GIS REGISTRY INFORMATION

SITE NAME: Mid-Lakes FS Cooperative AST area

BRRTS #: 02-36-000584 **FID # (**if appropriate**):**

COMMERCE # (if appropriate**):**

CLOSURE DATE: 05/11/2006

STREET ADDRESS: 600 Forest Home Drive

CITY: Francis Creek

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection)**:** **X=** 702472 **Y=** 416632

CONTAMINATED MEDIA: Groundwater [ ] Soil [ ] Both [x]

OFF-SOURCE GW CONTAMINATION >ES: [ ] **Yes** [x] **No**

IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection)**:** **X=** **Y=**

OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL): [ ] **Yes** [x] **No**

IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection)**:** **X=** **Y=**

CONTAMINATION IN RIGHT OF WAY: [x] **Yes** [ ] **No**

DOCUMENTS NEEDED:

Closure Letter, and any conditional closure letter or denial letter issued	x
Copy of most recent deed, including legal description, for all affected properties	x
Certified survey map or relevant portion of the recorded plat map (*if referenced in the legal description*) for all affected properties	x
County Parcel ID number, *if used for county*, for all affected properties 032-014-011-015 & 032-014-011-016	x
Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site.	x
Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs.	x
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)	x
Tables of Latest Soil Analytical Results (no shading or cross-hatching)	x
Isoconcentration map(s), *if required for site investigation (SI) (*8.5x14" if paper copy*)*.** The isoconcentration map should have flow direction and extent of groundwater contamination defined. **If not available, include the latest extent of contaminant plume map.**	x
GW: Table of water level elevations, with sampling dates, and free product noted if present	x
GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)	x
SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour	x
Geologic cross-sections, *if required for SI.* (8.5x14' if paper copy**)**	x
RP certified statement that legal descriptions are complete and accurate	x
Copies of off-source notification letters (if applicable)	na
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)	x
Copy of (soil or land use) deed restriction(s) or deed notice *if any required as a condition of closure*	na
Copy of any maintenance plan referenced in the deed restriction.	na

GIS REGISTRY INFORMATION

SITE NAME: Mid-Lakes FS Cooperative AST area

BRRTS #: 02-36-000584 **FID # (**if appropriate**):**

COMMERCE # (if appropriate**):**

CLOSURE DATE: 05/05/2006

STREET ADDRESS: 600 Forest Home Drive

CITY: Francis Creek

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection)**:** **X=** 702472 **Y=** 416632

CONTAMINATED MEDIA: Groundwater [ ] Soil [ ] Both [x]

OFF-SOURCE GW CONTAMINATION >ES: [ ] **Yes** [x] **No**

IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection)**:** **X=** **Y=**

OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL): [ ] **Yes** [x] **No**

IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection)**:** **X=** **Y=**

CONTAMINATION IN RIGHT OF WAY: [x] **Yes** [ ] **No**

DOCUMENTS NEEDED:

Closure Letter, and any conditional closure letter or denial letter issued	x
Copy of most recent deed, including legal description, for all affected properties	x
Certified survey map or relevant portion of the recorded plat map (*if referenced in the legal description*) for all affected properties	x
County Parcel ID number, *if used for county*, for all affected properties 032-014-011-015 & 032-014-011-016	x
Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site.	x
Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs.	x
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)	x
Tables of Latest Soil Analytical Results (no shading or cross-hatching)	x
Isoconcentration map(s), *if required for site investigation (SI) (* 8.5x14" if paper copy***).*** The isoconcentration map should have flow direction and extent of groundwater contamination defined. **If not available, include the latest extent of contaminant plume map.**	x
GW: Table of water level elevations, with sampling dates, and free product noted if present	x
GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)	x
SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour	x
Geologic cross-sections, *if required for SI.* (8.5x14' if paper copy**)**	x
RP certified statement that legal descriptions are complete and accurate	x
Copies of off-source notification letters (if applicable)	na
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)	x
Copy of (soil or land use) deed restriction(s) or deed notice *if any required as a condition of closure*	na
Copy of any maintenance plan referenced in the deed restriction.	na

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Ronald W. Kazmierczak, Regional Director

Northeast Region Headquarters
2984 Shawano Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-662-5100
FAX 920-662-5413
TTY Access via relay - 711

May 11, 2006

Mr. Norman Johnson
W8667 Buckhorn Circle
Wautoma, WI 54982

SUBJECT: Final Case Closure By Closure Committee With Conditions Met
Mid-Lakes FS Cooperative, 600 Forest Home Drive, Francis Creek, WI
WDNR BRRTS Activity #: 02-36-000584

Dear Mr. Johnson:

On June 8, 2005, the Northeast Regional Closure Committee reviewed the above referenced case for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On June 10, 2005, you were notified that the Closure Committee had granted conditional closure to this case.

On May 5, 2006, the Department received correspondence indicating that you have complied with the requirements of closure. Documentation that the recovery sump was found and appropriately abandoned was received. Based on the correspondence and data provided, it appears that your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time. Furthermore, the NR 140.28 PAL exemption described in the conditional closure letter dated June 10, 2005 is now in effect.

FUTURE EXCAVATION OF RESIDUAL CONTAMINATED SOIL

Residual soil contamination remains at SB-8, SB-11, SB-7, SB-16, SB-17, GP-2, GP-5, GP-8, GP-13, GP-20, GP-22, GP-23, GP-24, GP-25, GP-27, GP-29, "North wall," "South wall" and "East SW wall" sampling points as indicated in the information submitted to the Department of Natural Resources. If soil in these specific locations is excavated in the future, the property owner at the time of excavation will be required to sample and analyze the excavated soil to determine whether the contamination still remains. If contamination remains, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard at the time of excavation. **Special precautions may need to be taken during excavation activities to prevent a direct contact health threat to humans**. Based upon the results of sample analysis, the current owner will also have to properly store, treat, or dispose of any excavated materials, in accordance with state and federal laws.

In addition, depending on site-specific conditions, construction over contaminated materials may result in vapor migration into enclosed structures or migration along newly placed underground utility lines. The potential for vapor inhalation and mitigation should be evaluated when planning

any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit http://dnr.wi.gov/org/aw/rr/gis/index.htm. If your property is listed on the GIS Registry and you intend to construct or reconstruct a well, you will need Department approval. Department approval is required before construction or reconstruction of a well on a property listed on the GIS Registry, in accordance with s. NR 812.09(4)(w). To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line http://www.dnr.state.wi.us/org/water/dwg/3300254.pdf or at the web address listed above for the GIS Registry.

Please be aware that this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare, or the environment.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 920-662-5420.

Sincerely,

Casey J. Jones
for

Keld Lauridsen
Hydrogeologist
Remediation & Redevelopment Program

cc: Pratap Singh, K. Singh & Associates, Inc. (singh@execpc.com)
Randy Tomic, Growmark, Inc., PO Box 2500., Bloomington, IL 61702

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

Jim Doyle, Governor
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Northeast Region Headquarters
2984 Shawano Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-662-5100
FAX 920-662-5413
TTY Access via relay - 711

June 10, 2005

Mr. Norman Johnson
W8667 Burckhorn Circle
Wautoma, WI 54982

Subject: Conditional Closure Decision With NR 140 Exemption,
With Requirements to Achieve Final Closure for Mid Lakes FS Co-op (AST)
600 Forest Home Drive, Francis Creek, Wisconsin
WDNR BRRTS # 02-36-000584

Dear Mr. Johnson:

On June 8, 2005, the Northeast Regional Closure Committee reviewed your request for closure of the case described above. The Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Committee has determined that the petroleum contamination on the site from the above ground storage tank (AST) appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following conditions are satisfied:

MONITORING WELL ABANDONMENT

The monitoring wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code after both UST and AST cases have been granted conditional closure. Additionally, MW-11 must be located and properly abandoned or a deed affidavit may be required if located on private property. Documentation of well abandonment must be submitted to Keld Lauridsen on Form 3300-5B found at www.dnr.state.wi.us/org/water/dwg/gw/ or provided by the Department of Natural Resources.

PURGE WATER, WASTE AND SOIL PILE REMOVAL

Any remaining purge water, waste and/or soil piles generated as part of site investigation or remediation activities must be removed from the site and disposed of or treated in accordance with Department of Natural Resources' rules. Please send a letter advising me that any remaining purge water, waste and/or soil piles have been removed once that work is completed.

RIGHT-OF-WAY SOIL AND/OR GROUNDWATER CONTAMINATION

There is residual soil and/or groundwater contamination in a public street or highway right-of-way at this site. Section NR 726.05(2)(a)4, Wis. Adm. Code, requires you to provide written notification of the presence of residual soil (and groundwater contamination, if present) to the clerk of the town and county or municipality where the right-of-way is located and to the municipal department or state agency that maintains the right-of-way. Section NR 726.05(2)(b)4, Wis. Adm. Code, requires you to also provide written notice of the presence of residual groundwater contamination to the owner of any properties that

you do not own within this site that do not have soil contamination if they are affected by groundwater contamination. These notifications must include warnings that excavation of potentially contaminated soil or groundwater may pose inhalation or other direct contact hazards and will require soil and groundwater sampling and analysis, as well as proper storage, treatment, or disposal of any excavated materials, based upon the results of the analysis. Please provide me with a copy of any written notifications that have been sent for Birchwood Road, Mill Avenue and Fox Valley & Western Railroad.

The committee recommends that the small quantity of soil that exceeds direct contact standards (SB-11 with benzene at 2,200 parts per billion from 2.5 to 4.5 feet below ground surface) under NR746 should maintain its current surface cover. In addition, the committee also recommends that an offsource soil contamination letter be sent to the Nye residence for soil boring GP-20 with benzene at 472 ppb.

When the above conditions have been satisfied, please submit a letter to let me know that applicable conditions have been met, and your case will be closed. Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the GIS Registry. To review the site on the GIS Registry web page, visit http://maps.dnr.state.wi.us/brrts.

Recent groundwater monitoring data at this site indicates exceedances of the NR 140 preventive action limit (PAL) for 1,2 DCA at MW-6 and, but compliance with the NR 140 enforcement standard. The Department may grant an exemption to a PAL for a substance of public health concern, other than nitrate, pursuant to s. NR 140.28(2)(b), Wis. Adm. Code, if all of the following criteria are met:

1. The measured or anticipated increase in the concentration of the substance will be minimized to the extent technically and economically feasible.

2. Compliance with the PAL is either not technically or economically feasible.

3. The enforcement standard for the substance will not be attained or exceeded at the point of standards application.

4. Any existing or projected increase in the concentration of the substance above the background concentration does not present a threat to public health or welfare.

Based on the information you provided, the Department believes that the above criteria have been or will be met because of the excavation activities that have taken place at the site and groundwater monitoring has proven a stable or decreasing contamination trend. Therefore, pursuant to s. NR 140.28(2)(b), Wis. Adm. Code, an exemption to the PAL is granted for 1,2 DCA at MW-6. This letter serves as your exemption.

If this is a PECFA site, section 101.143, Wis. Stats., requires that PECFA claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at (920) 662-5420.

Sincerely,

Keld Lauridsen
Hydrogeologist
Remediation & Redevelopment Program

cc: Bill Phelps, DG/2 (electronic copy)
Bhuvanesh Singh, K. Singh & Associates, Inc.
1135 Legion Drive, Elm Grove, WI 53122
Greenen Residence, 508 Birchwood Road, Francis Creek, WI 54214

Sent Greenen a map & table of SUL (MW-6)
6/13/05

Vol. 481
Page 386

SL #60870
Francis Creek, Wis.

To be used in Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Wisconsin and Wyoming.

470764

This Indenture Witnesseth: That the grantor, THE AMERICAN OIL COMPANY, a corporation organized and existing under and by virtue of the laws of the State of Maryland, for and in consideration of the sum of TEN AND NO/100 DOLLARS----------($ 10.00), to it in hand paid, conveys and ~~warrants~~ quit claims to Manitowoc Farmco Cooperative, a Wisconsin corporation, with its principal office in the Village of Francis Creek, of the County of Manitowoc and State of Wisconsin, the following described real estate, situated in the County of Manitowoc and State of Wisconsin to-wit: A tract of land in the South West One-quarter (¼) of the South West One-quarter (¼) of Section Fourteen (14) Township (20), North, Range Twenty-three(23) East, bounded and described as follows, to-wit: Commencing at the North West corner of said South West ¼ of the South West ¼ of Section 14; thence South 0°22'30" East along the section line a distance of 537.00 feet, to the center line of County Trunk Highway "V"; thence North 87°19'30" East along said center line of the highway; a distance of 1334.60 feet ; thence North 62°4'30" East along said center line of the highway, a distance of 10.05 feet to a line drawn parallel with and 200 feet southwesterly, measured at right angles from the center line of the main track of the Chicago and North Western Railway Company, as said main track is now located and established; thence North 34°49'30" West parallel with said center line of the main track, a distance of 24.52 feet to an iron pin, thence continuing North 34°49'30" West along the said right of way a distance of 450 feet to the point of real beginning; thence continuing North 34°49'30" West along said parallel line a distance of 115 feet; thence North 55°10'30" East a distance of 139 feet; thence South 34°49'30" East a distance of 115 feet; thence South 55°10'30" West a distance of 139 feet to the point of real beginning.

Subject to the reservations and conditions contained in that certain deed from Chicago and North Western Railway Company to grantor herein, dated April 10, 1962 as recorded in Deed Record 325, at Page 447 of the Manitowoc County Records.

TRANSFER FEE $1.50

Subject to taxes and special assessments, if any, against the said premises; also subject to zoning laws and municipal regulations, if any; building line restrictions and building restrictions of record, if any; and to any party wall agreements of record, existing leases, easements, sidetrack and license agreements if any.

The grantee herein hereby covenant s and agree s for it self, its ~~heirs, executors, administrators~~, grantees, successors and assigns, that no part of the real estate herein conveyed shall be used by said grantee, ~~heirs, executors, administrators, grantees, successors or assigns~~, for the purpose of conducting or carrying on the business of selling, handling or dealing in gasoline, kerosene, benzol, naphtha, greases, lubricating oils, or any fuel to be used for internal combustion engines, or lubricants in any form. This covenant shall run with the land and be binding on said grantee, its ~~heirs, executors, administrators~~, grantees, successors and assigns, and inure to the benefit of the grantor herein, its successors and assigns.

The foregoing restrictions shall not apply to the sale, handling or dealing in petroleum products furnished by the grantor herein and in any event shall terminate and be of no further force and effect -25- years from the date hereof.

In Witness Whereof, the said grantor has caused this instrument to be signed by its Regional Vice President, and its corporate seal to be hereto affixed and attested by its Assistant Secretary, all this 13th day of April, 1972

Signed, Sealed and Delivered in the presence of:

G. K. Gielow
G. K. Gielow

Faye Borth
Faye Borth

THE AMERICAN OIL COMPANY

By H. Rinkema
H. Rinkema, Regional Vice President

Attest: R. H. Markley
R. H. Markley, Assistant Secretary

RECEIVED FOR RECORD
1972 APR 26 PM 3 36
Robert B. Brandl
REGISTER OF DEEDS

Approved as to form

316-617

6

Form 2000.

Requisition No. P-374

DEED No. 69195

386061

This Indenture, Made the Twenty-Eighth day of February, A. D. 1961 between the CHICAGO AND NORTH WESTERN RAILWAY COMPANY, a Wisconsin Corporation, party of the first part, and MANITOWOC FARMCO SERVICE COOPERATIVE, a Wisconsin corporation of Francis Creek, Wisconsin party of the second part,

WITNESSETH, That the said party of the first part, for and in consideration of the sum of THREE THOUSAND FIVE HUNDRED and No/100 ($3,500.00) Dollars in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged, has remised, released, conveyed and quit-claimed, and by these presents does remise, release, convey and quit-claim unto the said party of the second part its successors and assigns forever all interest which the said party of the first part has in and to the following described lot parcel of land situated, lying and being in the Village of Francis Creek, County of Manitowoc and State of Wisconsin and known and described as follows, to wit:

That part of the Chicago and North Western Railway Company's property situated in the Southwest Quarter (SW 1/4) of Section Fourteen (14), Township Twenty (20) North, Range Twenty-three (23) East, and described as follows, to wit:

Beginning at the intersection of a line drawn parallel with and Two Hundred (200) feet Southwesterly as measured perpendicularly from the center line of the Chicago and North Western Railway Company's (formerly the Manitowoc, Green Bay and North Western Railway Company) main track with the northerly line of County Trunk Highway "V" as said Highway is now located and established; thence Northwesterly parallel with said center line a distance of Four Hundred Fifty (450) feet; thence Northeasterly perpendicular to the last described line a distance of One Hundred Thirty-nine (139) feet, more or less, to a point Sixty-one (61) feet Southwesterly as measured perpendicularly from said center line of the main track; thence Southeasterly parallel with said center line of the main track a distance of Four Hundred Thirty-five (435) feet, more or less, to said Northerly line of County Trunk Highway "V"; thence Southwesterly along said County Trunk Highway "V" a distance of One Hundred Forty (140) feet, more or less, to the point of beginning.

Excepting and reserving, however, unto the party of the first part, its successors and assigns forever, the ownership of all the coal, oil, gas, casinghead gas, and all minerals of every kind and nature, in, on or under the surface of the land hereinabove described, together with the full right and license, at any and all times, to remove and market all such products.

Excepting and reserving to the party of the first part, its successors and assigns, and those whom it may elect, the right in common with the party of the second part, its successors and assigns, to use for driveway purposes the Southwesterly Eighteen (18) feet of the Southeasterly Two Hundred (200) feet and the Southwesterly Thirty-nine (39) feet of the Southwesterly Two Hundred Fifty (250) feet of said premises.

TO HAVE AND TO HOLD the same together with all and singular the appurtenances and privileges thereunto belonging, or in any wise thereunto appertaining, as to all estate, right, title, interest and claim whatever of the said party of the first part, either in law or equity, to the only proper use, benefit and behoof of the said party of the second part its successors and assigns forever.

SIGNED, SEALED AND DELIVERED IN PRESENCE OF:

PAUL F. MONGAN

VINCENT J. LUISI

IN TESTIMONY WHEREOF, the said CHICAGO AND NORTH WESTERN RAILWAY COMPANY has hereunto caused its corporate seal to be affixed, and this instrument to be signed by its President, and attested by its Secretary the day and year first hereinabove written.

CHICAGO AND NORTH WESTERN RAILWAY COMPANY,

By C. J. FITZPATRICK President

Attest: E. A. VIK Secretary

Approved C. S. ANDERSON Land Commissioner

STATE OF ILLINOIS }
COUNTY OF COOK } ss.

I, Irene E. Paulson, a Notary Public duly commissioned and qualified in and for the County and State aforesaid, do hereby certify that C. J. FITZPATRICK and R. A. YEE to me personally known and known to me to be, respectively, President and Secretary of Chicago and North Western Railway Company, a Wisconsin corporation, and the identical persons whose names are subscribed to the foregoing instrument, appeared before me this day in person, and being first duly sworn by me, severally acknowledged to me that they are, respectively, President and Secretary of said corporation; that as such officers they signed, sealed and delivered said instrument, in behalf of said corporation by authority and order of its Board of Directors, as the free and voluntary act and deed of said corporation, and as their own free and voluntary act; that the seal affixed to said instrument is the seal of said corporation, and that said corporation executed said instrument for the uses and purposes herein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal as such Notary Public, at Chicago, Illinois, this 28th day of February A. D. 19 61.

My commission as such Notary Public expires October 5, 1963

NOTARY PUBLIC COOK COUNTY

RECEIVED FOR RECORD
1961 MAY 17 PM 2 58
JOS. M. ZAHORIK
REGISTER OF DEEDS

Irene E. Paulson
Notary Public, in and for the County of Cook, in the State of Illinois.
IRENE E. PAULSON

1961 MAY 17 PM 2 58
386061

QUIT-CLAIM DEED

Chicago and North Western Railway Company

TO

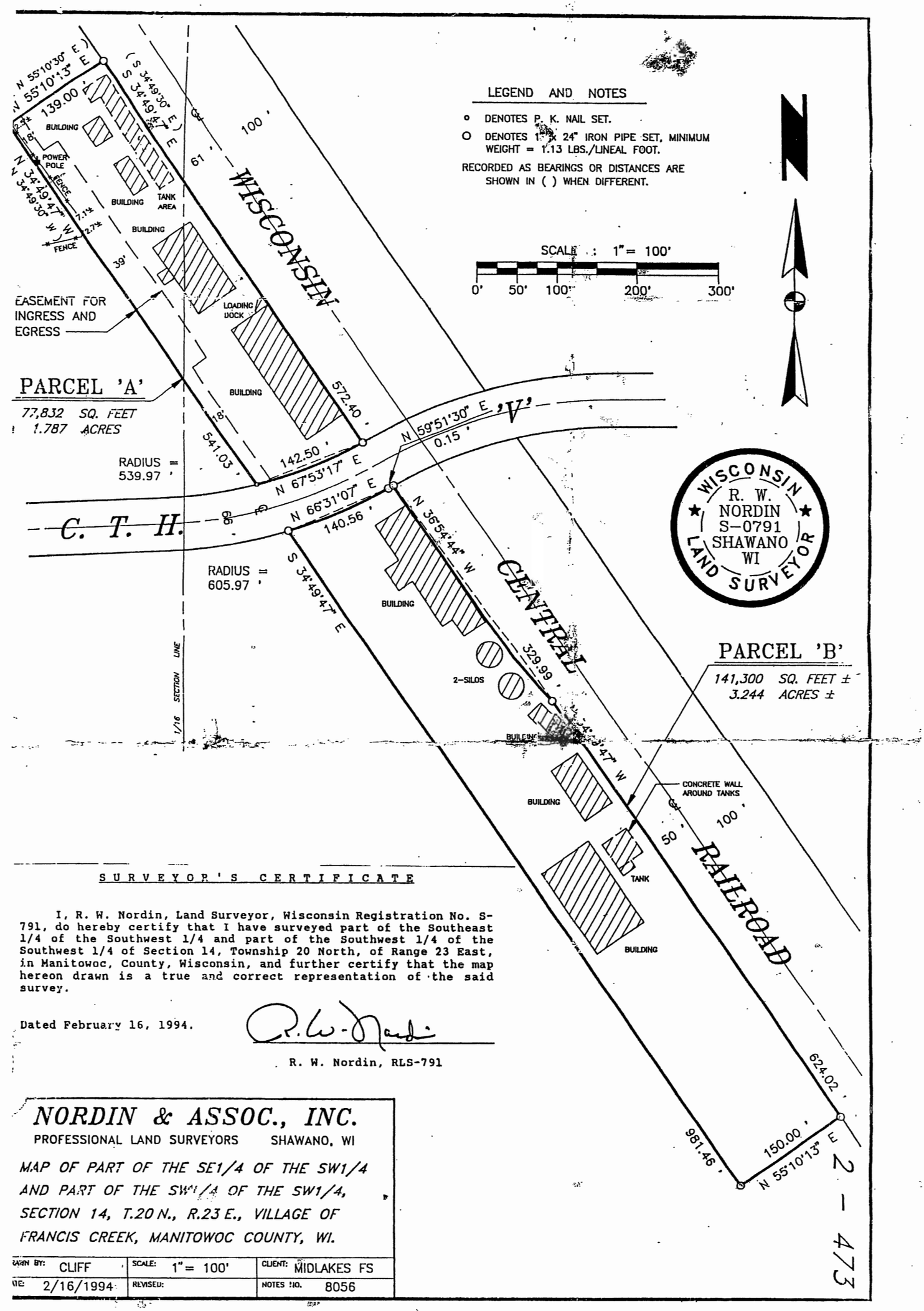
No.

State of Wisconsin }
County of Milwaukee } ss.

This instrument was filed for record in the Recorder's Office in and for said County, on the 17 day of MAY A. D. 1961 at 2 58 o'clock P. M. and recorded in Book of Deeds on Page

Jos. M. Zahorik
Recorder

John Vinson



SURVEYOR'S CERTIFICATE

I, R. W. Nordin, Land Surveyor, Wisconsin Registration No. S-791, do hereby certify that I have surveyed part of the Southeast 1/4 of the Southwest 1/4 and part of the Southwest 1/4 of the Southwest 1/4 of Section 14, Township 20 North, of Range 23 East, in Manitowoc, County, Wisconsin, and further certify that the map hereon drawn is a true and correct representation of the said survey.

Dated February 16, 1994.

R. W. Nordin, RLS-791

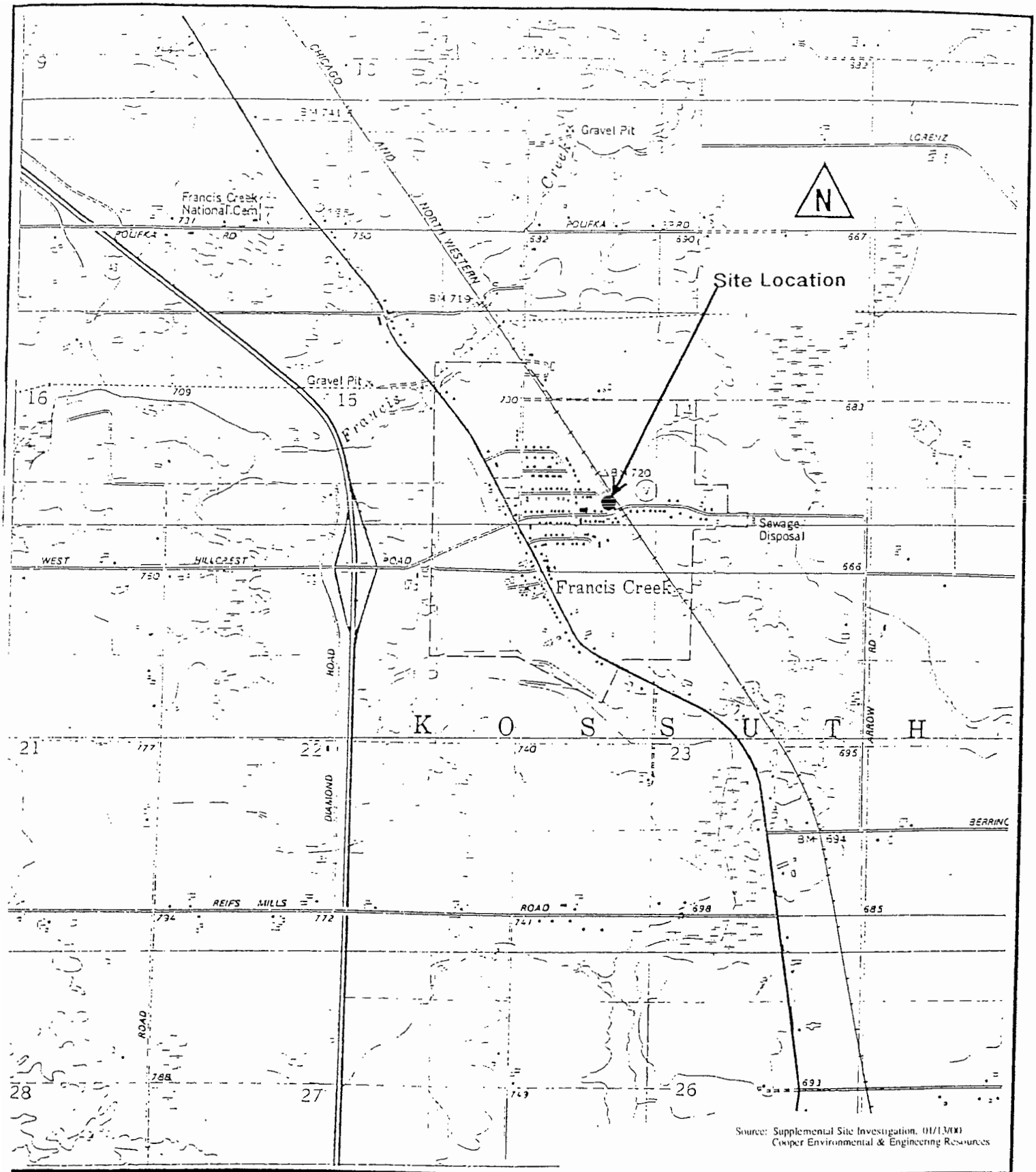
NORDIN & ASSOC., INC.

PROFESSIONAL LAND SURVEYORS SHAWANO, WI

MAP OF PART OF THE SE1/4 OF THE SW1/4 AND PART OF THE SW1/4 OF THE SW1/4, SECTION 14, T.20 N., R.23 E., VILLAGE OF FRANCIS CREEK, MANITOWOC COUNTY, WI.

DRAWN BY: CLIFF	SCALE: 1" = 100'	CLIENT: MIDLAKES FS
DATE: 2/16/1994	REVISED:	NOTES NO. 8056

2 - 473



Source: Supplemental Site Investigation, 01/13/00
Cooper Environmental & Engineering Resources

Figure 1

SITE LOCATION

Mid-Lakes FS Co-op

600 Forest Home Drive

Francis Creek, WI

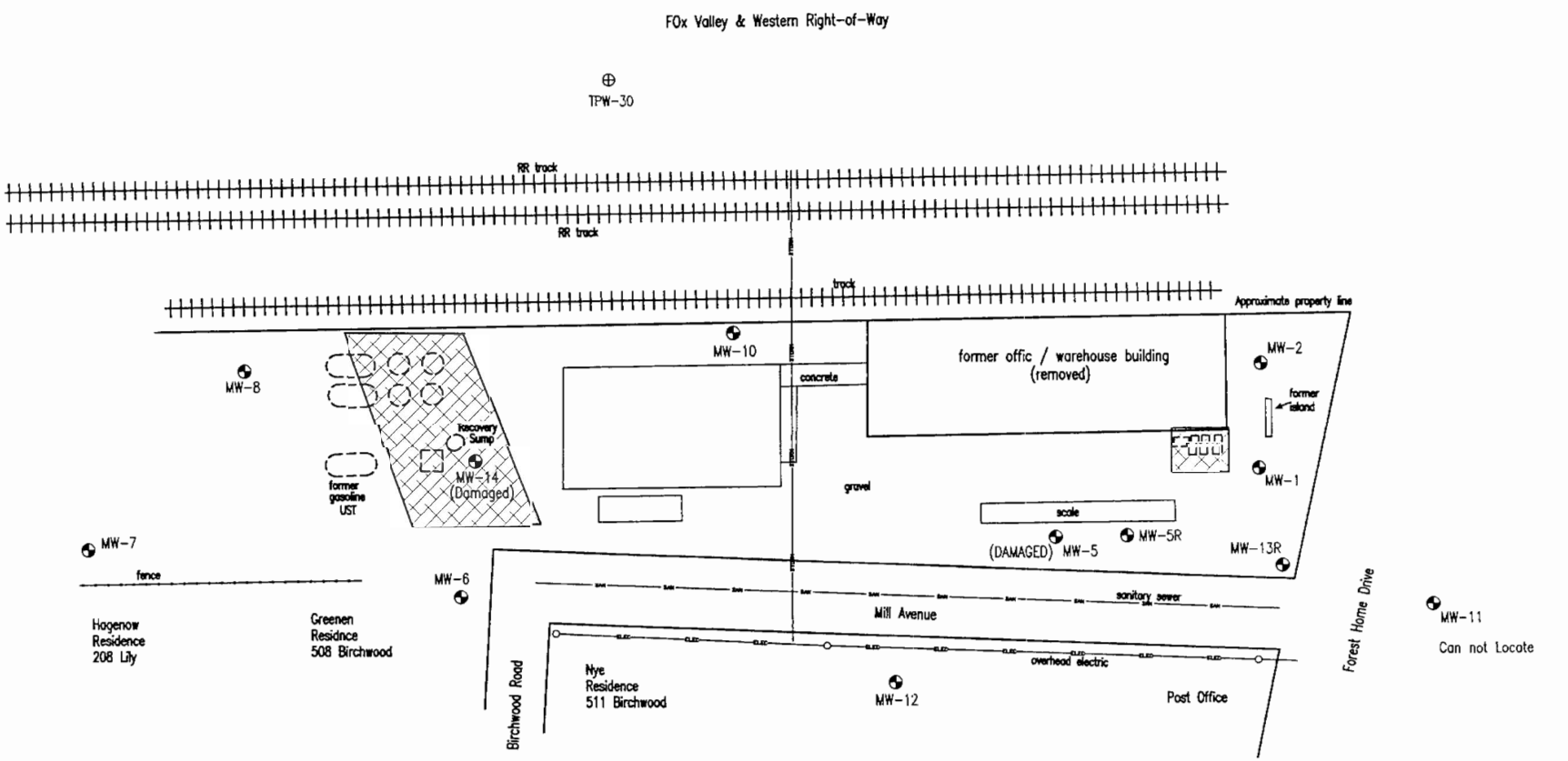
QUADRANGLE LOCATION

source: USGS 7.5' Quadrangle: (Mishicot, WI: 1978)

K. SINGH & ASSOCIATES, INC.

Engineers & Environmental Management Consultants

1135 Legion Drive, Elm Grove, Wisconsin 53122



SCALE: 1" = 50'-0"

0 10' 25' 50' 100'

LEGEND

⊕ Temporary Geoprobe Monitoring Well

◐ Monitoring Well Location

Area of Remedial Excavation

1	PROJECT: Mid-Lakes FS Co-op 600 Forest Home Drive _____ Creek, WI 54214	TITLE: FIGURE : MONITORING WELL LOCATION MAP	ENGINEER K. SINGH & ASSOCIATES, INC. *Engineers, Scientists and Environmental Management Consultants* 1135 Legion Drive Elm Grove, Wisconsin 53122 Phone: (262) 821-1171 FAX: (262) 821-1174E-mail: singh@execpc.com

DRAWN BY:	J.B.M.
CHECKED BY:	B.S.
DATE:	01/24/05
PROJECT NO:	4441
DRAWING FILE:	4441.dwg

Table 2
Summary of Groundwater Quality Test Results
Mid-Lakes FS Co-op
Francis Creek, WI

Well No.	Date	Consultant	Benzene	1,2-Dichloroethane	Ethylbenzene	MTBE	Naphthalene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes	Dissolved Lead
			(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
MW-01	09/06/95	Cooper	**2,200**	<25	320	56	**210**	720	310	65	**890**	<2
	04/11/96	Cooper	**1,000**	NT	300	**81**	NT	75	280	76	374	NT
	10/23/96	Cooper	**690**	<5	250	**75**	**78**	6.9	240	49	177	NT
	11/10/00	KSA	**159**	NT	131	8.73	**417**	14.1	134	60	215	NT
	03/22/01	KSA	**27.2**	NT	42.1	9.84	26.3	0.815	59.2	9.51	58.1	NT
	07/07/01	KSA	**28.4**	NT	5.5	7.53	29.9	<0.5	7.55	2.57	3.77	NT
	10/03/01	KSA	**9.62**	NT	11.6	19.3	7.51	<0.5	6.25	<1	1.21	NT
	02/14/02	KSA	Not sampled. Dry									
MW-02	09/06/95	Cooper	**270**	<5	82	<5	**120**	200	120	30	320	<2
	Duplicate	Cooper	**380**	<5	80	<5	**120**	180	120	30	310	<2
	04/11/96	Cooper	**310**	NT	160	14	NT	430	210	52	**640**	NT
	10/23/96	Cooper	**110**	<1	72	<1	**40**	22	29	5	54	NT
	11/10/00	KSA	**11.4**	NT	34.5	<0.5	30.5	4.78	31.3	8.47	47.7	NT
	03/22/01	KSA	3.46	NT	28	1.95	**43.7**	1.81	50.6	13.9	54.3	NT
	07/07/01	KSA	**14.5**	NT	127	9.76	**54.8**	3.01	141	19.4	136	NT
	10/03/01	KSA	4.47	NT	69.4	<0.2	**44.9**	2.46	87.8	18.6	97.2	NT
	02/14/02	KSA	4.54	NT	<0.5	2.02	34	1.42	52.1	21.4	67.8	NT
	10/18/2002	KSA	**5.69**	ND	63.9	ND	35.7	7.68	74.3	14.2	85.1	NT
	9/2/2004	KSA	**5.11**	NT	44.1	0.68	17.2	<5	18.8	<5	20.3	NT
MW-03	MW-03 removed during interim soil remediation: 10/25/00											
	Never sampled due to presence of free product											
MW-04	MW-04 removed during interim soil remediation: 10/23/00											
	Never sampled due to presence of free product											
MW-05	04/11/96	Cooper	**360**	26	<5	**110**	<5	<5	7	<5	8.6	NT
	10/23/96	Cooper	**1,100**	**90**	<10	**290**	<10	<10	<10	<10	<10	NT
	11/10/00	KSA	**1,020**	**31.4**	<0.5	28	<2	<0.5	<1	<1	<0.5	NT
	03/22/01	KSA	**760**	**21.8**	<0.5	29.2	<2	<0.5	<1	<1	<0.5	NT
	07/07/01	KSA	2.16	<0.5	<0.5	0.517	<2	<0.5	<1	<1	<0.5	NT
	10/03/01	KSA	<0.5	<0.5	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	02/14/02	KSA	**123**	<0.5	<0.5	5.14	<2	<0.5	<1	<1	<0.5	NT
	10/18/02	KSA	**3,770**	<0.5	<0.5	48.4	<2	<0.5	<1	<1	1.19	NT
MW-5R	11/12/03	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	09/02/04	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
MW-06	04/11/96	Cooper	2.7	<1	<1	2.1	<1	<1	<1	<1	<1	NT
	10/23/96	Cooper	<1	**5.7**	<1	5.5	<1	<1	<1	<1	<1	NT
	11/10/00	KSA	<0.5	<0.5	<0.5	1.37	<2	<0.5	<1	<1	<0.5	NT
	03/22/01	KSA	<0.5	<0.5	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	07/07/01	KSA	<0.5	0.891	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	10/03/01	KSA	<0.5	0.828	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	02/14/02	KSA	<0.5	<0.5	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	10/18/02	KSA	<0.5	2.43	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	11/12/03	KSA	<0.5	NT	<0.5	0.26	<2	<0.5	<1	<1	<0.5	NT
	09/02/04	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
MW-07	04/11/96	Cooper	<0.6	<1	<1	<1	<1	<1	<1	<1	<1	NT
	10/23/96	Cooper	<0.6	<1	<1	2.9	1.9	1.3	1.2	<1	4.1	NT
	11/10/00	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	0.877	NT
	03/22/01	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	0.525	NT
	07/07/01	KSA	<0.5	NT	<0.5	<.2	<2	<0.5	<1	<1	<0.5	NT
MW-08	04/11/96	Cooper	77	<1	93	3.6	**48**	190	140	47	267	NT
	10/23/96	Cooper	**140**	**5.8**	38	**170**	34	4.2	60	47	53	NT
	11/10/00	KSA	**634**	4.8	94	25.3	**63.3**	10.4	214	59.5	220	NT
	03/22/01	KSA	**10**	<2.5	101	<1	**73.5**	2.87	401	107	13.5	NT
	07/07/01	KSA	**132**	<0.5	40.5	<0.2	4.79	1.13	23.5	3.62	38.8	NT
	10/03/01	KSA	**36.8**	<0.5	7.5	0.706	3.09	1.55	6.73	1.81	13.5	NT
	02/14/02	KSA	**1310**	<10	351	42.4	**245**	48.4	508	133	612	NT
	10/18/02	KSA	**768**	<0.5	102	42.2	**68**	21	310	101	152	NT
	11/12/2003	KSA	**1850**	NT	566	<20	**4080**	121	**2250**	**1020**	952	NT
	9/2/2004	KSA	**542**	NT	242	<10.2	**99.7**	<100	160	<100	471	NT
NR 140 Enforcement Standard			5	5	700	60	40	1,000	480		10,000	15
NR 140 Preventative Action Limit			0.5	0.5	140	12	8	200	96		1,000	1.5

Table 2
Summary of Groundwater Quality Test Results
Mid-Lakes FS Co-op
Francis Creek, WI

Well No.	Date	Consultant	Benzene	1,2-Dichloroethane	Ethylbenzene	MTBE	Naphthalene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylene	Dissolved Lead
			(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
MW-09	04/11/96	Cooper	**19,000**	**520**	**1,800**	<100	**510**	**10,000**	**1,200**	**330**	**7,500**	NT
	Duplicate	Cooper	**19,000**	**520**	**1,900**	<100	**610**	**11,000**	**1,300**	**370**	**7,800**	NT
	MW-09 removed during interim soil remediation: 10/23 Recovery sump installed in approximately same location as MW-09 on 10/26/00											
Recovery Sump	11/10/00	KSA	**1,790**	**107**	254	**517**	<20	380	275	77.8	**1,160**	NT
	03/22/01	KSA	**1,910**	**293**	167	**1610**	<100	51.5	112	<50	382	NT
	07/07/01	KSA	**2,250**	**49.4**	38.2	**1480**	<2	<0.5	31.1	1.83	43.8	NT
	10/03/01	KSA	**1,920**	**129**	183	**331**	37.7	56.3	54.6	<10	66.1	NT
	02/14/02	KSA	**1,480**	**399**	87.5	**524**	52.8	56.9	131	12.8	292	NT
	10/18/2002	KSA	Unable to Sample Debris in Sump									
MW-10	04/11/96	Cooper	<0.6	<1	1.4	<1	**49**	<1	140	52	63	NT
	10/23/96	Cooper	<0.6	<1	<1	<1	1.9	<1	6.1	5.1	5.5	NT
	Duplicate	Cooper	<0.6	<1	<1	<1	1.4	<1	6	5.2	6	NT
	11/10/00	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	07/07/01	KSA	<0.5	NT	<0.5	<.2	<2	<0.5	<1	<1	0.748	NT
MW-11	10/23/96	Cooper	<0.6	<1	<1	1.7	<1	1.3	<1	<1	<1	NT
	11/10/00	Could not locate MW-11										
MW-12	10/23/96	Cooper	<0.6	<1	<1	<1	<1	<1	<1	<1	<1	NT
	11/10/00	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	03/22/01	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	07/07/01	KSA	<0.5	NT	<0.5	<.2	<2	<0.5	<1	<1	<0.5	NT
MW-13R	07/07/01	KSA	**10.3**	NT	16.2	10.3	**51.4**	0.541	47.6	20	22.7	NT
	10/03/01	KSA	<0.5	NT	<0.5	2.99	<2	<0.5	<1	<1	<0.5	NT
	02/14/02	KSA	<0.5	<0.5	<0.5	0.52	<2	<0.5	<1	<1	<0.5	NT
	10/18/2002	KSA	<0.5	<0.5	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	2/13/2002	KSA	3.32	NT	1.65	<8	<5	<5	<5	<5	<5	NT
MW-14	11/12/2003	KSA	Dry - not sampled									
	9/2/2004	KSA	**81.1**	NT	25.6	4.88	16.33	<5	32.9	<5	11.4	NT
TPW-30	12/09/99	Cooper	0.13	NT	<0.22	<0.16	NT	1.3	0.43	<0.29	0.63	NT
Geenen Residence 508 Birchwood	11/10/00	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
Ney Residence 511 Birchwood	11/10/00	KSA	<0.5	NT	<0.5	0.502	<2	<0.5	<1	<1	<0.5	NT
	01/07/01	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
Hagenow Residence 208 Lilac	11/10/00	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
U.S. Post Office Well 516 Forest Home Drive	03/22/01	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	02/14/02	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
NR 140 Enforcement Standard			5	5	700	60	40	1,000	480		10,000	15
NR 140 Preventative Action Limit			0.5	0.5	140	12	8	200	96		1,000	1.5

Notes:
NT - Not Tested
Cooper - Cooper Environmental & Engineering Resources, Inc.
KSA - K. Singh & Associates, Inc.

Bold values indicate exceedance of NR 140 ES

Table 1
Summary of Soil Quality Test Results
Mid-Lakes FS Co-op
Francis Creek, WI

Test Description	AST Bottom	East SW #1	North Wall #1	South Wall #1	North Wall #2
Sampling Date	10/24/00	10/24/00	10/25/00	10/25/00	10/25/00
Sample Depth (feet)	20	5	7	3	5
PID Reading (Instrument Units)	15	60	88	94	96
Physical Soil Parameters					
Dry Weight Determination (%)	83.8	83.7	84.2	83.4	84.1
Petroleum Volatile Organic Compounds (PVOCs)					
Benzene (ug/kg)	<25	4,200	79,000	2,000	21,000
Ethylbenzene (ug/kg)	28	10,000	83,000	12,000	50,000
Methyl tert butyl ether (ug/mg)	<25	<250	<500	<250	<250
Toluene (ug/kg)	<25	1,400	280,000	3,000	130,000
1,2,4- trimethylbenzene (ug/kg)	120	41,000	190,000	65,000	130,000
1,3,5-trimethylbenzene (ug/kg)	47	18,000	58,000	27,000	37,000
Xylenes (ug/kg)	110	43,000	380,000	65,000	270,000
Polynuclear Aromatic Hydrocarbons (PAH)					
Acenaphthene (ug/kg)	<21	2,400	----	----	----
Acenaphthylene (ug/kg)	<24	<480	----	----	----
Anthracene (ug/kg)	<36	1,700	----	----	----
Benz (a) anthracene (ug/kg)	<23	<460	----	----	----
Benzo (a) pyrene (ug/kg)	<34	<680	----	----	----
Benzo (b) fluoranthene (ug/kg)	<46	<920	----	----	----
Benzo (ghi) perylene (ug/kg)	<29	<580	----	----	----
Benzo (k) fluoranthene (ug/kg)	<48	<1000	----	----	----
Chrysene (ug/kg)	<42	<840	----	----	----
Dibenz (a,h) anthracene (ug/kg)	<18	<360	----	----	----
Fluoranthene (ug/kg)	<38	<760	----	----	----
Fluorene (ug/kg)	<47	6,100	----	----	----
Indeno (1,2,3-cd) pyrene (ug/kg)	<18	<360	----	----	----
1-Methylnaphthalene (ug/kg)	50	47,000	----	----	----
2-Methylnaphthalene (ug/kg)	94	74,000	----	----	----
Naphthalene (ug/kg)	91	17,000	----	----	----
Phenanthrene (ug/kg)	<35	14,000	----	----	----
Pyrene (ug/kg)	<45	<900	----	----	----
Diesel Range Organics (DRO)					
DRO (mg/kg)	<10	9,600	3,100	5,300	2,500
Gasoline Range Organics (GRO)					
GRO (mg/kg)	<10	1700	3,900	2100	2400

Table 1
Summary of Soil Quality Test Results
Mid-Lakes FS Co-op
Francis Creek, WI

Test Description	South Wall #2	North Wall #3	South Wall #3	Field Blank	Trip Blank
Sampling Date	10/25/00	10/25/00	10/25/00	10/25/00	10/25/00
Sample Depth (feet)	11	9	2	----	----
PID Reading (Instrument Units)	76	92	78	----	----
Physical Soil Parameters					
Dry Weight Determination (%)	78.8	88.3	78.3	----	----
Petroleum Volatile Organic Compounds (PVOCs)					
Benzene (ug/kg)	1,300	310	2,000	<25	<25
Ethylbenzene (ug/kg)	2,300	2,600	6,000	<25	<25
Methyl tert butyl ether (ug/mg)	<25	<25	<250	<25	<25
Toluene (ug/kg)	420	560	1,800	<25	<25
1,2,4- trimethylbenzene (ug/kg)	7,300	13,000	17,000	<25	<25
1,3,5-trimethylbenzene (ug/kg)	2,300	4,600	6,400	<25	<25
Xylenes (ug/kg)	10,000	7,300	25,000	<75	<75
Diesel Range Organics (DRO)					
DRO (mg/kg)	89	610	310	----	----
Gasoline Range Organics (GRO)					
GRO (mg/kg)	160	330	570	<10	<10

Test Description	AST Bottom II	Field Blank	North UST	South UST	West UST
Sampling Date	10/26/00	10/26/00	10/25/00	10/25/00	10/25/00
Sample Depth (feet)	20	----	11	5	9
PID Reading (Instrument Units)	10	----	9	92	36
Physical Soil Parameters					
Dry Weight Determination (%)	81.6	----	79.4	80.3	83.4
Petroleum Volatile Organic Compounds (PVOCs)					
Benzene (ug/kg)	<25	<25	<25	2,900	6,100
Ethylbenzene (ug/kg)	<25	<25	<25	42,000	45,000
Methyl tert butyl ether (ug/mg)	<25	<25	<25	<500	<250
Toluene (ug/kg)	<25	<25	<25	23,000	6,700
1,2,4- trimethylbenzene (ug/kg)	<25	<25	<25	120,000	230,000
1,3,5-trimethylbenzene (ug/kg)	<25	<25	<25	37,000	78,000
Xylenes (ug/kg)	<75	<75	<75	240,000	140,000
Diesel Range Organics (DRO)					
DRO (mg/kg)	<10	----	----	----	----
Gasoline Range Organics (GRO)					
GRO (mg/kg)	<10	<10	<10	2,000	7,300

Table 4-3
Soil Sample Analytical Results
PVOCs, GRO, DRO and Total Lead
Mid-Lakes FS Coop
Francis Creek, Wisconsin

Soil Boring I.D.	Sample I.D.	Date Collected	Depth (feet *bgs)	OVM Readings (i.u.,ppm)	PVOCs (ug/kg) EPA Method 8020									WDNR Modified		Total Lead EPA 7421 (mg/kg)
					Benzene	Ethyl-benzene	MTBE	Toluene	1,2,4-TMB	1,3,5-TMB	p,m-Xylene	o-Xylene	Total PVOCs	GRO (mg/kg)	DRO (mg/kg)	
SB01	MLFC/PSI-SB01-6.0	8/29/95	2.5-4.5 5.0-7.0 7.5-9.5 10.0-12.0	0.0 0.5 12.3 3.9	ND (<25)	ND (<25)	ND (<25)	ND (<25)	ND (<25)	ND (<25)	ND (<25)	ND (<25)	ND	ND (<2.9)	ND (<3.8)	4.4
SB02	MLFC/PSI-SB02-3.0 MLFC/PSI-SB02-6.0	8/29/95 8/29/95	2.5-4.5 5.0-7.0	12.5 149.8	ND (<25) 95	ND (<25) 390	ND (<25) ND (<50)	ND (<25) ND (<50)	ND (<25) 950	ND (<25) 810	ND (<25) 500	ND (<25) 140	ND 2,885	ND (<3.0) **180**	ND (<3.9) **220**	5.6 7.0
SB03	MLFC/PSI-SB03-8.0	8/30/95	2.5-4.5 5.0-7.0 7.5-9.5 10.0-12.0 12.5-14.5	0.0 0.0 0.0 0.0 1.3	ND (<25)	ND (<25)	ND (<25)	ND (<25)	ND (<25)	ND (<25)	ND (<25)	ND (<25)	ND	ND (<3.0)	ND (<4.0)	7.2
SB04	MLFC/PSI-SB04-3.0 MLFC/PSI-SB04-6.0	8/29/95 8/29/95	2.5-4.5 5.0-7.0 12.5-14.5	10.2 158.9 194	ND (<25) ND (<100)	ND (<25) 170	ND (<25) ND (<100)	ND (<25) ND (<100)	ND (<25) 1,100	ND (<25) 940	ND (<25) 430	ND (<25) 180	ND 2,820	ND (<2.8) **160**	ND (<3.9) **620**	6.5 6.3
SB05	MLFC/PSI-SB05-6.0	8/29/95	2.5-4.5 5.0-7.0 7.5-9.5 7.5-9.5	0.0 0.0 0.0 0.0	ND (<25)	ND (<25)	ND (<25)	ND (<25)	ND (<25)	ND (<25)	ND (<25)	ND (<25)	ND	ND (<3.0)	ND (<4.2)	6.0
SB06	MLFC/PSI-SB06-8.0	8/29/95	5.0-7.0 7.5-9.5	191 206	**920**	790	140	1,400	4,800	1,900	2,700	1,200	13,850	**200**	**530**	7.5 8.0
NR720.09 Generic Residual Contaminant Level					5.5	2,900	NG	1,500	NG	NG	4,100**	4,100**	NG	100***		50//500
NR720.19 Site Specific Residual Contaminant Level					13	4,183	173	1,899	NG	NG	3,627	3,627	NG	100***		50//500

Notes:

OVM = Organic Vapor Monitor
PVOCs = Petroleum volatile organic compounds
ug/kg = micrograms per kilogram or parts per billion
*bgs = below ground surface
i.u., ppm = instrument units, parts per million
MTBE = Methyl-tertiary-butylether
1,2,4-TMB = 1,2,4-Trimethylbenzene
1,3,5-TMB = 1,3,5-Trimethylbenzene

GRO = Gasoline Range Organics
DRO = Diesel Range Organics
mg/kg = milligrams per kilogram or parts per million
ND (<25) = Not detected above laboratory detection limits (detection limit in parentheses)
NG = No NR720 Residual Contaminant Level Established
** = NR720 Residual Contaminant Level for Total Xylenes
BOLD = Indicates exceedance of NR720 Residual Contaminant Level
*** = 100 mg/kg for permeabilities greater than 10-6 cm/sec; 250 mg/kg for permeabilities less than or equal to 10-6 cm/sec.

Table 4-3 (continued)
Soil Sample Analytical Results
PVOCs, GRO, DRO and Total Lead
Mid-Lakes FS Coop
Francis Creek, Wisconsin

Soil Boring I.D.	Sample I.D.	Date Collected	Depth (feet *bgs)	OVM Readings (i.u.,ppm)	PVOCs (ug/kg) EPA Method 8020									WDNR Modified		Total Lead
					Benzene	Ethyl-benzene	MTBE	Toluene	1,2,4-TMB	1,3,5-TMB	p,m-Xylene	o-Xylene	Total PVOC	GRO (mg/kg)	DRO (mg/kg)	EPA 7421 (mg/kg)
SB07			2.5-4.5	205.6												
	MLFC/PSI-SB07-6.0	8/30/95	5.0-7.0	266	1,100	5,100	ND (<500)	840	22,000	10,000	16,000	7,000	62,040	880	2,500	4.9
			7.5-9.5	143												
			10.0-12.0	181.4												
SB08			2.5-4.5	230												
	MLFC/PSI-SB08-6.0	8/30/95	5.0-7.0	241	58,000	57,000	7,700	230,000	110,000	36,000	190,000	74,000	762,700	2,600	670	3.8
SB09			2.5-4.5	179.9												
	MLFC/PSI-SB09-6.0	8/30/95	5.0-7.0	198.0	5,800	16,000	740	9,400	59,000	29,000	50,000	22,000	191,940	2,200	7,800	4.1
			7.5-9.5	217.0												
SB10			2.5-4.5	8.2												
	MLFC/PSI-SB10-6.0	8/30/95	5.0-7.0	18.6	ND (<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	4.1	5.2	5.5
			7.5-9.5	7.8												
	MLFC/PSI-SB10-11.0	8/30/95	10.0-12.0	8.0	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND (<3.0)	ND (<4.0)	4.8
SB11	MLFC/PSI-SB11-3.0	8/31/95	2.5-4.5	281	2,200	17,000	800	29,000	77,000	31,000	76,000	38,000	271,000	1,500	2,200	9.3
			5.0-7.0	220.2												
			7.5-9.5	264												
	MLFC/PSI-SB11-11.0	8/31/95	10.0-12.0	261	3,600	5,200	1,200	530	13,000	5,400	9,000	3,400	41,330	410	250	5.4
			12.5-14.5	157												
			15.0-17.0	289												
SB12			2.5-4.5	137												
	MLFC/PSI-SB12-6.0	8/31/95	5.0-7.0	168	ND(<100)	430	ND(<100)	230	2,100	2,400	1,200	260	6,620	380	2,800	3.8
			7.5-9.5	127												
	MLFC/PSI-SB11-11.0	8/31/95	10.0-12.0	14	ND(<25)	ND(<25)	ND(<25)	34	ND (<25)	ND(<25)	36	ND(<25)	70	ND(<2.9)	ND(<4.1)	3.9
			12.5-14.5	10.4												
			15.0-17.0	7												
NR720.09 Generic Residual Contaminant Level					5.5	2,900	NG	1,500	NG	NG	4,100**	4,100**	NG	100***		50//500
NR720.19 Site Specific Residual Contaminant Level					13	4,183	173	1,899	NG	NG	3,627	3,627	NG	100***		50//500

Notes:

OVM = Organic Vapor Monitor
PVOCs = Petroleum volatile organic compounds
ug/kg = micrograms per kilogram or parts per billion
*bgs = below ground surface
i.u., ppm = instrument units, parts per million
MTBE = Methyl-tertiary-butylether
1,2,4-TMB = 1,2,4-Trimethylbenzene
1,3,5-TMB = 1,3,5-Trimethylbenzene

GRO = Gasoline Range Organics
DRO = Diesel Range Organics
mg/kg = milligrams per kilogram or parts per million
ND (<25) = Not detected above laboratory detection limits (detection limit in parentheses)
NG = No NR720 Residual Contaminant Level Established
** = NR720 Residual Contaminant Level for Total Xylenes
BOLD = Indicates exceedance of NR720 Residual Contaminant Level
*** = 100 mg/kg for permeabilities greater than 10-6 cm/sec; 250 mg/kg for permeabilities less than or equal to 10-6 cm/sec.

Table 4-3 (continued)
Soil Sample Analytical Results
PVOCs, GRO, DRO and Total Lead
Mid-Lakes FS Coop
Francis Creek, Wisconsin

Soil Boring I.D.	Sample I.D.	Date Collected	Depth (feet *bgs)	OVM Readings (i.u.,ppm)	PVOCs (ug/kg) EPA Method 8020									WDNR Modified		Total Lead EPA 7421 (mg/kg)
					Benzene	Ethyl-benzene	MTBE	Toluene	1,2,4-TMB	1,3,5-TMB	p,m-Xylene	o-Xylene	Total PVOCs	GRO (mg/kg)	DRO (mg/kg)	
SB13			2.5-4.5	0.0												
	MLFC/PSI-SB13-6.0	8/31/95	5.0-7.0	0.0	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.0)	ND(<4.2)	ND(<3.8)
			7.5-9.5	0.0												
	MLFC/PSI-SB13-11.0	8/31/95	10.0-12.0	0.0	ND(<25)	ND(<25)	ND(<25)	33	ND(<25)	ND(<25)	41	ND(<25)	74	ND(<3.1)	ND(<4.1)	6.0
			12.5-14.5	0.1												
			15.0-17.0	0.3												
SB14			2.5-4.5	0.0												
	MLFC/PSI-SB14-6.0	8/31/95	5.0-7.0	0.0	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<2.9)	ND(<4.0)	6.1
			7.5-9.5	0.0												
	MLFC/PSI-SB14-11.0	8/31/95	10.0-12.0	0.0	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.0)	ND(<4.1)	4.2
			12.5-14.5	0.0												
			15.0-17.0	0.0												
SB15			2.5-4.5	278.0												
	MLFC/PSI-SB15-6.0	9/01/95	5.0-7.0	364.9	16,000	29,000	3,900	54,000	71,000	24,000	110,000	45,000	352,900	1,400	1,400	5.2
			7.5-9.5	163.4												
	MLFC/PSI-SB15-11.0	9/01/95	10.0-12.0	352.0	9,200	24,000	2,700	20,000	70,000	25,000	80,000	31,000	261,900	1,500	1,600	4.5
			12.5-14.5	92.8												
SB16			2.5-4.5	75.4												
			5.0-7.0	224.6												
	MLFC/PSI-SB16-8.0	9/01/95	7.5-9.5	275.4	500	390	120	140	4,500	2,700	2,600	1,000	11,950	210	660	7.2
	MLFC/PSI-SB16-11.0	9/01/95	10.0-12.0	287.4	430	53	ND(<25)	49	880	350	560	180	2,502	13	18	6.0
			12.5-14.5	101.2												
SB17			2.5-4.5	6.4												
	MLFC/PSI-SB17-6.0	9/01/95	5.0-7.0	275.0	ND(<100)	660	ND(<100)	ND(<100)	5,600	3,700	1,400	240	11,600	430	690	ND(<3.6)
			7.5-9.5	86												
	MLFC/PSI-SB17-11.0	9/01/95	10.0-12.0	73.9	ND(<25)	ND(<25)	ND(<25)	ND(<25)	170	110	ND(<25)	ND(<25)	280	40	150	6.2
SB18	MLFC/PSI-SB12-6.0	9/01/95	2.5-4.5	3.0	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<2.9)	ND(<3.8)	ND(<3.7)
			5.0-7.0	0.1												
			7.5-9.5	1.7												
	MLFC/PSI-SB11-11.0	9/01/95	10.0-12.0	0.1	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.1)	ND(<4.3)	7.1
			12.5-14.5	11.1												
			15.0-17.0	0.7												
NR720 Residual Contaminant Level					5.5	2,900	NG	1,500	NG	NG	4,100**	4,100**	NG	100***		50//500

Notes:

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ug/kg = micrograms per kilogram or parts per billion
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i.u., ppm = instrument units, parts per million
MTBE = Methyl-tertiary-butylether
1,2,4-TMB = 1,2,4-Trimethylbenzene
1,3,5-TMB = 1,3,5-Trimethylbenzene

GRO = Gasoline Range Organics
DRO = Diesel Range Organics
mg/kg = milligrams per kilogram or parts per million
ND (<25) = Not detected above laboratory detection limits (detection limit in parentheses)
NG = No NR720 Residual Contaminant Level Established
** = NR720 Residual Contaminant Level for Total Xylenes
BOLD = Indicates exceedance of NR720 Residual Contaminant Level
*** = 100 mg/kg for permeabilities greater than 10-6 cm/sec; 250 mg/kg for permeabilities less than or equal to 10-6 cm/sec.

Table 4-3 (continued)
Soil Sample Analytical Results
PVOCs, GRO, DRO and Total Lead
Mid-Lakes FS Coop
Francis Creek, Wisconsin

Soil Boring I.D.	Sample I.D.	Date Collected	Depth (feet *bgs)	OVM Readings (i.u.,ppm)	PVOCs (ug/kg) EPA Method 8020									WDNR Modified	
					Benzene	Ethyl-Benzene	MTBE	Toluene	1,2,4-TMB	1,3,5-TMB	p,m-Xylene	o-Xylene	Total PVOCs	GRO (mg/kg)	DRO (mg/kg)
GP01			2.0-4.0	508											
			4.0-6.0	497											
	MLFC/PSI-GP01-6'	03/18/96	6.0-8.0	560	6,700	6,600	260	1,900	15,000	5,200	21,000	8,200	64,860	450	100
			8.0-10.0	455											
	MLFC/PSI-GP01-10'	03/18/96	10.0-12.0	567	4,100	1,400	ND(<25)	930	2,300	720	3,400	1,500	14,350	46	12
			12.0-14.0	519											
			14.0-16.0	549											
			16.0-18.0	79											
			18.0-20.0	5.6											
			20.0-22.0	2.2											
GP02			2.0-4.0	409											
			4.0-6.0	422											
	MLFC/PSI-GP02-6'	03/18/96	6.0-8.0	557	7,300	3,000	ND(<500)	2,800	48,000	16,000	53,000	24,000	154,100	1,200	200
			8.0-10.0	484											
			10.0-12.0	339											
	MLFC/PSI-GP02-12'	03/18/96	12.0-14.0	79	3,900	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	3,900	5.0	ND(<4.0)
			14.0-16.0	62											
			16.0-18.0	170											
			18.0-20.0	82											
GP03			2.0-4.0	0.5											
			4.0-6.0	0.7											
	MLFC/PSI-GP03-6'	03/18/96	6.0-8.0	1.2	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<2.9)	ND(<3.9)
			8.0-10.0	0.0											
	MLFC/PSI-GP03-10'	03/18/96	10.0-12.0	1.2	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.1)	ND(<4.3)
			12.0-14.0	0.7											
			14.0-16.0	1.8											
			16.0-18.0	1.5											
			18.0-20.0	4.6											
GP04			2.0-4.0	1.2											
			4.0-6.0	109											
	MLFC/PSI-GP04-6'	03/18/96	6.0-8.0	97	ND(<250)	360	ND(<250)	ND(<250)	2,600	2,200	1,700	320	7,180	600	260
			8.0-10.0	68											
			10.0-12.0	58											
			12.0-14.0	29											
	MLFC/PSI-GP04-14'	03/18/96	14.0-16.0	1.0	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.1)	ND(<4.4)
			16.0-18.0	1.5											
GP05			2.0-4.0	0.0											
			4.0-6.0	6.1											
			6.0-8.0	73											
	MLFC/PSI-GP04-8'	03/18/96	8.0-10.0	117	ND(<200)	440	ND(<200)	ND(<200)	1,700	1,300	1,400	480	5,320	490	160
			10.0-12.0	20											
	MLFC/PSI-GP04-12'	03/18/96	12.0-14.0	193	ND(<200)	ND(<200)	ND(<200)	ND(<200)	15,000	5,600	2,700	2,500	25,800	740	330
			14.0-16.0	10.4											
			16.0-18.0	5.3											
NR720.09 Generic Residual Contaminant Level					5.5	2,900	NG	1,500	NG	NG	4,100**	4,100**	NG	100***	
NR720.19 Site Specific Residual Contaminant Level					13	4,183	173	1,899	NG	NG	3,627	3,627	NG	100***	

Notes:

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1,2,4-TMB = 1,2,4-Trimethylbenzene
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GRO = Gasoline Range Organics
DRO = Diesel Range Organics
mg/kg = milligrams per kilogram or parts per million
ND (<25) = Not detected above laboratory detection limits (detection limit in parentheses)
NG = No NR720 Residual Contaminant Level Established
** = NR720 Residual Contaminant Level for Total Xylenes
BOLD = Indicates exceedance of NR720 Residual Contaminant Level
*** = 100 mg/kg for permeabilities greater than 10-6 cm/sec; 250 mg/kg for permeabilities less than or equal to 10-6 cm/sec.

Table 4-3 (continued)
Soil Sample Analytical Results
PVOCs, GRO, DRO and Total Lead
Mid-Lakes FS Coop
Francis Creek, Wisconsin

Soil Boring I.D.	Sample I.D.	Date Collected	Depth (feet *bgs)	OVM Readings (i.u.,ppm)	PVOCs (ug/kg) EPA Method 8020									WDNR Modified	
					Benzene	Ethyl-Benzene	MTBE	Toluene	1,2,4-TMB	1,3,5-TMB	p,m-Xylene	o-Xylene	Total PVOCs	GRO (mg/kg)	DRO (mg/kg)
GP06			2.0-4.0	0.3											
			4.0-6.0	0.0											
			6.0-8.0	0.2											
	MLFC/PSI-GP06-8'	03/18/96	8.0-10.0	0.2	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<2.9)	ND(<3.7)
			10.0-12.0	0.2											
	MLFC/PSI-GP06-12'	03/18/96	12.0-14.0	0.3	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.3)	ND(<4.6)
			14.0-16.0	0.5											
			16.0-18.0	0.7											
GP07			2.0-4.0	0.5											
			4.0-6.0	0.8											
	MLFC/PSI-GP07-6'	03/19/96	6.0-8.0	0.2	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<2.7)	ND(<3.5)
			8.0-10.0	0.3											
			10.0-12.0	0.3											
	MLFC/PSI-GP07-12'	03/19/96	12.0-14.0	0.0	ND(<25)	ND(<25)	36	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	36	ND(<3.1)	ND(<4.2)
			14.0-16.0	1.5											
			16.0-18.0	23											
GP08			2.0-4.0	0.7											
			4.0-6.0	–											
	MLFC/PSI-GP08-6'	03/19/96	6.0-8.0	0.7	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.0)	ND(<4.1)
			8.0-10.0	167											
			10.0-12.0	36											
	MLFC/PSI-GP08-12'	03/19/96	12.0-14.0	19	64	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	64	ND(<3.0)	ND(<4.1)
			14.0-16.0	35											
			16.0-18.0	–											
GP09			2.0-4.0	0.7											
			4.0-6.0	0.8											
	MLFC/PSI-GP09-6'	03/19/96	6.0-8.0	1.0	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.1)	ND(<4.0)
			8.0-10.0	0.5											
	MLFC/PSI-GP09-10'	03/19/96	10.0-12.0	0.3	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.1)	ND(<4.1)
			12.0-14.0	0.5											
			14.0-16.0	–											
GP10			2.0-4.0	1.3											
			4.0-6.0	0.8											
	MLFC/PSI-GP10-6'	03/19/96	6.0-8.0	0.5	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<2.9)	ND(<3.8)
			8.0-10.0	0.7											
			10.0-12.0	0.3											
	MLFC/PSI-GP10-12'	03/19/96	12.0-14.0	0.5	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.2)	ND(<4.6)
			14.0-16.0	0.5											
			16.0-18.0	0.3											
NR720.09 Generic Residual Contaminant Level					5.5	2,900	NG	1,500	NG	NG	4,100**	4,100**	NG	100***	
NR720.19 Site Specific Residual Contaminant Level					13	4,183	173	1,899	NG	NG	3,627	3,627	NG	100***	

Notes:

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mg/kg = milligrams per kilogram or parts per million
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NG = No NR720 Residual Contaminant Level Established
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BOLD = Indicates exceedance of NR720 Residual Contaminant Level
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Table 4-3 (continued)
Soil Sample Analytical Results
PVOCs, GRO, DRO and Total Lead
Mid-Lakes FS Coop
Francis Creek, Wisconsin

Soil Boring I.D.	Sample I.D.	Date Collected	Depth (feet *bgs)	OVM Readings (i.u.,ppm)	PVOCs (ug/kg) EPA Method 8020									WDNR Modified	
					Benzene	Ethyl-Benzene	MTBE	Toluene	1,2,4-TMB	1,3,5-TMB	p,m-Xylene	o-Xylene	Total PVOCs	GRO (mg/kg)	DRO (mg/kg)
GP11			2.0-4.0	0.0											
			4.0-6.0	0.0											
	MLFC/PSI-GP11-6'	03/19/96	6.0-8.0	0.0	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.0)	ND(<3.9)
			8.0-10.0	0.0											
	MLFC/PSI-GP11-10'	03/19/96	10.0-12.0	0.0	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.1)	ND(<4.2)
			12.0-14.0	0.0											
			14.0-16.0	0.0											
			16.0-18.0	0.0											
GP12			2.0-4.0	0.0											
	MLFC/PSI-GP12-4'	03/20/96	4.0-6.0	0.3	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.0)	ND(<3.9)
			6.0-8.0	34											
			8.0-10.0	33											
	MLFC/PSI-GP12-10'	03/20/96	10.0-12.0	41	ND(<25)	470	ND(<25)	36	300	250	230	ND(<25)	1,286	11	ND(<4.1)
			12.0-14.0	50											
			14.0-16.0	60											
			16.0-18.0	200											
GP13			2.0-4.0	432											
			4.0-6.0	442											
	MLFC/PSI-GP13-6'	03/20/96	6.0-8.0	596	23,000	26,000	2,400	82,000	45,000	16,000	81,000	31,000	306,400	1,300	170
			8.0-10.0	379											
			10.0-12.0	611											
	MLFC/PSI-GP13-12'	03/20/96	12.0-14.0	517	4,500	2,100	260	8,300	1,600	420	5,800	2,500	25,480	40	4.6
			14.0-16.0	175											
			16.0-18.0	–											
GP14			2.0-4.0	2.5											
			4.0-6.0	15											
			6.0-8.0	44											
	MLFC/PSI-GP14-8'	03/20/96	8.0-10.0	32	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	5.2	180
			10.0-12.0	47											
	MLFC/PSI-GP14-12'	03/20/96	12.0-14.0	190	ND(<25)	37	ND(<25)	ND(<25)	130	110	99	ND(<25)	376	21	18
			14.0-16.0	298											
GP15			2.0-4.0	2.5											
			4.0-6.0	2.5											
	MLFC/PSI-GP15-6'	03/20/96	6.0-8.0	2.3	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.0)	ND(<4.9)
			8.0-10.0	1.9											
	MLFC/PSI-GP15-10'	03/20/96	10.0-12.0	1.9	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.3)	ND(<4.5)
			12.0-14.0	2.1											
			14.0-16.0	1.9											
			16.0-18.0	–											
NR720.09 Generic Residual Contaminant Level					5.5	2,900	NG	1,500	NG	NG	4,100**	4,100**	NG	100***	
NR720.19 Site Specific Residual Contaminant Level					13	4,183	173	1,899	NG	NG	3,627	3,627	NG	100***	

Notes:

OVM = Organic Vapor Monitor
PVOCs = Petroleum volatile organic compounds
ug/kg = micrograms per kilogram or parts per billion
*bgs = below ground surface
i.u., ppm = instrument units, parts per million
MTBE = Methyl-tertiary-butylether
1,2,4-TMB = 1,2,4-Trimethylbenzene
1,3,5-TMB = 1,3,5-Trimethylbenzene

GRO = Gasoline Range Organics
DRO = Diesel Range Organics
mg/kg = milligrams per kilogram or parts per million
ND (<25) = Not detected above laboratory detection limits (detection limit in parentheses, if applicable)
NG = No NR720 Residual Contaminant Level Established
** = NR720 Residual Contaminant Level for Total Xylenes
BOLD = Indicates exceedance of NR720 Residual Contaminant Level
*** = 100 mg/kg for permeabilities greater than 10-6 cm/sec; 250 mg/kg for permeabilities less than or equal to 10-6 cm/sec.

Table 4-3 (continued)
Soil Sample Analytical Results
PVOCs, GRO, DRO and Total Lead
Mid-Lakes FS Coop
Francis Creek, Wisconsin

Soil Boring I.D.	Sample I.D.	Date Collected	Depth (feet *bgs)	OVM Readings (i.u.,ppm)	PVOCs (ug/kg) EPA Method 8020									WDNR Modified	
					Benzene	Ethyl-Benzene	MTBE	Toluene	1,2,4-TMB	1,3,5-TMB	p,m-Xylene	o-Xylene	Total PVOCs	GRO (mg/kg)	DRO (mg/kg)
GP16	MLFC/GP16-3	10/01/96	1.0-3.0	0.0	ND(<25)	ND(<25)	ND(<25)	ND(<25)	74	120	45	ND(<25)	239	7.8	4.5
			3.0-5.0	0.0											
			5.0-7.0	14.0											
			7.0-9.0	7.5											
			9.0-11.0	29.0											
			11.0-13.0	63.0											
			13.0-15.0	0.0											
GP21	MLFC/GP21-3	10/01/96	1.0-3.0	0.0	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.1)	ND(<4.4)
			3.0-5.0	1.0											
			5.0-7.0	0.3											
			7.0-9.0	0.0											
			9.0-11.0	0.0											
			11.0-13.0	0.0											
			13.0-15.0	0.0											
			20.0-22.0	0.0											
NR720.09 Generic Residual Contaminant Level					5.5	2,900	NG	1,500	NG	NG	4,100**	4,100**	NG	100***	
NR720.19 Site Specific Residual Contaminant Level					13	4,183	173	1,899	NG	NG	3,627	3,627	NG	100***	

Notes:

OVM = Organic Vapor Monitor
PVOCs = Petroleum volatile organic compounds
ug/kg = micrograms per kilogram or parts per billion
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1,2,4-TMB = 1,2,4-Trimethylbenzene
1,3,5-TMB = 1,3,5-Trimethylbenzene

GRO = Gasoline Range Organics
DRO = Diesel Range Organics
mg/kg = milligrams per kilogram or parts per million
ND (<25) = Not detected above laboratory detection limits (detection limit in parentheses, if applicable)
NG = No NR720 Residual Contaminant Level Established
** = NR720 Residual Contaminant Level for Total Xylenes
BOLD = Indicates exceedance of NR720 Residual Contaminant Level
*** = 100 mg/kg for permeabilities greater than 10-6 cm/sec; 250 mg/kg for permeabilities less than or equal to 10-6 cm/sec.

Table 4-3 (continued)
Soil Sample Analytical Results
PVOCs, GRO, DRO and Total Lead
Mid-Lakes FS Coop
Francis Creek, Wisconsin

Soil Boring I.D.	Sample I.D.	Date Collected	Depth (feet *bgs)	OVM Readings (i.u.,ppm)	PVOCs (ug/kg) EPA Method 8020									WDNR Modified	
					Benzene	Ethyl-Benzene	MTBE	Toluene	1,2,4-TMB	1,3,5-TMB	p,m-Xylene	o-Xylene	Total PVOCs	GRO (mg/kg)	DRO (mg/kg)
GP22			0.0-2.0	1.8											
			2.0-4.0	165											
			4.0-6.0	291											
			6.0-8.0	233											
	MLFC/GP22-05	06/25/97	8.0-10.0	84	210	96	32	200	580	610	940	550	3,218	30	96
			10.0-12.0	60											
GP23			0.0-2.0	187											
			2.0-4.0	334											
			4.0-6.0	278											
			6.0-8.0	296											
	MLFC/GP23-05	06/25/97	8.0-10.0	319	10,000	13,000	1,600	6,800	32,000	15,000	32,000	19,000	129,400	1,600	66
			10.0-12.0	120											
GP24			0.0-2.0	5											
			2.0-4.0	425											
			4.0-6.0	373											
			6.0-8.0	390											
	MLFC/GP24-05	06/25/97	8.0-10.0	312	51,000	44,000	7,200	70,000	72,000	23,000	120,000	36,000	423,200	1,800	360
			10.0-12.0	344											
GP25			0.0-2.0	2.4											
	MLFC/GP25-02	06/25/97	2.0-4.0	1.5	39	ND(<25)	ND(<25)	ND(<25)	94	32	67	ND(<25)	232	5.3	ND(<4.4)
			4.0-6.0	247											
			6.0-8.0	66											
	MLFC/GP25-05	06/25/97	8.0-10.0	188	2,000	3,700	400	780	6,800	2,300	8,800	1,200	25,980	190	27
			10.0-12.0	291											
GP26			0.0-2.0	2.1											
			2.0-4.0	1.5											
	MLFC/GP26-03	06/25/97	4.0-6.0	0.6	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND	ND(<3.0)	ND(<3.8)
			6.0-8.0	1.0											
			8.0-10.0	6.0											
			10.0-12.0	5.4											
NR720.09 Generic Residual Contaminant Level					5.5	2,900	NG	1,500	NG	NG	4,100**	4,100**	NG	100***	
NR720.19 Site Specific Residual Contaminant Level					13	4,183	173	1,899	NG	NG	3,625	3,627	NG	100***	

Notes:

OVM = Organic Vapor Monitor
PVOCs = Petroleum volatile organic compounds
ug/kg = micrograms per kilogram or parts per billion
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MTBE = Methyl-tertiary-butylether
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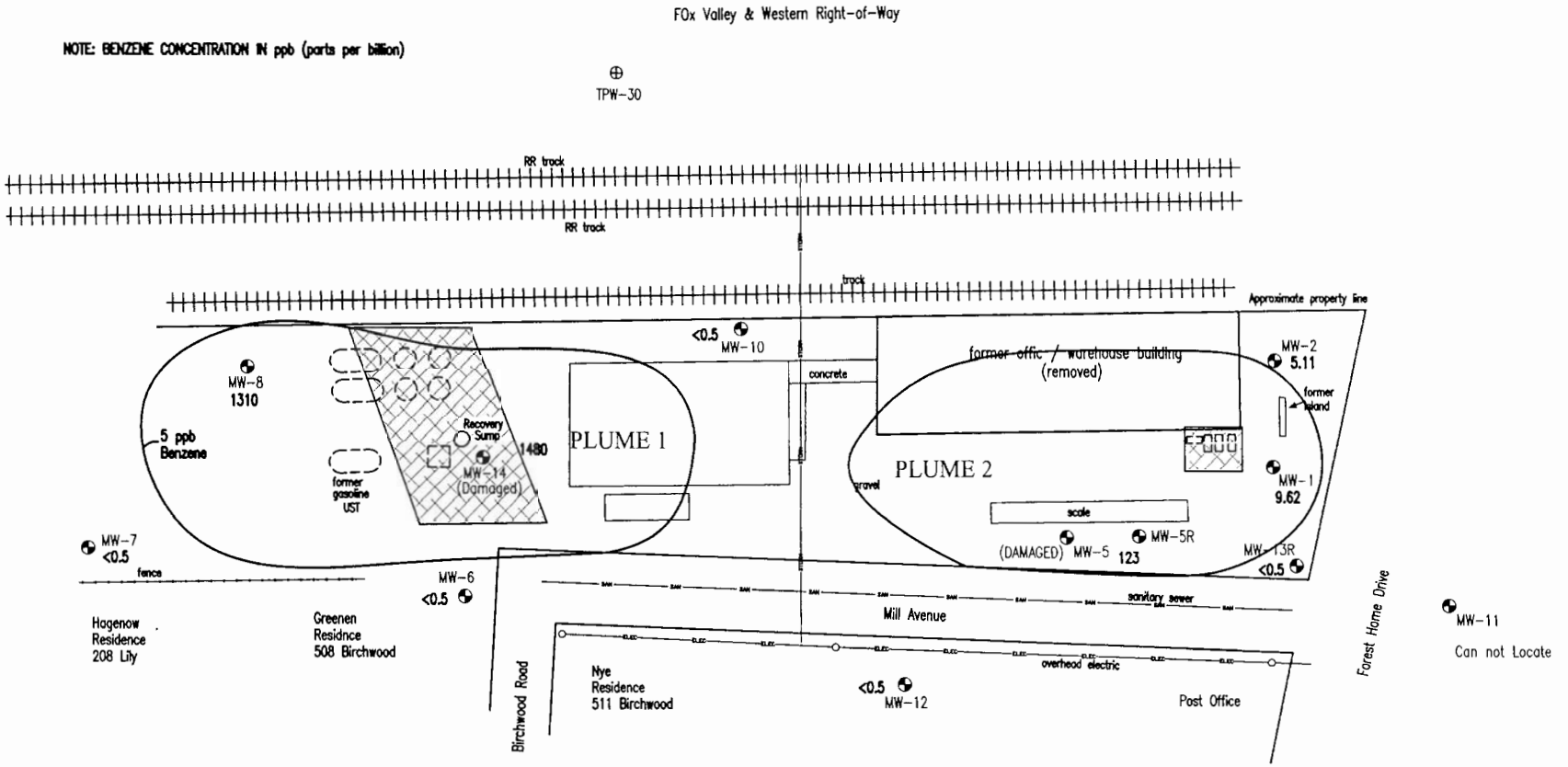
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
mg/kg = milligrams per kilogram or parts per million
ND (<25) = Not detected above laboratory detection limits (detection limit in parentheses, if applicable)
NG = No NR720 Residual Contaminant Level Established
** = NR720 Residual Contaminant Level for Total Xylenes
BOLD = Indicates exceedance of NR720 Residual Contaminant Level
*** = 100 mg/kg for permeabilities greater than 10-6 cm/sec; 250 mg/kg for permeabilities less than or equal to 10-6 cm/sec.

NOTE: BENZENE CONCENTRATION IN ppb (parts per billion)



SCALE: 1" = 50'-0"

0 10' 25' 50' 100'

LEGEND

⊕ Temporary Geoprobe Monitoring Well

◐ Monitoring Well Location

Area of Remedial Excavation

Sheet No 1 of 1	PROJECT: Mid-Lakes FS Co-op 600 Forest Home Drive _____ Creek, WI 54214	TITLE: FIGURE : PLUMES OF GROUNDWATER CONTAMINATION ABOVE NR 140 ES ON 02/14/02	ENGINEER K. SINGH & ASSOCIATES, INC. *Engineers, Scientists and Environmental Management Consultants* 1135 Legion Drive Elm Grove, Wisconsin 53122 Phone: (262) 821-1171 FAX: (262) 821-1174E-mail: singh@execpc.com

DRAWN BY:	J.B.M.
CHECKED BY:	B.S.
DATE:	01/24/05
PROJECT NO:	4441
DRAWING FILE:	4441.dwg

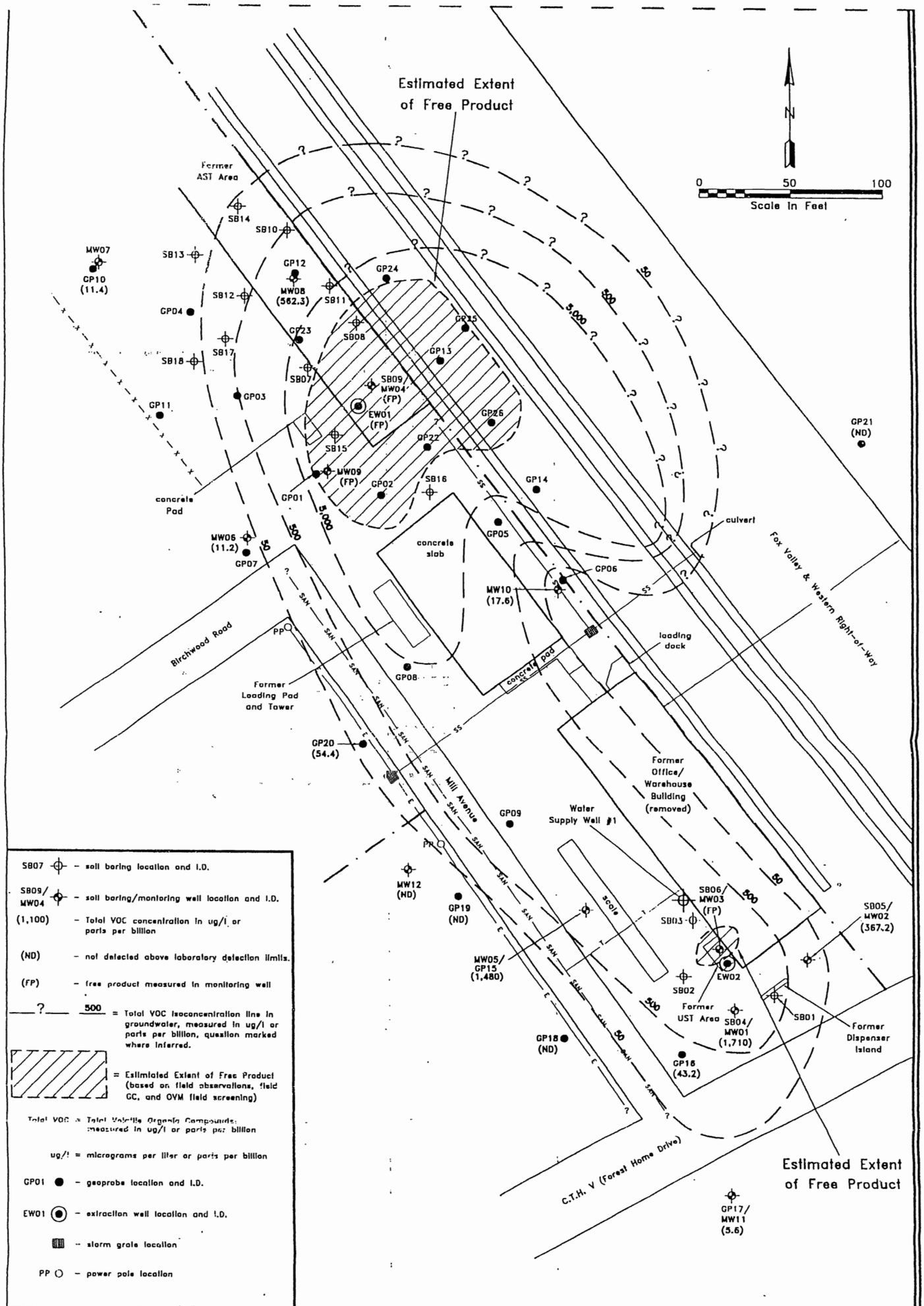


Figure 4-12
INTERPRETED TOTAL VOC ISOCONCENTRATIONS IN GROUNDWATER (10/23/96)
Mid-Lakes FS Co-op
600 Forest Home Drive
Francis Creek, WI

date:	drafted by:	checked by:	approved by:
11/25/96	JRK	[illegible]	[illegible]

Cooper
Environmental & Engineering Resources, Inc.
1411 North Main Street, West Bend, Wisconsin 53095
scale: 1" = 50' file: C:/DWGS/FRANCREK/ISOGWVOC

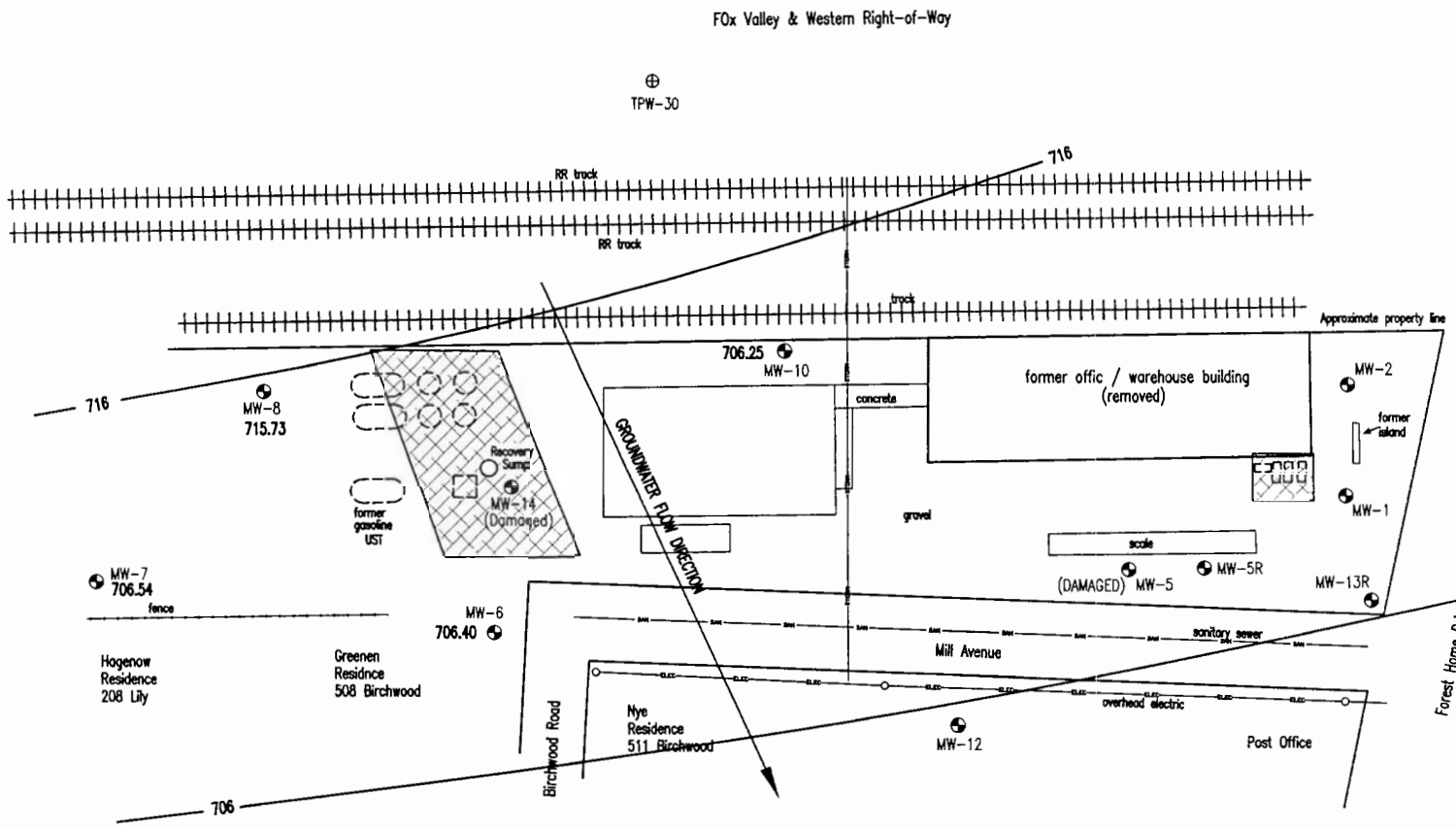
KSA K. SINGH & ASSOCIATES, INC.
Engineers, Scientists and Environmental Management Consultants

Table 1 (Project # 4441)
Summary of Groundwater Elevation Data
Mid-Lakes FS Co-op. Francis Creek, WI

Well No.	PVC Elevation	Depth to Water 04/19/96	GW Elevation 04/19/96	Depth to Water 12/03/96	GW Elevation 12/03/96	Depth to Water 03/22/01	GW Elevation 03/22/01	Depth to Water 07/01/01	GW Elevation 07/01/01
MW-1	716.6	7.38	709.22	12.69	703.91	10.16	706.44	7.76	708.84
MW-2	717.02	5.31	711.71	10.86	706.16	---	---	---	---
MW-5	717.81	8.67	709.14	13.62	704.19	11.32	706.49	7.93	709.88
MW-6	719.35	9.36	709.99	14.56	704.79	11.94	707.41	10.21	709.14
MW-7	723.54	13.99	709.55	18.6	704.94	15.84	707.7	14.89	708.65
MW-8	723.63	4.3	719.33	17.88	705.75	5.4	718.23	7.54	716.09
MW-10	719.74	7.05	712.69	14.66	705.08	9.75	709.99	10.29	709.45
MW-12	718.74	---	---	11.92	706.82	11.94	706.8	10.93	707.81
MW-13R	---	---	---	---	---	---	---	9.01	---
MW-14	---	---	---	---	---	---	---	---	---
Average	719.55	8.01	711.66	14.35	705.21	10.91	709.01	9.82	709.98

Well No.	PVC Elevation	Depth to Water 07/01/01	GW Elevation 07/01/01	Depth to Water 10/03/01	GW Elevation 10/03/01	Depth to Water 2/14/2002	GW Elevation 2/14/2002	Depth to Water 11/12/2003	GW Elevation 11/12/2003	Depth to Water 9/2/2004	GW Elevation 9/2/2004
MW-1	716.6	7.76	708.84	11.14	705.46	Dry	Dry	12.25	704.35	---	---
MW-2	717.02	---	---	9.61	707.41	14.12	702.9	---	---	---	---
MW-5	717.81	7.93	709.88	11.96	705.85	15.38	702.43	---	---	---	---
MW-5R	---	---	---	---	---	---	---	13.3	---	11.55	---
MW-6	719.35	10.21	709.14	12.86	706.49	16.18	703.17	14.45	704.9	12.95	706.4
MW-7	723.54	14.89	708.65	16.75	706.79	19.92	703.62	18.25	705.29	17	706.54
MW-8	723.63	7.54	716.09	12.64	710.99	16.8	706.83	11.9	711.73	8.1	715.53
MW-10	719.74	10.29	709.45	12.15	707.59	15.7	704.04	15	704.74	13.49	706.25
MW-12	718.74	10.93	707.81	12.71	706.03	---	---	---	---	---	---
MW-13R	---	9.01	---	10.81	---	14.12	----	----	---	9.21	---
MW-14	---	---	---	---	---	----	----	---	---	15.81	---
Average	719.55	9.82	709.98	12.29	707.08	16.03	703.83	14.19	706.20	12.59	708.68

Elevations in feet, MSL
--- No Data



SCALE: 1" = 50'-0"

0 10' 25' 50' 100'

LEGEND

⊕ Temporary Geoprobe Monitoring Well

◐ Monitoring Well Location

Area of Remedial Excavation

Sheet No. 1 of 1	**PROJECT:** Mid-Lakes FS Co-op 600 Forest Home Drive _____ Creek, WI 54214	**TITLE:** FIGURE 15: GROUNDWATER CONTOURS ON 09-01-2004	ENGINEER **K. SINGH & ASSOCIATES, INC.** *Engineers, Scientists and Environmental Management Consultants* 1135 Legion Drive Elm Grove, Wisconsin 53122 Phone: (262) 821-1171 FAX: (262) 821-1174E-mail: singh@execpc.com

DRAWN BY:	J.B.M.
CHECKED BY:	B.S.
DATE:	01/24/05
PROJECT NO:	4441
DRAWING FILE:	4441.dwg

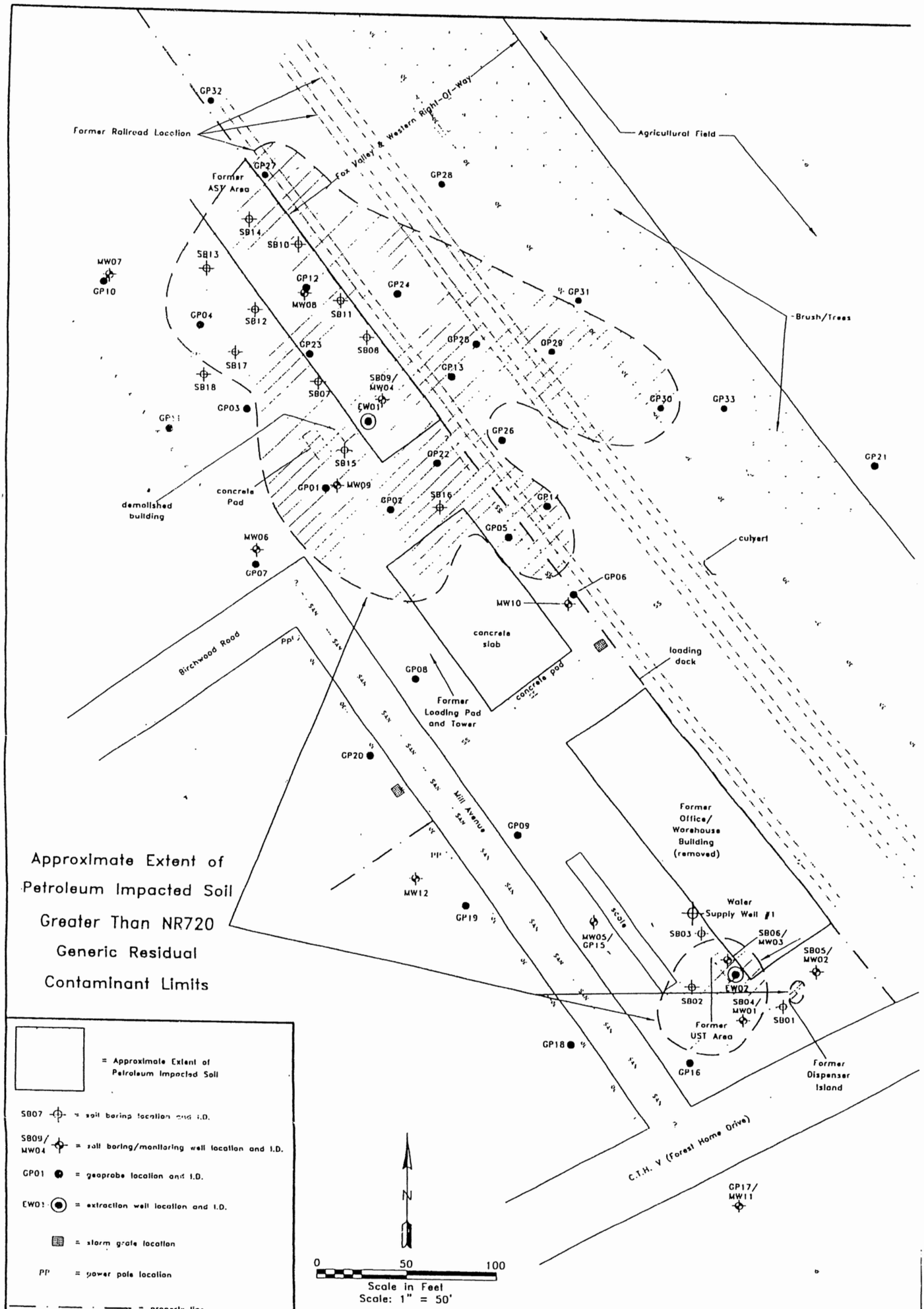
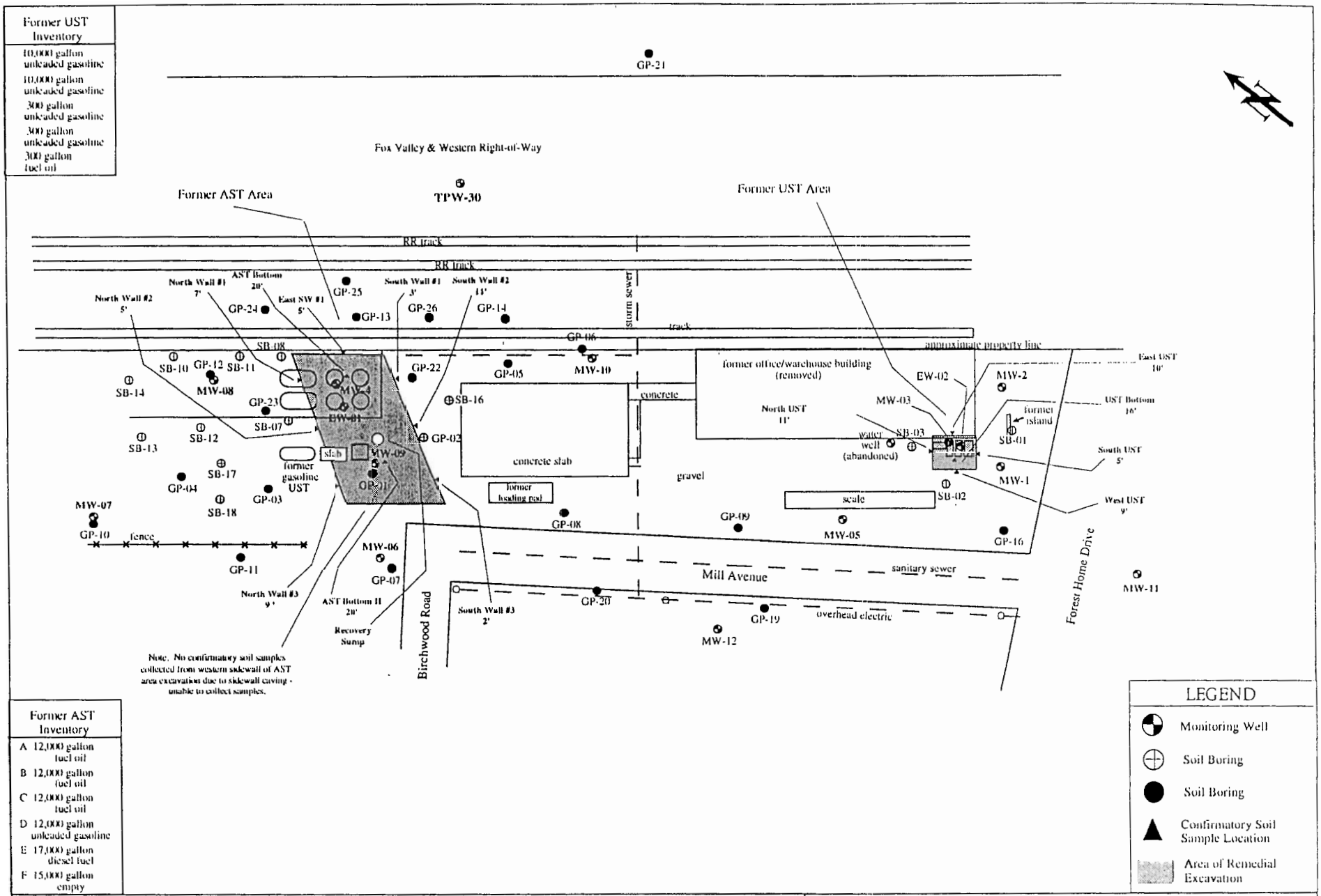


Figure 3
ESTIMATED EXTENT OF PETROLEUM IMPACTED SOIL ABOVE NR 720 GRCLS
Mid-Lakes FS Co-op
600 Forest Home Drive
Francis Creek, WI

date:	drafted by:	checked by:	approved by:
1/10/00	JGK		

Cooper
Environmental & Engineering Resources, Inc.
1411 North Main Street, West Bend, Wisconsin 53090

scale: 1" = 50'
file: C:\DWGS\FRANCREK\EEPIS



Owner	Engineer	Figure 6. Area of Remedial Excavations & Confirmatory Soil Sample Locations				
Mid-Lakes FS Co-op 600 Forest Home Drive Francis Creek, WI 54214	K. SINGH & ASSOCIATES, INC., Engineers, Architects & Environmental Consultants 1135 Legion Drive, Elm Grove, Wisconsin 53122, (262) 821-1171	DATE August 30, 2000 SCALE 0 — 50	DRAWN BY A.S.M. CHECKED BY D.K.S.	REVISIONS BY S.D.M	DATE 9/1/00 10/31/00	PROJECT NO. 4441 SHEET NO. ONE OF ONE

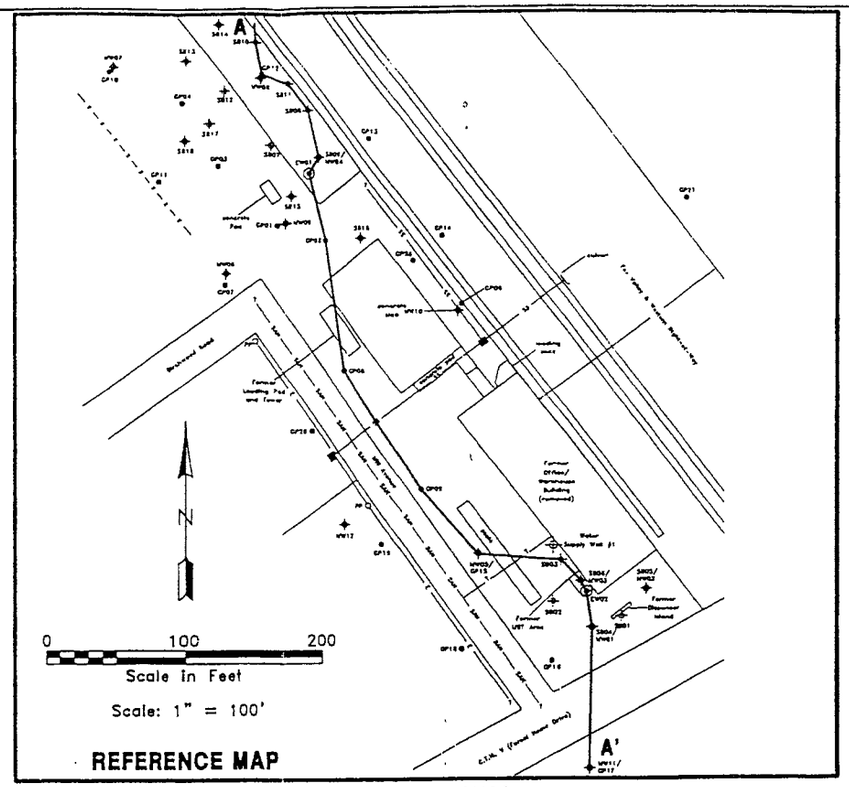
USCS SOIL CLASSIFICATION

COARSE-GRAINED SOILS

CLEAN GRAVELS (LITTLE OR NO FINES)	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
	GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
	GC	CLAYEY GRAVELS GRAVEL-SAND-CLAY MIXTURES
CLEAN SANDS (LITTLE OR NO FINES)	SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
	SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)	SM	SILTY SANDS, SAND-SILT MIXTURES
	SC	CLAYEY SANDS, SAND-CLAY MIXTURES

FINE-GRAINED SOILS

SILTS AND CLAYS LIQUID LIMIT (LESS THAN 50)	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
	CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
	OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
SILTS AND CLAYS LIQUID LIMIT (GREATER THAN 50)	MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS
	CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
	OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS	PT	PEAT, HUMUS, SWAMP SOILS, WITH HIGH ORGANIC CONTENTS
FILL	HF	NON-INDIGENOUS FILL MATERIAL



Soil Boring or Geoprobe Location and I.D.
SB08 or GP08
E.O.B.

Geoprobe or Soil Boring/ Monitoring Well Location and I.D.
MW08/ GP12
= well stickup
= screen interval
= groundwater elevation (12/3/96)
E.O.B. = End Of Boring

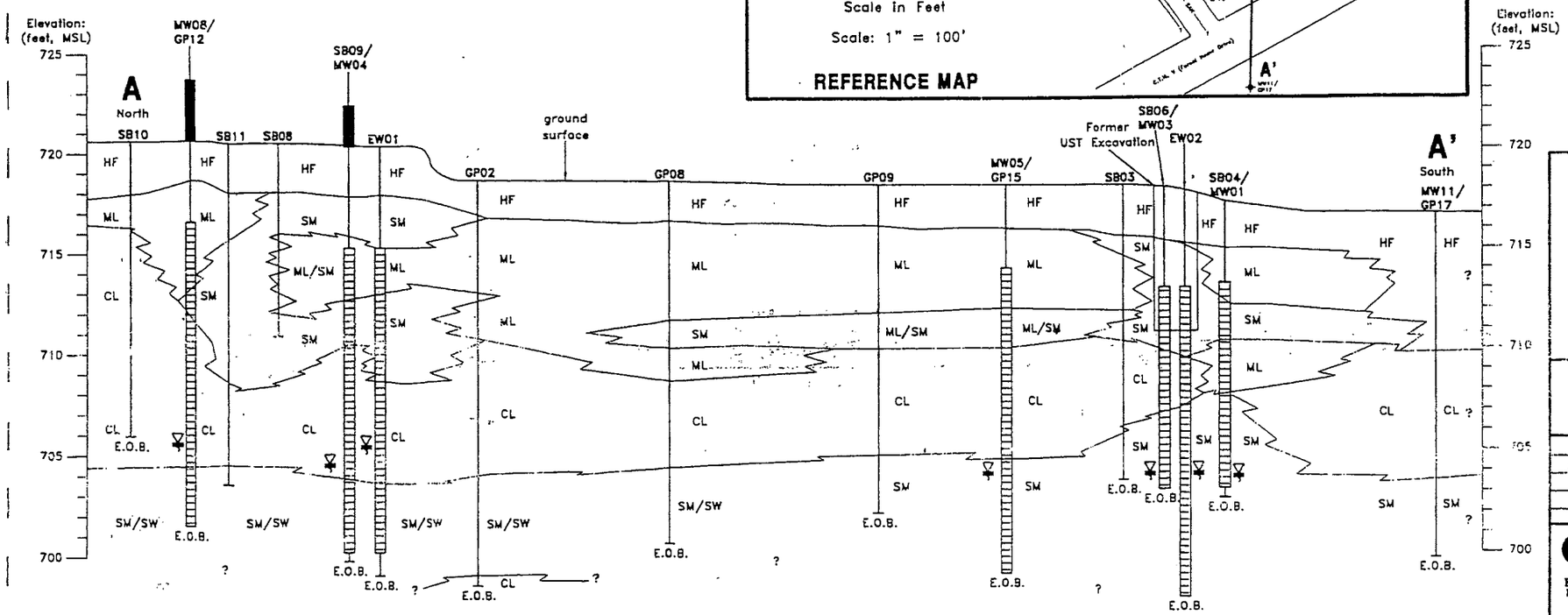


Figure 4-1

GEOLOGIC CROSS-SECTION

(A to A')

Mid-Lakes FS Co-op

600 Forest Home Drive

Francis Creek, WI

Horizontal Scale: 1" = 60'

Vertical Scale: 1" = 6'

Vertical Exaggeration = 10 Times

date:	drafted by:	checked by:	approved by:
8/25/97	JSE	CAM	AC

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1411 North Main Street, West Bend, Wisconsin 53095

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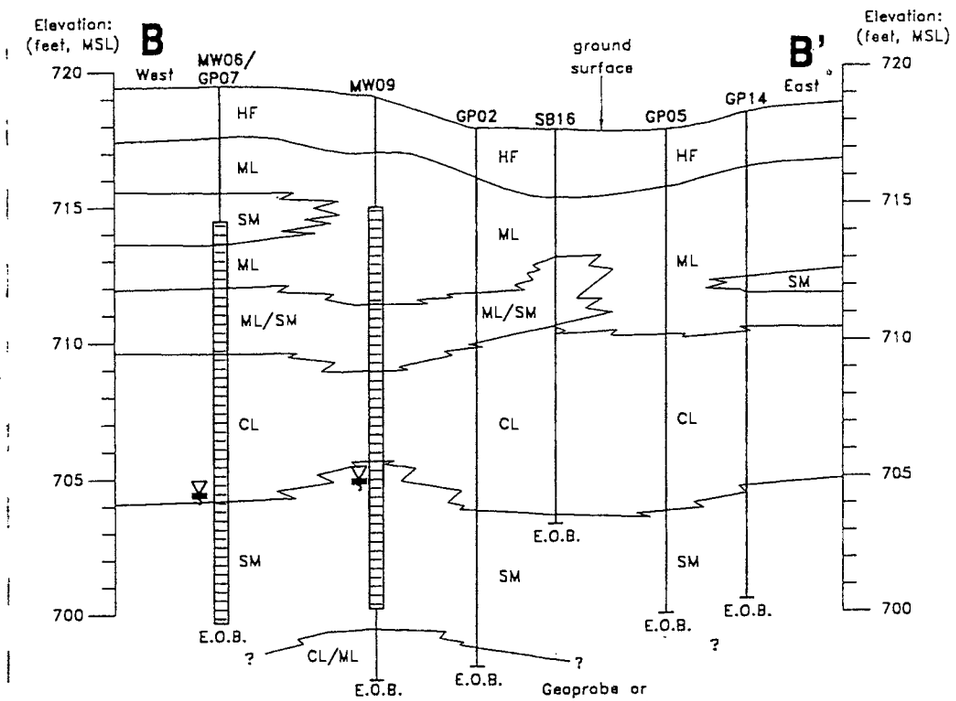
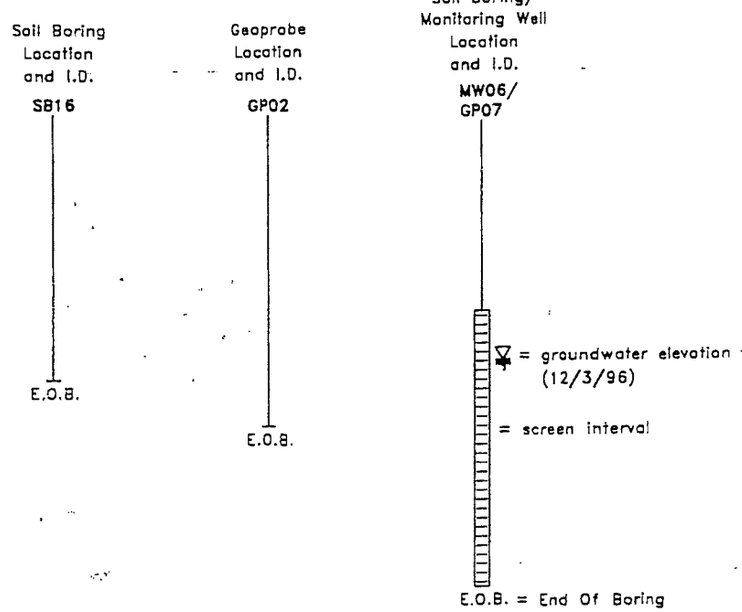
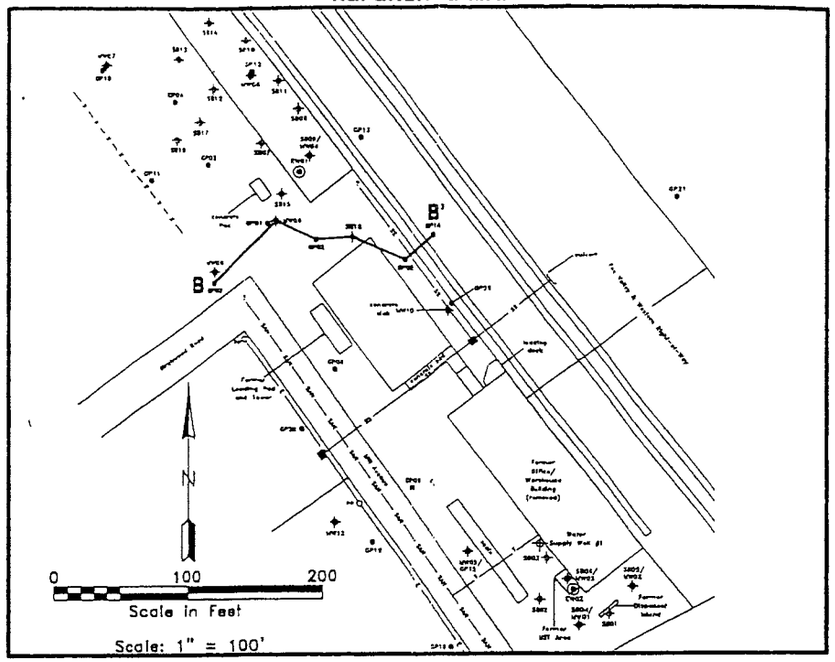




REFERENCE MAP



USCS SOIL CLASSIFICATION

COARSE-GRAINED SOILS

CLEAN GRAVELS (LITTLE OR NO FINES)	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
	GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
	GC	CLAYEY GRAVELS GRAVEL-SAND-CLAY MIXTURES
CLEAN SANDS (LITTLE OR NO FINES)	SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
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SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)	SM	SILTY SANDS, SAND-SILT MIXTURES
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SILTS AND CLAYS LIQUID LIMIT (LESS THAN 50)	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
	CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
	OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
SILTS AND CLAYS LIQUID LIMIT (GREATER THAN 50)	MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS
	CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
	OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS	PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS
FILL	HF	NON-INDIGENOUS FILL MATERIAL

Figure 4-2

GEOLOGIC CROSS-SECTION

(B to B')

Mid-Lakes FS Co-op

600 Forest Home Drive

Francis Creek, WI

Horizontal Scale: 1" = 50'

Vertical Scale: 1" = 5'

Vertical Exaggeration = 10 Times

date:	drafted by:	checked by:	approved by:
9/25/98	GGK	CAM	RC

Cooper

Environmental & Engineering Resources Inc.
1411 North Main Street, West Bend, Wisconsin 53095

C:\DWGS\FRANCREK\XSECTN_B

Certification of Legal Description

600 Forest Home Drive, Francis Creek, WI.

Vol 316 Page 617
Parcel # 032-014-011-015.00

That part of the Chicago and North Western Railway Company's property situated in the Southwest Quarter (SW ¼) of Section Fourteen (14), Township Twenty (20) North, Range Twenty-three (23) East, and described as follows, to-wit:

Beginning at the intersection of a line drawn parallel with and Two Hundred (200) feet Southwesterly as measured perpendicularly from the center line of the Chicago and North Western Railway Company's (formerly the Manitowoc, Green Bay and North Western Railway Company) main track with the northerly line of County Trunk Highway "V" as said Highway is now located and established; thence Northwesterly parallel with said center line a distance of Four Hundred Fifty (450) feet, thence Northeasterly perpendicular to the last described line a distance of One Hundred Thirty-nine (139) feet, more or less, to a point Sixty-one (61) feet Southwesterly as measured perpendicularly from said center line of the main track; thence Southeasterly parallel with said center line of the main track a distance of Four Hundred Thirty-five (435) feet, more or less, to said Northerly line of County Trunk Highway "V" Thence Southwesterly along said County Trunk Highway "V" a distance of One Hundred Forty (140) feet, more or less, to the point of beginning.

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Parcel # 032-014-011-016.00

A tract of land in the South West One-quarter (1/4) of the South West One-quarter (1/4) ~~of the South West One-quarter (1/4)~~ of Section Fourteen (14) Township (20), North, Range Twenty-three (23) East, bounded and described as follows, to-wit: Commencing at the North West corner of said South West ¼ of the South West ¼ of Section 14; thence

South 0°22′30″ East along the section line a distance of 537.00 feet, to the center line of County Trunk Highway "V"; thence North 87°19′30″ East along said center line of the highway; a distance of 1334.60 feet; thence North 62°4′30″ East along said center line of the highway, a distance of 10.05 feet to a line drawn parallel with and 200 feet southwesterly, measured at right angles from the center line of the main track of the Chicago and North Western Railway Company, as said main track is now located and established; thence North 34°49′30″ West parallel with said center line of the main track, a distance of 24.52 feet to an iron pin, thence continuing North 34°49′30″ West along the said right of way a distance of 450 feet to the point of real beginning; thence continuing North 34°49′30″ West along said parallel line a distance of 115 feet; thence North 55°10′30″ East a distance of 139 feet; thence South 34°49′30″ East a distance of 115 feet; thence South 55°10′30″ West a distance of 139 feet to the point of real beginning.

I Norman Johnson certify that the legal description provided above and the attached Warranty Deeds are complete and accurate to the best of my knowledge. The legal descriptions correctly describe the parcels affected by petroleum releases from 600 Forest Home Drive, Francis Creek, WI.

Signature Norman Johnson

Title Agent

Date 1-25-05

KSA

K. SINGH & ASSOCIATES, INC.

Engineers, Scientists and Environmental Management Consultants

January 20, 2005

Ms. Nina Sayyat
Canadian National Railway Company
8th Floor – 277 Front Street West
Toronto, ON M5V 2X7, Canada.

Project # 4441

Subject: Notification of Potential Residual Contamination within Right-of-Way of Fox Valley & Western Railway at Mid-Lakes FS Co-op, 600 Forest Home Drive, Francis Creek, WI
BRRTS No. 03-36-001966, 02-36-000584
Commerce No. 54241-9999-00

Dear Ms. Sayyat:

The purpose of this letter is to notify Canadian National Railway Company regarding potential residual contamination within the right-of-way of Fox Valley & Western Railway at Mid-Lakes FS Co-op, 600 Forest Home Drive, Francis Creek, WI. Monitoring wells MW-2, MW-8, and MW-10 are located at the east boundary of the referenced site (Refer to Attached Figure 1). In the past NR 140 Enforcement Standard (ES) exceedances for petroleum contaminants were noted in these wells. However, during last three rounds of groundwater monitoring petroleum contaminants level was reported to be below NR 140 ES in MW-10. There were no exceedances of petroleum contaminants noted in temporary well TPW-30, which is in the right-of-way of Fox Valley & Western Railway on the other side of the railroad track. Based on the residual contamination at site there is a potential for migration of groundwater contamination within the right-of-way of Fox Valley & Western Railway. However, contamination in groundwater appears to be decreasing with time. Monitoring wells location and groundwater quality test results are included in Figure 1 and Table 1, respectively.

We notify the above details for your information and records. It is our understanding that the residual contamination will be remediated by natural attenuation. Please call us if you have any questions regarding this submittal.

Sincerely,

K. SINGH & ASSOCIATES, INC.

Bhuvanesh Singh, Ph.D.
Staff Engineer

Pratap N. Singh, Ph.D., P.E.
Project Manager

cc: Randy Tomic / Growmark, Inc.
Norm Johnson / Mid-Lakes FS Co-op
Kamala Singh / #4441 PECFA File

1135 Legion Drive, Elm Grove, WI 53122 Phone: (262) 821-1171 Fax: (262) 821-1174 email: singh@execpc.com

KSA

K. SINGH & ASSOCIATES, INC.

Engineers, Scientists and Environmental Management Consultants

January 20, 2005

Mr. Gary Kennedy
Director
Manitowoc County Highway Dept.
3500 State Hwy 310
Manitowoc, WI 54220-9659

Project # 4441

Subject: Notification of Potential Residual Contamination within Right-of-Way of Forest Home Drive at Mid-Lakes FS Co-op, 600 Forest Home Drive (CTH "V"), Francis Creek, WI
BRRTS No. 03-36-001966, 02-36-000584
Commerce No. 54241-9999-00

Dear Mr. Kennedy:

The purpose of this letter is to notify County of Manitowoc regarding potential residual contamination within the right-of-way of Forest Home Drive (County Trunk Highway "V") at Mid-Lakes FS Co-op, 600 Forest Home Drive, Francis Creek, WI

Monitoring wells MW-1, MW-2, and MW-13R are located at the south boundary of the referenced site (Refer to Attached Figure 1). In the past NR 140 Enforcement Standard (ES) exceedances for petroleum contaminants were noted in these wells. However, during last round of monitoring petroleum contaminants level was reported to be below NR 140 ES in MW-13R. There were no exceedances of petroleum contaminants noted in monitoring well MW-11, which is in the right-of-way of CTH "V" on the other side of the road. Based on the residual contamination at site there is a potential for migration of groundwater contamination within the right-of-way of CTH "V". However, contamination in groundwater appears to be decreasing with time. Monitoring wells location and groundwater quality test results are included in Figure 1 and Table 1, respectively.

We notify the above details for your information and records. It is our understanding that the residual contamination will be remediated by natural attenuation. Please call us if you have any questions regarding this submittal.

Sincerely,

K. SINGH & ASSOCIATES, INC.

Bhuvanesh Singh, Ph.D.
Staff Engineer

Pratap N. Singh, Ph.D., P.E.
Project Manager

cc: Randy Tomic / Growmark, Inc.
Norm Johnson / Mid-Lakes FS Co-op
Kamala Singh / #4441 PECFA File

1135 Legion Drive, Elm Grove, WI 53122 Phone: (262) 821-1171 Fax: (262) 821-1174 email: singh@execpc.com

KSA

K. SINGH & ASSOCIATES, INC.

Engineers, Scientists and Environmental Management Consultants

January 20, 2005

Mr. Ted Zigmunt
President, Village of Francis Creek
P.O. Box 68, Francis Creek, WI 54214

Project # 4441

Subject: Notification of Potential Residual Contamination within the Right-of-Way of Mill Avenue and Birchwood Road at Mid-Lakes FS Co-op, 600 Forest Home Drive, Francis Creek, WI
BRRTS No. 03-36-001966, 02-36-000584.
Commerce No. 54241-9999-00

Dear Mr. Zigmunt:

The purpose of this letter is to notify the Village of Francis Creek regarding potential residual contamination within the right-of-way of Mill Avenue and Birchwood Road at Mid-Lakes FS Co-op, 600 Forest Home Drive, Francis Creek, WI

Monitoring wells MW-05 and MW-13R are located at the west boundary of the referenced site (Refer to Attached Figure 1). In the past NR 140 Enforcement Standard (ES) exceedances for petroleum contaminants were noted in these wells. However, during last round of monitoring petroleum contaminants level was reported to be below NR 140 ES in MW-5R (replacement well for MW-5) and MW-13R. There were no exceedances of petroleum contaminants noted during four rounds of sampling in the monitoring well MW-12, which is located on the private property on the other side of Mill Avenue. Based on the residual contamination at site there is a potential for migration of groundwater contamination within the right-of-way of Mill Avenue and Birchwood Road. However, contamination in groundwater appears to be decreasing with time. Monitoring wells location and groundwater quality test results are included in Figure 1 and Table 1, respectively.

We notify the above details for your information and records. It is our understanding that the residual contamination will be remediated by natural attenuation. Please call us if you have any questions regarding this submittal.

Sincerely,

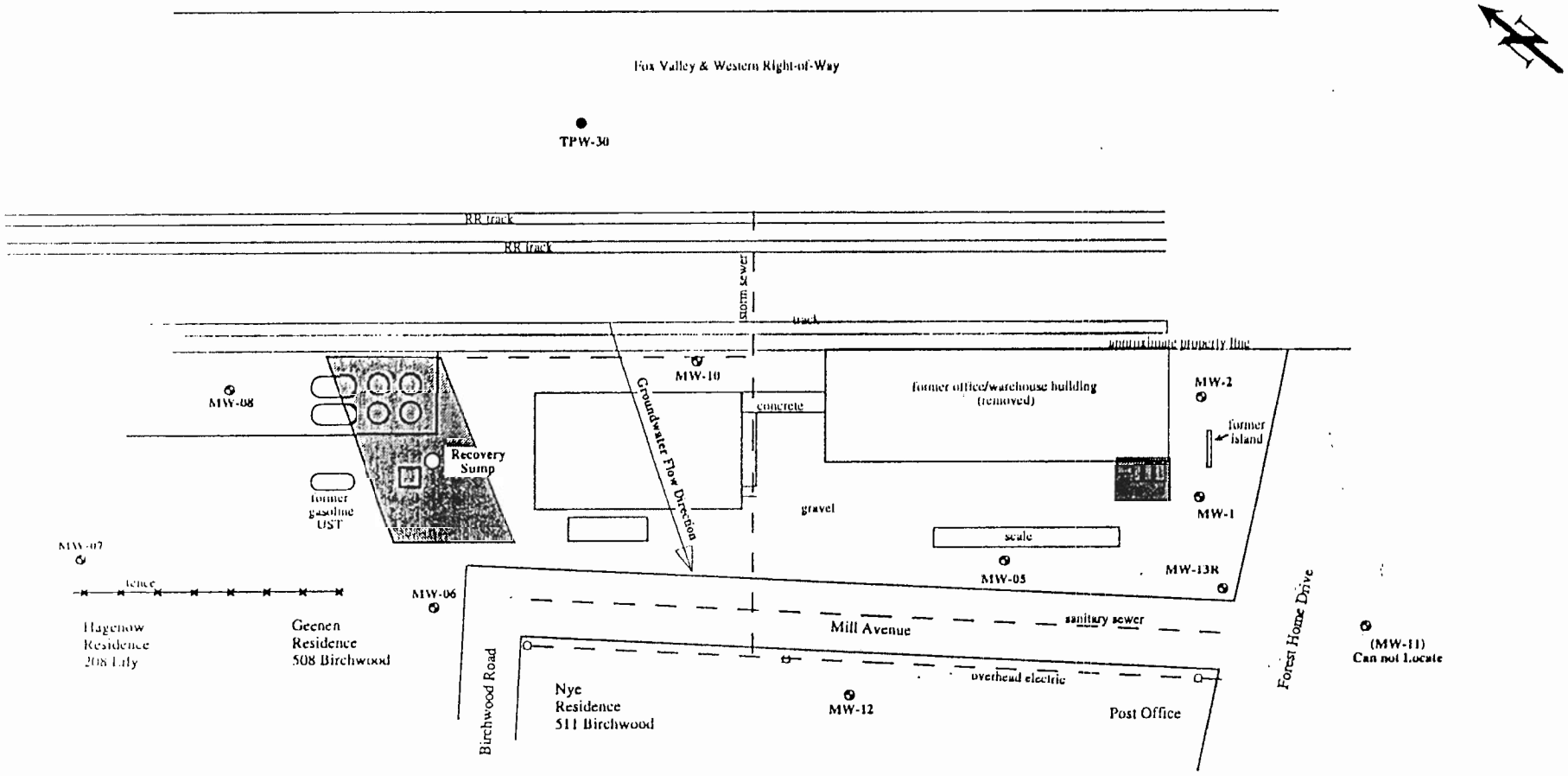
K. SINGH & ASSOCIATES, INC.

Bhuvanesh Singh, Ph.D.
Staff Engineer

Pratap N. Singh, Ph.D., P.E.
Project Manager

cc: Randy Tomic / Growmark, Inc.
Norm Johnson / Mid-Lakes FS Co-op
Kamala Singh / #4441 PECFA File

1135 Legion Drive, Elm Grove, WI 53122 Phone: (262) 821-1171 Fax: (262) 821-1174 email: singh@execpc.com



LEGEND

- Temporary Geoprobe Monitoring Well
- Monitoring Well
- Area of Remedial Excavation

Owner	Engineer	Figure 1. Site Layout & Groundwater Monitoring Well Locations				
Mid-Lakes FS Co-op 6001 Forest Home Drive Francis Creek, WI 54214	K. SINGH & ASSOCIATES, INC., Engineers, Architects & Environmental Consultants 1135 Legion Drive, Elm Grove, Wisconsin 53122, (262) 821-1171	DATE August 30, 2000 SCALE 0 — 50	DRAWN BY A.S.M. CHECKED BY D.K.S.	REVISIONS BY S.D.M.	DATE 9/1/00 12/01/00	PROJECT NO 4441 SHEET NO ONE OF ONE

Table 1
Summary of Groundwater Quality Test Results
Mid-Lakes FS Co-op
Francis Creek, WI

Well No.	Date	Consultant	Benzene	1,2-Dichloroethane	Ethylbenzene	MTBE	Naphthalene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes	Dissolved Lead
			(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
MW-01	09/06/95	Cooper	**2,200**	<25	320	56	**210**	720	310	65	**890**	<2
	04/11/96	Cooper	**1,000**	NT	300	**81**	NT	75	280	76	374	NT
	10/23/96	Cooper	**690**	<5	250	**75**	**78**	6.9	240	49	177	NT
	11/10/00	KSA	**159**	NT	131	8.73	**417**	14.1	134	60	215	NT
	03/22/01	KSA	**27.2**	NT	42.1	9.84	26.3	0.815	59.2	9.51	58.1	NT
	07/07/01	KSA	**28.4**	NT	5.5	7.53	29.9	<0.5	7.55	2.57	3.77	NT
	10/03/01	KSA	**9.62**	NT	11.6	19.3	7.51	<0.5	6.25	<1	1.21	NT
	02/14/02	KSA	Not sampled. Dry									
MW-02	09/06/95	Cooper	**270**	<5	82	<5	**120**	200	120	30	320	<2
	Duplicate	Cooper	**380**	<5	80	<5	**120**	180	120	30	310	<2
	04/11/96	Cooper	**310**	NT	160	14	NT	430	210	52	**640**	NT
	10/23/96	Cooper	**110**	<1	72	<1	**40**	22	29	5	54	NT
	11/10/00	KSA	**11.4**	NT	34.5	<0.5	30.5	4.78	31.3	8.47	47.7	NT
	03/22/01	KSA	3.46	NT	28	1.95	**43.7**	1.81	50.6	13.9	54.3	NT
	07/07/01	KSA	**14.5**	NT	127	9.76	**54.8**	3.01	141	19.4	136	NT
	10/03/01	KSA	4.47	NT	69.4	<0.2	**44.9**	2.46	87.8	18.6	97.2	NT
	02/14/02	KSA	4.54	NT	<0.5	2.02	34	1.42	52.1	21.4	67.8	NT
	10/18/2002	KSA	**5.69**	ND	63.9	ND	35.7	7.68	74.3	14.2	85.1	NT
	9/2/2004	KSA	**5.11**	NT	44.1	0.68	17.2	<5	18.8	<5	20.3	NT
MW-03	MW-03 removed during interim soil remediation: 10/25/00											
	Never sampled due to presence of free product											
MW-04	MW-04 removed during interim soil remediation: 10/23/00											
	Never sampled due to presence of free product											
MW-05	04/11/96	Cooper	**360**	**26**	<5	**110**	<5	<5	7	<5	8.6	NT
	10/23/96	Cooper	**1,100**	**90**	<10	**290**	<10	<10	<10	<10	<10	NT
	11/10/00	KSA	**1,020**	**31.4**	<0.5	28	<2	<0.5	<1	<1	<0.5	NT
	03/22/01	KSA	**760**	**21.8**	<0.5	29.2	<2	<0.5	<1	<1	<0.5	NT
	07/07/01	KSA	2.16	<0.5	<0.5	0.517	<2	<0.5	<1	<1	<0.5	NT
	10/03/01	KSA	<0.5	<0.5	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	02/14/02	KSA	**123**	<0.5	<0.5	5.14	<2	<0.5	<1	<1	<0.5	NT
	10/18/02	KSA	**3,770**	<0.5	<0.5	48.4	<2	<0.5	<1	<1	1.19	NT
MW-5R	11/12/03	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	09/02/04	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
MW-06	04/11/96	Cooper	2.7	<1	<1	2.1	<1	<1	<1	<1	<1	NT
	10/23/96	Cooper	<1	**5.7**	<1	5.5	<1	<1	<1	<1	<1	NT
	11/10/00	KSA	<0.5	<0.5	<0.5	1.37	<2	<0.5	<1	<1	<0.5	NT
	03/22/01	KSA	<0.5	<0.5	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	07/07/01	KSA	<0.5	0.891	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	10/03/01	KSA	<0.5	0.828	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	02/14/02	KSA	<0.5	<0.5	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	10/18/02	KSA	<0.5	2.43	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	11/12/03	KSA	<0.5	NT	<0.5	0.26	<2	<0.5	<1	<1	<0.5	NT
MW-07	04/11/96	Cooper	<0.6	<1	<1	<1	<1	<1	<1	<1	<1	NT
	10/23/96	Cooper	<0.6	<1	<1	2.9	1.9	1.3	1.2	<1	4.1	NT
	11/10/00	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	0.877	NT
	03/22/01	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	0.525	NT
	07/07/01	KSA	<0.5	NT	<0.5	<.2	<2	<0.5	<1	<1	<0.5	NT
MW-08	04/11/96	Cooper	77	<1	93	3.6	**48**	190	140	**47**	267	NT
	10/23/96	Cooper	**140**	**5.8**	38	**170**	34	4.2	60	**47**	53	NT
	11/10/00	KSA	**634**	4.8	94	25.3	**63.3**	10.4	214	59.5	220	NT
	03/22/01	KSA	**10**	<2.5	101	<1	**73.5**	2.87	401	107	13.5	NT
	07/07/01	KSA	**132**	<0.5	40.5	<0.2	4.79	1.13	23.5	3.62	38.8	NT
	10/03/01	KSA	**36.8**	<0.5	7.5	0.706	3.09	1.55	6.73	1.81	13.5	NT
	02/14/02	KSA	**1310**	<10	351	42.4	**245**	48.4	508	133	612	NT
	10/18/02	KSA	**768**	<0.5	102	42.2	**68**	21	310	101	152	NT
	11/12/2003	KSA	**1850**	NT	566	<20	**4080**	121	**2250**	**1020**	952	
	9/2/2004	KSA	**542**	NT	242	<10.2	**99.7**	<100	160	<100	471	NT
NR 140 Enforcement Standard			5	5	700	60	40	1,000	480		10,000	15
NR 140 Preventative Action Limit			0.5	0.5	140	12	8	200	96		1,000	1.5

Table 1
Summary of Groundwater Quality Test Results
Mid-Lakes FS Co-op
Francis Creek, WI

Well No.	Date	Consultant	Benzene (ug/l)	1,2-Dichloroethane (ug/l)	Ethylbenzene (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	Toluene (ug/l)	1,2,4-Trimethyl-benzene (ug/l)	1,3,5-Trimethyl-benzene (ug/l)	Total Xylene (ug/l)	Dissolved Lead (ug/l)
MW-09	04/11/96	Cooper	**19,000**	**520**	**1,800**	<100	**510**	**10,000**	**1,200**	**330**	**7,500**	NT
	Duplicate	Cooper	**19,000**	**520**	**1,900**	<100	**610**	**11,000**	**1,300**	**370**	**7,800**	NT
	MW-09 removed during interim soil remediation: 10/23 Recovery sump installed in approximately same location as MW-09 on 10/26/00											
Recovery Sump	11/10/00	KSA	**1,790**	**107**	254	**517**	<20	380	275	77.8	**1,160**	NT
	03/22/01	KSA	**1,910**	**293**	167	**1610**	<100	51.5	112	<50	382	NT
	07/07/01	KSA	**2,250**	**49.4**	38.2	**1480**	<2	<0.5	31.1	1.83	43.8	NT
	10/03/01	KSA	**1,920**	**129**	183	**331**	37.7	56.3	54.6	<10	66.1	NT
	02/14/02	KSA	**1,480**	**399**	87.5	**524**	52.8	56.9	131	12.8	292	NT
	10/18/2002	KSA	Unable to Sample Debris in Sump									
MW-10	04/11/96	Cooper	<0.6	<1	1.4	<1	**49**	<1	140	52	63	NT
	10/23/96	Cooper	<0.6	<1	<1	<1	1.9	<1	6.1	5.1	5.5	NT
	Duplicate	Cooper	<0.6	<1	<1	<1	1.4	<1	6	5.2	6	NT
	11/10/00	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	07/07/01	KSA	<0.5	NT	<0.5	<.2	<2	<0.5	<1	<1	0.748	NT
MW-11	10/23/96	Cooper	<0.6	<1	<1	1.7	<1	1.3	<1	<1	<1	NT
	11/10/00	Could not locate MW-11										
MW-12	10/23/96	Cooper	<0.6	<1	<1	<1	<1	<1	<1	<1	<1	NT
	11/10/00	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	03/22/01	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	07/07/01	KSA	<0.5	NT	<0.5	<.2	<2	<0.5	<1	<1	<0.5	NT
MW-13R	07/07/01	KSA	**10.3**	NT	16.2	10.3	**51.4**	0.541	47.6	20	22.7	NT
	10/03/01	KSA	<0.5	NT	<0.5	2.99	<2	<0.5	<1	<1	<0.5	NT
	02/14/02	KSA	<0.5	<0.5	<0.5	0.52	<2	<0.5	<1	<1	<0.5	NT
	10/18/2002	KSA	<0.5	<0.5	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	2/13/2002	KSA	3.32	NT	1.65	<8	<5	<5	<5	<5	<5	NT
MW-14	11/12/2003	KSA	Dry - not sampled									
	9/2/2004	KSA	**81.1**	NT	25.6	4.88	16.33	<5	32.9	<5	11.4	NT
TPW-30	12/09/99	Cooper	0.13	NT	<0.22	<0.16	NT	1.3	0.43	<0.29	0.63	NT
Geenen Residence 508 Birchwood	11/10/00	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
Ney Residence 511 Birchwood	11/10/00	KSA	<0.5	NT	<0.5	0.502	<2	<0.5	<1	<1	<0.5	NT
	01/07/01	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
Hagenow Residence 208 Lilac	11/10/00	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
U.S. Post Office Well 516 Forest Home Drive	03/22/01	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
	02/14/02	KSA	<0.5	NT	<0.5	<0.2	<2	<0.5	<1	<1	<0.5	NT
NR 140 Enforcement Standard			5	5	700	60	40	1,000	480		10,000	15
NR 140 Preventative Action Limit			0.5	0.5	140	12	8	200	96		1,000	1.5

Notes:
NT - Not Tested
Cooper - Cooper Environmental & Engineering Resources, Inc.
KSA - K. Singh & Associates, Inc.

Bold values indicate exceedance of NR 140 ES