GIS REGISTRY INFORMATION

SITE NAME:	City of Milwaukee		
BRRTS #:	03-41-542436	**FID # 241608400 (**if appropriate**):**	
COMMERCE # (if appropriate**):**	53209-6733-27		
CLOSURE DATE:	July 21, 2006		
STREET ADDRESS:	4227 N Teutonia Ave		
CITY:	Milwaukee		

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection)**:**	**X** =	687555		**Y** =	293253	
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**	x		**No**		

DOCUMENTS NEEDED

Closure Letter, and any conditional closure letter issued 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	
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)	
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	
Copy of any maintenance plan referenced in the deed restriction	

commerce.wi.gov
Wisconsin
Department of Commerce

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
Jim Doyle, Governor
Mary P. Burke, Secretary

July 21, 2006

Mr. Benjamin Timm
City of Milwaukee
809 N. Broadway
P.O. Box 324
Milwaukee, WI 53202-0324

RE: **Final Closure**

Commerce # 53209-6733-27 DNR BRRTS # 03-41-542436
City of Milwaukee, 4227 N. Teutonia Ave., Milwaukee

Dear Mr. Timm:

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 Department of Natural Resources (DNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual 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 bring this case to closure. If you have any questions, please contact me in writing at the letterhead address or by telephone at (414) 220-5373.

Sincerely,

Jennifer Skinner
Advanced Hydrogeologist
Regional Technical Specialist
Site Review Section

cc: Steven Thuemling, Giles Engineering Assoc., Inc.

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Wisconsin
Department of Commerce

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
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101 West Pleasant Street, Suite 100A
Milwaukee, Wisconsin 53212-3963
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Fax #: (414) 220-5374
Jim Doyle, Governor
Mary P. Burke, Secretary

June 21, 2006

Mr. Benjamin Timm
City of Milwaukee
809 N. Broadway
P.O. Box 324
Milwaukee, WI 53202-0324

RE: **Conditional Case Closure**

Commerce # 53209-6733-27 DNR BRRTS # 03-41-542436
City of Milwaukee Vacant Lot, 4227 N. Teutonia Ave., Milwaukee

Dear Mr. Timm:

The Wisconsin Department of Commerce (Commerce) has reviewed the request for case closure prepared by your consultant, Giles Engineering Assoc 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:

- All five monitoring wells must be properly abandoned. The appropriate documentation must be forwarded to the letterhead address. Once this documentation has been received, Commerce will issue a final closure letter.

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) 220-5373.

Sincerely,

Jennifer Skinner
Advanced Hydrogeologist
Site Review Section

cc: Steven Thuemling, Giles Engineering Assoc., Inc.

24

Document Number

JUDGMENT
Document Title

DOC. #
08820963

REGISTER'S OFFICE | SS
Milwaukee County, WI

RECORDED AT 09:08AM

07/14/2004

JOHN LA FAVE
REGISTER OF DEEDS

AMOUNT: 57.00

Type of Service: Recording, Mail

Date: July 14, 2004

Tax Liens for: 2004, No. 1

Name: **SEE ATTACHED DOCUMENT**

Address:

Tax Key No.:

Parcel:

Recording Area

Name and Return Address

Beverly A. Temple
Assistant City Attorney
200 E. Wells Street, Suite 800
Milwaukee, WI 53202
414-286-2601

Parcel No.: See Attached
Tax Key No.: Document

24

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Assistant City Attorney
200 E. Wells Street, Suite 800
Milwaukee, WI 53202
414-286-2601

Parcel No.: See Attached
Tax Key No.: Document

COPY

STATE OF WISCONSIN CIRCUIT COURT MILWAUKEE COUNTY

IN THE MATTER OF THE FORECLOSURE
OF TAX LIENS PURSUANT TO SEC. 75.521,
WISCONSIN STATUTES, BY THE CITY OF MILWAUKEE
MILWAUKEE, A MUNICIPAL CORPORATION

List of Tax Liens for 2004 No. 01

JUDGMENT
Case No. 2004CV002780

CODE NO. 30405

The list of parcels of property affected by unpaid tax liens as shown on the delinquent tax rolls in the Treasurer's Office of the City of Milwaukee and Milwaukee County wherein said parcels have been sold the the City of Milwaukee for delinquent taxes and County of Milwaukee having assigned its interest to the City of Milwaukee and one year has elapsed and a petition for judgment vesting title to petitioner in each of the parcels of land in the City and County of Milwaukee remaining unredeemed or for which no answer pursuant to Sec. 75.521(7), Stats., having been duly filed in the Office of the Clerk of Court of Milwaukee County on the 24th day of March, 2004 and a copy of the petition and that part of the list of tax liens as includes a description of the parcels having been mailed by certified mailing, return receipt requested as evidenced by the affidavit of JAMES L. HANNA, Deputy City Treasurer of the City of Milwaukee, duly filed with the Clerk of Circuit of Court of Milwaukee; and said affidavit evidencing the posting of the tax liens and publication of the notice of commencement of this special proceeding including the list of tax liens and the petition herein, and setting forth those parcels which have been timely redeemed except for: 1, 2, 9, 11, 12, 17, 18, 21, 23, 24, 26, 27, 29, 30, 31, 33, 34, 41, 42, 43, 46, 48, 49, 51, 54, 57, 66, 67, 68, 69, 74, 77, 80, 81, 84, 87, 89, 91, 92, 96, 97, 100, 101, 102, 103, 104, 105, 117, 118, 122, 124, 126, 128, 131, 132, 134, 135, 138, 142, 147, 148, 149, 150, 151, 152, 153, 156, 159, 160, 161, 162, 163, 164, 165, 166, 168, 175, 177, 178, 180, 181, 182, 184, 185, 186, 187, 188, 189, 191, 192, 193, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 209, 210, 213, 214, 216, 219, 225, 226, 227, 228, 236, 237, 241, 245, 246, 248, 249, 250, 251, 252, 254, 256, 257, 258, 260, 261, 262, 263, 264, 265, 266, 267, 269, 271, 272, 274, 275, 277, 278, 279, 281, 283, 285, 286, 288, 289, 291, 293, 294, 295, 297, 298, 299, 300, 301, 302, 304, 305, 306, 308, 309, 310, 316, 317, 318, 319, 320, 321, 323, 324, 325, 326,

Doc Yr: 2004 Doc#08820963 Page#2 of 24

327, 336, 337, 338, 341, 347, 348, 350, 351, 352, 353, 355, 357, 359, 360, 364, 365, 368, 374, 376, 378, 379, 381, 385, 386, 387, 389, 390, 392, 393, 397, 399, 409.

And the affidavit of Mark W. C. Stodder, Publisher of the Daily Reporter attached thereto as Exhibit "A"; and Attorney Patrick Wait, having been duly appointed guardian ad litem pursuant to Sec. 75.521(12)(8) Stats.;

NOW, THEREFORE, on motion of Grant F. Langley, city Attorney for the City of Milwaukee, by Beverly A. Temple, Assistant City Attorney, attorneys for petitioner, and by authority of Sec. 75.521(8) Stats.,

IT IS ORDERED AND ADJUDGED:

1. That there has been failure to redeem or answer by any person having the right to redeem or answer as provided by Sec. 75.521 Stats., as to parcels: 1, 2, 9, 11, 12, 17, 18, 21, 23, 24, 26, 27, 29, 30, 31, 33, 34, 41, 42, 43, 46, 48, 49, 51, 54, 57, 66, 67, 68, 69, 74, 77, 80, 81, 84, 87, 89, 91, 92, 96, 97, 100, 101, 102, 103, 104, 105, 117, 118, 122, 124, 126, 128, 131, 132, 134, 135, 138, 142, 147, 148, 149, 150, 151, 152, 153, 156, 159, 160, 161, 162, 163, 164, 165, 166, 168, 175, 177, 178, 180, 181, 182, 184, 185, 186, 187, 188, 189, 191, 192, 193, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 209, 210, 213, 214, 216, 219, 225, 226, 227, 228, 236, 237, 241, 245, 246, 248, 249, 250, 251, 252, 254, 256, 257, 258, 260, 261, 262, 263, 264, 265, 266, 267, 269, 271, 272, 274, 275, 277, 278, 279, 281, 283, 285, 286, 288, 289, 291, 293, 294, 295, 297, 298, 299, 300, 301, 302, 304, 305, 306, 308, 309, 310, 316, 317, 318, 319, 320, 321, 323, 324, 325, 326, 327, 336, 337, 338, 341, 347, 348, 350, 351, 352, 353, 355, 357, 359, 360, 364, 365, 368, 374, 376, 378, 379, 381, 385, 386, 387, 389, 390, 392, 393, 397, 399, 409.
2. That all persons claiming under and through the person or persons having the right to redeem or answer from and after the 2nd day of June, 2004 are foreclosed of all their right, title and interest and equity of redemption in and to parcels: 1, 2, 9, 11, 12, 17, 21, 23, 24, 26, 27, 29, 31, 33, 34, 43, 46, 48, 49, 51, 54, 57, 66, 68, 69, 74, 80, 81, 84, 87, 89,

91, 92, 96, 97, 100, 102, 103, 104, 105, 117, 118, 122, 124, 126, 128, 131, 132, 134, 135, 138, 142, 147, 148, 149, 151, 153, 159, 162, 163, 164, 165, 168, 177, 180, 184, 185, 186, 187, 188, 189, 191, 192, 193, 195, 197, 198, 199, 200, 201, 202, 203, 204, 205, 207, 209, 210, 213, 214, 216, 219, 225, 226, 236, 237, 241, 245, 246, 248, 249, 250, 251, 252, 254, 256, 257, 258, 260, 261, 262, 263, 264, 265, 266, 267, 269, 271, 274, 275, 279, 285, 286, 288, 289, 291, 293, 294, 295, 297, 298, 299, 300, 301, 302, 304, 305, 306, 308, 309, 310, 316, 317, 318, 319, 320, 321, 323, 324, 325, 326, 327, 336, 337, 338, 341, 347, 348, 350, 351, 352, 353, 355, 359, 360, 364, 365, 368, 374, 376, 378, 379, 381, 385, 386, 387, 390, 392, 393, 397, 399.

3. That the City of Milwaukee is vested with an estate in fee simple absolute in the below list of parcels subject to all unpaid taxes and charges which are subsequent to the latest dated valid tax lien appearing on the 2004 List of Tax Liens No. 01, filed herein and subject to recorded restrictions as provided by Sec. 75.14(4) , Stats., and that all persons, both natural and artificial, including the State of Wisconsin, infants, incompetents, absentees and nonresidents who may have any right, title, interest, claim, lien or equity of redemption are forever barred and foreclosed of such right, title, interest claim, lien or equity of redemption:

PARCEL: 1 TAXKEY: 031-0362-100-2
ADDRESS & DESCRIPTION: 7500 7500 W NORTHRIDGE LAKES BL
NORTHRIDGE LAKES, ETC SUTTON PLACE CONDOMINIUMS IN SW & NW 1/4 SEC 3-8-21 UNIT A & UND INT IN COMMON AREAS & FACILITIES (F/K/A UNIT NO 112)

PARCEL: 2 TAXKEY: 033-0069-000-8
ADDRESS & DESCRIPTION: 8531 8531 W FAIRY CHASM DR
NORTHRIDGE ESTATES IN NW & SW 1/4 SEC 4-8-21 BLOCK 4 LOT 2

PARCEL: 54 TAXKEY: 229-1529-000-4
ADDRESS & DESCRIPTION: 4572 4572 N 40TH ST
SECOND CONTINUATION OF NORTH MILW HEIGHTS IN NW 1/4
1-7-21 BLOCK 4 LOT 29

PARCEL: 57 TAXKEY: 231-0531-000-5
ADDRESS & DESCRIPTION: 4544 4544 N 21ST ST
HOMESTEAD TERRACE IN NW 1/4 SEC 6-7-22 BLOCK 6 LOT 38

PARCEL: 66 TAXKEY: 245-1913-000-5
ADDRESS & DESCRIPTION: 4227 4227 N TEUTONIA AV
TRIANGLE SUBD ETC IN SW 1/4 SEC 6-7-22 VOL 41 P 48 BLOCK 1
LOT 21 BID #29

PARCEL: 68 TAXKEY: 246-0003-100-3
ADDRESS & DESCRIPTION: 3326 3326 W CAPITOL DR
CAPITOL DEVELOPMENT SUBD NO 2 IN SE 1/4 SEC 1-7-21
BLOCK 2 LOTS 6 THRU 9 & W 28.38' LOT 5

PARCEL: 69 TAXKEY: 246-0217-000-0
ADDRESS & DESCRIPTION: 4250 4250 N 29TH ST
CITY VIEW IN SE 1/4 SEC 1-7-21 BLOCK 5 LOT 13

PARCEL: 74 TAXKEY: 264-0925-000-8
ADDRESS & DESCRIPTION: 7209 7209 W VIENNA CT
ROYAL PARK VIEW IN NW 1/4 SEC 10-7-21 BLOCK 4 LOT 24

PARCEL: 80 TAXKEY: 267-0471-000-2
ADDRESS & DESCRIPTION: 4731 4731 W LEON TR
OAKLAWN IN NE 1/4 SEC 11-7-21 BLOCK 10 LOT 8

PARCEL: 81 TAXKEY: 267-0971-000-0
ADDRESS & DESCRIPTION: 3729 3729 N 50TH ST
RAINBOW RIDGE IN NE 1/4 SEC 11-7-21 BLOCK 21 LOT 10

PARCEL: 84 TAXKEY: 268-1023-000-1
ADDRESS & DESCRIPTION: 3628 3628 N 38TH ST
ORCHARD GROVE IN S 1/2 OF SE 1/4 OF NW 1/4 SEC 12-7-21
BLOCK 2 LOT 11

PARCEL: 87 TAXKEY: 270-1315-000-7
ADDRESS & DESCRIPTION: 3527 3527 N 22ND ST
SIEHR'S SUBD OF LOTS 35,36,69 & 70 IN PEASE'S SUBD IN S 1/2
OF NW 1/4 SEC 7-7-22 BLOCK 1 S 33.10' LOT 15 & N 3.90' LOT 16

S.W.6-7-22
ATLAS P 245

245
TRIANGLE SUBD.
Vol. 41 Page 48

245-18

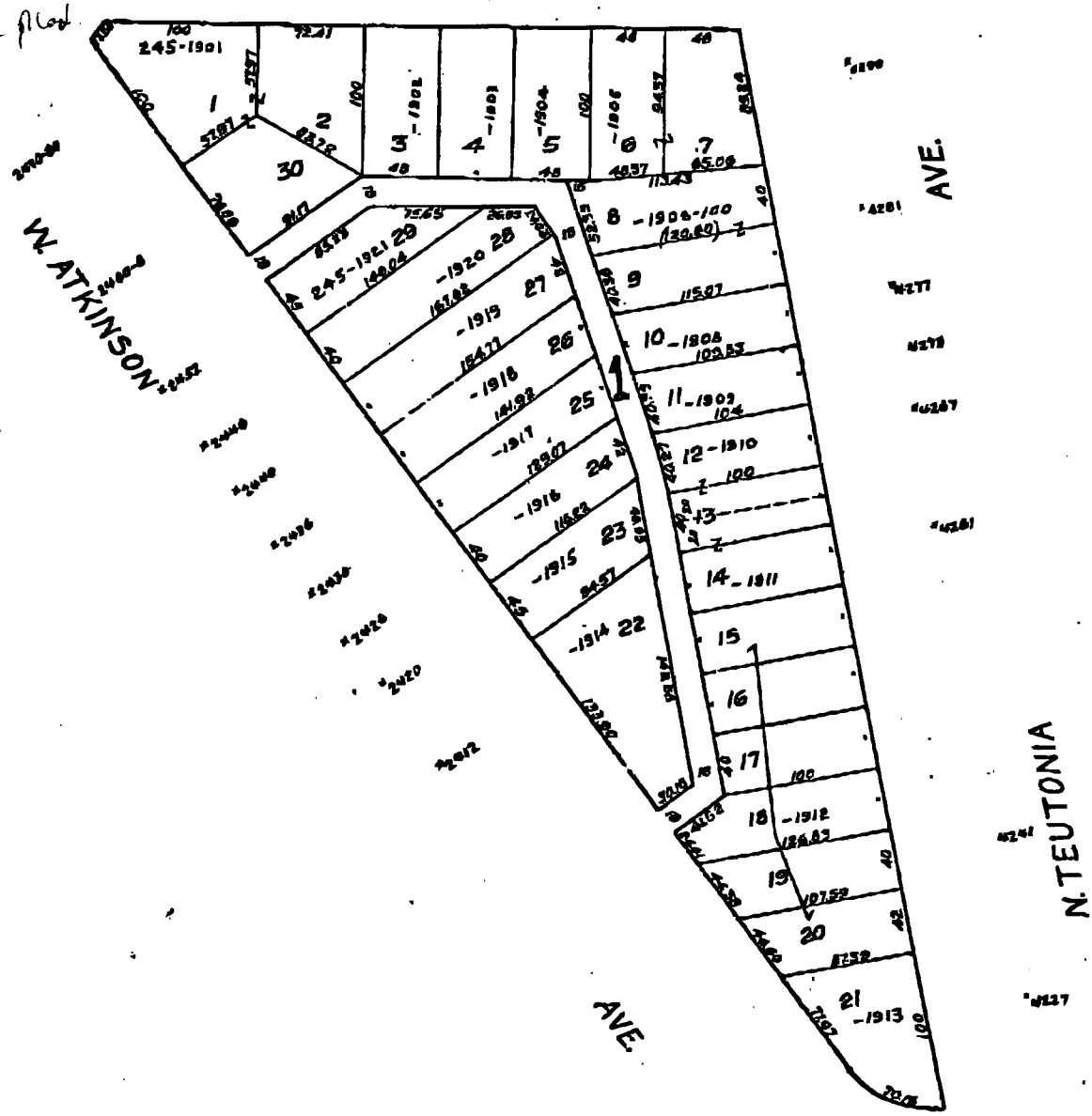
SCALE 60 FT.-1 INC

1EP020509

4227 N. Teutonia

W. ROOSEVELT DRIVE

Fig 1
Boring Location Plot



MICROFILMED 1-17-19

City of Milwaukee

PROPERTY ASSESSMENT RESULTS

TAX ACCOUNT BALANCE

GENERAL INFORMATION

ADDRESS	4227 THRU 4227 N TEUTONIA AV
TAXKEY	245-1913-000-5
OWNER	CITY OF MILW
OWNER ADDRESS	809 N BROADWAY MILWAUKEE, WI 532020000

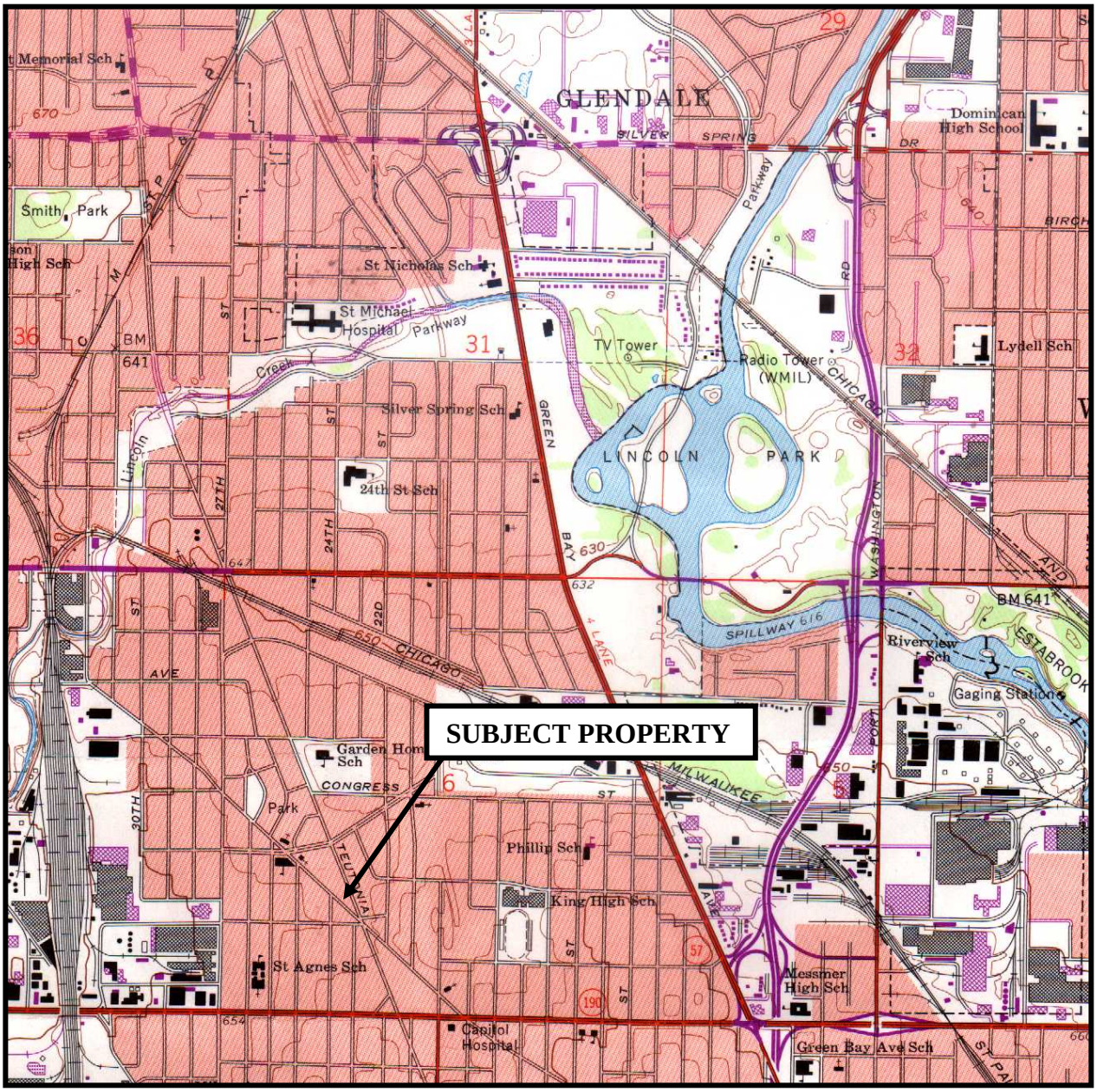
ASSESSMENT

	2006	2005
LAND	$0	$0
IMPROVEMENTS	$0	$0
TOTAL	$0	$0
CURRENT CLASS	EXEMPT	

Assessments reflect the estimated value on January 1st .of the indicated year.

OTHER PROPERTY INFORMATION

- LAST CONVEYANCE:
  - DATE: 07/04
  - TRANSFER FEE: $0.00 (CLICK HERE FOR FEE EXPLANATION)
- STORIES: 1.0
- RESIDENTIAL BUILDING STYLE:
- EXTERIOR WALL TYPE:
- YEAR BUILT: 0000
- DWELLING UNITS: 1 (CLICK HERE FOR DWELLING UNITS EXPLANATION)
- TOTAL SQUARE FEET FLOOR AREA: 0
  - FIRST FLOOR AREA:
  - SECOND FLOOR AREA:
  - THIRD FLOOR AREA:
  - FINISHED ATTIC AREA:
  - FINISHED HALF STORY AREA:
  - BASEMENT LIVING AREA:
- ROOM-COUNTS
  - TOTAL ROOMS: 0
  - BEDROOMS: 0
  - BATHS: 0
  - HALF BATHS: 0
- CENTRAL AIR CONDITIONING: NO
- BASEMENT: NONE
- FIRE PLACE:
- GARAGE TYPE: NONE
- LOT SIZE: 0
- PLAT PAGE: 24518
- ZONING: LB2 (CLICK HERE FOR ZONING EXPLANATION)
  (For zoning information contact Milwaukee Development Center at 286-8211.)



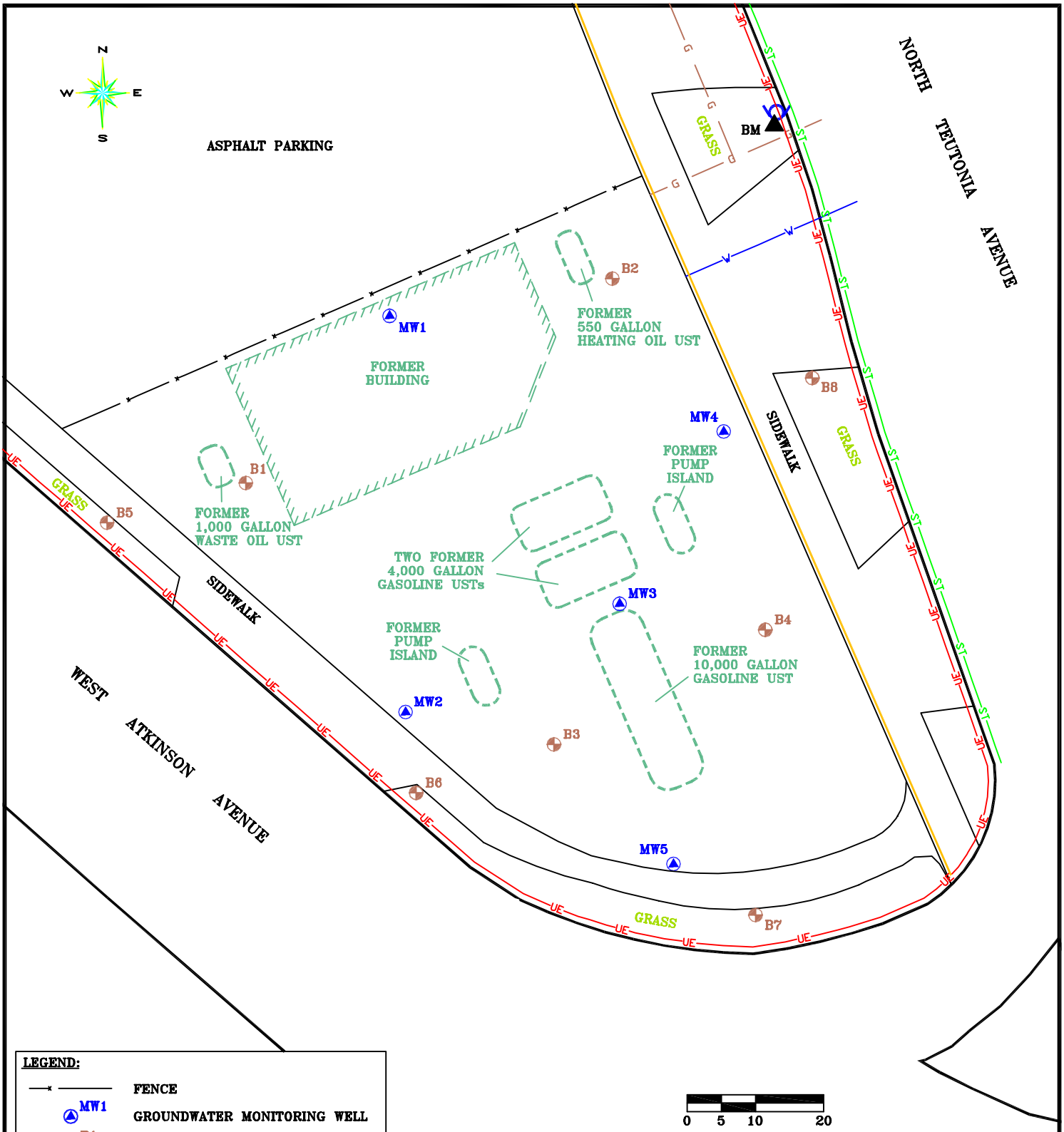
Source: USGS Milwaukee, Wisconsin (1958, revised 1994) 7.5-Minute Series (topographic) Quadrangle Map

Scale: 1:24,000
Contour Interval: 10 Feet

FIGURE 1
SUBJECT PROPERTY LOCATION

Vacant Lot
4227 North Teutonia Avenue
Milwaukee, Wisconsin
Project No. 1E-0504001

GILES
ENGINEERING ASSOCIATES, INC.



LEGEND:

	FENCE
MW1	GROUNDWATER MONITORING WELL
B1	SOIL BORING
W	WATER LINE
	FIRE HYDRANT
UE	UNDERGROUND ELECTRIC LINE
ST	STORM SEWER LINE
	TELECOMMUNICATIONS LINE
G	GAS LINE
	FORMER USTs AND COMPONENTS
BM	BENCHMARK: TOP OF HYDRANT ASSUMED ELEVATION = 100.0'

0 5 10 20

GILES ENGINEERING ASSOCIATES, INC.
N8 W22350 JOHNSON DRIVE, SUITE A1
WAUKESHA, WI 53186 (262)-544-0118

FIGURE 2
SITE FEATURES, SOIL BORING AND MONITORING WELL LOCATION PLAN
VACANT LOT
4227 NORTH TEUTONIA AVENUE
MILWAUKEE, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
GR	JSZ	1"=20'	06-08-05	04-24-06
PROJECT NO.: 1E-0504001			CAD No. 1E0504001A	

Table 2
Soil Analytical Results (VOCs)
(Detected Compounds Only)

Vacant Lot
4227 North Teutonia Avenue
Milwaukee, Wisconsin
Project No. 1E-0504001

Analyte	Sample Location																				NR 720.09 RCLs	NR 746.06 Table 1 (Product Indicator)	NR 746.06 Table 2 (Direct Contact)
	B-1	B-2	B-3	B-4	B-5	B-6		B-7	B-8		MW-1		MW-2		MW-3		MW-4		MW-5				
Sample Depth (feet)	2-4	2-4	2-4	2-4	1-3	2-4	6-8	2-4	1-3	8-10	2-4	10-12	0-2	6-8	2-4	12-14	2-4	6-8	2-4	6-8			
Sample Date	5/31/05	5/31/05	5/31/05	5/31/05	9/27/05	9/27/05	9/27/05	9/27/05	9/27/05	9/27/05	5/31/05	5/31/05	5/31/05	5/31/05	5/31/05	5/31/05	5/31/05	5/31/05	5/31/05	5/31/05			
PID (HNU)	BDL	BDL	BDL	BDL	BDL	BDL	54	BDL	BDL	138	BDL	BDL	BDL	120	BDL	5	BDL	110	BDL	BDL			
Detected VOCs (ug/kg)																							
Benzene	**390**	<29	**(1,200)**	**280**	<32	<27	**1,100**	<28	<28	<150	<29	<29	**240**	<3,000	<29	<30	**200**	**680**	<30	<30	5.5	8,500	1,100
Ethylbenzene	<33	<29	950	96	<32	<27	**# 4,900 #**	<28	<28	**# 6,900 #**	<29	<29	88	**# 43,000 #**	<29	<30	73	**# 8,100 #**	<30	<30	2,900	4,600	NS
Isopropylbenzene	<33	<29	36	<29	<32	<27	180	<28	<28	700	<29	<29	<28	6,500	<29	<30	<30	560	<30	<30	NS	NS	NS
Methylene Chloride	<66	95(1)	<56	<58	<63	<55	<59	<55	<56	<290	<58	<57	70(1)	<6,000	480(1)	<59	<60	<630	<60	200(1)	NS	NS	NS
n-Propylbenzene	<33	<29	260	<29	<32	<27	490	<28	<28	2,700	<29	<29	<28	25,000	<29	<30	<30	2,200	<30	<30	NS	NS	NS
Naphthalene	<66	<58	<56	<58	<63	<55	190	<55	<56	1,900	<58	<57	<56	**# 19,000 #**	<58	<59	<60	**# 2,700 #**	<60	<60	NS	2,700	NS
p-Isopropyltoluene	<33	<29	<28	<29	<32	<27	<30	<28	<28	<150	<29	<29	<28	3,300	<28	<30	<30	<320	<30	<30	NS	NS	NS
sec-Butylbenzene	<33	<29	<28	<29	<32	<27	<30	<28	<28	300	<29	<29	<28	4,800	<29	<30	<30	<320	<30	<30	NS	NS	NS
Tetrachloroethene	<33	90	62	<29	<32	<27	<30	<28	<28	<150	<29	<29	<28	<3,000	<29	<30	<30	<320	<30	<30	NS	NS	NS
Toluene	140	<29	**1,800**	110	<32	<27	85	<28	<28	<150	<29	<29	220	<3,000	<29	<30	200	<320	<30	<30	1,500	38,000	NS
1,2,4-Trimethylbenzene	<33	<29	1,100	180	<32	<27	2,700	<28	<28	17,000	<29	<29	86	**# 290,000 #**	63	<30	200	16,000	<30	<30	NS	83,000	NS
1,3,5-Trimethylbenzene	<33	<29	290	100	<32	<27	460	<28	<28	4,300	<29	<29	39	**# 82,000 #**	<29	<30	77	3,900	<30	<30	NS	11,000	NS
Xylenes	<110	<99	3,700	440	<110	<93	**7,100**	<94	<96	**25,000**	<98	<97	370	**# 120,000 #**	<98	<100	470	**26,000**	<100	<100	4,100	42,000	NS

NOTES:

PID: Photoionization Detector
VOCs: Volatile Organic Compounds
ug/kg: Micrograms per kilogram; equivalent to parts per billion (ppb)
NR: Natural Resources Chapter of the Wisconsin Administrative Code (WAC)
BDL: Below Detection Limit
NS: No Established Standard
RCLs: Residual Contaminant Levels
(1): Compound is a common lab solvent and contaminant. It was also reported in the MeOH Blank at 210 ug/kg
Results in green/parenthesis exceed the WAC NR 746-Table 2 Protection of Human Health from Direct Contact Screening Levels for soil shallower than 4 feet.
Results indicated in red/underlined exceed the WAC NR 720.09 Generic Residual Contaminant Levels based on groundwater protection.
Results indicated in Brown/# exceed the WAC NR 746-Table 1 Residual Petroleum Product Indicator Levels
Results that are both underlined and in parentheses exceed both the Direct Contact, and the Groundwater Pathway suggested generic RCLs

Table 3
Soil Analytical Results (Pb & PAHs)

Vacant Lot

4227 North Teutonia Avenue
Milwaukee, Wisconsin
Project No. 1E-0504001

Analyte	Sample Location																				NR 720.11 RCLs	Suggested Generic RCLs	
	B-1	B-2	B-3	B-4	B-5	B-6		B-7	B-8		MW-1		MW-2		MW-3		MW-4		MW-5		Direct Contact, Non-industrial Pathway	Groundwater Pathway (1)	Direct Contact, Non-industrial Pathway (2)
Sample Depth (feet)	2-4	2-4	2-4	2-4	1-3	2-4	6-8	2-4	1-3	8-10	2-4	10-12	0-2	6-8	2-4	12-14	2-4	6-8	2-4	6-8			
Sample Date	5/31/05	5/31/05	5/31/05	5/31/05	9/27/05	9/27/05	9/27/05	9/27/05	9/27/05	9/27/05	5/31/05	5/31/05	5/31/05	5/31/05	5/31/05	5/31/05	5/31/05	5/31/05	5/31/05	5/31/05			
PID (HNU)	BDL	BDL	BDL	BDL	BDL	BDL	54	BDL	BDL	138	BDL	BDL	BDL	120	BDL	5	BDL	110	BDL	BDL			
Lead (Pb) (mg/kg)	**(620)**	15	**(1,200)**	**(57)**	41	14	12	**(53)**	31	13	**(110)**	13	**(190)**	280	**(390)**	22	**(91)**	13	18	<4.8	50	NS	NS
Detected PAHs (ug/kg)																							
Acenaphthene	<66	<58	<56	<58	<63	<55	<59	<55	<56	<58	<58	<57	220	<60	<58	<59	<60	<58	<60	<60	NS	38,000	900,000
Acenaphthylene	<110	<99	<96	<99	<110	<93	<100	<94	<96	<99	<98	<97	<95	<100	<98	<100	<100	<98	<100	<100	NS	700	18,000
Anthracene	20	<5.8	<5.6	7.5	<6.3	<5.5	<5.9	10	42	<5.8	28	<5.7	180	<6.0	12	<5.9	68	<5.8	35	<6.0	NS	3,000,000	5,000,000
Benzo (a) anthracene	**(97)**	<5.8	23	75	<6.3	<5.5	<5.9	29	**(280)**	<5.8	**(110)**	<5.7	**(710)**	33	36	25	**(210)**	8.9	**(160)**	<6.0	NS	17,000	88
Benzo (b) fluoranthene	46	<5.8	6.5	42	<6.3	<5.5	<5.9	19	**(180)**	<5.8	61	<5.7	**(410)**	17	21	14	43	11	73	<6.0	NS	360,000	88
Benzo (k) fluoranthene	42	<5.8	11	30	<6.3	<5.5	<5.9	14	130	<5.8	51	<5.7	310	18	16	12	56	<5.8	60	<6.0	NS	870,000	880
Benzo (a) pyrene	**(71)**	<5.8	6.9	**(62)**	<6.3	<5.5	<5.9	**(25)**	**(230)**	<5.8	**(88)**	<5.7	**(620)**	22	**(30)**	20	**(85)**	<5.8	**(120)**	<6.0	NS	48,000	8.8
Benzo (ghi) perylene	59	<5.8	18	42	<6.3	<5.5	<5.9	22	190	<5.8	76	<5.7	440	44	25	17	99	8.2	97	<6.0	NS	6,800,000	1,800
Chrysene	84	<5.8	12	60	<6.3	<5.5	<5.9	28	240	<5.8	99	<5.7	670	20	27	19	140	6.5	120	<6.0	NS	37,000	8,800
Dibenzo (a,h) anthracene	<9.9	<8.7	<8.5	<8.8	<9.5	<8.2	<8.9	<8.3	**(33)**	<8.8	<8.7	<8.6	**(78)**	<9.0	<8.7	<8.9	**(20)**	<8.7	<9.1	<8.9	NS	38,000	8.8
Fluoranthene	180	<12	29	130	<13	<11	<12	65	560	12	230	<11	1,900	54	84	52	510	<12	310	<12	NS	500,000	600,000
Fluorene	<13	<12	<11	<12	<13	<11	<12	<11	<11	<12	<12	<11	150	<12	<12	<12	52	<12	<12	<12	NS	100,000	600,000
Indeno (1,2,3-cd) pyrene	55	<5.8	<5.6	40	<6.3	<5.5	<5.9	18	**(170)**	<5.8	67	<5.7	**(380)**	27	20	14	33	7.0	72	<6.0	NS	680,000	88
1-Methylnaphthalene	<40	<35	<34	<35	<38	<33	<36	<33	<34	68	<35	<34	86	120	<35	<35	<36	150	<36	<36	NS	23,000	1,100,000
2-Methylnaphthalene	64	<29	<28	36	<32	<27	<30	<28	<28	140	100	<29	870	260	<29	<30	95	310	78	<30	NS	20,000	600,000
Naphthalene	<40	<35	<34	<35	<38	<33	<36	<33	<34	300	<35	<34	120	350	<35	<35	<36	**550**	<36	<36	NS	400	20,000
Phenanthrene	84	<5.8	15	43	<6.3	<5.5	<5.9	43	170	9.8	150	<5.7	1,500	31	62	26	350	<5.8	160	<6.0	NS	1,800	18,000
Pyrene	140	<5.8	25	90	7.9	<5.5	<5.9	47	540	8.1	170	<5.7	1,300	41	58	40	290	<5.8	300	<6.0	NS	8,700,000	500,000

NOTES:

PID: Photoionization Detector
PAHs: Polynuclear Aromatic Hydrocarbons
ug/kg: Micrograms per kilogram; equivalent to parts per billion (ppb)
mg/kg: Milligrams per kilogram; equivalent to parts per million (ppm)
(1): Suggested Generic RCLs, "Soil Cleanup Levels for PAHs, Interim Guidance" (Groundwater Pathway) [April 1997]
(2): Suggested Generic RCLs, "Soil Cleanup Levels for PAHs, Interim Guidance" (Direct Contact Non-industrial Pathway) [April 1997]
Results indicated in green/parenthesis exceed the suggested generic RCLs (Direct Contact, Non-Industrial Pathway) for soils shallower than 4 feet
Results indicated in red/underlined exceed the suggested generic RCLs (Groundwater Pathway)

NS: No Established Standard
NR: Natural Resources Chapter of the Wisconsin Administrative Code (WAC)
RCLs: Residual Contaminant Levels
--: Not Analyzed
BDL: Below Detection Limit

Table 4
Groundwater Analytical Results (VOCs and Lead)

Vacant Lot
4227 North Teutonia Avenue
Milwaukee, Wisconsin
Project No. 1E-0504001

Sample Location	Sample Date	Lead (ug/l)	Detected Volatile Organic Compounds (VOCs) (ug/l)											
			B	sec-BuBz	1,2-DCA	E	IPBz	p-IPT	MTBE	Napht	n-PBz	TMB	T	X
MW-1	06/28/05	<1.4	<0.20	<0.25	<0.50	<0.50	<0.20	<0.20	<0.50	<0.25	<0.50	<0.40	<0.20	<0.50
	10/27/05	<1.4	<0.20	--	<0.50	<0.50	--	--	<0.50	<0.25	--	<0.40	<0.20	<0.50
	02/02/06	--	<0.20	--	<0.50	<0.50	--	--	<0.50	<0.25	--	<0.40	<0.20	<0.50
	4/5/2006	--	<0.20	--	<0.50	<0.50	--	--	<0.50	<0.25	--	<0.40	<0.20	<0.50
MW-2	06/28/05	<1.4	**(1.0)**	<0.25	**(3.4)**	<0.50	0.22j	<0.20	<0.50	<0.25	<0.50	0.48j	0.42j	3.3
	10/27/05	**(1.7j)**	**5.5**	--	**20**	0.65	--	--	1	<0.25	--	0.23	<0.20	0.75
	02/02/06	--	**17**	--	**19**	2.8	--	--	1.5j	<0.25	--	2.19	0.55j	4.8
	4/5/2006	--	**30**	--	**8.4**	7.4	--	--	1.1	<0.25	--	3.46	0.89	10
MW-3	06/28/05	<1.4	**84**	2.2	<0.50	85	11	1.4	1.5j	**(22)**	25	**(265)**	1.5	89
	10/27/05	<1.4	**25**	--	<2.0	52	--	--	<2.0	1	--	16	0.88	6.5
	02/02/06	--	**11**	--	<0.50	2.6	--	--	<0.50	0.49j	--	2.9	0.29j	0.70j
	4/5/2006	--	**22**	--	<0.50	3.9	--	--	0.59	<0.25	--	0.54	0.20	<0.50
MW-4	06/28/05	<1.4	<0.20	<0.25	**(1.0j)**	3.9	0.29j	<0.20	2.3	0.66j	0.68j	8.4	0.77	26
	10/27/05	1.4j	**(0.67)**	--	**(3.3)**	<0.50	--	--	4.4	<0.25	--	0.26	<0.20	<0.50
	02/02/06	--	<0.20	--	**(1.4j)**	<0.50	--	--	1.8	<0.25	--	<0.40	<0.20	<0.50
	4/5/2006	--	0.21	--	**(2.5j)**	<0.50	--	--	3.1	<0.25	--	<0.40	<0.20	<0.50
MW-5	06/28/05	<1.4	<0.20	<0.25	<0.50	<0.50	<0.20	<0.20	<0.50	<0.25	<0.50	<0.40	<0.20	<0.50
	10/27/05	**(1.5j)**	<0.20	--	<0.50	<0.50	--	--	<0.50	<0.25	--	<0.40	<0.20	<0.50
	02/02/06	--	<0.20	--	<0.50	<0.50	--	--	1.9	<0.25	--	<0.40	<0.20	<0.50
	4/5/2006	--	<0.20	--	<0.50	<0.50	--	--	5.1	<0.25	--	<0.40	<0.20	<0.50
NR 140 PAL		1.5	0.5	NS	0.5	140	NS	NS	12	8	NS	96	200	1,000
NR 140 ES		15	5	NS	5	700	NS	NS	60	40	NS	480	1,000	10,000

NOTES:

B: Benzene
BuBz: Butylbenzene
DCA: Dichloroethane
E: Ethylbenzene
IPBz: Isopropylbenzene
IPT: Isopropyltoluene
MTBE: Methyl tert butyl ether
Napht: Naphthalene
PBz: Propylbenzene
Results indicated in blue/parenthesis exceed the NR 140 PAL
Results indicated in red/underline exceed the NR 140 ES

TMB: Total Trimethylbenzene
T: Toluene
X: Total Xylenes
--: Not analyized
ug/l: micrograms per kilogram equivalent to parts per billion (ppb)
NR: Natural Resources Chapter of the Wisconsin Administrative Code
PAL: Preventive Action Limit
ES: Enforcement Standard
j: Concentration between laboratory limit of detection and quantitation limit

Table 5
Groundwater Analytical Results (PAHs)

Vacant Lot
4227 North Teutonia Avenue
Milwaukee, Wisconsin
Project No. 1E-0504001

Sample Location	Sample Date	Polynuclear Aromatic Hydrocarbons (PAHs) (ug/l)																	
		Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Benzo (ghi) perylene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	1-methylnaphthalene	2-methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
MW-1	6/28/2005	<0.33	<0.69	<0.038	<0.044	<0.098	<0.049	<0.032	<0.12	<0.041	<0.13	<0.081	<0.062	<0.062	<0.32	<0.31	<0.40	<0.030	<0.044
	10/27/2005	<0.33	<0.69	<0.038	<0.044	<0.098	<0.049	<0.032	<0.12	<0.041	<0.13	<0.081	<0.062	<0.062	<0.32	<0.31	<0.40	<0.030	<0.044
MW-2	6/28/2005	<0.33	<0.69	<0.038	<0.044	<0.098	<0.049	<0.032	<0.12	<0.041	<0.13	<0.081	<0.062	<0.062	<0.32	<0.31	<0.40	<0.030	<0.044
	10/27/2005	<0.33	<0.69	<0.038	<0.044	<0.098	<0.049	<0.032	<0.12	<0.041	<0.31	<0.081	<0.062	<0.062	<0.32	<0.31	<0.40	<0.030	<0.044
MW-3	6/28/2005	<0.33	<0.69	<0.038	<0.044	<0.098	<0.049	<0.032	<0.12	<0.041	<0.13	<0.081	<0.062	<0.062	7.8	4.8	**(18)**	<0.030	<0.044
	10/27/2005	<0.33	<0.69	<0.038	<0.044	<0.098	<0.049	<0.032	<0.12	<0.041	<0.31	<0.081	<0.062	<0.062	<0.32	<0.31	<0.40	<0.030	<0.044
MW-4	6/28/2005	<0.82	<1.7	<0.095	<0.11	<0.24	<0.12	<0.080	<0.30	<0.10	<0.32	<0.20	<0.16	<0.16	<0.80	<0.78	<1.0	<0.075	<0.11
	10/27/2005	<0.33	<0.69	<0.038	<0.044	<0.098	<0.049	<0.032	<0.12	<0.041	<0.13	<0.081	<0.062	<0.062	<0.32	<0.31	<0.40	<0.030	<0.044
MW-5	6/28/2005	<0.33	<0.69	<0.038	<0.044	<0.098	<0.049	<0.032	<0.12	<0.041	<0.13	<0.081	<0.062	<0.062	<0.32	<0.31	<0.40	<0.030	<0.044
	10/27/2005	<0.33	<0.69	<0.038	<0.044	<0.098	<0.049	<0.032	<0.12	<0.041	<0.13	<0.081	<0.062	<0.062	<0.32	<0.31	<0.40	<0.030	<0.044
NR 140 PAL		NS	NS	600	NS	0.02	NS	0.02	NS	0.02	NS	80	80	NS	NS	NS	8	NS	50
NR 140 ES		NS	NS	3000	NS	0.2	NS	0.2	NS	0.2	NS	400	400	NS	NS	NS	40	NS	250

NOTES:

NR: Natural Resources Chapter of the Wisconsin Administrative Code
NS: No Established Standard
ug/l: Micrograms per liter; equivalent to parts per billion (ppb)
PAL: Preventive Action Limit
ES: Enforcement Standard
Results indicated in red/underline exceed the NR 140 Enforcement Standard (ES)
Results indicated in blue/parenthesis exceed the NR 140 Preventive Action Limit (PAL)

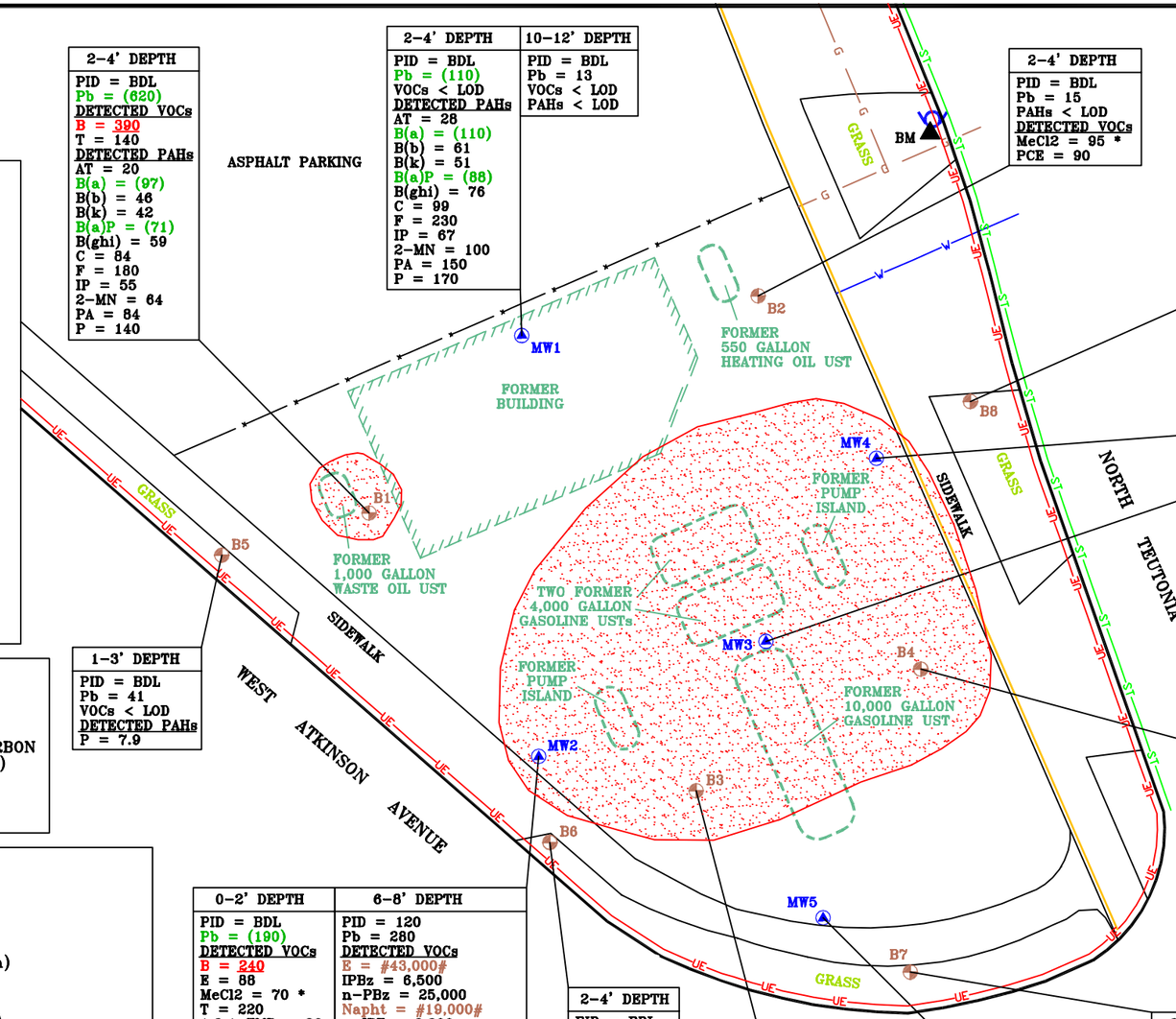
Table 6
Natural Attenuation Parameters

Vacant Lot
4227 North Teutonia Avenue
Milwaukee, Wisconsin
Project No. 1E-0504001

Monitoring Well Number	Date	Field Measurements				
		Temperature (^oC)	Dissolved Oxygen (mg/l)	PH (units)	Specific Conductance (us/cm)	Redox ORP (mV)
MW-1	6/28/2005	13.57	6.59	8.89	962	357
	10/27/2005	18.23	0.46	7.88	1460	266
	2/2/2006	14.14	3.01	7.36	1752	386
	3/29/2006	10.43	4.2	7.54	1536	334
MW-2	6/28/2005	11.76	0.92	8.04	3063	374
	10/27/2005	17.49	0.26	6.92	3551	105
	2/2/2006	13.27	0.67	6.85	3468	202
	3/29/2006	9.41	1.42	7.16	3438	221
MW-3	6/28/2005	11.33	0.31	7.55	6761	358
	10/27/2005	17.01	0.28	7.16	5318	90
	2/2/2006	9.52	0.37	7.04	7686	156
	3/29/2006	8.1	0.75	7.01	10560	243
MW-4	6/28/2005	12.14	2.89	7.86	2564	335
	10/27/2005	Well was damaged and bent				
	2/2/2006	Well was damaged and bent				
	3/29/2006	Well was damaged and bent				
MW-5	6/28/2005	12.07	2.71	7.73	2696	339
	10/27/2005	16.7	0.9	7.44	2792	279
	2/2/2006	14.98	3.48	7.19	2794	392
	3/29/2006	11.1	4.92	7.36	2618	340

Notes:

mg/L: milligrams per liter
us/cm: microsiemens per centimeter
k-ohm-cm: kilo-ohm-centimeter
mV: millivolt
ORP: Oxygen Reduction Potential
--: not analyzed



CHEMICAL KEY:

- -AN: ACENAPHTHENE
- -AT: ANTHRACENE
- -B: BENZENE
- -B(a): BENZO (a) ANTHRACENE
- -B(a)P: BENZO (a) PYRENE
- -B(b): BENZO (b) FLUORANTHENE
- -B(g,h,i): BENZO (g,h,i) PERYLENE
- -B(k): BENZO (k) FLUORANTHENE
- -C: CHRYSENE
- -DiBA: di BENZO (a,h) ANTHRACENE
- -E: ETHYLBENZENE
- -F: FLUORANTHENE
- -FL: FLUORENE
- -IP: INDENO (1,2,3-cd) PYRENE
- -IPBz: ISOPROPYLBENZENE
- -MeCl2: METHYLENE CHLORIDE
- -MN: METHYLNAPHTHALENE
- -n-PBz: n-PROPYLBENZENE
- -Napht: NAPHTHALENE
- -P: PYRENE
- -PA: PHENANTHRENE
- -Pb: LEAD
- -PCE: TETRACHLOROETHENE
- -p-IPT: p-ISOPROPYLTOLUENE
- -s-BuBz: Sec-BUTYLBENZENE
- -T: TOLUENE
- -TMB: TRIMETHYLBENZENE
- -X: TOTAL XYLENES

ABBREVIATIONS:

- -BDL: BELOW DETECTION LIMIT
- -LOD: LIMIT OF DETECTION
- -NR: NATURAL RESOURCES
- -PAH: POLYNUCLEAR AROMATIC HYDROCARBON
- -PID: PHOTOIONIZATION DETECTOR (FIELD)
- -RCL: RESIDUAL CONTAMINANT LEVEL
- -VOC: VOLATILE ORGANIC COMPOUND
- -WAC: WISCONSIN ADMINISTRATIVE CODE

NOTES:

FIELD PID RESULTS EXPRESSED IN INSTRUMENT UNITS

LEAD RESULTS EXPRESSED IN MILLIGRAMS PER KILOGRAM (mg/kg) EQUIVALENT TO PARTS PER MILLION (ppm)

VOC AND PAH RESULTS EXPRESSED IN MICROGRAMS PER KILOGRAM (ug/kg) EQUIVALENT TO PARTS PER BILLION (ppb)

*: MeCl2 IS A COMMON LAB SOLVENT AND CONTAMINANT. IT WAS ALSO REPORTED IN THE MeOH BLANK AT 210 ug/kg

VOC NOTES:

RESULTS INDICATED IN RED/UNDERLINED EXCEED THE WAC NR 720.09 GENERIC RESIDUAL CONTAMINANT LEVEL BASED ON GROUNDWATER PROTECTION

RESULTS INDICATED IN GREEN/PARENTHESIS EXCEED THE WAC NR 746-TABLE 2 PROTECTION OF HUMAN HEALTH FROM DIRECT CONTACT SCREENING LEVELS FOR SOIL SHALLOWER THAN 4 FEET

RESULTS INDICATED IN BROWN/# EXCEED THE WAC NR 746-TABLE 1 RESIDUAL PETROLEUM PRODUCT INDICATOR LEVELS

PAH NOTES:

RESULTS INDICATED IN RED/UNDERLINED EXCEED THE SUGGESTED RCLs (GROUNDWATER PATHWAY)

RESULTS INDICATED IN GREEN/PARENTHESIS EXCEED THE SUGGESTED GENERIC RCLs (DIRECT CONTACT, NON-INDUSTRIAL PATHWAY) FOR SOIL SHALLOWER THAN 4 FEET

2-4' DEPTH
PID = BDL
Pb = (620)
DETECTED VOCs
B = 390
T = 140
DETECTED PAHs
AT = 20
B(a) = (97)
B(b) = 46
B(k) = 42
B(a)P = (71)
B(ghi) = 59
C = 84
F = 180
IP = 55
2-MN = 64
PA = 84
P = 140

2-4' DEPTH
PID = BDL
Pb = (110)
VOCs < LOD
DETECTED PAHs
AT = 28
B(a) = (110)
B(b) = 61
B(k) = 51
B(a)P = (88)
B(ghi) = 76
C = 99
F = 230
IP = 67
2-MN = 100
PA = 150
P = 170

10-12' DEPTH
PID = BDL
Pb = 13
VOCs < LOD
PAHs < LOD

2-4' DEPTH
PID = BDL
Pb = 15
PAHs < LOD
DETECTED VOCs
MeCl2 = 95 *
PCE = 90

1-3' DEPTH
PID = BDL
Pb = 31
VOCs < LOD
DETECTED PAHs
AT = 42
B(a) = (280)
B(b) = (180)
B(k) = 130
B(a)P = (230)
B(ghi) = 190
C = 240
DiBA = (33)
F = 560
IP = (170)
PA = 170
P = 540

8-10' DEPTH
PID = 138
Pb = 13
DETECTED VOCs
E = #6,900#
IPBz = 700
n-PBz = 2,700
Napht = 1,900
s-BuBz = 300
1,2,4-TMB = 17,000
1,3,5-TMB = 4,300
X = 25,000
DETECTED PAHs
F = 12
1-MN = 68
2-MN = 140
Napht = 300
PA = 9.8
P = 8.1

2-4' DEPTH
PID = BDL
Pb = (91)
DETECTED VOCs
B = 200
E = 73
T = 200
1,2,4-TMB = 200
1,3,5-TMB = 77
X = 470
DETECTED PAHs
AT = 68
B(a) = (210)
B(b) = 43
B(k) = 56
B(a)P = (85)
B(ghi) = 99
C = 140
DiBA = (20)
F = 510
FL = 52
IP = 33
2-MN = 95
PA = 350
P = 290

6-8' DEPTH
PID = 110
Pb = 13
DETECTED VOCs
B = 680
E = #8,100#
IPBz = 560
n-PBz = 2,200
Napht = #2,700#
1,2,4-TMB = 16,000
1,3,5-TMB = 3,900
X = 26,000
DETECTED PAHs
B(a) = 8.9
B(b) = 11
B(ghi) = 8.2
C = 6.5
IP = 7.0
1-MN = 150
2-MN = 310
Napht = 550

1-3' DEPTH
PID = BDL
Pb = 41
VOCs < LOD
DETECTED PAHs
P = 7.9

2-4' DEPTH
PID = BDL
Pb = (390)
DETECTED VOCs
MeCl2 = 480 *
1,2,4-TMB = 63
DETECTED PAHs
AT = 12
B(a) = 36
B(b) = 21
B(k) = 16
B(a)P = (30)
B(ghi) = 25
C = 27
F = 84
IP = 20
PA = 62
P = 58

12-14' DEPTH
PID = 5
Pb = 22
VOCs < LOD
DETECTED PAHs
B(a) = 25
B(b) = 14
B(k) = 12
B(a)P = 20
B(ghi) = 17
C = 19
F = 52
IP = 14
PA = 26
P = 40

2-4' DEPTH
PID = BDL
Pb = (57)
DETECTED VOCs
B = 280
E = 96
T = 110
1,2,4-TMB = 180
1,3,5-TMB = 100
X = 440
DETECTED PAHs
AT = 7.5
B(a) = 75
B(b) = 42
B(k) = 30
B(a)P = (62)
B(ghi) = 42
C = 60
F = 130
IP = 40
2-MN = 36
PA = 43
P = 90

0-2' DEPTH
PID = BDL
Pb = (190)
DETECTED VOCs
B = 240
E = 88
MeCl2 = 70 *
T = 220
1,2,4-TMB = 86
1,3,5-TMB = 39
X = 370
DETECTED PAHs
AN = 220
AT = 180
B(a) = (710)
B(b) = (410)
B(k) = 310
B(a)P = (620)
B(ghi) = 440
C = 670
DiBA = (78)
F = 1,900
FL = 150
IP = (380)
1-MN = 86
2-MN = 870
Napht = 120
PA = 1,500
P = 1,300

6-8' DEPTH
PID = 120
Pb = 280
DETECTED VOCs
E = #43,000#
IPBz = 6,500
n-PBz = 25,000
Napht = #19,000#
p-IPT = 3,300
s-BuBz = 4,800
1,2,4-TMB = #290,000#
1,3,5-TMB = #82,000#
X = #120,000#
DETECTED PAHs
B(a) = 33
B(b) = 17
B(k) = 18
B(a)P = 22
B(ghi) = 44
C = 20
F = 54
IP = 27
1-MN = 120
2-MN = 260
Napht = 350
PA = 31
P = 41

2-4' DEPTH
PID = BDL
Pb = 14
VOCs < LOD
PAHs < LOD

6-8' DEPTH
PID = 54
Pb = 12
PAHs < LOD
DETECTED VOCs
B = 1,100
E = #4,900#
IPBz = 180
n-PBz = 490
Napht = 190
T = 85
1,2,4-TMB = 2,700
1,3,5-TMB = 460
X = 7,100

2-4' DEPTH
PID = BDL
Pb = (1,200)
DETECTED VOCs
B = (1,200)
E = 950
IPBz = 36
n-PBz = 260
PCE = 62
T = 1,800
1,2,4-TMB = 1,100
1,3,5-TMB = 290
X = 3,700
DETECTED PAHs
B(a) = 23
B(b) = 6.5
B(k) = 11
B(a)P = 6.9
B(ghi) = 18
C = 12
F = 29
PA = 15
P = 25

2-4' DEPTH
PID = BDL
Pb = 18
VOCs < LOD
DETECTED PAHs
AT = 35
B(a) = (160)
B(b) = 73
B(k) = 60
B(a)P = (120)
B(ghi) = 97
C = 120
F = 310
IP = 72
2-MN = 78
PA = 160
P = 300

6-8' DEPTH
PID = BDL
Pb < 4.8
PAHs < LOD
DETECTED VOCs
MeCl2 = 200

2-4' DEPTH
PID = BDL
Pb = (53)
VOCs < LOD
DETECTED PAHs
AT = 10
B(a) = 29
B(b) = 19
B(k) = 14
B(a)P = (25)
B(ghi) = 22
C = 28
F = 65
IP = 18
PA = 43
P = 47

LEGEND:

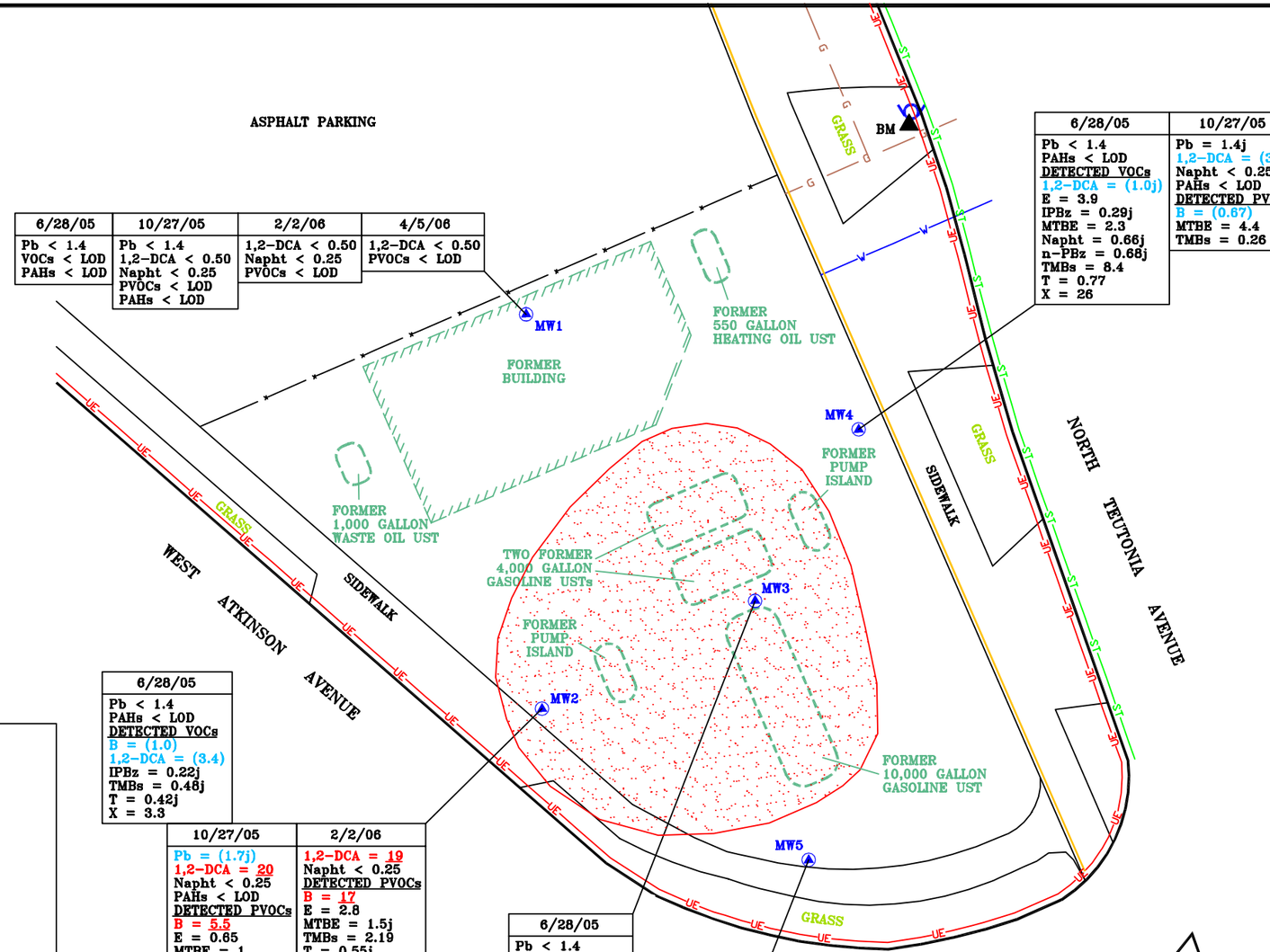
- APPROXIMATE EXTENT OF IMPACTED SOIL AT DEPTHS OF 0-4 FEET EXCEEDING NR 720 STANDARDS
- FENCE
- MW1 GROUNDWATER MONITORING WELL
- B1 SOIL BORING
- WATER LINE
- FIRE HYDRANT
- UE UNDERGROUND ELECTRIC LINE
- ST STORM SEWER LINE
- TELECOMMUNICATIONS LINE
- G GAS LINE
- FORMER USTs AND COMPONENTS
- BM BENCHMARK: TOP OF HYDRANT ASSUMED ELEVATION = 100.0'

GILES ENGINEERING ASSOCIATES, INC.
N8 W22350 JOHNSON DRIVE, SUITE A1
WAUKESHA, WI 53186 (262)-544-0118

FIGURE 8
SOIL ANALYTICAL RESULTS
VACANT LOT
4227 NORTH TEUTONIA AVENUE
MILWAUKEE, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
TJB	JSZ	1"=20'	06-24-05	04-24-06

PROJECT NO.: 1E-0504001 | CAD No. 1E0504001B



6/28/05	10/27/05	2/2/06	4/5/06
Pb < 1.4 VOCs < LOD PAHs < LOD	Pb < 1.4 1,2-DCA < 0.50 Napht < 0.25 PVOCs < LOD PAHs < LOD	1,2-DCA < 0.50 Napht < 0.25 PVOCs < LOD	1,2-DCA < 0.50 PVOCs < LOD

6/28/05	10/27/05	2/2/06	4/5/06
Pb < 1.4 PAHs < LOD DETECTED VOCs 1,2-DCA = (1.0j) E = 3.9 IPBz = 0.29j MTBE = 2.3 Napht = 0.66j n-PBz = 0.68j TMBs = 8.4 T = 0.77 X = 26	Pb = 1.4j 1,2-DCA = (3.3) Napht < 0.25 PAHs < LOD DETECTED PVOCs B = (0.87) MTBE = 4.4 TMBs = 0.26	1,2-DCA = (1.4j) Napht < 0.25 DETECTED PVOCs MTBE = 1.8	1,2-DCA = (2.5j) DETECTED PVOCs B = 0.21 MTBE = 3.1

6/28/05
Pb < 1.4 PAHs < LOD DETECTED VOCs B = (1.0) 1,2-DCA = (3.4) IPBz = 0.22j TMBs = 0.48j T = 0.42j X = 3.3

10/27/05	2/2/06
Pb = (1.7j) 1,2-DCA = 20 Napht < 0.25 PAHs < LOD DETECTED PVOCs B = 5.5 E = 0.65 MTBE = 1 TMBs = 0.23 X = 0.75	1,2-DCA = 19 Napht < 0.25 DETECTED PVOCs B = 17 E = 2.8 MTBE = 1.5j TMBs = 2.19 T = 0.55j X = 4.8

4/5/06
1,2-DCA = 8.4 DETECTED PVOCs B = 30 E = 7.4 MTBE = 1.1 TMBs = 3.46 T = 0.89 X = 10

6/28/05
Pb < 1.4 DETECTED VOCs B = 84 s-BuBz = 2.2 E = 85 IPBz = 11 p-IPT = 1.4 MTBE = 1.5j Napht = (22) n-PBz = 25 TMBs = (265) T = 1.5 X = 89 DETECTED PAHs 1-MN = 7.8 2-MN = 4.8 Napht = (18)

6/28/05	10/27/05	2/2/06
Pb < 1.4 VOCs < LOD PAHs < LOD	Pb = (1.5j) 1,2-DCA < 0.50 Napht < 0.25 PAHs < LOD PVOCs < LOD	Pb < 1.4 1,2-DCA < 0.50 Napht < 0.25 DETECTED PVOCs MTBE = 1.9

4/5/06
1,2-DCA < 0.50 DETECTED PVOCs MTBE = 5.1

10/27/05	2/2/06	4/5/06
Pb < 1.4 1,2-DCA < 2.0 Napht = 1 PAHs < LOD DETECTED PVOCs B = 25 E = 52 TMBs = 16 T = 0.88 X = 6.5	1,2-DCA < 0.50 Napht = 0.49j DETECTED PVOCs B = 11 E = 2.6 TMBs = 2.9 T = 0.29j X = 0.70j	1,2-DCA < 0.50 DETECTED PVOCs B = 22 E = 3.9 MTBE = 0.59 TMBs = 0.54 T = 0.20

0 5 10 20

CHEMICAL KEY:

- -B: BENZENE
- -DCA: DICHLOROETHANE
- -DiBA: di BENZO (a,h) ANTHRACENE
- -E: ETHYLBENZENE
- -IPBz: ISOPROPYLBENZENE
- -MTBE: METHYL TERT BUTYL ETHER
- -MN: METHYLNAPHTHALENE
- -n-PBz: n-PROPYLBENZENE
- -Napht: NAPHTHALENE
- -Pb: LEAD
- -p-IPT: p-ISOPROPYLTOLUENE
- -s-BuBz: Sec-BUTYLBENZENE
- -T: TOLUENE
- -TMBs: TOTAL TRIMETHYLBENZENES
- -X: TOTAL XYLENES

ABBREVIATIONS:

- -LOD: LIMIT OF DETECTION
- -NR: NATURAL RESOURCES
- -PAH: POLYNUCLEAR AROMATIC HYDROCARBON
- -PVOC: PETROLEUM VOLATILE ORGANIC COMPOUND
- -VOC: VOLATILE ORGANIC COMPOUND
- -WAC: WISCONSIN ADMINISTRATIVE CODE

NOTES:

VOC, PAH, AND LEAD RESULTS EXPRESSED IN MICROGRAMS PER LITER (ug/l) EQUIVALENT TO PARTS PER BILLION (ppb)

RESULTS INDICATED IN BLUE/PARENTHESIS EXCEED WAC NR 140 PREVENTIVE ACTION LIMITS

RESULTS INDICATED IN RED/UNDERLINED EXCEED WAC NR 140 ENFORCEMENT STANDARDS

-j: CONCENTRATION BETWEEN LABORATORY LIMIT OF DETECTION AND QUANTITATION LIMIT.

LEGEND:

- APPROXIMATE EXTENT OF DISSOLVED PHASE PETROLEUM GROUNDWATER IMPACT EXCEEDING THE NR 140 ENFORCEMENT STANDARDS
- FENCE
- MW1 — GROUNDWATER MONITORING WELL
- W — WATER LINE
- FIRE HYDRANT
- UE — UNDERGROUND ELECTRIC LINE
- ST — STORM SEWER LINE
- TELECOMMUNICATIONS LINE
- G — GAS LINE
- FORMER USTs AND COMPONENTS
- BM — BENCHMARK: TOP OF HYDRANT ASSUMED ELEVATION = 100.0'

GILES ENGINEERING ASSOCIATES, INC.
N8 W22350 JOHNSON DRIVE, SUITE A1
WAUKESHA, WI 53186 (262)-544-0118

FIGURE 9
GROUNDWATER ANALYTICAL RESULTS
VACANT LOT
4227 NORTH TEUTONIA AVENUE
MILWAUKEE, WISCONSIN

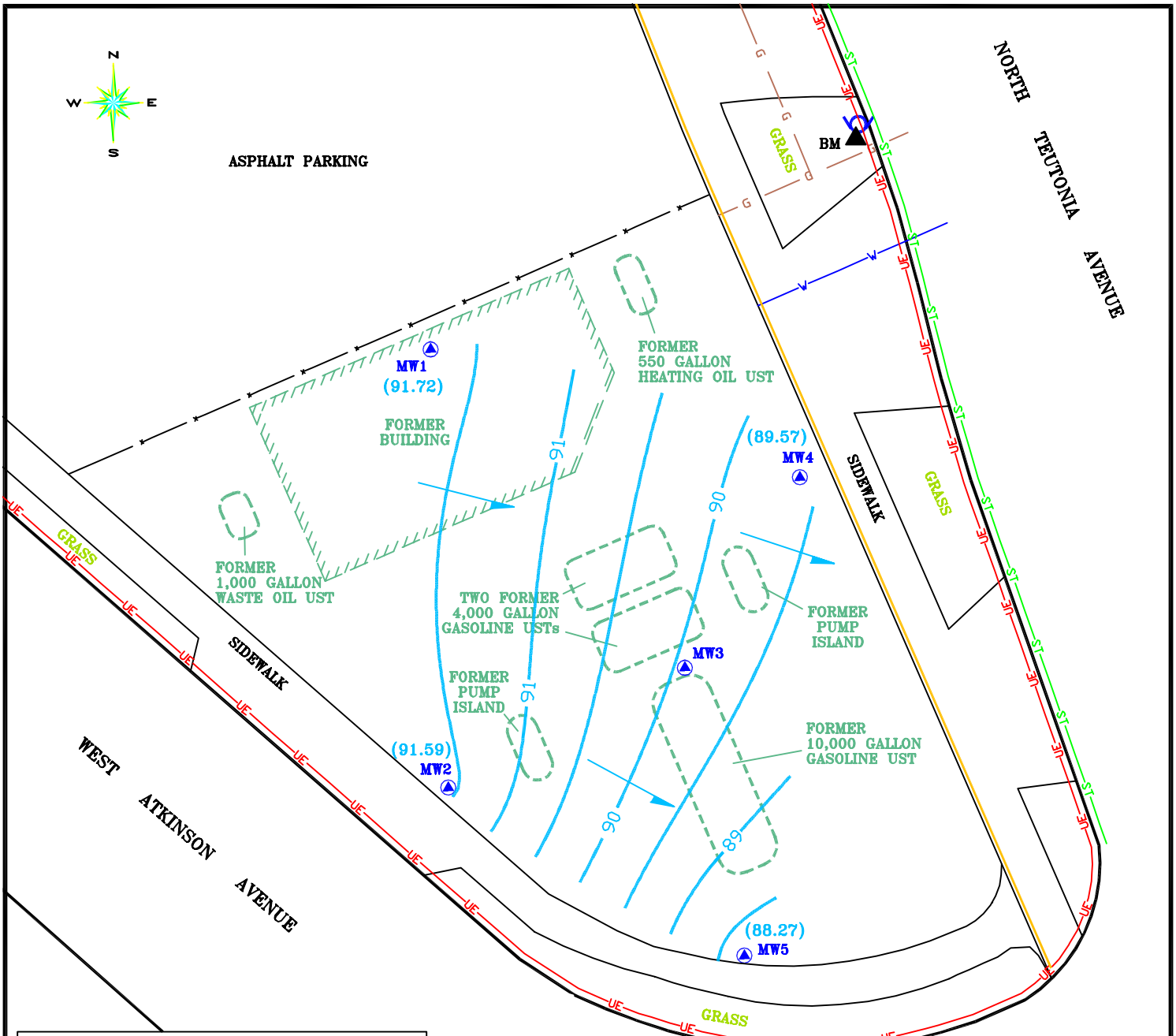
DESIGNED	DRAWN	SCALE	DATE	REVISED
TJB	JSZ	1"=20'	07-13-05	04-24-06
PROJECT NO.: 1E-0504001			CAD No. 1E0504001C	

TABLE 1
Groundwater Elevation and Survey Data

Vacant Lot
4227 North Teutonia Avenue
Milwaukee, Wisconsin
Project No. 1E-0504001

Well No.	Top of PVC Elevation	Ground Elevation	Borehole		Screen			Groundwater			
			Depth of borehole	Elevation of borehole bottom	Screen length (ft)	Elevation of screen bottom	Elevation of screen top	Date of Measure-ment	Depth from PVC	Depth from Ground Surface	Elevation
MW-1	101.06	97.94	20.50	77.44	15.00	77.94	92.94	6/27/2005	7.53	4.41	93.53
								10/27/2005	9.34	6.22	91.72
								2/2/2006	7.87	4.75	93.19
								3/29/06	7.89	4.77	93.17
MW-2	101.08	98.07	20.50	77.57	15.00	78.07	93.07	6/27/2005	8.55	5.54	92.53
								10/27/2005	9.49	6.48	91.59
								2/2/2006	8.58	5.57	92.50
								3/29/06	8.72	5.71	92.36
MW-3	101.55	98.39	20.50	77.89	15.00	78.39	93.39	6/27/2005	8.37	5.21	93.18
								10/27/2005	9.01	5.85	92.54
								2/2/2006	7.84	4.68	93.71
								3/29/06	7.92	4.44	93.63
MW-4	101.29	98.39	20.50	77.89	15.00	78.39	93.39	6/27/2005	17.34	14.44	83.95
	100.66	**						10/27/2005	11.09	8.82	89.57
								2/2/2006	12.89	10.62	87.77
								3/29/06	12.16	9.57	88.50
MW-5	101.31	98.36	20.50	77.86	15.00	78.36	93.36	6/27/2005	19.07	16.12	82.24
								10/27/2005	13.04	10.09	88.27
								2/2/2006	11.98	9.03	89.33
								3/29/06	11.57	8.33	89.74

Note: all units expressed in feet
Benchmarks: Elevations referenced to the north top flange of the fire hydrant = 100.00 feet, located to the northeast of the Site.
**: Well cover damaged, repaired and resurveyed on October 27, 2005.



LEGEND:

- 89 — GROUNDWATER CONTOUR INTERVAL = 0.50'
- GROUNDWATER FLOW DIRECTION
- (88.27) — GROUNDWATER ELEVATION (IN FEET REFERENCED TO ARBITRARY BENCHMARK)
- FENCE
- MW1 — GROUNDWATER MONITORING WELL
- W — WATER LINE
- FIRE HYDRANT
- UE — UNDERGROUND ELECTRIC LINE
- ST — STORM SEWER LINE
- TELECOMMUNICATIONS LINE
- G — GAS LINE
- FORMER USTs AND COMPONENTS
- BM — BENCHMARK: TOP OF HYDRANT ASSUMED ELEVATION = 100.0'

0 5 10 20

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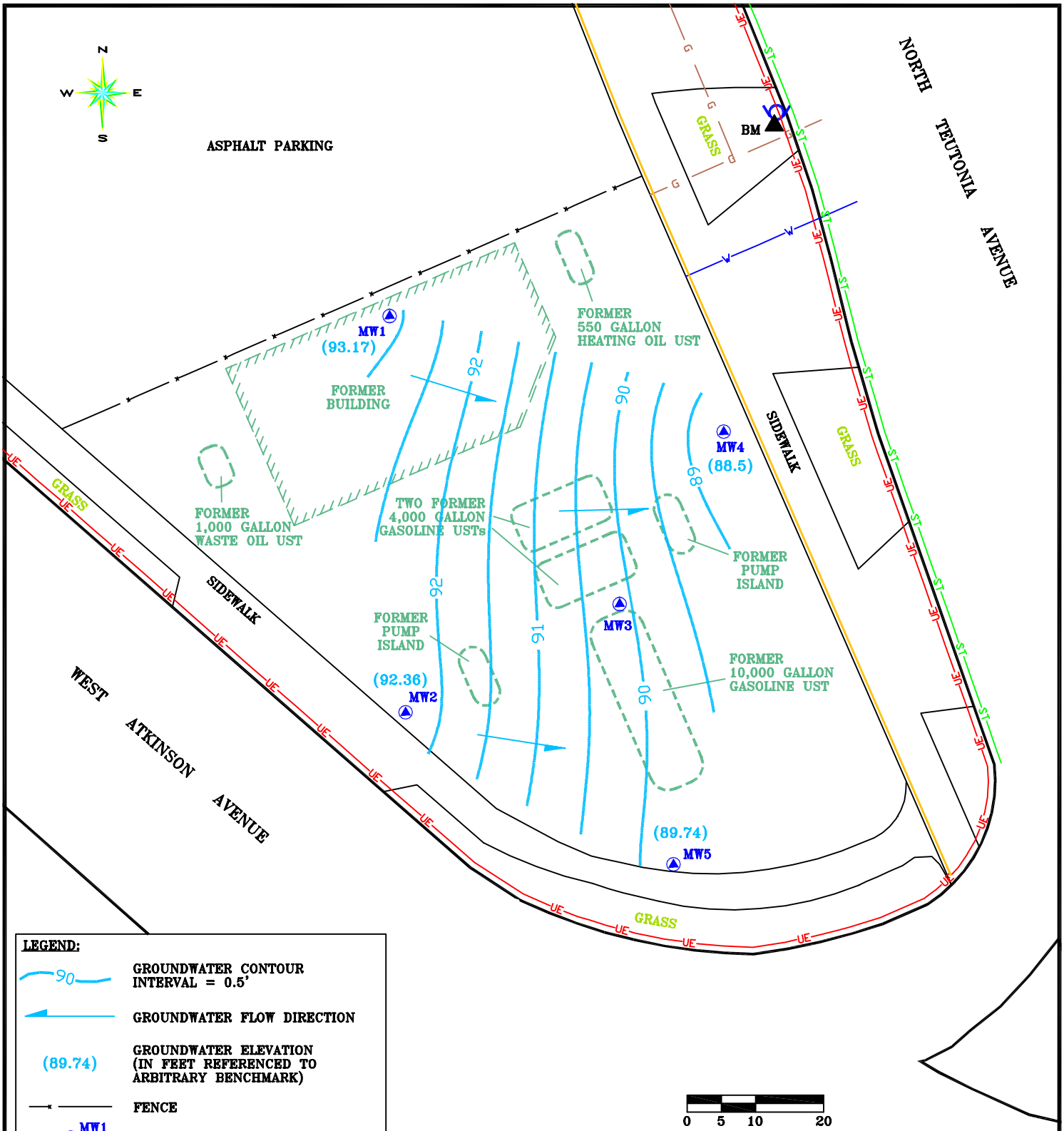
WAUKESHA, WI 53186 (262)-544-0118

FIGURE 6
GROUNDWATER CONTOUR MAP (10/27/05)
VACANT LOT
4227 NORTH TEUTONIA AVENUE
MILWAUKEE, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
SCT	JSZ	1"=20'	04-24-06	--
PROJECT NO.: 1E-0504001			CAD No. 1E0504001F	



LEGEND:

90	GROUNDWATER CONTOUR INTERVAL = 0.5'
	GROUNDWATER FLOW DIRECTION
(89.74)	GROUNDWATER ELEVATION (IN FEET REFERENCED TO ARBITRARY BENCHMARK)
	FENCE
MW1	GROUNDWATER MONITORING WELL
W	WATER LINE
	FIRE HYDRANT
UE	UNDERGROUND ELECTRIC LINE
ST	STORM SEWER LINE
	TELECOMMUNICATIONS LINE
G	GAS LINE
	FORMER USTs AND COMPONENTS
BM	BENCHMARK: TOP OF HYDRANT ASSUMED ELEVATION = 100.0'

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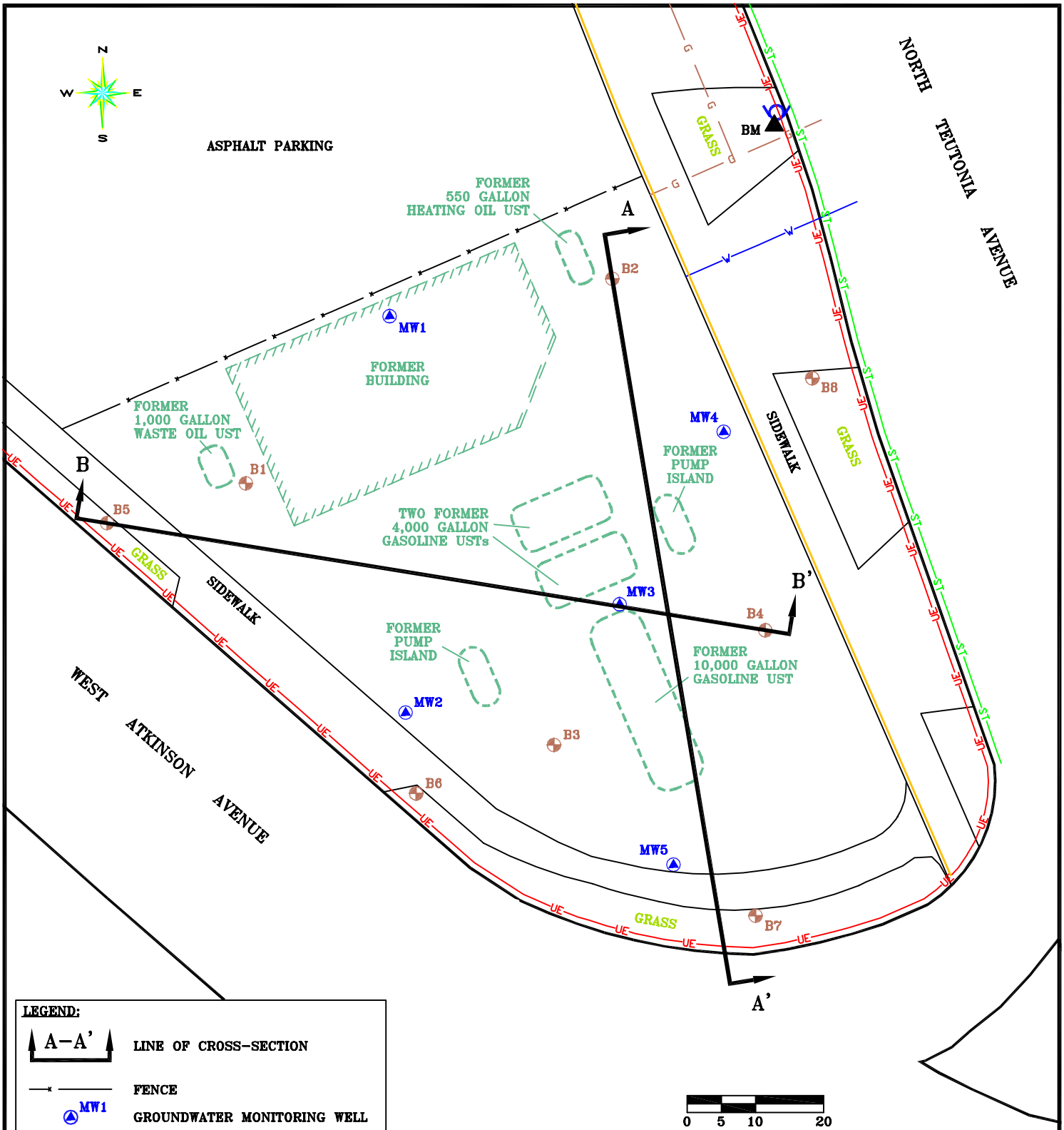
WAUKESHA, WI 53186 (262)-544-0118

FIGURE 7
GROUNDWATER CONTOUR MAP (3/29/06)
VACANT LOT
4227 NORTH TEUTONIA AVENUE
MILWAUKEE, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
SCT	JSZ	1"=20'	04-24-06	--
PROJECT NO.: 1E-0504001			CAD No. 1E0504001G	



LEGEND:

A–A'	LINE OF CROSS-SECTION
	FENCE
MW1	GROUNDWATER MONITORING WELL
B1	SOIL BORING
W	WATER LINE
	FIRE HYDRANT
UE	UNDERGROUND ELECTRIC LINE
ST	STORM SEWER LINE
	TELECOMMUNICATIONS LINE
G	GAS LINE
	FORMER USTs AND COMPONENTS
BM	BENCHMARK: TOP OF HYDRANT ASSUMED ELEVATION = 100.0'

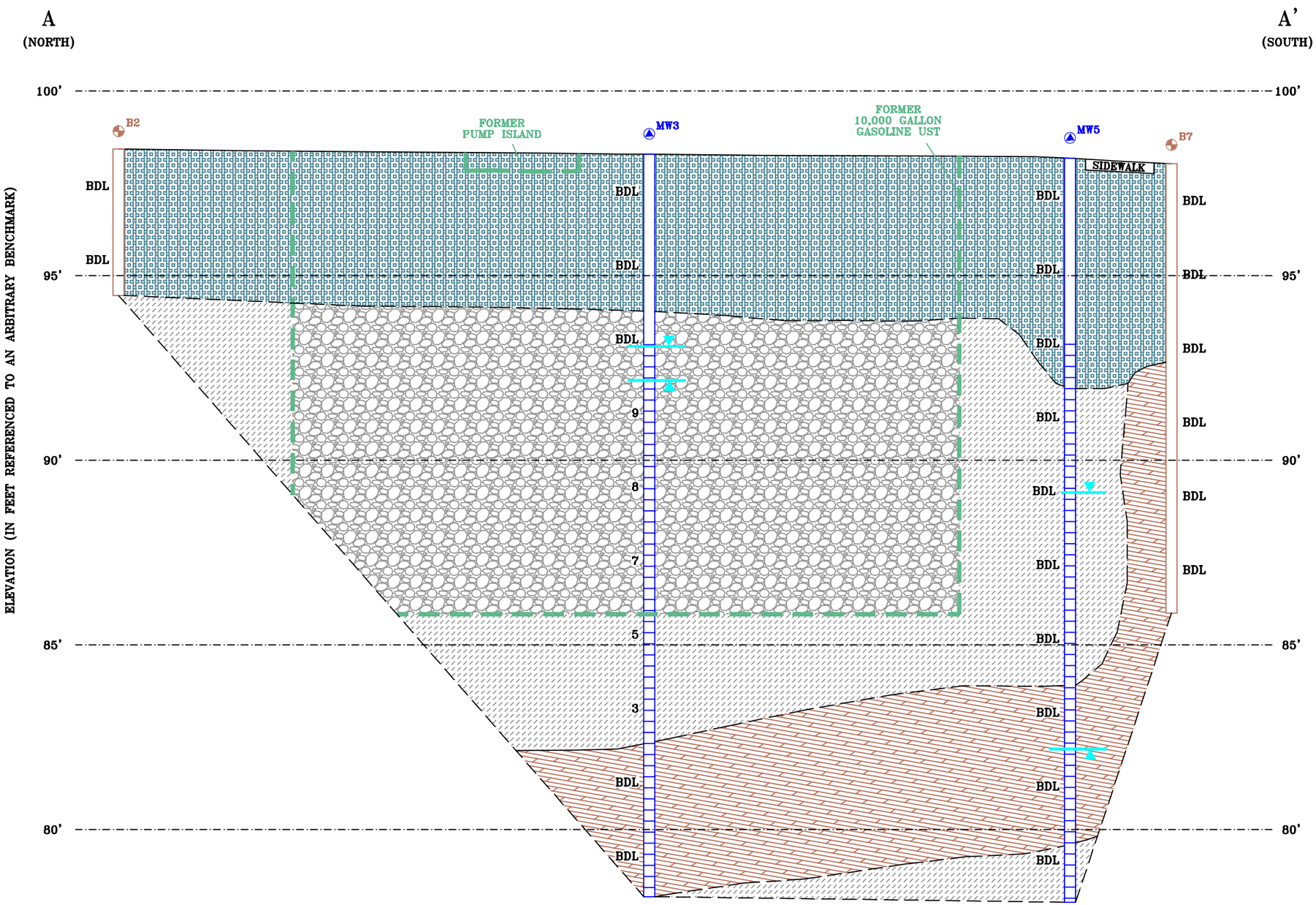
GILES ENGINEERING ASSOCIATES, INC.
N8 W22350 JOHNSON DRIVE, SUITE A1
WAUKESHA, WI 53186 (262)-544-0118

FIGURE 3
CROSS-SECTION LOCATION PLAN
VACANT LOT
4227 NORTH TEUTONIA AVENUE
MILWAUKEE, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
SCT	JSZ	1"=20'	04-24-06	--
PROJECT NO.: 1E-0504001			CAD No. 1E0504001E	

CROSS-SECTION A-A'

SCALE: VERTICAL 1" = 3'
HORIZONTAL 1" = 10'



SOIL KEY:

- FILL: CLAYEY SILT
- FILL: PEA GRAVEL
- CLAYEY SILT
- SILTY CLAY
- SOIL CONTACT LINES ARE INFERRED

LEGEND:

- MW3 — GROUNDWATER MONITORING WELL
- WELL SCREEN
- B2 — SOIL BORING
- HIGH STATIC WATER LEVEL (2/2/06)
- LOW STATIC WATER LEVEL (MW3 – 10/27/05) (MW5 – 6/27/05)
- 3 — PHOTOIONIZATION DETECTOR (PID) READING
- BDL — BELOW PID DETECTION LIMIT

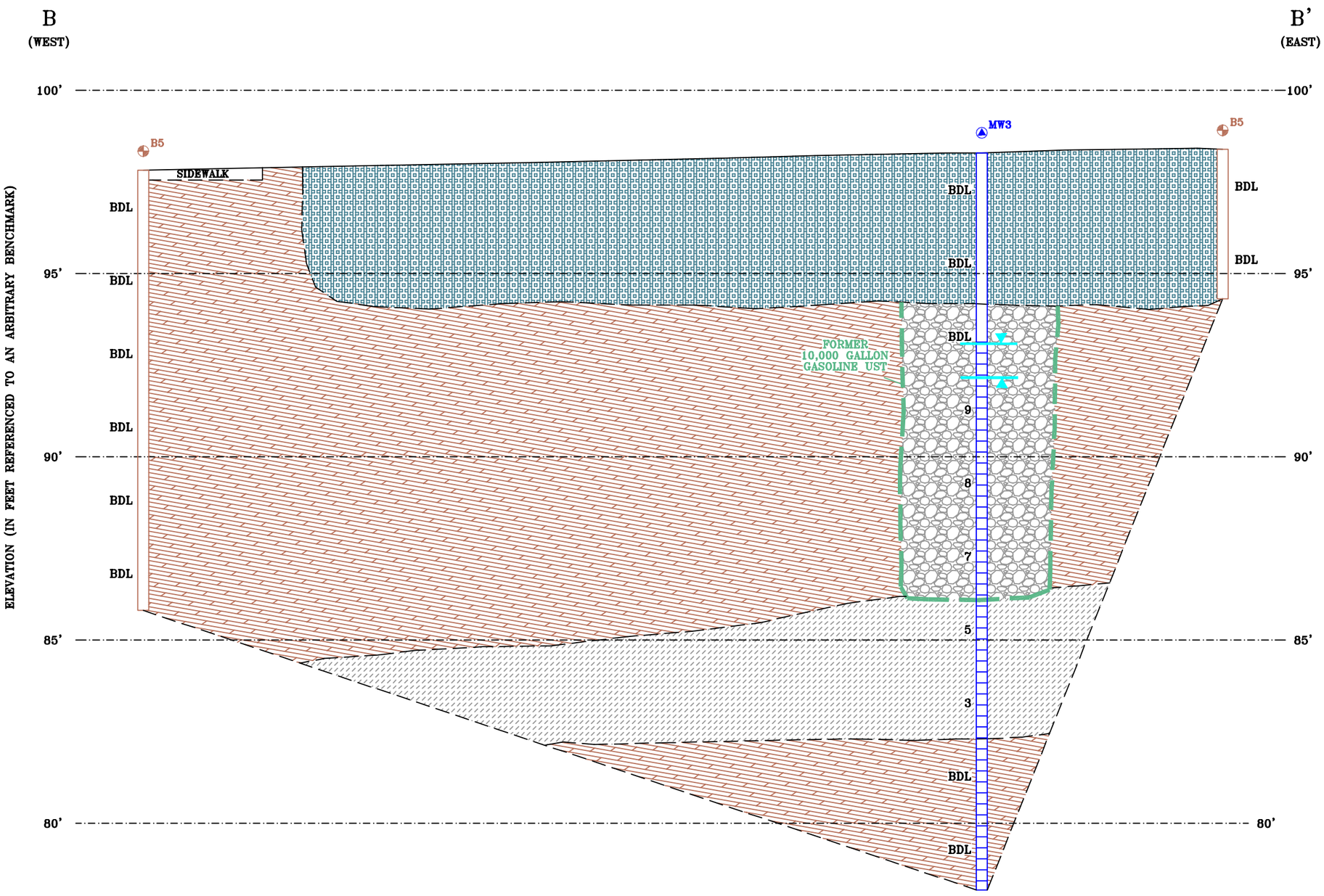
GILES ENGINEERING ASSOCIATES, INC.
N8 W22350 JOHNSON DRIVE, SUITE A1
WAUKESHA, WI 53186 (262)-544-0118

FIGURE 4
CROSS-SECTION A-A'
VACANT LOT
4227 NORTH TEUTONIA AVENUE
MILWAUKEE, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
SCT	JSZ	SEE TITLE	04-24-06	--
PROJECT NO.: 1E-0504001			CAD No. 1E0504001H	

CROSS-SECTION B-B'

SCALE: VERTICAL 1" = 3'
HORIZONTAL 1" = 10'



SOIL KEY:

- FILL: CLAYEY SILT
- FILL: PEA GRAVEL
- CLAYEY SILT
- SILTY CLAY
- SOIL CONTACT LINES ARE INFERRED

LEGEND:

MW3	GROUNDWATER MONITORING WELL
	WELL SCREEN
B4	SOIL BORING
	HIGH STATIC WATER LEVEL (2/2/06)
	LOW STATIC WATER LEVEL (10/27/05)
3	PHOTOIONIZATION DETECTOR (PID) READING
BDL	BELOW PID DETECTION LIMIT

GILES ENGINEERING ASSOCIATES, INC.
N8 W22350 JOHNSON DRIVE, SUITE A1
WAUKESHA, WI 53186 (262)-544-0118

FIGURE 5
CROSS-SECTION B-B'
VACANT LOT
4227 NORTH TEUTONIA AVENUE
MILWAUKEE, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
SCT	JSZ	SEE TITLE	04-25-06	--
PROJECT NO.: 1E-0504001			CAD No. 1E0504001I	

The Redevelopment Authority of the City of Milwaukee (RACM), as the party responsible for petroleum impacts originating at 4227 North Teutonia Drive, Milwaukee, Wisconsin, believes that the current legal description for 4227 North Teutonia Drive (Parcel 66, Tax Key Number 245-1913-000-5) has been attached, and is legally described in the Judgment recorded as Document No. 08820963, recorded on July 14, 2004, which completely and accurately describes the complete parcel of the property (BRRTS No. 03-41-546637).

By: Benjamin Timm

Title: Environ Project Coord.

Date: 4/27/04

GILES
ENGINEERING ASSOCIATES, INC.

GEOTECHNICAL, ENVIRONMENTAL & CONSTRUCTION MATERIALS CONSULTANTS

- Atlanta, GA
- Dallas, TX
- Los Angeles, CA
- Milwaukee, WI
- Orlando, FL
- Washington, D.C.

April 27, 2006

Mr. Ronald Leonhardt
City Clerk, City of Milwaukee
200 East Wells Street, Room 205
Milwaukee, WI 53202

RE: Notice of Residual Solvent/Petroleum Impacts
within Public Street or Right-of-Way
4227 North Teutonia Avenue
Milwaukee, Wisconsin
BRRTS No. 03-41-542436
FID No: 241608400
Giles Project No. 1E-0504001

Dear Mr. Leonhardt:

Enclosed please find a copy of the Notice of Residual Petroleum Impacts correspondence, which was submitted to the City of Milwaukee - Department of Public Works. Chapter NR 726.05 (2)(b)(4) of the Wisconsin Administrative Code requires the Municipal Clerk and Municipal Department responsible for maintaining the street or highway be given written notification of the presence of petroleum impacts within the right-of-way. The attached letter serves as this notification. Please place a copy of this notification in the appropriate files.

If you have any questions or comments regarding this notification, please feel free to contact us at (262) 544-0118.

Sincerely,

GILES ENGINEERING ASSOCIATES, INC.

Steven C. Thuemling
Project Manager

Richard A. Kormanik, P.E.
Senior Project Manager

Enclosures: *Notice of Residual Petroleum Impacts within Public Street or Right-of-Way*

Distribution: City Clerk, City of Milwaukee
Attn: Mr. Ronald Leonhardt (1)
Redevelopment of the City of Milwaukee
Attn: Mr. Benjamin Timm (1, cover only)

N8 W22350 Johnson Drive • Suite A1 • Waukesha, WI 53186
262 / 544-0118 • Fax 262 / 549-5868 • E-Mail milwauke@gilesengr.com

GILES
ENGINEERING ASSOCIATES, INC.
GEOTECHNICAL, ENVIRONMENTAL & CONSTRUCTION MATERIALS CONSULTANTS

• Atlanta, GA
• Dallas, TX
• Los Angeles, CA
• Milwaukee, WI
• Orlando, FL
• Washington, D.C.

April 27, 2006

Mr. Jeffrey Polenske
City Engineer, City of Milwaukee
Department of Public Works
Infrastructure Services Division
841 North Broadway
Milwaukee, WI 53202

RE: Notice of Residual Petroleum Impacts
within Public Street or Right-of-Way
4227 North Teutonia Avenue
Milwaukee, Wisconsin
BRRTS No. 03-41-542436
FID No: 241608400
Giles Project No. 1E-0504001

Dear Mr. Polenske:

On behalf of the City of Milwaukee, Giles Engineering Associates, Inc. (Giles) is notifying the City of Milwaukee Department of Public Works of residual petroleum hydrocarbon impacts within the soil and groundwater located to the east and west of 4227 North Teutonia Drive in the City of Milwaukee. The impacted public rights-of-way include the sidewalk areas to the east of West Atkinson Avenue and to the west of North Teutonia Avenue right-of-way. Giles is petitioning the Wisconsin Department of Commerce for case closure for the above-referenced Site, conditional upon filing of the appropriate geographic information system (GIS) registry information and notifying municipal authorities of the soil and groundwater impacts extending into public right-of-ways.

Giles is notifying your department pursuant to Wisconsin Administrative Code, Chapter NR 726.05 (2)(b)(4) of the potential presence of soil and groundwater impacts beneath rights-of-way, which may exceed applicable Wisconsin Administrative Code, Chapter NR 720 standards for soil and NR 140 standards for groundwater. Giles has performed subsurface investigation and groundwater monitoring activities at, and in the vicinity of, the above-referenced Site. Enclosed are soil and groundwater quality maps showing soil boring and monitoring well locations and soil and groundwater quality data.

If future construction activities require dewatering, or if soil and/or groundwater are to be otherwise removed at, and in the vicinity of, the above-referenced Site, the soil and/or groundwater shall be sampled and managed in compliance with applicable statutes and rules.

N8 W22350 Johnson Drive • Suite A1 • Waukesha, WI 53186
262 / 544-0118 • Fax 262 / 549-5868 • E-Mail milwauke@gilesengr.com

If you have any questions or comments, please contact us at (262) 544-0118.

Sincerely,

GILES ENGINEERING ASSOCIATES, INC.

Steven C. Thuemling
Project Manager

Richard A. Kormanik, P.E.
Senior Project Manager

Enclosures: Soil Analytical Results Figure
Groundwater Analytical Results Figure

Distribution: City Engineer, City of Milwaukee
Attn: Mr. Jeffrey Polenske (1)
Redevelopment Authority of the City of Milwaukee
Attn: Mr. Benjamin Timm (1)
City of Milwaukee City Clerk
Attn: Mr. Ronald Leonhardt (1)