# 9507229

BILLING ADDRESS:

Russ JANESK - FOM + VAN DYKE
2737 S. RIDGE Rd
GREEN BAY, WI 54307

Job Name/Number: GB Correctional / 9410048
 Job Description: ASSESSMENT + REMEDIATION

Returned: 2 ENCORE #1277, 1557

Foth & Van Dyke

Client: WDOA/DFD Scope I.D.: 94W048
 Project: Green Bay Page: 1/1
 Prepared by: MDF Date: 8/17/95
 Checked by: _____ Date: _____

FIELD SCREENING TABLE

<u>SAMPLE ID</u>	<u>SAMPLE DESCRIPTION</u>	<u>PID</u>
HS-01	9' below grade 3' N T1	25
HS-02	north east pile	4
HS-03	South east pile west 3 composite	21
HS-04	South east pile east 3 composite	24
HS-05	T1 @ G.W. interface	168
HS-06	N. end 3' 12" below grade T1	34
HS-07	S. end 12" below grade T2	1
HS-08	Center 10' deep @ water line	2
HS-09	Fill pipe for T2 @ 5' below grade	97
HS-10	Fill pipe for T1 @ 5' below grade	115
HS-11	Dirty stockpile	178
HS-12	S. wall T2 11' below grade @ water line	1.3
HS-13	S. wall T2 11' below grade @ water line	0.0
HS-14	W. side Asphalt @ piping 4' below grade	
HS-15	Piping near hole @ 6-4' below pipe	0.0
HS-16	Limited wall foundation 14' deep	65
HS-17	North wall	4
HS-18	West wall N. corner	57
HS-19	West wall North corner	0.0
HS-20	T2 Fill pipe	152
HS-21	T1 Fill pipe	114

Ridgeview Recycling and Disposal Facility
A WMI BioSite™
6207 Hempton Lake Road
P.O. Box 227
Whitelaw, Wisconsin 54247-0227
1-800-444-7919
414/732-4473 • FAX: 414/732-3758



A Waste Management Company

June 24, 1997

Douglas Stiles
Stiles Environmental, Inc.
W7694 Highway V
Lake Mills WI 53551

Re: Green Bay Correctional

Dear Mr. Stiles,

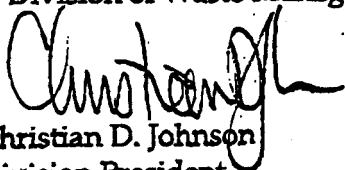
Thank You!

Please find attached a Certificate of Beneficial Reuse of Bioremediated Soils. This signifies that the petroleum contaminated soils represented by profile # RVW BIO 22509, has been bioremediated at our BioSite™. The contaminants in the soils have been treated to a level that will allow the soils to be beneficially reused.

We appreciate the trust you have placed in our system of bioremediation. The WMI BioSite™ has proven to be a cost effective, environmentally efficient treatment for a wide variety of petroleum contaminated soils. The response to the BioSite™ has been positive from generators, their consultants, and the regulatory community.

If you have any questions regarding the BioSite™, please do not hesitate to call us at (800) 444-7919.

Sincerely,
Ridgeview Recycling and Disposal Facility
A WMI BioSite™
A Division of Waste Management of WI, Inc.


Christian D. Johnson
Division President

enclosure

cc: Blayne Kirsch, Foth & Van Dyke

**CERTIFICATE OF BENEFICIAL REUSE OF
BIOREMEDIATED
PETROLEUM CONTAMINATED SOIL**

presented to:

GREEN BAY CORRECTIONAL

This is to certify that 63.75 tons of contaminated soil, Special Waste Profile #BIO22509 was biologically remediated to such levels that the soil will be utilized for beneficial reuse.

Ridgeview BioSite™
6207 Hempton Lake Road
P.O. Box 227
Whitelaw, WI 54247-0227



Christian D. Johnson, Division President
Ridgeview Recycling and Disposal Facility
A Division of Waste Management of Wisconsin, Inc.



A Waste Management Company

Appendix E

Photograph Documentation



Photograph 1 July 13, 1995
Unexcavated tank area with 55-gallon drums for cleaning waste.



Photograph 2 July 13, 1995
Excavating Tanks No. 1 (east tank, on left) and No. 2 (west tank, on right).



Photograph 3 July 13, 1995
Tank No. 1 cut and being removed from the excavation.



Photograph 4 July 14, 1995
Tank No. 1 area backfilled, Tank No. 2 being excavated.



Photograph 5

July 14, 1995

Tank No. 2 cut and being removed from excavation.



Photograph 6

July 14, 1995

Bottom of Tank No. 2 being removed from excavation.



Photograph 7
Fuel lines being removed.

July 14, 1995



Photograph 8
Fill pipes outside of the prison wall, excavated, and removed.

July 14, 1995



Photograph 9 August 3, 1995
Contaminated soil stockpile placed on paved parking lot, covered with a tarp, and displaying warning sign.



Photograph 10 November 21, 1995
1,000-gallon diesel tank being removed.

Appendix F

WDNR Correspondence



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

George E. Meyer, Secretary
William R. Selbig, District Director

Lake Michigan District Headquarters
Solid & Hazardous Waste Program
1125 N. Military Avenue, PO Box 10448
Green Bay, WI 54307-0448
TELEPHONE: (414)492-5916
TELEFAX: (414)492-5859

September 6, 1995

Division of Facilities Development
Attn: Terry Cook
PO Box 306
King, WI 54946

RE: Notification of Petroleum Contamination from Underground Storage Tank System
WDOC - Green Bay Correctional Institution, 2833 Riverside Drive, Green Bay
WDNR LUST ID #05-2140

Dear Mr. Cook:

On July 14, 1995, the Department of Natural Resources (DNR) received notification from Blayne Kirsch of Foth & Van Dyke that petroleum contamination was discovered at the above-referenced location.

From the information received, it appears that the contamination has been or will be cleaned up to the extent practicable. Therefore, by November 10, 1995, please submit a tank closure assessment report to the Department at the following address:

Wisconsin Department of Natural Resources
Attn: Alan Nass
1125 N. Military Avenue, PO Box 10448
Green Bay, WI 54307-0448

Please identify the report with the WDNR LUST ID number indicated above.

If, after reviewing the report, the WDNR has determined that further investigation/work is necessary, you will be notified accordingly. If you have any questions concerning this letter, please contact me at (414) 492-5878.

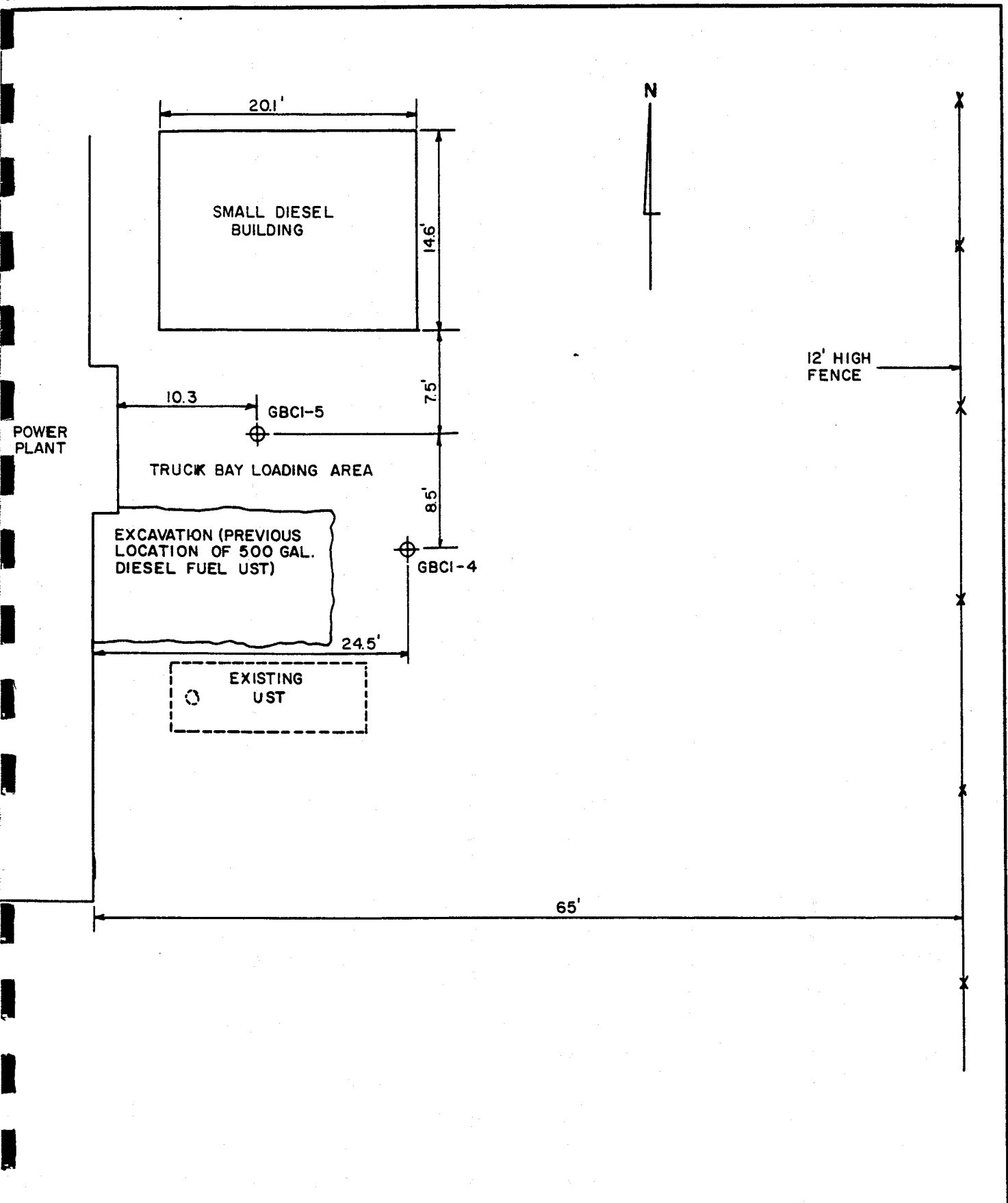
Sincerely,

Janis M. DeBrock, Program Assistant
Leaking Underground Storage Tank Unit

cc: Alan Nass - LMD
Blayne Kirsch, Foth & Van Dyke, PO Box 19012, Green Bay, WI 54307

Appendix G

STS Consultants Ltd. Site Information



STS Consultants Ltd.
Consulting Engineers

PROJECT/CLIENT

SOIL BORING LOCATION DIAGRAM
GREEN BAY CORRECTIONAL INSTITUTE
GREEN BAY, WI

1

DRAWN BY	G.S.H.	9-90
CHECKED BY		
APPROVED BY	PKB	9-90
SCALE 1" = 10'	FIGURE NO. 3	
STS DRAWING NO. 18132XF		

Table 2

Summary of Soil Sample Chemical Test Results

<u>Sample</u>	<u>(HNU Units)</u>	<u>TPH as Gas ($\mu\text{g/g}$)</u>	<u>TPH as Diesel ($\mu\text{g/g}$)</u>	<u>Benzene ($\mu\text{g/kg}$)</u>	<u>Ethyl- Benzene ($\mu\text{g/kg}$)</u>	<u>Toluene ($\mu\text{g/kg}$)</u>	<u>Total Xylene ($\mu\text{g/kg}$)</u>	<u>PCE</u>	<u>1,1,1-TCA</u>	<u>1,1-DCE</u>	<u>Lead ($\mu\text{g/g}$)</u>
GASOLINE TANK INSTALLATION											
GBCI-1, S-3, 5.0-6.5'	6.5	18.4	N.D.	N.D.	0.58	0.96	1.2	N.D.	N.D.	N.D.	5.24
GBCI-2, S-3, 5.0-6.5'	122	246	N.D.	N.D.	2.4	1.7	10.8	N.D.	N.D.	N.D.	6.65
GBCI-3 S-3, 5.0-6.5'	100	77.9	N.D.	N.D.	3.1	0.58	5.8	N.D.	N.D.	N.D.	6.39
GBCI- Stockpile #1	50	150	N.D.	N.D.	N.D.	22.6	23.4	N.D.	N.D.	N.D.	18.7
DIESEL TANK INSTALLATION											
GBCI-4 S-3, 5.0-6.5'	N.D.	N.D.	N.D.	N.D.	N.D.	36.9	N.D.	12.0	3.24	N.D.	N.A.
GBCI-5,	N.D.	N.D.	N.D.	N.D.	N.D.	4.5	N.D.	N.D.	N.D.	N.D.	N.A.
GBCI- Stockpile #2	100	N.D.	1,140	N.D.	N.D.	13.0	N.D.	8.0	N.D.	20	N.A.

N.D. - Analyzed but not detected.

N.A. - Not Analyzed



STS Consultants Ltd.

OWNER

Division of State Facilities Management

PROJECT NAME

Green Bay Correctional Institution

LOG OF BORING NUMBER

GBCI-5

ENGINEER

SITE LOCATION

1833 Riverside Drive
Village of Allouez, Wisconsin

DEPTH	ELEVATION	SAMPLE NO	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	STANDARD PENETRATION TEST, N (B/FT)	UNCONFINED COMPRESSIVE STRENGTH, q_p (TONS/FT ²)	WATER CONTENT, %	THIN SLIDING	LIQUID/PLASTIC LIMIT LL/PL	PERCENT PASSING #200 SIEVE	PERMEABILITY, K (CM/SEC)
						WELL INSTALLATION TOP STANDPIPE EL. +							
						SURFACE ELEVATION 14.14*							
						Aluminous concrete pavement							
						3.4" limestone gravel (GP)-fill-medium dense-dry	8			ND			
						Brown silty clay (CL) - fill - medium dense to hard - dry							
		2	SS				44			ND			
		3	SS				54			ND			
		4	SS			Brown silty clay (CL) - trace of sand and gravel - hard - dry to moist	57			ND			
		5	SS				30			ND			
		6	SS				38			ND			
		6A	SS			Light brownish gray silt (ML) - stiff - wet	27			ND			
						End of boring Boring advanced to 16.5 feet Borehole backfilled with bentonite grout upon completion No petroleum odors were observed in collected samples * Elevation based on arbitrary benchmark - Elevation of 100.00 feet							

The stratification lines represent the approximate boundary between soil types. In situ, the transition may be gradual. Water levels were measured at the times indicated. Water levels may vary seasonally.

WL	16.0'	WS				BORING STARTED	8-30-90	STS OFFICE	1035 Kepler Drive Green Bay, WI 54311
WL-T PIPE		DATE	TIME	WL-T PIPE	DATE	TIME	BORING COMPLETED	8-30-90	
							RIG	25	DRAWN BY PMP SHEET 1 OF 1
							FOREMAN	TT	APP'D. BY PRB STS JOB NO. 18132XF

Appendix H

Laboratory Analytical Data Chain-of-Custody Record



...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750

Location : GB-CORRECTIONAL/94W048

Your Sample ID: SS-02

Sample Desc. : T-1 NW D12 HS-06

Sample Matrix : SOIL

Date Collected: 07/13/1995

En Chem Proj#: 9507230

Date Received : 07/17/1995

En Chem Lab # : 148757

Date Reported : 08/10/1995

Report to: FOTH & VAN DYKE

2737 SO. RIDGE ROAD

P.O. BOX 19012

GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyzed By
TOTSOLID	Total Solids	86 percent					EPA 160.3	07/18/1995	NJS
DRO-S	Diesel Range Organics(DRO)-Soil	72 mg/kg		4.3		07/17/1995	WDNR MOD DRO	07/20/1995	NJS
	Blank spike	97 % RECOV		50					
	Blank spike duplicate	93 % RECOV		50					
	Soil spike	91 % RECOV		50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Mark Mellor





...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750

Location : GB-CORRECTIONAL/94W048

Your Sample ID: SS-03

Sample Desc. : T-1 EW D12 HS-07

Sample Matrix : SOIL

Date Collected: 07/13/1995

En Chem Proj#: 9507230

Date Received : 07/17/1995

En Chem Lab # : 148758

Date Reported : 07/26/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analysed By
TOTSOLID	Total Solids	86 percent					EPA 160.3	07/18/1995	NJS
DRO-S	Diesel Range Organics(DRO)-Soil	ND	mg/kg	4.4		07/17/1995	WDNR MOD DRO	07/20/1995	NJS
	Blank spike	97 % RECOV		50					
	Blank spike duplicate	93 % RECOV		50					
	Soil spike	91 % RECOV		50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Nick Melley



...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/94W048
Your Sample ID: SS-04
Sample Desc. : T-1 SW D11 HS-08
Sample Matrix : SOIL
En Chem Proj# : 9507230
En Chem Lab # : 148759

Date Collected: 07/13/1995
Date Received : 07/17/1995
Date Reported : 07/26/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyzed By
TOTSOLID	Total Solids	88	percent				EPA 160.3	07/18/1995	NJS
DRO-S	Diesel Range Organics(DRO)-Soil	ND	mg/kg	4.2		07/17/1995	WDNR MOD DRO	07/20/1995	NJS
	Blank spike	97 % RECOV		50					
	Blank spike duplicate	93 % RECOV		50					
	Soil spike	91 % RECOV		50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Nicole Mellberg

EN CHEM INC.

...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/94W048
En Chem Proj# : 9507230
Date Reported : 08/01/1995

Report to: FOTH & VAN DYKE

Thank you for using En Chem! Samples were analyzed according to strict EPA or Wisconsin DNR methodology. Any comments or problems associated with the receipt of or analysis are reported below:

The PQL for the PVOC analysis is 60 ug/kg for those samples with a dilution factor of 50. Detection limits are corrected for percent solids for those parameters that were detected.

Sample no. 148740: Large peak late in DRO window.

Sample no. 148741: Large peak late in DRO window.

PVOC chromatogram has many low level peaks.

The last three PAH compounds, (Benzo (ghi) perylene, Indeno(1,2,3-cd)pyrene, and Dibenzo(a,h)anthracene) have elevated detection limits due to a fuel hump in fluorescence detector.

Sample no. 148742: The last three PAH compounds, (Benzo (ghi) perylene, Indeno(1,2,3-cd)pyrene, and Dibenzo(a,h)anthracene) have elevated detection limits due to a fuel hump in fluorescence detector.

Sample no. 148743: Complex chromatogram on PVOC analysis with many late eluting peaks. This is indicative of DRO fuel contamination, heavy oils, or of weathered gasoline. PVOC chromatogram has many low level peaks.

Large fuel hump late in PAH window resulted in elevated detection limits for later eluting compounds. The surrogate recovery was high for the PAH analysis due to co-elution (102.9%).

Sample no. 148745: Complex chromatogram on PVOC analysis with many late eluting peaks. This is indicative of DRO fuel contamination, heavy oils, or of weathered gasoline.

Large fuel hump late in PAH window resulted in elevated detection limits for later eluting compounds. The surrogate recovery was high for the PAH analysis due to co-elution (103.1%).





...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/94W048
Your Sample ID: SS-05
Sample Desc. : T-2 SW D11 HS12
Sample Matrix : SOIL Date Collected: 07/14/1995
En Chem Proj# : 9507230 Date Received : 07/17/1995
En Chem Lab # : 148737 Date Reported : 07/26/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analysis By
TOTSOLID	Total Solids	87	percent				EPA 160.3	07/18/1995	NJS
DRO-S	Diesel Range Organics(DRO)-Soil	17	mg/kg	4.7		07/17/1995	WDNR MOD DRO	07/20/1995	NJS
	Blank spike	89 %	RECOV	50					
	Blank spike duplicate	89 %	RECOV	50					
	Soil spike	77 %	RECOV	50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Nick Meli



...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/94W048
Your Sample ID: SS-06
Sample Desc. : PR W D5 HS15
Sample Matrix : SOIL Date Collected: 07/14/1995
En Chem Proj# : 9507230 Date Received : 07/17/1995
En Chem Lab # : 148738 Date Reported : 07/26/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyze By
TOTSOLID	Total Solids	85 percent					EPA 160.3	07/18/1995	NJS
DRO-S	Diesel Range Organics(DRO)-Soil	ND	mg/kg	4.5		07/17/1995	WDNR MOD DRO	07/20/1995	NJS
	Blank spike	89 % RECOV		50					
	Blank spike duplicate	89 % RECOV		50					
	Soil spike	77 % RECOV		50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Mark Melley





...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/94W048
Your Sample ID: SS-07
Sample Desc. : T-2 WW D11 HS13
Sample Matrix : SOIL Date Collected: 07/14/1995
En Chem Proj# : 9507230 Date Received : 07/17/1995
En Chem Lab # : 148739 Date Reported : 07/26/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyze By
TOTSOLID	Total Solids	85	percent				EPA 160.3	07/18/1995	NJS
DRO-S	Diesel Range Organics(DRO)-Soil	ND	mg/kg	4.4		07/17/1995	WDNR MOD DRO	07/20/1995	NJS
	Blank spike	89 % RECOV		50					
	Blank spike duplicate	89 % RECOV		50					
	Soil spike	77 % RECOV		50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Mark Melly





...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/94W048
Your Sample ID: SS-08
Sample Desc. : T-2 NW D13 HS16
Sample Matrix : SOIL Date Collected: 07/14/1995
En Chem Proj# : 9507230 Date Received : 07/17/1995
En Chem Lab # : 148740 Date Reported : 08/01/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyst
TOTSOLID	Total Solids	85 percent					EPA 160.3	07/18/1995	NJS
PVOC-S-ME	Benzene	ND	ug/kg	25		07/19/1995	SW846 8020	07/23/1995	PMS
	Ethyl Benzene	ND	ug/kg	25					
	Methyl-tert-butyl ether	ND	ug/kg	25					
	Toluene	ND	ug/kg	25					
	1,2,4-trimethylbenzene	ND	ug/kg	25					
	1,3,5-trimethylbenzene	ND	ug/kg	25					
	Xylenes, m + p	ND	ug/kg	25					
	Xylene, o	ND	ug/kg	25					
PB-S	Lead, soil	5.3 mg/kg		3.7	SW846 3050	07/19/1995	SW846 7421	07/20/1995	ctk
PAH-S	Acenaphthene	ND	ug/kg	59	SW846 3550	07/25/1995	SW846 8310	08/01/1995	MAR
	Acenaphthylene	ND	ug/kg	120					
	Anthracene	ND	ug/kg	2.3					
	Benzo (a) anthracene	ND	ug/kg	2.9					
	Benzo (a) pyrene	ND	ug/kg	2.3					
	Benzo (b) fluoranthene	ND	ug/kg	2.3					
	Benzo (ghi) perylene	5.5	ug/kg	3.5					
	Benzo (k) fluoranthene	ND	ug/kg	2.3					
	Chrysene	ND	ug/kg	2.9					
	Dibenzo (a,h) anthracene	2.6	ug/kg	2.3					
	Fluoranthene	ND	ug/kg	2.3					
	Fluorene	ND	ug/kg	12					
	Indeno (1,2,3-cd) pyrene	ND	ug/kg	2.3					
	1-Methylnaphthalene	ND	ug/kg	59					
	2-Methylnaphthalene	ND	ug/kg	59					
	Naphthalene	ND	ug/kg	59					
	Phenanthrene	ND	ug/kg	12					



...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/94W048
Your Sample ID: SS-08
Sample Desc. : T-2 NW D13 HS16
Sample Matrix : SOIL Date Collected: 07/14/1995
En Chem Proj# : 9507230 Date Received : 07/17/1995
En Chem Lab # : 148740 Date Reported : 08/01/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyze By
PAH-S	Pyrene	ND	ug/kg	12	SW846 3550	07/25/1995	SW846 8310	08/01/1995	MAR
DRO-S	Diesel Range Organics(DRO)-Soil	ND	mg/kg	4.6		07/17/1995	WDNR MOD DRO	07/20/1995	NJS
	Blank spike	89 % RECOV		50					
	Blank spike duplicate	89 % RECOV		50					
	Soil spike	77 % RECOV		50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Mike Maloney





...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/94W048
Your Sample ID: SS-09
Sample Desc. : T-2 NWB D15 HS17
Sample Matrix : SOIL Date Collected: 07/14/1995
En Chem Proj# : 9507230 Date Received : 07/17/1995
En Chem Lab # : 148741 Date Reported : 08/01/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyst By
TOTSOLID	Total Solids	86	percent				EPA 160.3	07/18/1995	NJS
PVOC-S-ME	Benzene	ND	ug/kg	25		07/19/1995	SW846 8020	07/23/1995	PMS
	Ethyl Benzene	ND	ug/kg	25					
	Methyl-tert-butyl ether	ND	ug/kg	25					
	Toluene	ND	ug/kg	25					
	1,2,4-trimethylbenzene	ND	ug/kg	25					
	1,3,5-trimethylbenzene	ND	ug/kg	25					
	Xylenes, m + p	ND	ug/kg	25					
	Xylene, o	ND	ug/kg	25					
PB-S	Lead, soil	5.4	mg/kg	3.8	SW846 3050	07/19/1995	SW846 7421	07/20/1995	ctk
PAH-S	Acenaphthene	ND	ug/kg	19	SW846 3550	07/25/1995	SW846 8310	07/31/1995	MAR
	Acenaphthylene	ND	ug/kg	39					
	Anthracene	ND	ug/kg	0.8					
	Benzo (a) anthracene	ND	ug/kg	1.0					
	Benzo (a) pyrene	ND	ug/kg	0.8					
	Benzo (b) fluoranthene	ND	ug/kg	0.8					
	Benzo (ghi) perylene	ND	ug/kg	5.8					
	Benzo (k) fluoranthene	ND	ug/kg	0.8					
	Chrysene	ND	ug/kg	1.0					
	Dibenzo (a,h) anthracene	ND	ug/kg	3.9					
	Fluoranthene	ND	ug/kg	0.8					
	Fluorene	ND	ug/kg	3.9					
	Indeno (1,2,3-cd) pyrene	ND	ug/kg	3.9					
	1-Methylnaphthalene	ND	ug/kg	19					
	2-Methylnaphthalene	ND	ug/kg	19					
	Naphthalene	ND	ug/kg	19					
	Phenanthrene	ND	ug/kg	3.9					



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Location : GB-CORRECTIONAL/94W048
Your Sample ID: SS-09
Sample Desc. : T-2 NWB D15 HS17
Sample Matrix : SOIL Date Collected: 07/14/1995
En Chem Proj# : 9507230 Date Received : 07/17/1995
En Chem Lab # : 148741 Date Reported : 08/01/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
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GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyze By
PAH-S	Pyrene	ND	ug/kg	3.9	SW846 3550	07/25/1995	SW846 8310	07/31/1995	MAR
DRO-S	Diesel Range Organics(DRO)-Soil	ND	mg/kg	4.6		07/17/1995	WDNR MOD DRO	07/20/1995	NJS
	Blank spike	89 % RECOV		50					
	Blank spike duplicate	89 % RECOV		50					
	Soil spike	77 % RECOV		50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:





... chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/94W048
Your Sample ID: SS-10
Sample Desc. : T-2 NWNW D13 HS19
Sample Matrix : SOIL Date Collected: 07/14/1995
En Chem Proj# : 9507230 Date Received : 07/17/1995
En Chem Lab # : 148742 Date Reported : 08/01/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyze By
TOTSOLID	Total Solids	86 percent					EPA 160.3	07/18/1995	NJS
PVOC-S-ME	Benzene	ND	ug/kg	25		07/19/1995	SW846 8020	07/24/1995	EGS
	Ethyl Benzene	ND	ug/kg	25					
	Methyl-tert-butyl ether	ND	ug/kg	25					
	Toluene	ND	ug/kg	25					
	1,2,4-trimethylbenzene	ND	ug/kg	25					
	1,3,5-trimethylbenzene	ND	ug/kg	25					
	Xylenes, m + p	ND	ug/kg	25					
	Xylene, o	ND	ug/kg	25					
PB-S	Lead, soil	4.9 mg/kg		3.7	SW846 3050	07/19/1995	SW846 7421	07/20/1995	ctk
PAH-S	Acenaphthene	ND	ug/kg	19	SW846 3550	07/25/1995	SW846 8310	07/31/1995	MAR
	Acenaphthylene	ND	ug/kg	39					
	Anthracene	ND	ug/kg	0.8					
	Benzo (a) anthracene	ND	ug/kg	1.0					
	Benzo (a) pyrene	ND	ug/kg	0.8					
	Benzo (b) fluoranthene	ND	ug/kg	0.8					
	Benzo (ghi) perylene	ND	ug/kg	5.8					
	Benzo (k) fluoranthene	ND	ug/kg	0.8					
	Chrysene	ND	ug/kg	1.0					
	Dibenzo (a,h) anthracene	ND	ug/kg	3.9					
	Fluoranthene	ND	ug/kg	0.8					
	Fluorene	ND	ug/kg	3.9					
	Indeno (1,2,3-cd) pyrene	ND	ug/kg	3.9					
	1-Methylnaphthalene	ND	ug/kg	19					
	2-Methylnaphthalene	ND	ug/kg	19					
	Naphthalene	ND	ug/kg	19					
	Phenanthrene	ND	ug/kg	3.9					



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Lab Certification No. 405132750
Location : GB-CORRECTIONAL/94W048
Your Sample ID: SS-10
Sample Desc. : T-2 NWNW D13 HS19
Sample Matrix : SOIL Date Collected: 07/14/1995
En Chem Proj# : 9507230 Date Received : 07/17/1995
En Chem Lab # : 148742 Date Reported : 08/01/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyze By
PAH-S	Pyrene	ND	ug/kg	3.9	SW846 3550	07/25/1995	SW846 8310	07/31/1995	MAR
DRO-S	Diesel Range Organics(DRO)-Soil	ND	mg/kg	4.4		07/17/1995	WDNR MOD DRO	07/20/1995	NJS
	Blank spike	89 % RECOV		50					
	Blank spike duplicate	89 % RECOV		50					
	Soil spike	77 % RECOV		50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Mark Melberg



...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/94W048
Your Sample ID: SS-11
Sample Desc. : FPT-2 D5 HS20
Sample Matrix : SOIL Date Collected: 07/14/1995
En Chem Proj# : 9507230 Date Received : 07/17/1995
En Chem Lab # : 148743 Date Reported : 08/01/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyze By
TOTSOLID	Total Solids	78 percent					EPA 160.3	07/18/1995	NJS
PVOC-S-ME	Benzene	ND	ug/kg	25		07/19/1995	SW846 8020	07/24/1995	EGS
	Ethyl Benzene	ND	ug/kg	25					
	Methyl-tert-butyl ether	ND	ug/kg	25					
	Toluene	ND	ug/kg	25					
	1,2,4-trimethylbenzene	ND	ug/kg	25					
	1,3,5-trimethylbenzene	ND	ug/kg	25					
	Xylenes, m + p	ND	ug/kg	25					
	Xylene, o	ND	ug/kg	25					
PB-S	Lead, soil	15 mg/kg		4.2	SW846 3050	07/20/1995	SW846 7421	07/20/1995	ctk
PAH-S	Acenaphthene	ND	ug/kg	21	SW846 3550	07/25/1995	SW846 8310	07/31/1995	MAR
	Acenaphthylene	ND	ug/kg	43					
	Anthracene	ND	ug/kg	0.9					
	Benzo (a) anthracene	ND	ug/kg	5.3					
	Benzo (a) pyrene	ND	ug/kg	4.3					
	Benzo (b) fluoranthene	ND	ug/kg	4.3					
	Benzo (ghi) perylene	ND	ug/kg	6.4					
	Benzo (k) fluoranthene	ND	ug/kg	4.3					
	Chrysene	20	ug/kg	5.3					
	Dibenzo (a,h) anthracene	ND	ug/kg	4.3					
	Fluoranthene	ND	ug/kg	0.9					
	Fluorene	ND	ug/kg	4.3					
	Indeno (1,2,3-cd) pyrene	ND	ug/kg	4.3					
	1-Methylnaphthalene	ND	ug/kg	21					
	2-Methylnaphthalene	ND	ug/kg	21					
	Naphthalene	ND	ug/kg	21					
	Phenanthrene	ND	ug/kg	4.3					





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1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/94W048
Your Sample ID: SS-11
Sample Desc. : FPT-2 D5 HS20
Sample Matrix : SOIL Date Collected: 07/14/1995
En Chem Proj# : 9507230 Date Received : 07/17/1995
En Chem Lab # : 148743 Date Reported : 08/01/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
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GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyze By
PAH-S	Pyrene	7.1 ug/kg		4.3	SW846 3550	07/25/1995	SW846 8310	07/31/1995	MAR
DRO-S	Diesel Range Organics(DRO)-Soil	1100 mg/kg		40		07/17/1995	WDNR MOD DRO	07/21/1995	PHS
	Blank spike	89 % RECOV		50					
	Blank spike duplicate	89 % RECOV		50					
	Soil spike	77 % RECOV		50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Nate Mellory





...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/94W048
Your Sample ID: SS-12
Sample Desc. : FPT-105 HS-21
Sample Matrix : SOIL Date Collected: 07/14/1995
En Chem Proj# : 9507230 Date Received : 07/17/1995
En Chem Lab # : 148745 Date Reported : 08/01/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyze By
TOTSOLID	Total Solids	74	percent				EPA 160.3	07/18/1995	NJS
PVOC-S-ME	Benzene	ND	ug/kg	25		07/19/1995	SW846 8020	07/25/1995	EGS
	Ethyl Benzene	130	ug/kg	34					
	Methyl-tert-butyl ether	ND	ug/kg	25					
	Toluene	ND	ug/kg	25					
	1,2,4-trimethylbenzene	1400	ug/kg	34					
	1,3,5-trimethylbenzene	ND	ug/kg	25					
	Xylenes, m + p	220	ug/kg	34					
	Xylene, o	83	ug/kg	34					
PB-S	Lead, soil	12	mg/kg	4.3	SW846 3050	07/20/1995	SW846 7421	07/20/1995	ctk
PAH-S	Acenaphthene	ND	ug/kg	340	SW846 3550	07/25/1995	SW846 8310	08/01/1995	MAR
	Acenaphthylene	ND	ug/kg	680					
	Anthracene	ND	ug/kg	14					
	Benzo (a) anthracene	ND	ug/kg	17					
	Benzo (a) pyrene	ND	ug/kg	14					
	Benzo (b) fluoranthene	35	ug/kg	14					
	Benzo (ghi) perylene	ND	ug/kg	20					
	Benzo (k) fluoranthene	ND	ug/kg	14					
	Chrysene	62	ug/kg	17					
	Dibenzo (a,h) anthracene	ND	ug/kg	14					
	Fluoranthene	ND	ug/kg	14					
	Fluorene	ND	ug/kg	68					
	Indeno (1,2,3-cd) pyrene	ND	ug/kg	14					
	1-Methylnaphthalene	ND	ug/kg	340					
	2-Methylnaphthalene	ND	ug/kg	340					
	Naphthalene	ND	ug/kg	340					
	Phenanthrene	ND	ug/kg	68					



...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/94W048
Your Sample ID: SS-12
Sample Desc. : FPT-105 HS-21
Sample Matrix : SOIL Date Collected: 07/14/1995
En Chem Proj# : 9507230 Date Received : 07/17/1995
En Chem Lab # : 148745 Date Reported : 08/01/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyze By
PAH-S	Pyrene	ND	ug/kg	68	SW846 3550	07/25/1995	SW846 8310	08/01/1995	MAR
DRO-S	Diesel Range Organics(DRO)-Soil	1600	mg/kg	52		07/17/1995	WDNR MOD DRO	07/21/1995	PHS
	Blank spike	97 % RECOV		50					
	Blank spike duplicate	93 % RECOV		50					
	Soil spike	91 % RECOV		50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Mike Melberg





...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/94W048
Your Sample ID: SS-13
Sample Desc. : PRE 04 HS-22
Sample Matrix : SOIL Date Collected: 07/14/1995
En Chem Proj# : 9507230 Date Received : 07/17/1995
En Chem Lab # : 148744 Date Reported : 07/21/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyz By
TOTSOLID	Total Solids	84	percent				EPA 160.3	07/18/1995	NJS
DRO-S	Diesel Range Organics(DRO)-Soil	ND	mg/kg	4.2		07/17/1995	WDNR MOD DRO	07/20/1995	NJS
	Blank spike	89 % RECOV		50					
	Blank spike duplicate	89 % RECOV		50					
	Soil spike	77 % RECOV		50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Mark Melberg

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/94W048
Your Sample ID:
Sample Desc. : TRIP BLANK
Sample Matrix : WATER Date Collected: 07/14/1995
En Chem Proj# : 9507230 Date Received : 07/17/1995
En Chem Lab # : 148746 Date Reported : 07/19/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyze By
PVOC	Benzene	ND	ug/l	0.6	SW846 5030	07/18/1995	SW846 8020	07/18/1995	CAR2
	Ethyl Benzene	ND	ug/l	1.0					
	Methyl-tert-Butyl Ether	ND	ug/l	1.0					
	Toluene	ND	ug/l	1.0					
	1,2,4-Trimethylbenzene	ND	ug/l	1.0					
	1,3,5-Trimethylbenzene	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Mark Melberg





John T.

Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

Sample Collector(s) <u>J. BLANKIE KRSCH / Joe Austin</u>	Title/Work Station/Company <u>Env Eng / GB / FORT + VAN DYKE</u>	Telephone Number (include area code) <u>414-497-2500</u>
Property Owner <u>GREEN Bay CORRECTIONAL / S.W.I.</u>	Property Address <u>RIVERSIDE DR BILLOMER</u>	Telephone Number (include area code)

I hereby certify that I received, properly handled and disposed of these samples as noted below:

Relinquished By (Signature) <i>[Signature]</i>	Date/Time <u>6:15 am 7/14/95</u>	Received By (Signature) <i>[Signature]</i>
Relinquished By (Signature) <i>[Signature]</i>	Date/Time <u>7/17/95 0845</u>	Received By (Signature)
Relinquished By (Signature)	Date/Time <u>7/17/95 0845</u>	Received for EN CHEM by (Signature) <i>[Signature]</i>

LABORATORY USE ONLY

Temperature of temperature blank none
If samples were received on ice and there was ice remaining, you may report the temperature as 'received on ice'. If all of the ice was melted, the temperature of the melt may be substituted for a temperature blank.

Field ID Number	Date Collected	Time Collected	Sample		Preserv. Type	Field Screening	Location/Description (see footnote 2)	Analysis Type	Lab ID Number	Sample Condition				
			Type	Device						no./Type of Containers	Cracked /broken	Improp. Sealed	Good Cond.	Other Comments
<u>SS-01</u>	<u>7/13/95</u>	<u>11:37</u>	<u>Soil</u>	<u>GRAB</u>	<u>NO</u>	<u>146</u>	<u>T-1 NW D12 HS-05</u>	<u>NON-HAL</u> <u>2.1.7.11</u>	<u>148756</u>	<u>2- ENCORE</u> <u>1- 502</u> <u>1- 802</u>	<u>Canal</u>			<u>new 7/19/95</u>
<u>SS-02</u>		<u>13:10</u>				<u>34</u>	<u>T-1 NW D12 HS-06</u>	<u>518</u> <u>148757</u>			<u>Canal</u>			<u>2.1.7.11</u> <u>7/19/95</u>
<u>SS-03</u>		<u>13:15</u>				<u>1</u>	<u>T-1 EW D12 HS-07</u>		<u>148758</u>					
<u>SS-04</u>		<u>13:20</u>				<u>2</u>	<u>T-1 SW D11 HS-08</u>		<u>148759</u>					
<u>Field for PCB</u>														

FOOTNOTES 1. specify groundwater, surface water, soil, leachate, sludge, etc.
2. sample description must clearly correlate the sample ID to the sampling location.

07230

OTA#

En Chem Project#

9508230

ANALYSIS CODES

- | | | | |
|---------|-------------------|------------------|---------------------|
| 1. GRO | 5. DRO | 9. Free Liquids | 13. BETX |
| 2. PVOC | 6. PAH | 10. pH | 14. Protocol D1-GRO |
| 3. Lead | 7. Flashpoint | 11. TCLP-Benzene | 15. Protocol D1-DRO |
| 4. B021 | 8. Percent Solids | 12. TCLP-Lead | 16. B260 |

BILLING ADDRESS:

Russ Jonesk F40
2737 S RIDGE RD
GREEN Bay, WI 54305

Job Name/Numbers: GB-CORRECTIONAL / 946048

Job Descriptions: ASSESSMENT + REMEDIATION

Returned 108 ENCORE SAMPLERS
60



1/2 1/80

Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

Sample Collector(s) <u>Blayne Kirsch / Joe Austin</u>	Title/Work Station/Company <u>ENVIRONMENTAL ENGINEER / G.B. / Futh & Van Dyke</u>	Telephone Number (include area code) <u>414 497-2500</u>
Property Owner <u>GREEN BAY CORRECTIONAL - STATE WIS</u>	Property Address <u>RIVERSIDE DR, ALLONGE</u>	Telephone Number (include area code)

I hereby certify that I received, properly handled and disposed of these samples as noted below:

Relinquished By (Signature) <u>[Signature]</u>	Date/Time <u>6pm 7/14/95</u>	Received By (Signature)	LABORATORY USE ONLY Temperature of temperature blank <u>P.O.I.</u> If samples were received on ice and there was ice remaining, you may report the temperature as 'received on ice'. If all of the ice was melted, the temperature of the melt may be substituted for a temperature blank.
Relinquished By (Signature)	Date/Time	Received By (Signature)	
Relinquished By (Signature)	Date/Time	Received for EN CHEM by (Signature) <u>K. Samuels 7/14/95 10:00</u>	

Field ID Number	Date Collected	Time Collected	Sample Type	Device	Preserv. Type	Field Screening	Location/Description (see footnote 2)	Analysis Type	Lab ID Number	no./Type of Containers	Cracked /Broken	Improp. Sealed	Good Contd.	Other Comments
SS-01	7/13/95	11:37	Soil	GRAB	NO	146	T-1 NW 1/2 HS-05	23.568	148737	1-502 AMBER				DID NOT RECEIVE
SS-02		13:10				34	T-1 NW 1/2 HS-06							
SS-03		13:15				1	T-1 EW 1/2 HS-07							
SS-04		13:20				2	T-1 SW 1/2 HS-08							
SS-05	7/14/95	9:15				1.3	T-2 SW 1/2 HS-12	5.8	148737	1-502 AMBER				P/M
SS-06		9:56				0.0	PR WDS HS-15	148738	148738	2-1000 ORG				P/M
SS-07		10:15				0.0	T-2 SW 1/2 HS-13		148739					P/M

FOOTNOTES
1. specify groundwater, surface water, soil, leachate, sludge, etc.
2. sample description must clearly correlate the sample ID to the sampling location.

QTAW

En Chem Project# 9507230

BILLING ADDRESS:

Russ JANESK, JR.
Futh & Van Dyke
2737 S. RINE RD
GREEN BAY WI 54307

ANALYSIS CODES

- | | | | |
|---------|-------------------|------------------|---------------------|
| 1. GRO | 5. DRO | 9. Free Liquids | 13. BETX |
| 2. PVO | 6. PAN | 10. pH | 14. Protocol D1-GRO |
| 3. Lead | 7. Flashpoint | 11. TCLP-Benzene | 15. Protocol D1-DRO |
| 4. B021 | 8. Percent Solids | 12. TCLP-Lead | 16. B260 |

Job Name/Number: GB-CORRECTIONAL / 9411048

Job Description: ASSESSMENT & REMEDIATION

RETURNED 18 ENCORE



2/2 J.D.

Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

Sample Collector(s) <u>Blaine Kirch / Joe Austin</u>	Title/Work Station/Company <u>Env Eng / GB / Fish + Van Dike</u>	Telephone Number (include area code) <u>414 497-2500</u>
Property Owner <u>GREEN BAY CORRECTIONAL / S. QUINN</u>	Property Address <u>RIVERSIDE DR. ALHOUET</u>	Telephone Number (include area code)

I hereby certify that I received, properly handled and disposed of these samples as noted below:

Relinquished By (Signature) <u>[Signature]</u>	Date/Time <u>6pm 7/14/95</u>	Received By (Signature)
Relinquished By (Signature)	Date/Time	Received By (Signature)
Relinquished By (Signature)	Date/Time	Received for EN CHEM by (Signature) <u>R. Somers / 7/19/95 10:00</u>

LABORATORY USE ONLY
Temperature of temperature blank ROI
If samples were received on ice and there was ice remaining, you may report the temperature as 'received on ice'. If all of the ice was melted, the temperature of the melt may be substituted for a temperature blank.

Field ID Number	Date Collected	Time Collected	Sample Type	Device	Preserv. Type	Field Screening	Location/Description (see footnote 2)	Analysis Type	Lab ID Number	no/Type of Containers	Cracked /broken	Improp. Sealed	Good Cond.	Other Comments
SS-08	7/14/95	10:30	Soil	GRAB	NO	65	T-2 NW D13 HS16	25.68	148740	2-ENG 1-BZ 1-50L			✓	P/M
SS-09		11:00				4	T-2 NW D15 HS17		148741				✓	
SS-10		11:45				90	T-2 NW D13 HS19		148742				✓	
SS-11		14:20				152	FPT-2 BS HS20		148743				✓	
SS-13		14:40				114	PRE D4 HS-22 FPT-105 HS21	5.8	148744	Comp 2, 3, 6			✓	
SS-14		17:30				0.6	PRE D4 HS-22 FPT-105 HS21							Did Not Receive
SS-12							FPT-105 HS21	35.68	148745	1-50L 1-800 4-40ML			✓	AB/MIA
TRIP BLANK														

FOOTNOTES
1. specify groundwater, surface water, soil, leachate, sludge, etc.
2. sample description must clearly correlate the sample ID to the sampling location.

QTA# _____ En Chem Project# 9507230

BILLING ADDRESS:
Russ JANESK Fish + Van Dike
2737 S. RIDGE RD
GREEN BAY, WI 54307

ANALYSIS CODES
1. GRO 5. DRO 9. Free Liquids 13. BETX
2. PVA 6. PAH 10. pH 14. Protocol D1-GRO
3. Lead 7. Flashpoint 11. TCLP-Benzene 15. Protocol D1-DRO
4. 8021 8. Percent Solids 12. TCLP-Lead 16. 8260

Job Name/Number: GB-CORRECTIONAL / 94W048
Job Description: ASSESSMENT + REMEDIATION



...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/ 94W048
En Chem Proj# : 9507229
Date Reported : 07/24/1995

Report to: FOTH & VAN DYKE

Thank you for using En Chem! Samples were analyzed according to strict EPA or Wisconsin DNR methodology. Any comments or problems associated with the receipt of or analysis are reported below:

Sample id. SP-01 was not received by the laboratory. Client was notified. Per client it will be resampled.

Sample no. 148736: Benzene chromatogram has many low level peaks.





...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : GB-CORRECTIONAL/ 94W048
Your Sample ID: SP-02
Sample Desc. : SOIL PILE MID
Sample Matrix : SOIL Date Collected: 07/14/1995
En Chem Proj# : 9507229 Date Received : 07/17/1995
En Chem Lab # : 148736 Date Reported : 07/24/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analysis By
TOTSOLID	Total Solids	86 percent					EPA 160.3	07/18/1995	NJS
PB-S	Lead, soil	5.2 mg/kg		3.8	SW846 3050	07/19/1995	SW846 7421	07/20/1995	ctk
IGNIT	Ignitability	>210 °F					SW846 1010	07/19/1995	DJB
FREELIQ	Free Liquids	0.0 Percent					SW846 9095	07/19/1995	NJS
DRO-S	Diesel Range Organics(DRO)-Soil	150 mg/kg		8.4		07/17/1995	WDNR MOD DRO	07/21/1995	PHS
	Blank spike	89 % RECOV		50					
	Blank spike duplicate	89 % RECOV		50					
	Soil spike	77 % RECOV		50					
BENZ-S-ME	Benzene	ND	ug/kg	25		07/19/1995	WDNR MOD GRO	07/23/1995	PMS

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Mark Melroy





Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

Sample Collector(s) <u>Blayne Kirsch / Gene Austin</u>	Title/Work Station/Company <u>Env. Eng. / FSH + VAN DYKE & B</u>	Telephone Number (include area code) <u>414-497-2500</u>
Property Owner <u>GREEN BAY CORRECTIONAL / S. G. WIS</u>	Property Address <u>RIVERSIDE DR. ALLOUEZ</u>	Telephone Number (include area code)

I hereby certify that I received, properly handled and disposed of these samples as noted below:

Relinquished By (Signature) <u>[Signature]</u>	Date/Time <u>6 pm 7/14/95</u>	Received By (Signature)	LABORATORY USE ONLY Temperature of temperature blank <u>R.O.I.</u> If samples were received on ice and there was ice remaining, you may report the temperature as 'received on ice'. If all of the ice was melted, the temperature of the melt may be substituted for a temperature blank.
Relinquished By (Signature)	Date/Time	Received By (Signature)	
Relinquished By (Signature)	Date/Time	Received for EN-CHEM by (Signature) <u>R. Samuels 7/14/95 18:00</u>	

Field ID Number	Date Collected	Time Collected	Sample Type 1	Device	Preserv. Type	Field Screening	Location/Description (see footnote 2)	Analysis Type	Lab ID Number	no/Type of Containers	Cracked /broken	Improp. Sealed	Good Cond.	Other Comments
SP-01	7/13/95	15:45	Soil	GRAB	NO	178	Soil/Pile - MQUED	15.5						Did Not Recover
SP-02	7/14/95	17:35	1	1	—	34	Soil/Pile min	15.5	148736	2-502 2-ENCORE				B/M

FOOTNOTES
1. specify groundwater, surface water, soil, leachate, sludge, etc.
2. sample description must clearly correlate the sample ID to the sampling location.

QTA# _____ En Chem Project# 9507229

BILLING ADDRESS:

RUSS JANESK - FSH + VAN DYKE
2737 S. RIDGE Rd
GREEN BAY, WI 54307

ANALYSIS CODES
 1. GRO 5. DRO 9. Free Liquids 13. BETX
 2. PVOC 6. PAH 10. pH 14. Protocol D1-GRO
 3. Lead 7. Flashpoint 11. TCLP-Benzene 15. Protocol D1-DRO
 4. 8021 8. Percent Solids 12. TCLP-Lead 16. 8260

Job Name/Number: GB Correctional / 94W048
Job Description: ASSESSMENT + REMEDIATION

Returned: 2 ENCORE #1217, 1557



... chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No: 405132750
Location : DFD-GB-CORRECTIONAL/ 94W048
En Chem Proj# : 9511528
Date Reported : 12/04/1995

Report to: FOTH & VAN DYKE

Thank you for using En Chem! Samples were analyzed according to strict EPA or Wisconsin DNR methodology. Any comments or problems associated with the receipt of or analysis are reported below:

Sample nos. 164234 and 164235: Large peak late in DRO window.

12.07.95

RTJ

JBK

MRR

94W048(10500)

[WI DFD]



1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No. 405132750
Location : DFD-GB-CORRECTIONAL/ 94W048
Your Sample ID: SS-01
Sample Desc. : GB-1,000-SOUTH
Sample Matrix : SOIL Date Collected: 11/21/1995
En Chem Proj#: 9511528 Date Received : 11/22/1995
En Chem Lab # : 164234 Date Reported : 12/04/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyze By
TOTSOLID	Total Solids	91	percent				EPA 160.3	11/27/1995	NJS
DRO-S	Diesel Range Organics(DRO)-Soil	ND	mg/kg	4.1		11/22/1995	WDNR MOD DRO	11/02/1995	PHS
	Blank spike	94 % RECOV		50					
	Blank spike duplicate	93 % RECOV		50					
	Soil spike	83 % RECOV		50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

M. Suba





...chemistry for the environment

1795 Industrial Drive
Green Bay, WI 54302
414-469-2436
800-7-ENCHEM
FAX: 414-469-8827

Lab Certification No.: 405132750
Location : DFD-GB-CORRECTIONAL/ 94W048
Your Sample ID: SS-02
Sample Desc. : GB-1,000-NORTH
Sample Matrix : SOIL Date Collected: 11/21/1995
En Chem Proj# : 9511528 Date Received : 11/22/1995
En Chem Lab # : 164235 Date Reported : 12/04/1995

Report to: FOTH & VAN DYKE
2737 SO. RIDGE ROAD
P.O. BOX 19012
GREEN BAY, WI 54307-9012

Bill to: FOTH & VAN DYKE

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyst By
TOTSOLID	Total Solids	88 percent					EPA 160.3	11/27/1995	NJS
DRO-S	Diesel Range Organics(DRO)-Soil	ND	mg/kg	4.3		11/22/1995	WDNR MOD DRO	11/02/1995	PHS
	Blank spike	94 % RECOV		50					
	Blank spike duplicate	93 % RECOV		50					
	Soil spike	83 % RECOV		50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

M. Saha



Appendix I

"Case Summary and Closeout" WDNR Form 4400-171

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
CASE SUMMARY AND CLOSE OUT FORM

update 5/3/96

UID # 03-05-2140

Responsible Party Name/ Full Address: Martin Romero, P.E.
Wisconsin Department of Administration
Division of Facilities Development
P.O. Box 7866
Madison, WI 53707-7866

Wisconsin Department of Corrections

Site Name/Full Address: Green Bay Correctional Institution, 2833 Riverside Drive, Green Bay, WI 54307-9033

Legal Description: 1/4, W 1/4, Sec 20, T 23 N, R 20 (E) WISCONSIN DEPARTMENT OF NATURAL
RESOURCES Case No. 03-05-2140 County: Brown

Contaminant Type(s) DRO Quantity Released Unknown

Incident Type: (amount released if known): LUST

Date of Incident/Discovered: July 14, 1995 If Incident = LUST: Form 4 Pending? Yes ☒ No

Depth to Groundwater/Flow Direction: = 14 ft/W Perched Water? ☒ Y ☒ N Depth: *Unknown

Soil Type Clay Depth to Bedrock >14 ft

Potential Receptors: None

Site Assessment Consultant: Foth & Van Dyke, 2737 S. Ridge Rd., P.O. Box 19012, Green Bay, WI 54307-9012

Investigation/Remediation Consultant: Foth & Van Dyke

Certified Lab Testing Soils/Water: EnChem, Green Bay, WI

Status of water supply wells within 1200 feet of the site? One municipal well (see attachment)

Date Closure Submitted to WDNR: July 1997 Enforcement Actions or Permits Closed Out? Yes ☒ No

CLOSE OUT COMMITTEE SIGN OFF:

Date: _____

(Signature)

(Signature)

(Signature)

(Signature)

**SOIL
PRE-REMEDATION OR INVESTIGATION ANALYTICAL RESULTS**

Extent Defined? ☐ Y ☒ X ☐ N Small amount of contaminated clay remaining between prison wall and main gas pipe.

Attach Table of Pre-remedial Soil Samples

**SOIL
POST REMEDIATION ANALYTICAL RESULTS**

Attach the Table for Post Remedial Soil Results

Remedial Action Completed? ☒ X ☐ Y ☐ N 720.19 analysis ☐ Y ☒ X ☐ N (if Y attach supporting documentation)

Final Confirmation Sampling Methods: DRO, PVOC, PAH, Lead

Description of remedial action taken: Excavation of contaminated soil/disposal at off-site biopile.

Were Soils Excavated? ☒ X ☐ Y ☐ N Quantity: 63 ton Disposal Method: Biopile

Soil Disposal Form Attached? ☒ X ☐ Y ☐ N Final Disposal Location: Ridgeview Landfill, Whitelaw, Wisconsin

GROUNDWATER ANALYTICAL RESULTS

Extent Defined? ☐ Y ☐ N ☒ X NA

Remedial Action Completed? ☐ Y ☒ X ☐ N

Field Analyses? ☐ Y ☐ N Lab Analyses? ☐ Y ☐ N No. of Sampling Points: N/A

Number of Sample Rounds: N/A

#NR 141 Temporary Wells: N/A #Recovery Sumps: N/A

#Private Wells: N/A For private wells, Form 3300-67 completed: N/A

#Municipal Wells: N/A #NR 141 Monitoring Wells: N/A

Preventive Action Limit exceeded? ☐ Y ☐ N (If yes, location) N/A

Enforcement Standard exceeded? ☐ Y ☐ N (If yes, location) N/A

Attach Table of Groundwater Results

Description of remedial action taken:

Form completed by:

I certify that, to the best of my knowledge, the information presented on and attached to this form are true and accurate. This recommendation for case closure is based upon all available data as of 7/24/97 (date). I have read the Case Summary and Close Out Form Instructions and all required information has been included.


Name: Philip R. Brochocki Firm Name: Foth & Van Dyke

Affiliation with Site Owner: Consultant

Address: 2737 S. Ridge Road, P.O. Box 19012

City: Green Bay State: WI Zip: 54307-9012

Telephone Number: (920) 497-2500


(Signature)

COMMITTEE RECOMMENDATION:

Date: _____



Foth & Van Dyke
engineers • architects • scientists

Client WI Dept. of Administration Date 1/10/97
Project Power Plant Documentation Report
Prepared by SIS - Phase I Page 1/1
File Classification 7000 Scope I.D. 95W042

PROJECT PHONE CALL CONFIRMATION

94W048

Call from/to SIS/Dave Bors Time 900 ☒ AM ☐ PM
Representing FVD/Town of Albion Sp.?
Re: Green Bay Correctional Town of Albion
Phone number 414 448-2808
Reason for call Question regarding well location with respect to power plant.

I asked Mr Bors if there are any monitoring wells/supply wells for potable water within 1200 feet of the Green Bay Correctional power plant?

Mr. Bors said from the west wall of the face of the building to the main distribution/main pumping well = 1100 feet. The well is below the hill at the River Bank, west of Riverside Dr. No monitoring wells within the vicinity of area.

Main Distribution Well is 1100 ft from face of West Wall of the structure

If power plant location is ≥ 100 ft from face of west wall, then well is ≥ 1200 ft from power plant

If power plant location is < 100 ft from face of west wall, then well is ≤ 1200 ft from power plant.

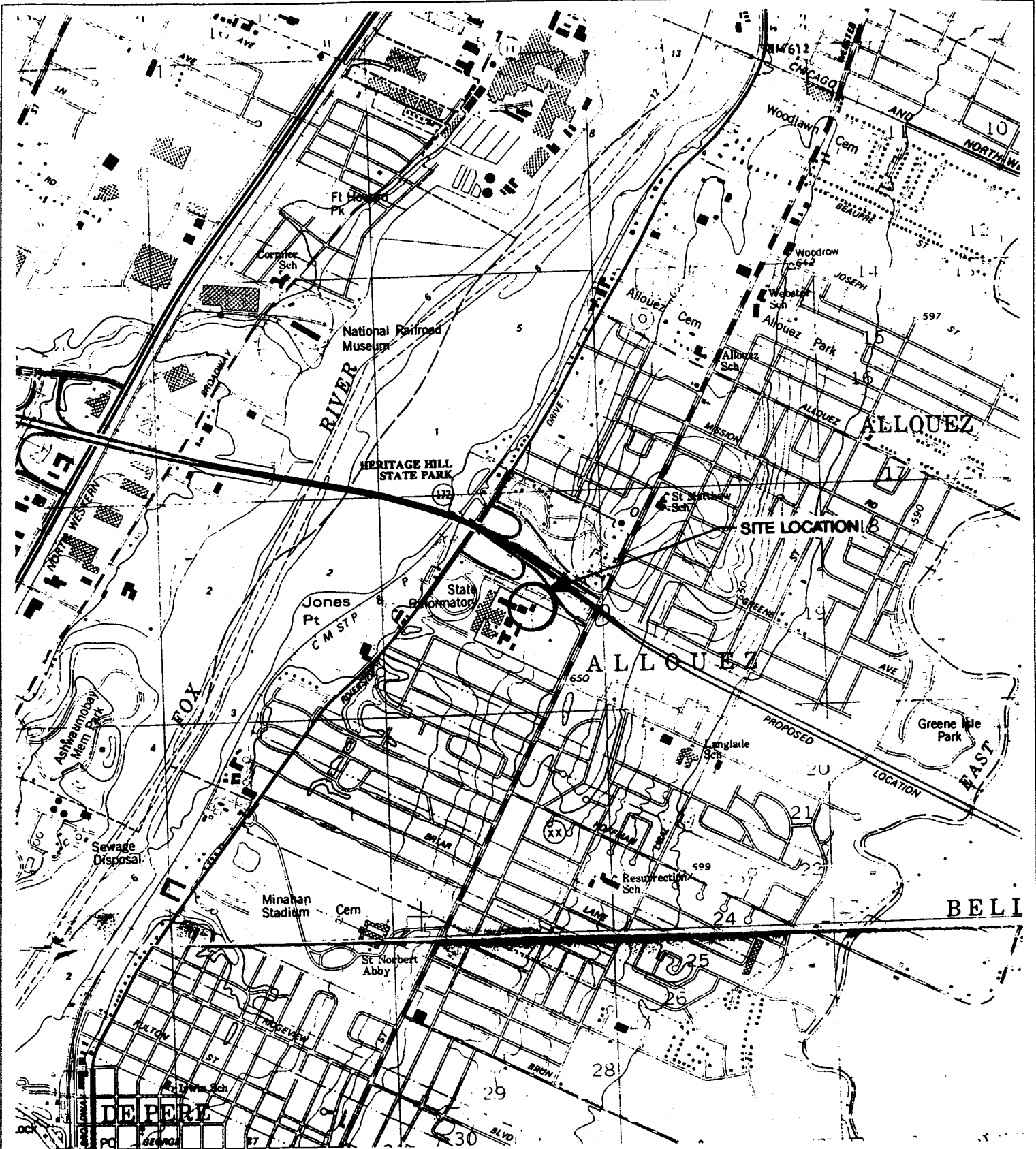
Further action required? ☒ Yes ☐ No

If yes, action required:

Action taken: Need verification of power plant location within Green Bay Correctional structure

Distribution:

File (Based on Site Plan, I think power plant is very close to 1200 ft mark)
PRB
JBK



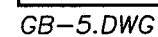
SOURCE: USGS 7.5 MIN. QUAD
DE PERE, WISCONSIN



QUADRANGLE LOCATION



STATE OF WISCONSIN DEPARTMENT OF ADMINISTRATION		94W048
BROWN COUNTY		DRAWING NO.
FIGURE 1-1 SITE LOCATION MAP GREEN BAY CORRECTIONAL INSTITUTION GREEN BAY, WISCONSIN		
SCALE: 1" = 2000'	A/E NUMBER: 95W056	DATE: AUGUST, 1995
PREPARED BY:	Foth & Van Dyke	
		BY: BSH



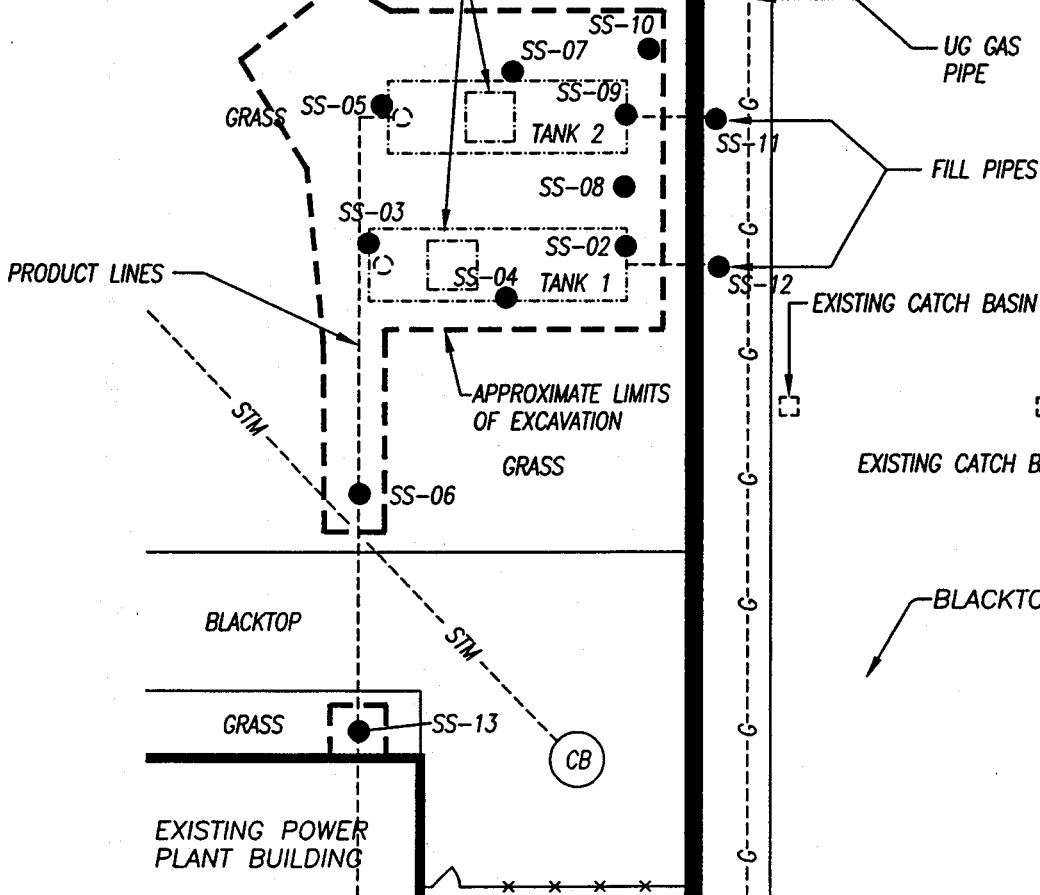
GUARD CHECK
POINT BLDG.

NORTH SALLY PORT

EXISTING
GUARD
TOWER

EXISTING CONCRETE SIDEWALK

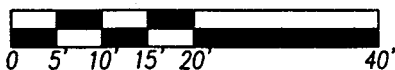
FORMER LOCATION OF
(2)20,000 GALLON U.S.T.'S
FUEL OIL STORAGE TANKS



LEGEND

SS-06
● APPROXIMATE LOCATION OF SOIL SAMPLES

GRAPHIC SCALE



STATE OF WISCONSIN
DEPARTMENT OF ADMINISTRATION

93943

PARTIAL SITE PLAN - NORTH

DRAWING NO. 4W48F9

FIGURE 3-1
20,000 GALLON UST SITE PLAN
GREEN BAY CORRECTIONAL INSTITUTION
GREEN BAY, WISCONSIN

SCALE: 1" = 20'

A/E NUMBER: 94W048

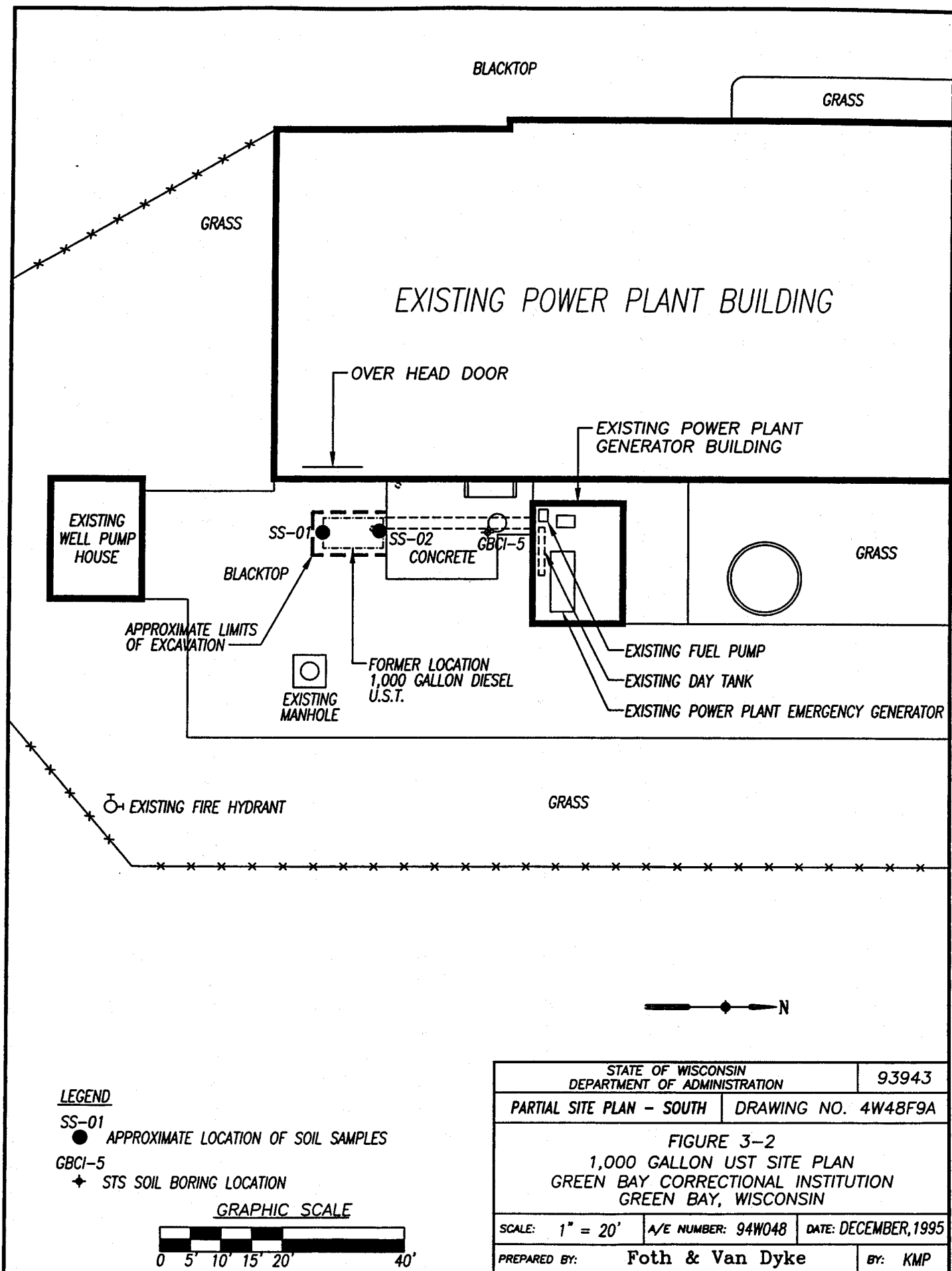
DATE: DECEMBER, 1995

PREPARED BY:

Foth & Van Dyke

BY: KMP

4W48F9.DWG



4W48F9.DWG

Table 3-2

**Green Bay Correctional Institute Power Plant
Soil Analytical Results
Fuel Oil Tank Assessment/Remediation
Field Screening, PVOCs, and DRO**

Sample ID/ Depth (ft)	Sample Description	Date Sampled	PID	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl- benzene (ug/kg)	m/p Xylenes (ug/kg)	O- Xylenes (ug/kg)	MTBE (ug/kg)	1,2,4- Tri- methyl- benzene (ug/kg)	1,3,5-Tri- methyl- benzene (ug/kg)	DRO (mg/kg)	Lead (mg/kg)
20,000-Gal Heating Oil Tank System													
SS-02/12	T-1 NW D12 HS-06	07/13/95	34	NA	NA	NA	NA	NA	NA	NA	NA	72	NA
SS-03/12	T-1 EW D12 HS-07	07/13/95	1	NA	NA	NA	NA	NA	NA	NA	NA	<4.4	NA
SS-04/11	T-1 SW D11 HS-08	07/13/95	2	NA	NA	NA	NA	NA	NA	NA	NA	<4.2	NA
SS-05/11	T-2 SW D11 HS12	07/14/95	1.3	NA	NA	NA	NA	NA	NA	NA	NA	17	NA
SS-06/5	PR W D5 HS15	07/14/95	0.0	NA	NA	NA	NA	NA	NA	NA	NA	<4.5	NA
SS-07/11	T-2 WW D11 HS13	07/14/95	0.0	NA	NA	NA	NA	NA	NA	NA	NA	<4.4	NA
SS-08/13	T-2 NW D13 HS16	07/14/95	65	<25	<25	<25	<25	<25	<25	<25	<25	<4.6	5.3
SS-09/15	T-2 NWB D15 HS17	07/14/95	4	<25	<25	<25	<25	<25	<25	<25	<25	<4.6	5.4
SS-10/13	T-2 NWNW D13 HS19	07/14/95	0.0	<25	<25	<25	<25	<25	<25	<25	<25	<4.4	4.9
SS-11/5	FPT-2 D5 HS20	07/14/95	152	<25	<25	<25	<25	<25	<25	<25	<25	1100	15
SS-12/5	FPT-1 D5 HS-21	07/14/95	114	<25	<25	130	220	83	<25	1400	<25	1600	12
SS-13/4	PRE D4 HS22	07/14/95	0.6	NA	NA	NA	NA	NA	NA	NA	NA	<4.2	NA
1,000-Gal Digester Tank System													
SS-01/8	GB-1,000-South	11/21/95	16.0 ^(C)	NA	NA	NA	NA	NA	NA	NA	NA	<4.1	NA
SS-02/8	GB-1,000-North	11/21/95	0.0 ^(C)	NA	NA	NA	NA	NA	NA	NA	NA	<4.3	NA

Table 3-2 (Continued)

Sample ID/ Depth (ft)	Sample Description	Date Sampled	PID	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl- benzene (ug/kg)	m/p Xylenes (ug/kg)	O- Xylenes (ug/kg)	MTBE (ug/kg)	1,2,4- Tri- methyl- benzene (ug/kg)	1,3,5-Tri- methyl- benzene (ug/kg)	DRO (mg/kg)	Lead (mg/kg)
Soil Cleanup Standards (NR 720)													
	RCL			5.5	1500	2900	(4100) ^(B)	(4100) ^(B)	NE	NE	NE	250	50

Prepared by: MDF
Checked by: PRB

NA = Not Analyzed
 NE = Not Established
 PVOCs = Petroleum Volatile Organic Compounds (8020 method list)
 MTBE = Methyl tert-butyl ether
 DRO = Diesel Range Organics by Wisconsin Modified DRO Method
 < = Compound below minimum detection limit shown
 RCL = Residual Contaminant Level
 For soils with saturated hydraulic conductivity less than 1×10^{-6} cm/sec, DRO at 250 mg/kg
 For non-industrial land uses, lead at 50 mg/kg, for industrial land uses, lead at 500 mg/kg

^(A)Constituent units for this sample are $\mu\text{g/l}$.

^(B)Standard established for total xylenes, summation of m/p and O-xylenes.

Soil sample locations are shown on Figures 3-1 and 3-2.

Table 3-3

**Green Bay Correctional Institute Power Plant
Soil Analytical Results
Fuel Oil Tank Assessment/Remediation
Polynuclear Aromatic Hydrocarbons (PAHs)^(A)
20,000-Gal Heating Oil Tank System**

Sample ID	Sample Description	Date Sampled	Acenaph-thene (ug/kg)	Acenaph-thylene (ug/kg)	Anthracene (ug/kg)	Benzo (a) anthracene (ug/kg)	Benzo (a) pyrene (ug/kg)	Benzo (b) fluoranthene (ug/kg)	Benzo (ghi) perylene (ug/kg)	Benzo (k) fluoranthene (ug/kg)	Chrysene (ug/kg)
SS-08	T-2 NW D13 HS16	07/14/95	<59	<120	<2.3	<2.9	<2.3	<2.3	5.5	<2.3	<2.9
SS-09	T-2 NWB D15 HS17	07/14/95	<19	<39	<0.8	<1.0	<0.8	<0.8	<5.8	<0.8	<1.0
SS-10	T-2 NWNW D13 HS19	07/14/95	<19	<39	<0.8	<1.0	<0.8	<0.8	<5.8	<0.8	<1.0
SS-11	FPT-2 D5 HS20	07/14/95	<21	<43	<0.9	<5.3	<4.3	<4.3	<6.4	<4.3	20
SS-12	FPT-1 D5 HS21	07/14/95	<340	<680	<14	<17	<14	35	<20	<14	62

Sample ID	Sample Description	Date Sampled	Dibenzo (a,h) anthracene (ug/kg)	Fluor-anthene (ug/kg)	Fluorene (ug/kg)	Indeno (1,2,3-cd) pyrene (ug/kg)	1-Methyl-naphthalene (ug/kg)	2-Methyl-naphthalene (ug/kg)	Naphthalene (ug/kg)	Phenan-threne (ug/kg)	Pyrene (ug/kg)
SS-08	T2 NW D13 HS16	07/14/95	2.6	<2.3	<12	<2.3	<59	<59	<59	<12	<12
SS-09	T-2 NWB D15 HS17	07/14/95	<3.9	<0.8	<3.9	<3.9	<19	<19	<19	<3.9	<3.9
SS-10	T-2 NWNW D13 HS19	07/14/95	<3.9	<0.8	<3.9	<3.9	<19	<19	<19	<3.9	<3.9
SS-11	FPT-2 D5 HS20	07/14/95	<4.3	<0.9	<4.3	<4.3	<21	<21	<21	<4.3	7.1
SS-12	FPT-1 D5 HS21	07/14/95	<14	<14	<68	<14	<340	<340	<340	<68	<68

< = Compound below minimum detection limit shown.
Note (A) There are no soil cleanup standards established for any of these PAHs.

Prepared by: MDF
Checked by: PRB

Soil sample locations are shown on Figure 3-1.

Project Phone Call Confirmation

RECEIVED

JUN 12 1996

LMD SOLID WASTE

Call From/To: Alan Nass

Time: A.M./P.M.

Representing: WDNR

Lake Michigan District

Phone No.:

Reason for Call: Letter to Terry Cook - DFD (Dated May 1, 1996)

Green Bay Correctional

WDNR LUST ID No. 03-05-2140

Spoke with Al. For response to attached letter.

I told Al that Green Bay Correctional fuel oil tank pit has been remediated by over excavation at the time of the tank pulls (July 1995). I stated that none to minimal residual contamination was left in place. I also stated that approximately 70 cubic yards of petroleum impacted soil was stockpiled at the site. For the stockpile, I indicated to Al that it should be removed within the next 2-3 months, depending upon the subcontractor.

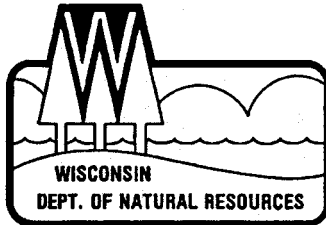
I further stated to Al that a site assessment report, remediation report and closure request will be forwarded to him in September or October, 1996.

Al said that this phone call would serve as response to the attached letter.

Further Action Required: No
Action Required: None
Action Taken: See above
Distribution:
Martin Ramero - Dept. of Admin.
Al Nass - DNR
Terry Cook - Dept. of Admin.
Mike Roller - Foth & Van Dyke
File

Signed:


6/7/96



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
William R. Selbig, District Director

Lake Michigan District Headquarters
PO Box 10448, 1125 N. Military Ave.
Green Bay, WI 54307-0448
TELEPHONE 414-492-5916
FAX 414-492-5859

May 1, 1996

DOA

Attn: Terry Cook - Division of Facil. Devel.
PO Box 306
King WI 54946

SUBJECT: Investigation/Remediation of Petroleum Contamination
WI DOC - Green Bay Correction Inst., 2833 Riverside Dr., Green Bay, WI
WDNR LUST ID # 03-05-2140

Dear Mr. Cook:

In a letter dated September 6, 1995, the Department informed you of your obligation to clean up the petroleum contamination at the above-referenced property. We have not received any information since July 14, 1995 to indicate that you have been investigating the extent of the contamination or developing a cleanup plan.

Cleaning up the contamination is important to protect the health and welfare of yourself, your neighbors and the environment; it is also required by Wisconsin and federal law. The longer contamination is left in the environment, the farther it can spread and the more it may cost to clean up.

If you are already in the process of investigation and/or remediation, please provide the Department with a written update, by no later than **June 3, 1996**, describing the work that has been performed and what work still needs to be completed to restore the environment

All reports and correspondence should be sent to the Department at the following address:

Wisconsin Department of Natural Resources
Attn: Alan Nass
1125 N. Military Avenue
PO Box 10448
Green Bay, WI 54307-0448

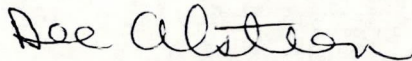
All submittals must be identified with the WDNR LUST ID number; unless otherwise requested, please send only one copy of all submittals.

As a reminder, you are encouraged to contact the Department of Industry, Labor & Human Relations (608-266-2424) to inquire whether you are eligible for reimbursement of costs associated with investigation and cleanup at this site.

Your cooperation in this matter would be appreciated. Failure to comply with these requirements may result in enforcement action.

If you have any questions concerning this letter, you may contact Mr. Alan Nass at (414)492-5861.

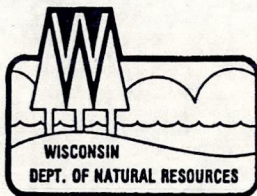
Sincerely,

A handwritten signature in cursive script, appearing to read "Dee Alsteen".

Dee Alsteen, Hydrogeologist
Leaking Underground Storage Tank Unit

cc: Blayne Kirsch, Foth & Van Dyke, PO Box 19012, Green Bay WI 54307

AC 2
9-6-1995



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

George E. Meyer, Secretary
William R. Selbig, District Director

Lake Michigan District Headquarters
Solid & Hazardous Waste Program
1125 N. Military Avenue, PO Box 10448
Green Bay, WI 54307-0448
TELEPHONE: (414)492-5916
TELEFAX: (414)492-5859

September 6, 1995

Division of Facilities Development
Attn: Terry Cook
PO Box 306
King, WI 54946

RE: Notification of Petroleum Contamination from Underground Storage Tank System
WDOC - Green Bay Correctional Institution, 2833 Riverside Drive, Green Bay
WDNR LUST ID #05-2140

Dear Mr. Cook:

On July 14, 1995, the Department of Natural Resources (DNR) received notification from Blayne Kirsch of Foth & Van Dyke that petroleum contamination was discovered at the above-referenced location.

From the information received, it appears that the contamination has been or will be cleaned up to the extent practicable. Therefore, by November 10, 1995, please submit a tank closure assessment report to the Department at the following address:

Wisconsin Department of Natural Resources
Attn: Alan Nass
1125 N. Military Avenue, PO Box 10448
Green Bay, WI 54307-0448

Please identify the report with the WDNR LUST ID number indicated above.

If, after reviewing the report, the WDNR has determined that further investigation/work is necessary, you will be notified accordingly. If you have any questions concerning this letter, please contact me at (414) 492-5878.

Sincerely,

Janis M. DeBrock, Program Assistant
Leaking Underground Storage Tank Unit

cc: Alan Nass - LMD
Blayne Kirsch, Foth & Van Dyke, PO Box 19012, Green Bay, WI 54307

54301-1635-33

Department of Natural Resources

LEAKING UNDERGROUND STORAGE TANK (Case Tracking)
Form 4400-146 Rev. 2-93PROJECT MANAGER: Un/MSUID Number: 2140

FID Number:

PMN Number:

County: OSInitial Contact Date: 7/14/95Site Name: WI DOC - Green Bay Corrupt.Date RPLetter Sent: 9/6/95 requestAddress: 2833 Riverside Drive Inst.Date Closure Approved: CloseoutMunicipality: Green BayPerson/Firm Reporting: Blayne Kirsch - F+VDLegal Descript.: 1/4 1/4 sec. T N R (E/W)Lat.: Long.: Phone Number: () 496-6820

Priority Screening

Scoring Criteria

Funding Source

Effective Date

LUST Trust Eligible

- ☐ 1 = High
☐ 2 = Medium
☒ 3 = Low
☐ 4 = Unknown

1.
 2.
 3.
 4.
 5.

- ☒ 1 = RP
☐ 2 = LTF
☐ 3 = EF
☐ 4 = Other

- / /
 / /
 / /
 / /

- ☒ 1 = Federal
☐ 2 = Non-Federal

Score: Init.: Date: / /

Case Status

- ☐ (F) Free Product Removal
☐ (E) RP Emergency Response
☐ (R) LTF Emergency Response
☐ (L) Long Term Monitoring

Start Date

End Date

 / /
 / /
 / /
 / /

Responsible Party

DOAContact Person: Jerry CookCompany Name: Division of Facil. Develop.Address: P.O. Box 306King, WI 54946Phone Number: (915) 258-1498CC's:

Impacts

Enter "P" for potential and "K" for known

- ☐ (1) Fire/Explosion Threat
☐ (2) Contaminated Private Well(s) # of Wells
☐ (3) Contaminated Public Well
☐ (4) Groundwater Contamination
☒ (5) Soil Contamination
☐ (6) Other:
☐ (7) Surface Water Impacts
☐ (9) Floating Product

Consultant

Contact Name: Phil BracklockCompany Name: Zott & Van DykeAddress: P.O. Box 19012Green Bay WI 54307Telephone: ()

Substances

Tank(s)

Size

- ☐ (1) Leaded Gas
☐ (2) Unleaded Gas
☐ (3) Diesel
☐ (4) Fuel Oil
☐ (5) Unkwn Hydrocrbn
☐ (8) Other
☐ (12) Waste Oil

02 = RP Letter Sent *

03 = Notice of Noncompliance *

04 = Enforcement Conference *

14 = Notice of Violation *

18 = Admin. Order Issued *

19 = Admin. Order Modified

20 = Admin. Order Cancelled

21 = Contest Case Hearing *

23 = Referral to DOJ *

30 = Notice to Proceed *

31 = Tnk Cls/SA Workplan Rec'd

32 = Tnk Cls/SA Workplan Appvd

33 = Tank Cls/SA Report Rec'd

34 = Tank Cls/SA Report Appvd

35 = SI Workplan Rec'd *

36 = SI Workplan Appvd *

37 = SI Report Rec'd *

38 = SI Report Appvd *

39 = RA Workplan Rec'd *

40 = RA Workplan Appvd *

41 = RA Report Rec'd *

42 = RA Report Appvd *

43 = Status Reports *

44 = Form 4 Received

45 = Form 4 Approved

46 = Form 4 Denied

47 = PECFA Reimbursement

48 = Free Product Recovery *

49 = Alternate Water Supplied *

60 = Consent Order +

NOTE: * = EPA Reporting Requirements

+ = LMD Tracking Requirements

[illegible]