Scanned 6/9/04

GIS REGISTRY INFORMATION

SITE NAME:	Camd North Shop						
BRRTS #:	03-41-001373			**FID #** (if appropriate):			
COMMERCE # (if appropriate):	53209-3539-70 - A						
CLOSURE DATE:	February 03, 2004						
STREET ADDRESS:	6270 N Hopkins St						
CITY:	Milwaukee						
SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):		**X =**	685386		**Y =**	297346	
CONTAMINATED MEDIA:	Groundwater		Soil		Both	X	
OFF-SOURCE GW CONTAMINATION >ES:		Yes			No	X	
• **IF YES, STREET ADDRESS:**							
• **GPS COORDINATES** (meters in WTM91 projection):	**X =**			**Y =**			
OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL):		Yes			No	X	
• **IF YES, STREET ADDRESS 1:**							
• **GPS COORDINATES** (meters in WTM91 projection):	**X =**			**Y =**			
CONTAMINATION IN RIGHT OF WAY:	Yes			No	X		

DOCUMENTS NEEDED

Closure Letter, and any conditional closure 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	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)	
RP certified statement that legal descriptions are complete and accurate	X
Copies of off-source notification letters (if applicable)	
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)	
Copy of (soil or land use) deed restriction(s) or deed notice *if any required as a condition of closure*	

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
101 West Pleasant Street, Suite 100A
Milwaukee, Wisconsin 53212-3963
TDD #: (608) 264-8777
Fax #: (414) 220-5374
http://www.commerce.state.wi.us
http://www.wisconsin.gov
Jim Doyle, Governor
Cory L. Nettles, Secretary

Wisconsin
Department of Commerce

February 3, 2004

Mr. Tim Detzer
Department of Public Works
Milwaukee County
City Campus, Room 216
2711 West Wells Street
Milwaukee, WI 53208

RE: **Final Closure**

Commerce # 53209-3539-70-A WDNR BRRTS # 03-41-001373
CAMD North Shop, 6270 North Hopkins Street, Milwaukee

One 3,000-gallon diesel underground storage tank (W-1) removed in 1990

Dear Mr. Detzer:

The Wisconsin Department of Commerce (Commerce) has received all items required as conditions for closure of the site referenced above. This case is now listed as "closed" on the Commerce database and will be included on the Wisconsin Department of Natural Resources (WDNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual soil and groundwater contamination. It is in your best interest to keep all documentation related to the environmental activities that were conducted.

If residual contamination is encountered in the future, it must be managed in accordance with all applicable state and federal regulations. If it is determined that any remaining contamination poses a threat, the case may be reopened and further investigation or remediation may be required.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (414) 220-5376.

Sincerely,

Linda M. Michalets
Hydrogeologist
Site Review Section

cc: Mr. Mukesh Jain, K. Singh & Associates, Inc.
Case File

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
101 West Pleasant Street, Suite 100A
Milwaukee, Wisconsin 53212-3963
TDD #: (608) 264-8777
Fax #: (414) 220-5374
http://www.commerce.state.wi.us
http://www.wisconsin.gov
Jim Doyle, Governor
Cory L. Nettles, Secretary

Wisconsin
Department of Commerce

April 2, 2003

Mr. Tim Detzer
Milwaukee County Department of Public Works
Environmental Services Division
2711 West Wells Street
Milwaukee, WI 53208

RE: **Conditional Case Closure**

Commerce # 53209-3539-70-A WDNR BRRTS # 03-41-001373
CAMD North Shop, 6270 North Hopkins Street, Milwaukee
One 3,000-gallon diesel underground storage tank (W-1) removed in 1990

Dear Mr. Detzer:

The Wisconsin Department of Commerce (Commerce) has reviewed the request for case closure prepared by your consultant, K. Singh & Associates, Inc., for the site referenced above. It is understood that residual soil and groundwater contamination remains on-site. Commerce has determined that this site does not pose a significant threat to the environment and human health. No further investigation or remedial action is necessary.

The following condition must be satisfied to obtain final closure:

- Monitoring well MW-1 must be properly abandoned and the appropriate documentation forwarded to me at the letterhead address.

This letter serves as your written notice of "no further action". Timely filing of your final PECFA claim (if applicable) is encouraged. If your claim is not received within 120 days of the date of this letter, interest costs incurred after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (414) 220-5376.

Sincerely,

Linda M. Michalets
Hydrogeologist
Site Review Section

cc: Mr. Mukesh Jain, K. Singh & Associates, Inc.
Case File

CMP - Dark Shop

(Seal) W. D. Millard
Notary Public, Cook County, Illinois
My commission expires May 11/1916.

State of Wisconsin } ss
County of Milwaukee } Personally came before me, this 29th day of April 1915, the above named E. H. Adams, Secretary of the Chicago, Milwaukee and St. Paul Railway Company, to me known to be the person who executed the foregoing instrument, and acknowledged the same.

17-50 Stamp 4-41 cancelled

Recorded May 15-1915 at 11 o'clock A.M. } No. 8.36009 (Seal)
Edw. W. Miller Register

A. E. Rossbach
Notary Public,
Milwaukee County, Wisconsin.
My commission expires Oct. 1. 1915

F. Boehlke ux — to — Milwaukee County

Warranty Deed

This Indenture, Made this third day of May in the year of our Lord one thousand nine hundred and fifteen between Frederick Boehlke and Pauline Boehlke his wife of the County of Milwaukee and State of Wisconsin parties of the first part, and Milwaukee County in the State of Wisconsin party of the second part. Witnesseth, That the said parties of the first part, for and in consideration of the sum of Fourteen Hundred ($1400.00) Dollars, in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged, and the said party of the second part forever released and discharged therefrom, have granted, bargained, sold, remised, released, conveyed, aliened and confirmed, and by these presents do grant, bargain, sell, remise, release, convey, alien and confirm, unto the said party of the second part, and to its successors and assigns forever, all the following described lot, piece, or parcel of land situated in the County of Milwaukee and State of Wisconsin and known and described as follows, to wit: All that part of the North West quarter of the North East Quarter of Section twenty Six (26) in Township Eight (8) North, of Range twenty one (21) East lying South of the right of way of the Chicago & North Western Railway Company and Easterly of a line drawn parallel with and distant fifty feet Westerly from the Center line of the Spur rail road track running from the Main tracks of said Railway Company in a Southerly direction to the property of the party of the second part, as said Center line is now located and staked out. The premises hereby conveyed containing Three & 60/100 acres of land. Together with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining, and the reversion and reversions remainder and remainders, rents, issues and profits thereof; and all the estate, right, title, interest, claim, and demand whatsoever, of the said parties of the first part, either in law or equity, of, in and to the above bargained premises, with the hereditaments and appurtenances: To Have and to Hold the said premises above bargained and described, with the appurtenances, unto the said party of the second part, its successors and assigns.

Approved as to form and execution this 15th day May 1915 Wm. F. Bleh Asst. Dist. Atty.

Filed in County Clerk's Office May 15th 1915 Edw. W. Miller County Clerk

1-71 Stamp 1-50 cancelled

T. J. Pereles + W. to Milwaukee County

WARRANTY DEED

This Indenture, Made this nineteenth (19th) day of July, in the year of our Lord, one thousand nine hundred and Twelve (1912), between Thomas J. Pereles and Nellie H. Pereles his wife, of Milwaukee, Wisconsin, part — of the first part, and Milwaukee County, State of Wisconsin, part y of the second part,

WITNESSETH, That the said part y of the first part, for and in consideration of the sum of thirty nine thousand two hundred thirty three and 40/100 Dollars to them in hand paid by the said part y of the second part, the receipt whereof is hereby confessed and acknowledged, ha ve given, granted, bargained, sold, remised, released, aliened, conveyed and confirmed, and by these presents do give, grant, bargain, sell, remise, release, alien, convey and confirm unto the said part y of the second part its successors ~~heirs~~ and assigns, forever, the following described real estate, situated in the county of Milwaukee and State of Wisconsin, to-wit: The North half (1/2) of the Northwest quarter (1/4) of the Southeast quarter (1/4) of Section 26 Town 8 North, Range 21 East, excepting a triangular piece cut away from the Southwest corner by Chicago, Milwaukee & St. Paul Railway Company and ground covered by track of said railroad, leaving about nineteen (19) acres, more or less. That part of the Northeast quarter (1/4) of the Southwest quarter (1/4) quarter of Section 26, Town 8 North, Range 21 East lying on the North side of said railroad and containing about one and forty hundredths (1.40) acres more or less. That part of the East half (1/2) of the Northwest quarter (1/4) of Section 26, Town 8 North, Range 21 East bounded and described as follows:- Commencing at the Southeast corner of said East half of the Northwest quarter (1/4) of said section running thence North on the quarter (1/4) section line 25.82 chains; thence West on a line and parallel with the North and South line of said quarter (1/4) section 19.655 chains to a point thence South 8.47 chains to the Milwaukee & La Crosse railroad track; thence in a Southeasterly direction along said railroad track to the South line of said East half (1/2) of said quarter (1/4) section; thence East along said South line 7.095 chains to place of beginning, containing 35.349 acres of land more or less. All that part of the South half (1/2) of the Northeast quarter (1/4) of section 26 Town 8 North, Range 21 East, which lies West of the so called Hopkins Road, as said road is now laid out and located, containing 62 acres of land, more or less.

TOGETHER with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining, and all the estate, right, title, interest, claim or demand whatsoever, of the said part y of the first part, either in law or equity, either in possession or expectancy of, in and to the above bargained premises, and their hereditaments and appurtenances.

TO HAVE AND TO HOLD the said premises as above described, with the hereditaments and appurtenances, unto the said part y of the second part, and to his heirs and assigns FOREVER.

AND THE SAID party of the first part for themselves their heirs, executors and administrators, do covenant, grant, bargain and agree to and with the said part y of the second part, its successors ~~heirs~~ and assigns, that at the time of the ensealing and delivery of these presents they are well seized of the premises above described, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in the law, in fee simple, and that the same are free and clear from all incumbrances whatever,

and that the above bargained premises in the quiet and peaceable possession of the said part y of the second part, its successors ~~heirs~~ and assigns, against all and every person or persons lawfully claiming the whole or any part thereof, they will forever WARRANT AND DEFEND.

IN WITNESS WHEREOF, the said part y of the first part ha ve hereunto set their hand s and seal s this day and year first above written.

Signed, Sealed and Delivered in Presence of
Jennie H. Pereles
N. Pereles Jr.

Thos Jefferson Pereles [SEAL]
Nellie H. Pereles [SEAL]
[SEAL]

STATE OF WISCONSIN, Milwaukee County } ss.

Personally came before me this 19th day of July A. D. 1912, the above named Thomas J. Pereles and Nellie H. Pereles, his wife to me known to be the person s who executed the foregoing instrument, and acknowledged the same.

Received for Record this 23 day of Oct. A. D. 1917, at 4 15 o'clock P. M.

Edw. H. Mueller Register.

Notary Public, Milwaukee County, Wis.

My commission expires Sept 12 1915

No 922929

Ella Eggert et al — WARRANTY DEED. — to — Milwaukee County

CAMD-North Shop

1-50¢ Stamp
7-1¢ "
Cancelled

This Indenture, Made this 16th day of January, in the year of our Lord, one thousand nine hundred and Nineteen, between Ella E. Eggert & William Eggert — part ies of the first part, and Milwaukee County, a municipal corporation in the State of Wisconsin part y of the second part,

WITNESSETH, That the said part ies of the first part, for and in consideration of the sum of Seven Thousand Five Hundred ($7.500) Dollars to them in hand paid by the said part y of the second part, the receipt whereof is hereby confessed and acknowledged, ha ve given, granted, bargained, sold, remised, released, aliened, conveyed and confirmed, and by these presents do give, grant, bargain, sell, remise, release, alien, convey and confirm unto the said part y of the second part its successors and assigns, forever, the following described real estate, situated in the county of Milwaukee and State of Wisconsin, to-wit: All that part of the East One-half (E 1/2) of the North One-half (N 1/2) of the North East Quarter (N.E. 1/4) of Section numbered Twenty-Six (26) in Township numbered Eight (8) North, of Range numbered Twenty-one (21) East, in the Town of Granville which lies South of the right of way of Milwaukee Sparta and North Western Railway Company.

TOGETHER with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining; and all the estate, right, title, interest, claim or demand whatsoever, of the said part ies of the first part, either in law or equity, either in possession or expectancy of, in and to the above bargained premises, and their hereditaments and appurtenances.

TO HAVE AND TO HOLD the said premises as above described, with the hereditaments and appurtenances, unto the said part y of the second part, and to its successors heirs and assigns FOREVER.

AND THE SAID Ella Eggert and William Eggert for their heirs, executors and administrators, do covenant, grant, bargain and agree to and with the said part y of the second part, its successors heirs and assigns, that at the time of the ensealing and delivery of these presents they were well seized of the premises above described, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in the law, in fee simple, and that the same are free and clear from all incumbrances whatever, and that the above bargained premises in the quiet and peaceable possession of the said part y of the second part, its successors heirs and assigns against all and every person or persons lawfully claiming the whole or any part thereof, they will forever WARRANT AND DEFEND.

IN WITNESS WHEREOF, the said part ies of the first part ha ve hereunto set their hand s and seal s this 16th day of January, A. D. 1919.

Signed, Sealed and Delivered in Presence of

A. B. Cope
Daniel W. Sullivan

Ella Eggert [SEAL]
William Eggert [SEAL]
[SEAL]

STATE OF WISCONSIN, } ss.
Milwaukee County,

Personally came before me this 16th day of January A. D. 1919, the above named Ella E. Eggert and William Eggert to me known to be the person s who executed the foregoing instrument, and acknowledged the same.

A. B. Cope
Notary Public, Milwaukee County, Wis.
My commission expires Oct. 5 1919.

Imp
Notary Seal

Received for Record this 16 day of Jan A. D. 1919, at 1 20 o'clock P. M.
Richard Elsner, Register.
No. 884121

The within is hereby approved as to form and execution this 16 day of January 1919. Daniel W. Sullivan Assistant District Attorney

John C. Hrisdorf rw to Milwaukee County

STATE OF WISCONSIN

WARRANTY DEED

This Indenture, Made this ..... day of July, A. D., 1920, between John C. Hrisdorf and Emma Hrisdorf, his wife, of the Town of Richfield, in the County of Washington, State of Wisconsin, part, iss. of the first part, and Milwaukee County, a municipal corporation of the state of Wisconsin part, y of the second part.

1st 5.20 Stamp Cancelled

Witnesseth, That the said part, iss. of the first part, for and in consideration of the sum of Five thousand ($500000) Dollars to them in hand paid by the said part, y of the second part, the receipt whereof is hereby confessed and acknowledged, have given, granted, bargained, sold, remised, released, aliened, conveyed and confirmed, and by these presents do give, grant, bargain, sell, remise, release, alien, convey and confirm unto the said part, y of the second part, its successors and assigns forever, the following described real estate, situated in the County of Milwaukee and State of Wisconsin, to-wit: All that part of the northwest (N.W.¼) quarter of the northeast (N.E.¼) of Section twenty six (26), Township number eight (8), north of range number twenty one (21) east, lying south of the rightofway of the Milwaukee Sparta & Northwestern Railway Co., excepting that portion heretofore conveyed by warranty deed by Frederick Boehlke and Pauline Boehlke, his wife, to Milwaukee County on May 3rd, 1915, which said deed was recorded on the 15th day of May, 1915, in Volume 701 of Deeds, at page 137 (Document No. 836,036).

Together with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining; and all the estate, right, title, interest, claim or demand whatsoever, of the said part, iss. of the first part, either in law or equity, either in possession or expectancy of, in and to the above bargained premises, and their hereditaments and appurtenances.

To have and to hold the said premises as above described with the hereditaments and appurtenances, unto the said part, y of the second part, and to its successors and assigns FOREVER.

And the said John C. Hrisdorf for his heirs, executors and administrators, do covenant, grant, bargain and agree to and with the said part, y of the second part, its successors and assigns, that at the time of the ensealing and delivery of these presents he was and is well seized of the premises above described, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in the law, in fee simple, and that the same are free and clear from all incumbrances whatever, and that the above bargained premises in the quiet and peaceable possession of the said part, y of the second part, its successors and assigns, against all and every person or persons lawfully claiming the whole or any part thereof, he will forever WARRANT AND DEFEND.

In Witness Whereof, the said part, iss. of the first part have hereunto set their hands and seals this 1st day of July, A. D., 1920.

SIGNED AND SEALED IN PRESENCE OF

Matt J. Guenther

Daniel W. Sullivan

John C. Hrisdorf (Seal)

Emma Hrisdorf (Seal)

(Seal)

(Seal)

STATE OF WISCONSIN, Milwaukee County, } ss. Personally came before me, this 1st day of July, A. D., 1920, the above named John C. Hrisdorf and Emma Hrisdorf, his wife to me known to be the persons who executed the foregoing instrument and acknowledged the same.

Received for record this 1 day of July A. D., 1920, at 3 o'clock P. M.

Richard Elsner, Register.

Notarial Seal

Matt J. Guenther

Notary Public Milwaukee County, Wis.

My Commission expires Nov. 23rd A. D., 1920

No. 1043719

The within is hereby approved as to form and execution this 1st day of July 1920
Daniel W. Sullivan
Assistant District Attorney

CAMO North Street

F. F. FISCHER & W. — WILW. 1.

This Indenture, Mail B. Fischer and Anna Fischer, his wife

Milwaukee — Milwaukee County

Five Hundred and no/100 ($500.00) Dollars — Milwaukee — Milwaukee

A part of the east half of the north half of the northeast quarter of section 26, township 8 north, range 21 east, which lies north of the right-of-way of the Milwaukee, Sparta and Northwestern Railway Company, bounded and described as follows, to-wit: Commencing at a point on the north line and 73.22 feet west of the northeast corner of the northeast quarter of said section 26, township 8 north, range 21 east, running thence west along the north line of said quarter section 78.75 feet to a point in the center line of the Hopkins Road, thence south along the center line of the Hopkins Road, 272.70 feet to a point, thence east 24.75 feet to a point, thence northeasterly 284.25 feet on a straight line to the placeof commencement, containing 0.324 acres of landmore or less.

Said sum of $500.00 being in full payment for the lands hereby conveyed and for all trees, shrubs and fences and for all damages of every kind to the remaining land of said grantors.

In Witness Whereof, ... their ... 19th May 31

Mail B. Fischer — SEAL

Chas. H Krohn — Anna Fischer — SEAL

E. A. Strothman — SEAL

State of Wisconsin, — SEAL

Milwaukee — 19th May 31

Mail B. Fischer and Anna Fischer, his wife

1 June — Imp. — E. A. Strothman

31 4:20 P. — Milwaukee

Phillip C. Westfahl — 1851027 — July 19th 31

F. O. HACKBARTH — TO — S. HANSON & W.

This Indenture, Frank O. Hackbarth, unmarried,

Milwaukee — Selmer Hanson and Olga Hanson, his wife, as husband and wife, and to the survivor of either of them.

Milwaukee

One Dollar ($1.) and other good and valuable consideration. — Milwaukee

That part of the south west 1/4 section 32, Town 8 North, Range 21 East, Town of Granville, bounded and described as follows, to-wit: Commencing at a point 665.5 feet north of the south line and 990. feet East of the west line of said 1/4 section, thence east parallel to the south line of said 1/4 section 338.25 feet to a point, thence north 132. feet to a point, thence west parallel to the south line of said 1/4 section 338.20 feet to a point, thence south parallel to the west line of said 1/4 section 132. feet to the place of beginning, containing one (1) Acre, more or less, reserving the east 25. feet for public highway.

This Deed is given in fulfillment of a certain unrecorded land contract dated on the 20th day of May, 1929.

In Witness Whereof ... his 23rd May 31

Frank O. Hackbarth — SEAL

Meta Harwitz — SEAL

J.G. Deves — SEAL

State of Wisconsin, — May 31

Milwaukee — 23rd

Frank O. Hackbarth, unmarried

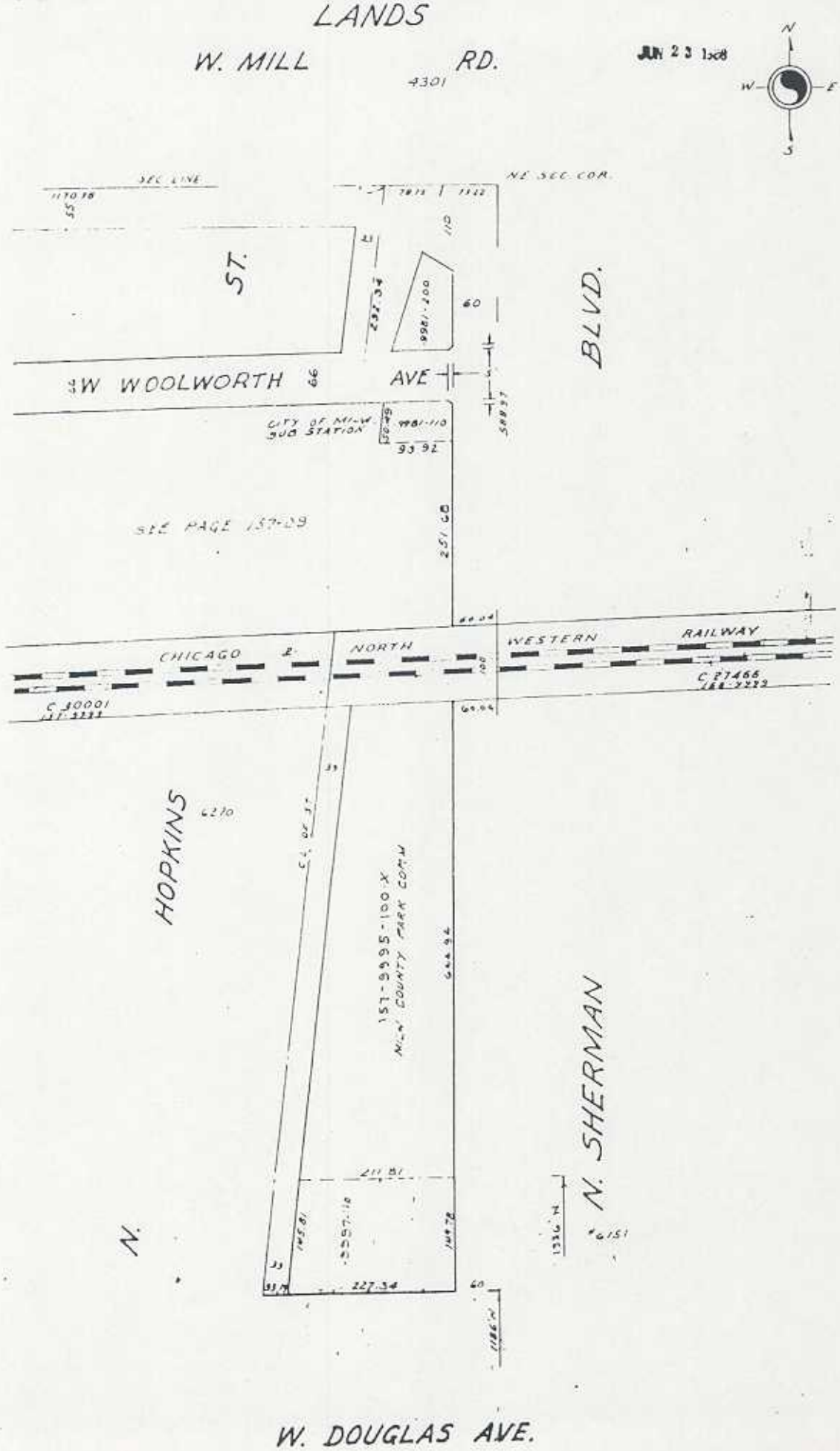
NE 26-8-21
ATL P 157

157

157-10

1 IN. = 150 FT.

JUN 23 1968



DEPARTMENT OF PUBLIC WORKS

Milwaukee County

DAVID A. NOVAK, P.E. • DIRECTOR
• HIGHWAY COMMISSIONER

October 7, 2002

Mukesh Jain, Ph.D.
K. Sing & Associates
1135 Legion Drive
Elm Grove, WI 53122

Subject: Additional Information Required for Case Closure
Washington Park Service Yard, 1849 North 40th Street, Milwaukee, WI
CAMD North Shop, 6270 North Hopkins Street, Milwaukee, WI

Dear Mr. Jain:

Please find enclosed the information you requested for the GIS registry packet for case closure documentation of the above listed sites.

No geologic cross-sections were developed for Washington Park. K. Singh & Associates will provide post remedial soil sampling results and sample location maps for Washington Park.

Washington Park

Taxkey # 347-9999-111-1
1849 North 40th Street
Milwaukee, WI

Legal Description
LEGALS LANDS IN NE 1/4 SEC 23 & NW 1/4 SEC 24-7-21
DESCRIPTION LANDS BETW (S LI SD 1/4 SECTIONS-W LI WEST PARK SUBD-W
LISBON AVE-W LLOYD ST & X-WAY) & PART (BLK 3 WEST PARK SUBD)
EXC STS & PART (PARK ENVIRONS & VAC N 43RD ST) EXC ST

Fleet Management-North Shop (formerly CAMD-North Shop)

Taxkey # 157-9995-110-7
6270 North Hopkins Street
Milwaukee, WI

Legal Description
LEGALS LANDS IN NE 1/4 SEC 26-8-21
DESCRIPTION THAT PART OF LANDS BETW ROW OF CNW RY CO-N SHERMAN BLVD- A
LI DRAWN 1336' N OF & PAR TO S LI OF SD 1/4 SEC & ELY 33' OF
VAC N HOPKINS ST

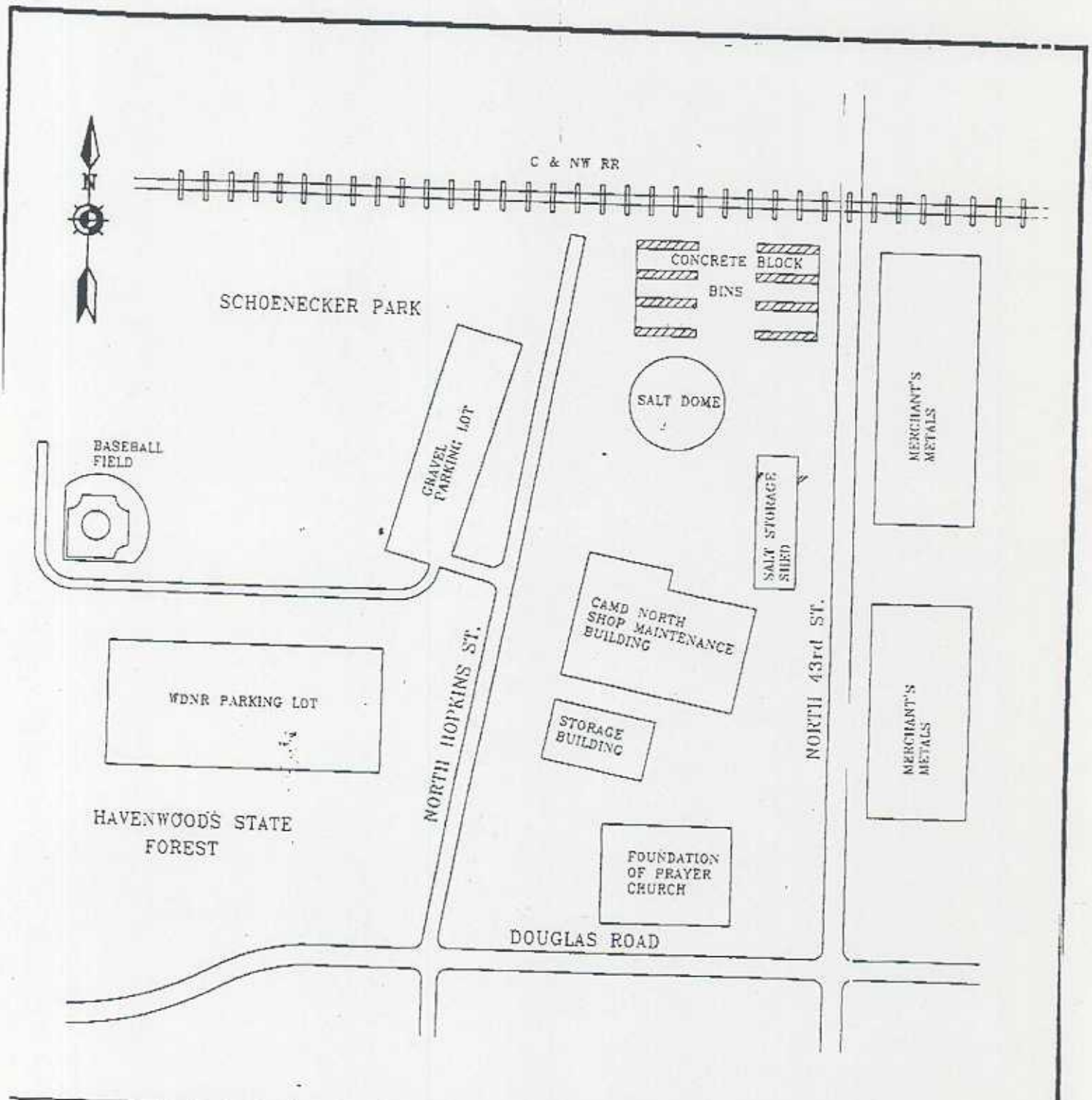
If you require any further information please contact me at (414) 278-2988.

Sincerely,

Tim Detzer
Environmental Engineer
Milwaukee County DPW-Environmental Services

Attachments:

1. Deeds: CAMD North Shop
2. Quarter Section Drawing: CAMD North Shop
3. Deeds: Washington Park
4. Quarter Section Drawing: Washington Park
5. Tank Closure Soil Sampling Analytical Results (January 3, 1991)
6. Tank Closure Soil Sampling Location Map (*Excavation Site Location*, Fig. 6-1, 6/8/93)
7. Soil Excavation Sampling Analytical Results (Table 4-2, *Analytical Results of Soil Samples of Washington Park Site*)
8. Soil Excavation Sampling Location Map (*Excavation Pit Site Location*, Fig. 3-1, 4/26/94)
9. Additional Borings/Well Installation Soil Sampling Analytical Results (Table 1, *Analytical Results, Washington Park Soil Samples)*
10. Additional Borings/Well Installation Soil Sampling Location Map (*Excavation Pit Site Location*, Fig. 1, 12/12/94)

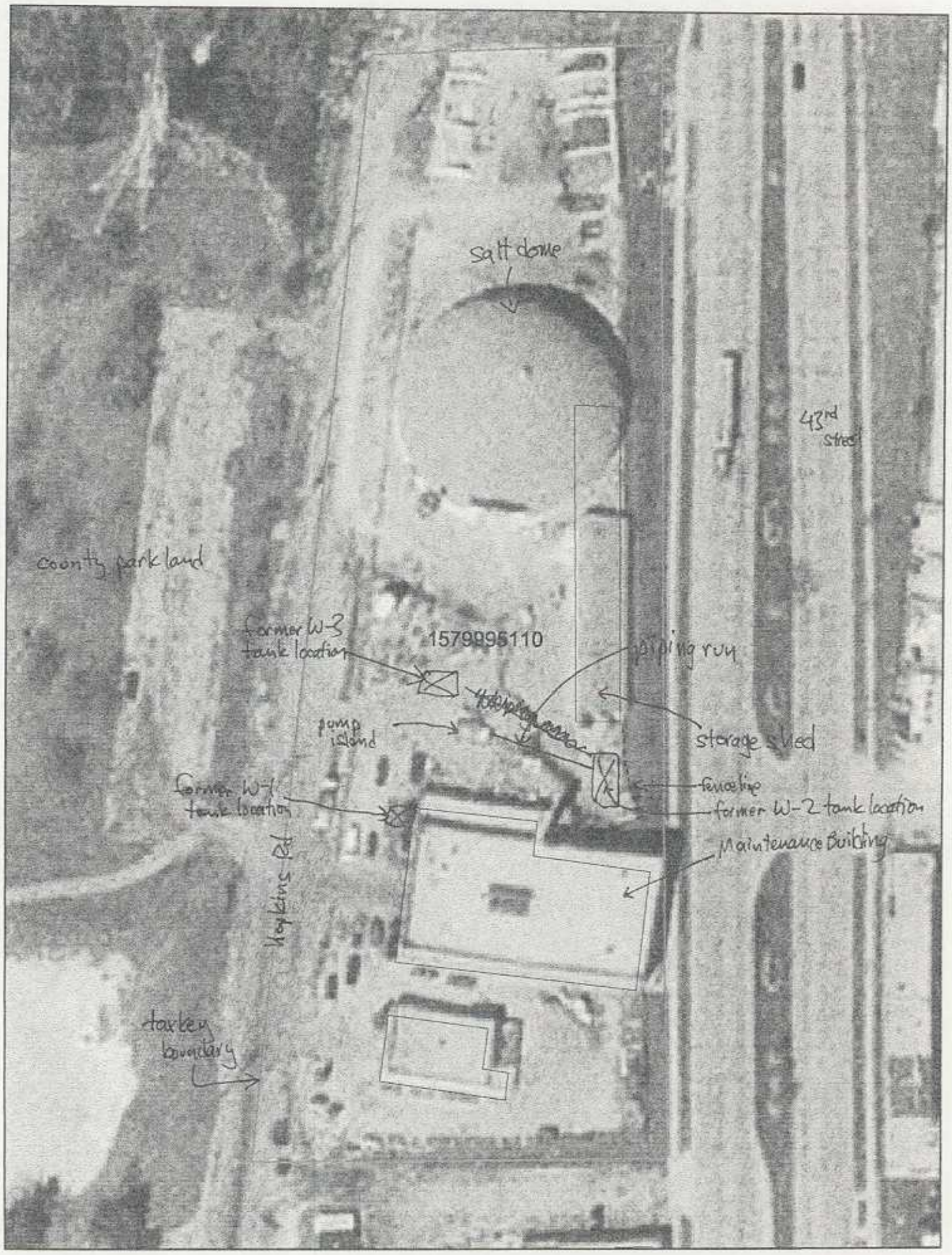


NOT TO SCALE

PROJECT NAME: NORTH MAINTENANCE & SERVICE GARAGE
6270 & 6237 NORTH HOPKINS STREET
MILWAUKEE, WISCONSIN
PROJECT H228-9999-34

MILWAUKEE COUNTY
DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL SERVICES

Site Vicinity Map | Figure 2


salt dome
43rd
county park land
former W-3
tank location
1579995110
piping run
pump
island
storage shed
former W-1
tank location
fenceline
former W-2 tank location
Maintenance Building
Hopkins Rd
darker
boundary

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

TABLE 1
Groundwater Monitoring Data
CAMD North Shop
Monitoring Well MW-1

Parameter	Jan-97	Jun-97	Oct-97	Jan-98	Apr-98	Aug-98	Oct-98	Feb-99	May-99	Aug-99	Dec-99	Mar-00	Oct-01	May-02	PAL	ES
unit	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
DRO	100	95	153	68	235	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	-
GRO	53	47	620	<14	240	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	-
Total TMB	<1.0	<1.0	<3.4	<1.4	<3.4	<1.4	<1.4	<2.0	<2.0	<2.0	<2.0	<0.99	<2.0	<2.0	96	480
Benzene	*33*	***356***	***415***	*2.8*	***238***	***231***	*4.5*	<0.5	<0.5	***140***	<0.5	<0.32	<0.5	***14.8***	0.5	5
Ethylbenzene	0.9	7	6.3	<0.7	<1.7	7.1	2.6	<0.5	<0.5	<0.5	<0.5	<0.34	<0.5	<0.5	140	700
MTBE	<0.1	<0.1	<0.9	<0.4	<0.9	<0.4	<0.4	<0.2	<0.2	<0.2	<0.2	<0.31	***684***	0.292	12	60
Toluene	1.5	0.8	<1.7	<0.7	<1.7	4.1	<0.7	<0.5	<0.5	0.65	<0.5	<0.35	<0.5	0.511	200	1,000
Total Xylenes	<1.2	<1.2	<5.0	<2.0	<5.0	3.1	4.2	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	1,000	10,000

Bold Italic: Exceeds NR 140 ES
Italic: Exceeds NR 140 PAL
NA: Not Analyzed

Table 3-2 Summary of Soil Chemistry Data for CAMD North Shop (1994 Data)

Analyte	NR720 Soil Cleanup Standards (mg/kg)	General Sample Location and Purpose: W-1 Soil Excavation Closure Documentation; Sample Number, Depth (feet), and Date Collected							
		DS-1-W1 11/29/94	CS-2-W1 13 ft. 11/30/94	CS-3-W1 16 ft. 11/30/94	CS-4-W1 16 ft. 11/30/94	CS-5-W1 13 ft. 11/30/94	CS-6-W1 13 ft. 11/30/94	DS-7-W1 11/30/94	CS-8-W1 10 ft. 11/30/94
		Concentrations (mg/kg)							
DROs	100	29	6000	6.6	5.8	18	<5.0	760	11
Heavier than DRO		NP	NP	NP	NP	NP	NP	NP	NP
GROs	100	7.3	400	17	<5.6	53	<5.6	1600	39
Heavier than GRO		NP	NP	NP	NP	NP	NP	NP	NP
Benzene	0.0055	0.38	1.3	0.71	0.53	1.3	0.17	0.41	0.059
Ethylbenzene	2.9	0.067	5.0	<0.0056	<0.0062	0.24	0.0054	9.8	0.49
MTBE		<0.0056	<0.14	<0.0056	<0.0062	<0.0063	<0.0011	<0.30	<0.0051
Toluene	1.5	0.038	11.0	2.4	0.061	2.4	<0.0011	2.3	0.026
1,2,4-Trimethylbenzene		<0.0056	10.0	<0.0056	<0.0062	0.084	<0.0011	27.0	0.089
1,3,5-Trimethylbenzene		<0.0056	3.1	<0.0056	<0.0062	0.017	<0.0011	11.0	0.033
Xylenes (total)	4.1	<0.011	25.0	<0.011	<0.012	0.58	<0.0021	44.0	0.34
Lead	500	X	X	X	X	X	X	X	X

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Table 3-2 Summary of Soil Chemistry Data for CAMD North Shop (1994 Data)

Analyte	NR720 Soil Cleanup Standards (mg/kg)	General Sample Location and Purpose: W-1 Soil Excavation Closure Documentation; Sample Number, Depth (feet), and Date Collected: CS--9-W1 13 ft. 11/30/94	CS--10-W1 16 ft. 12/01/94	CS-11-W1 12 ft. 12/01/94	CS-12-W1 11 ft. 12/01/94	DS-13-W1 12/02/94	CS-14-W1 12 ft. 12/02/94	CS-15-W1 11 ft. 12/05/94	CS-16-W1 12 ft. 12/05/94
		Concentrations (mg/kg)							
DROs	100	6.8	<5.2	<10	16			62	20
Heavier than DRO		NP	NP	NP	NP			NP	NP
GROs	100	<5.9	<6.0	<5.9	18			880	72
Heavier than GRO		NP	NP	NP	NP			NP	NP
Benzene	0.0055	0.079	<0.0012	0.01	3.7			<2.9	0.34
Ethylbenzene	2.9	<0.0012	<0.0012	<0.0012	0.23			13	1.2
MTBE		<0.0012	<0.0012	<0.0012	<0.15			<2.9	<.14
Toluene	1.5	0.0051	<0.0012	0.0036	<0.15			27.0	0.16
1,2,4-Trimethylbenzene		<0.0012	<0.0012	<0.0012	<0.15			22.0	3.4
1,3,5-Trimethylbenzene		<0.0012	<0.0012	<0.0012	<0.15			6.5	0.78
Xylenes (total)	4.1	0.021	<0.0024	<0.0024	<0.30			68.0	3.7
Lead	500	X	X	X	X	X	X	X	X

HYDRO-SEARCH INC. A Tetra Tech Company

Table 3-2 Summary of Soil Chemistry Data for CAMD North Shop (1994 Data)

Analyte	NR720 Soil Cleanup Standards (mg/kg)	General Sample Location and Purpose										
		W-1 (Extent)					W-2 (Extent)			W-3 (Extent)		
		Sample Number, Depth (feet), and Date Collected										
		SB-01-W1 10-12 ft 06/28/94	SB-02-W1 14-16 ft. 06/28/94	SB-03-W1 16-18 ft. 06/29/94	SB-04-W1 10-12 ft. 06/29/94	SB-05-PR 9-11 ft. 08/19/94	SB-01-W2 18-20 ft. 06/27/94	SB-02-W2 18-20 ft. 06/27/94	SB-03-W2 18-20 ft. 06/27/94	SB-01-W3 18-20 ft. 06/27/94	SB-02-W3 14-16 ft. 06/28/94	SB-03-W3 12-14 ft. 06/28/94
		Concentrations (mg/kg)										
DROs	100	<5.2	<4.6	<5.0	<4.8	X	X	X	X	<5.1	<5.3	<5.3
Heavier than DRO		NP	NP	NP	NP	X	X	X	X	NP	NP	NP
GROs	100	X	X	X	X	X	30	<5.9	31	X	X	X
Heavier than GRO		X	X	X	X	X	NP	NP	NP	X	X	X
Benzene	0.0055	2.3	8.1	<0.0012	<0.0011	<0.15	0.85	1.6	1.7	<0.0012	0.0012	<0.0011
Ethylbenzene	2.9	<0.0027	<0.0051	<0.0012	<0.0011	15.0	1.8	<0.13	3.5	<0.0012	<0.001	<0.0011
MTBE		<0.0027	<0.0051	<0.0012	<0.0011	<0.15	<0.003	<0.13	<0.14	<0.0012	<0.001	<0.0011
Toluene	1.5	0.57	<0.0051	<0.0012	<0.0011	1.8	3.4	<0.13	3.5	<0.0012	0.0055	<0.0011
1,2,4-Trimethylbenzene		<0.0027	<0.0051	<0.0012	<0.0011	<0.15	3.7	<0.13	6.0	<0.0012	<0.001	<0.0011
1,3,5-Trimethylbenzene		<0.0027	<0.0051	<0.0012	<0.0011	14.0	0.92	<0.13	1.8	<0.0012	<0.001	<0.0011
Xylenes (total)	4.1	<0.0054	<0.010	<0.0023	<0.0022	51.0	6.2	<0.25	12.0	<0.0024	0.0055	<0.0023
Lead	500	X	X	X	X	10.1	4.1	3.9	3.1	X	X	X

Notes:

(1) All samples were collected by HSI or HSI subconsultants
(2) Concentrations shown in shaded boxes exceed the corresponding NR720 soil standard
(3) "X" designates that no analysis was performed for the parameter specified
(4) DRO = Diesel Range Organic; GRO = Gasoline Range Organic; MTBE = Methyl tert butyl ether
(5) For DROs and GROs, the soil standard shown above (100 mg/kg) is for sites with high permeability soils.
(6) For lead, the soil standard shown above (500 mg/kg) is for sites zoned for industrial use. A 50 mg/kg would apply at non-industrial sites.

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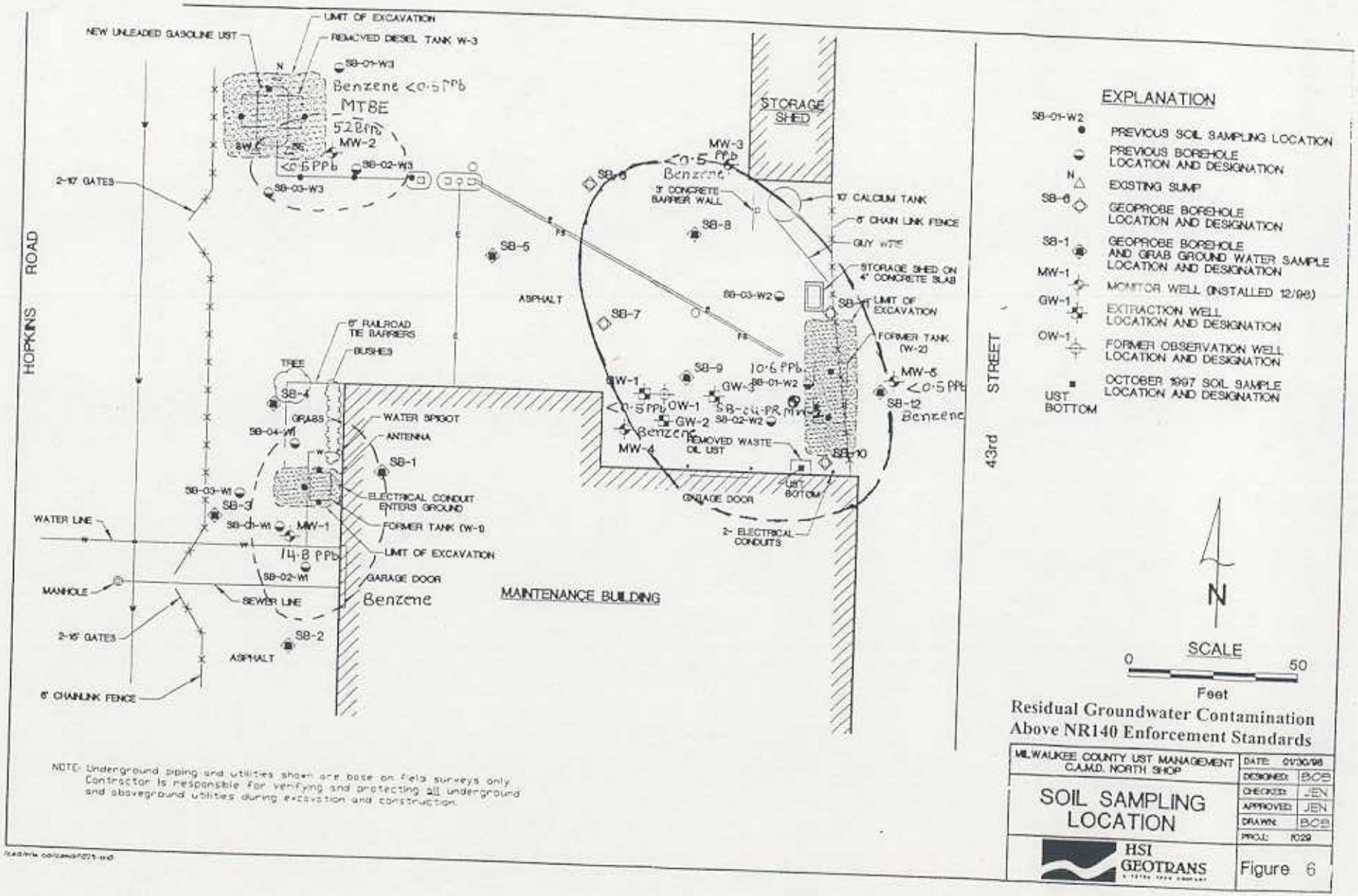


NOTE: Underground piping and utilities shown are base on field surveys only. Contractor is responsible for verifying and protecting all underground and aboveground utilities during excavation and construction.

Residual Groundwater Contamination Above NR140 Enforcement Standards

MILWAUKEE COUNTY UST MANAGEMENT C.A.M.D. NORTH SHOP	DATE: 01/30/98
	DESIGNED: BCB
SOIL SAMPLING LOCATION	CHECKED: JEN
	APPROVED: JEN
	DRAWN: BCB
	PROJ: 1029
HSI GEOTRANS	Figure 6

TABLE 2
Groundwater Elevations Data
CAMD North Shop

Well	Groundwater Elevation MSL (feet)	Top of PVC Elevation MSL (feet)	Depth to Water (top of PVC)						
Date			2/15/99	5/18/99	8/19/99	12/14/99	3/2/00	10/16/01	5/23/02
MW-1	692.25	691.89	14.15	13.55	14.1	16.09	9.51	15.19	14.77
MW-2	691.8	691.37	15.46	14.88	*	17.2	*	16.14	15.2
MW-3	692.3	691.83	14.27	13.35	14.92	16.81	10.29	15.45	14.84
MW-4	692.8	692.19	14.65	14.05	15.1	16.92	16.89	15.53	15.05
MW-5	688.02	687.77	7.55	6.55	9.09	9.08	10.81	10.84	9.86
MW-2(SP-04-PR)	NM	NM	NM	NM	NM	NM	NM	15.78	15.14
Sump	NM	NM	NM	NM	NM	NM	NM	7.84	7.8

Well	Groundwater Elevation (msl) feet	Top of PVC Elevation (msl) feet	Groundwater Elevation (msl)						
Date			2/15/99	5/18/99	8/19/99	12/14/99	3/2/00	10/16/01	5/23/02
MW-1	692.25	691.89	677.74	678.34	677.79	675.8	682.38	676.7	677.12
MW-2	691.8	691.37	675.91	676.49	*	674.17	*	675.23	676.17
MW-3	692.3	691.83	677.56	678.48	676.91	675.02	681.54	676.38	676.99
MW-4	692.8	692.19	677.54	678.14	677.09	675.27	675.3	676.66	677.14
MW-5	688.02	687.77	680.22	681.22	678.68	678.69	676.96	676.93	677.91
MW-2(SP-04-PR)	NM	NM	----	----	----	----	----	----	----
Sump	NM	NM	----	----	----	----	----	----	----

* = MW-2 was not accessible

Notes: msl =mean sea level

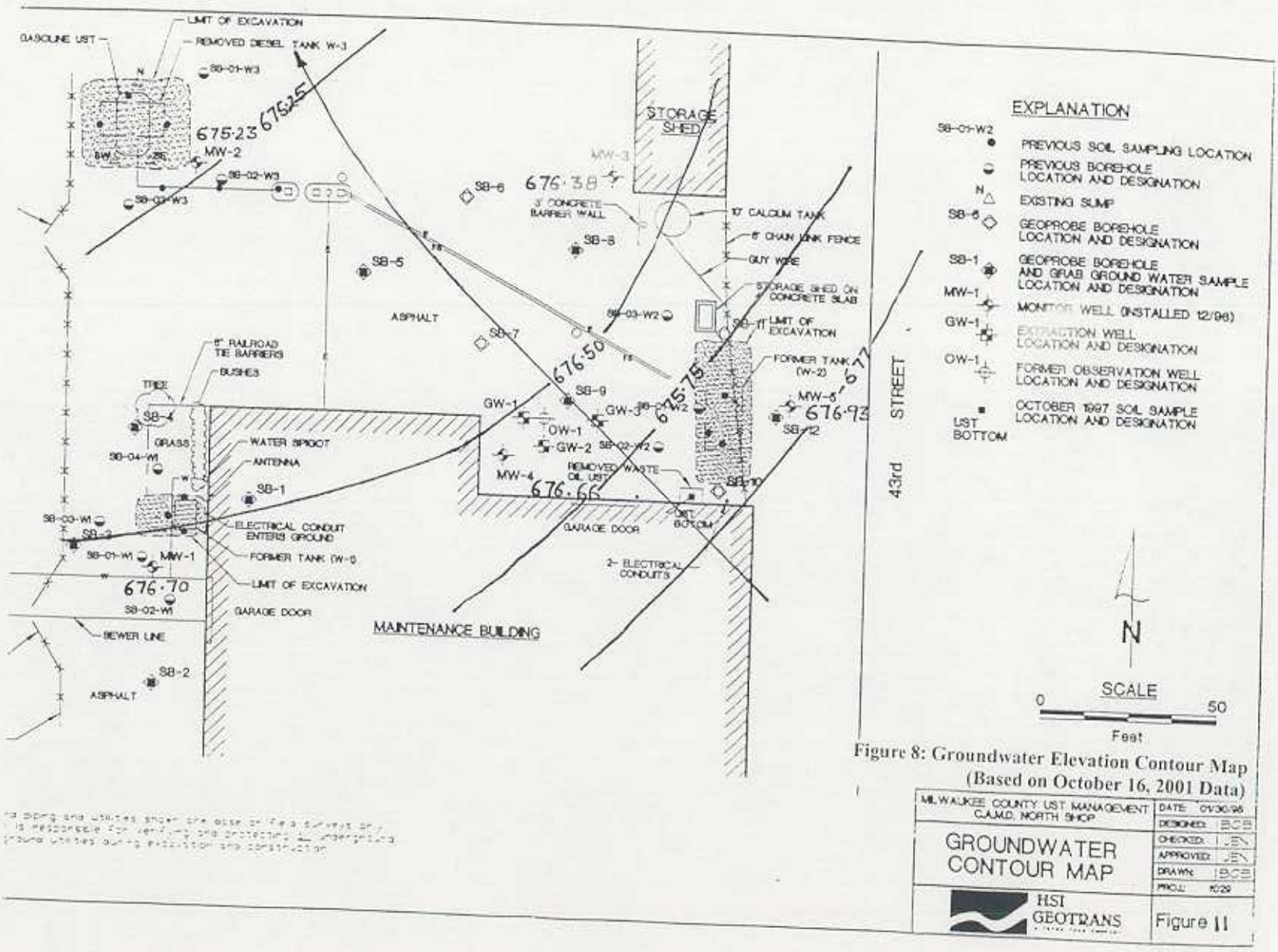
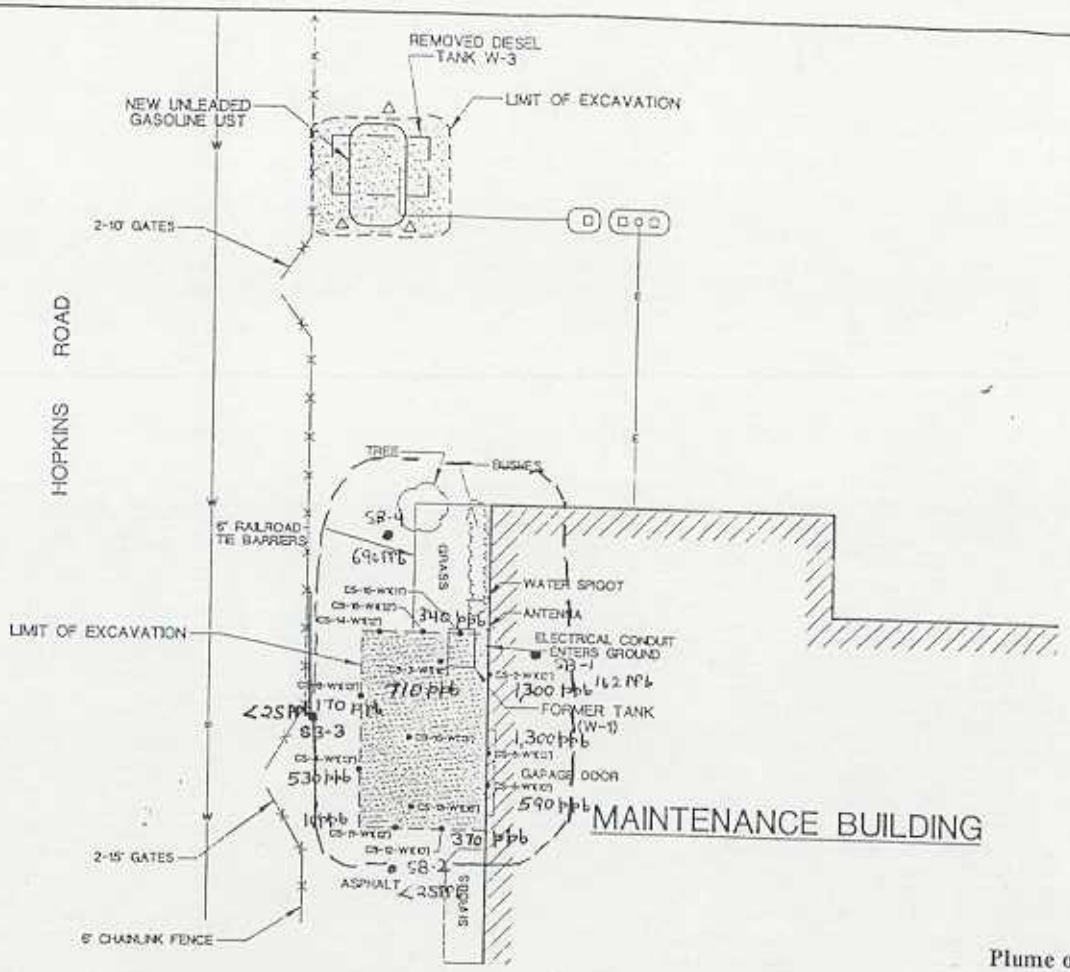


Figure 8: Groundwater Elevation Contour Map (Based on October 16, 2001 Data)



Plume of Benzene Concentrations in Soil Near Former UST W-1

NOTE: Underground piping and utilities shown are base on field surveys only. Contractor is responsible for verifying and protecting all underground and aboveground utilities during excavation and construction.

MLW COUNTY UST MANAGEMENT C.A.M.D. NORTH SHOP (W-1,W-2,W-3)	DATE: 08/27/98
	DESIGNED: BOB
EXCAVATION AND SAMPLING LOCATIONS (UST W-1)	CHECKED: J.F
	APPROVED: J.F
	DRAWN: BOB
	PROJ: 302553295
HYDRO-SEARCH INC A Tetra Tech Company	Figure 5