WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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

Southeast Region Headquarters
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PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8606
TDD 414-263-8713

September 10, 1999

Mrs. Mary Jean Green
5224 Roberts Drive
Greendale, WI 53129

Subject: Case Closure, Elmars Service, Inc., 1221 North Chicago Ave., South Milwaukee, WI
FID: 241153660, BRRTS: 0341001956

Dear Mrs. Green:

This letter is to inform you that the Department has received a copy the groundwater use restriction, notification to the City of Milwaukee, and monitoring well abandonment forms for the above-subject site as required in M. McGee's letter to you on April 26, 1999. Based on the investigation, remedial documentation and documents provided to the department referenced in the previous sentence, it appears that the above-named site is in compliance with the requirements of Chs. NR 700 to 724, Wis. Admin. Code. The site is officially closed and tracked as such on the Department's tracking system. However, the case may be reopened pursuant to s. NR 726.09, Wis. Admin. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare of the environment.

The Department appreciates the actions you have taken to investigate and remediate the contamination at this site. If you have any questions or comments, please feel free to contact me at the above address or at (414) 263-8644. Please refer to the FID number at the top of this letter in any future correspondence.

Sincerely,

John J. Hnat
Hydrogeologist
Remediation and Redevelopment

C: Ronald Hopp, Graef, Anhalt, Schloemer, & Assoc., Inc.
WDN SER Files

FID# 241153660

7783645

REGISTER'S OFFICE | SS
Milwaukee County, WI |

RECORDED AT 3:33 PM

08-02-1999

REEL_____IMAGE_____

WALTER R. BARCZAK
REGISTER OF DEEDS

AMOUNT 16.00

Document Number | GROUNDWATER USE RESTRICTION

Recording Area

Name and Return Address
MARY JEAN C. GREEN
5224 Roberts Dr
GREENDALE, WI 53129

Declaration of Restrictions

In Re: That part of the S.E. 1/4 of Section 2, T. 5 N., R. 22, in the City of South Milwaukee, Milwaukee County, State of Wisconsin, bounded and described as follows: Commencing at the intersection of the centerlines N. Chicago Avenue, and Hawthorne Avenue; thence N. 11° 09' 40" W., along the center line of the N. Chicago Avenue, 170.44 feet to a point; thence N. 78° 50' 20" E., 33 feet to a point; in the Easterly line of said N. Chicago Avenue, thence N. 78° 50' 20" E., 124.74 feet to a point; thence S. 14° 12' 30" E., 102.50 feet to a point; thence S. 9° 51' 00" E., 55.54 feet to a point; thence S. 33° 40' 30" W., 125.46 feet to a point in the centerline of Hawthorne Avenue; thence N. 55° 02' 00" W., along said centerline, 106.00 feet to the place of commencement, reserving the Southwesterly and Westerly 33 feet of the above for street purposes.

STATE OF WISCONSIN)
) ss
COUNTY OF Milwaukee)

WHEREAS, Mary Jean C. Green and Kathleen Ann Harris are the owners of the above-described property.

WHEREAS, one or more gasoline range organic compound discharges have occurred at this property. Benzene and MTBE contaminated groundwater above NR 140 enforcement standards exists on this property as of November 23, 1998 at the following location(s): Monitoring wells MW-2, MW-5, MW-11, and MW-12 represented on attached Figure 1. Benzene concentrations in MW-2 (540 ppb) and MW-1 (141 ppb) exceed current enforcement standards. In addition, MTBE concentrations in MW-5 (170 ppb), MW-11 (1,200 ppb), and MW-12 (620 ppb) exceed current enforcement standards. Also, diesel range organic (DRO) soil contamination exceeding NR 720 generic contaminant levels exists on the northern portion of this property as of October, 1992 at the following location(s): Soil sample location SS-97 (530 ppm) and SS-98 (770 ppm) represented on attached Figure 2.

WHEREAS, it is the desire and intention of the property owner to impose on the property restrictions which will make it unnecessary to conduct additional soil or groundwater remediation activities on the property at the present time.

WHEREAS, natural attenuation has been approved by the Department of Natural Resources to remediate groundwater exceeding ch. NR 140 groundwater standards within the boundaries of this property.

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WHEREAS, construction of wells where the water quality exceeds the drinking water standards in ch. NR 809 is restricted by ch. NR 811 and ch. NR 812. Special well construction standards or water treatment requirements, or both; or well construction prohibitions may apply.

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

> Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, or its successor agency, to determine what specific requirements are applicable, prior to constructing or reconstructing a well on this property. No well may be constructed or reconstructed on this property unless applicable requirements are met.

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

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that the restrictions set forth in this covenant are no longer required. Upon receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit, with a copy of the Department's written determination, may be recorded to give notice that this groundwater use restriction is no longer binding.

IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 28th day of July, 1999.

Signature: Mary Jean C. Green, President, MJFA, Inc

Printed Name: MARY JEAN C. GREEN

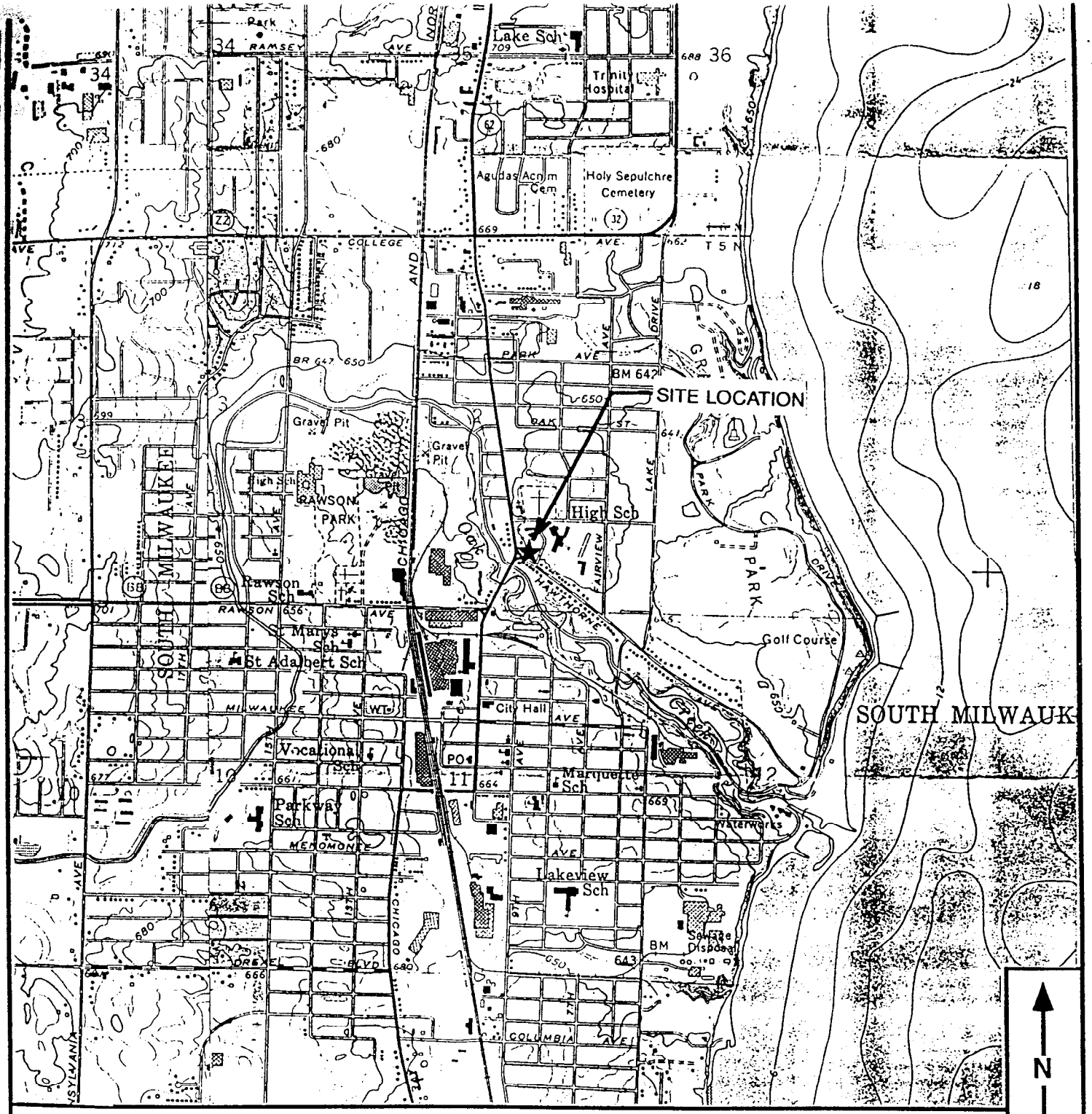
Subscribed and sworn to before me this 28th day of July 1999.

Brenda E. Frank

Notary Public, State of Wisconsin

My commission 9/8/02

This document was drafted by the Wisconsin Department of Natural Resources.



SOURCE: 1971 USGS 7.5 MINUTE SERIES SOUTH MILWAUKEE AND GREENDALE, WISCONSIN QUADRANGLES

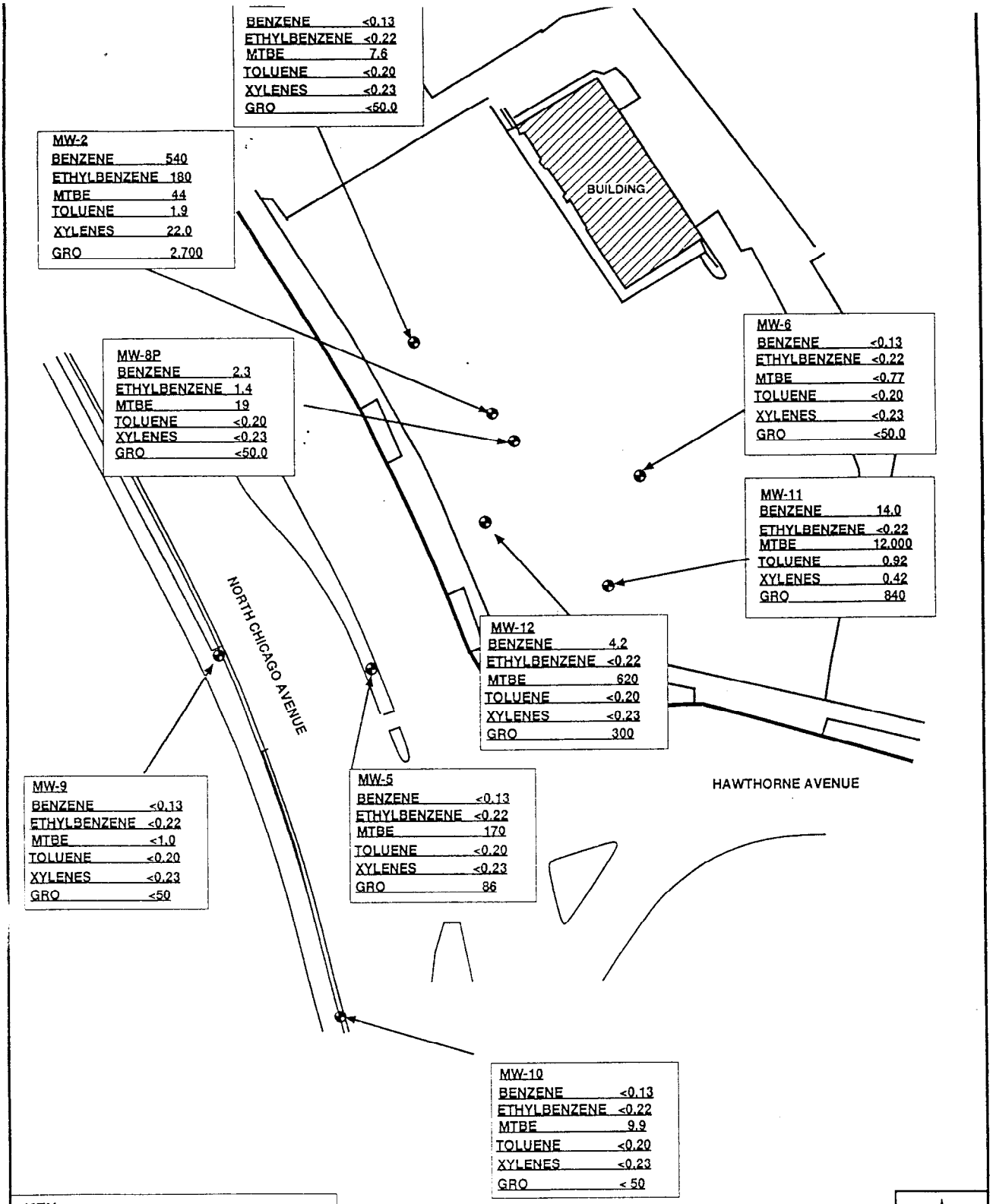
SITE LOCATION MAP

ELMAR'S SERVICE STATION
1221 NORTH CHICAGO AVE.
SOUTH MILWAUKEE, WISCONSIN

SCALE:	1" = 2000'
DATE:	5-27-92
PROJECT MGR:	BIH
DRAWN BY:	JDJ
JOB NUMBER:	918026
REVISION DATE:	

GRAEF ANHALT SCHLOEMER and Associates Inc.
ENGINEERS & SCIENTISTS

FIGURE 1



KEY

⊕	MONITORING WELL
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
TMB	TRIMETHYLBENZENE
MTBE	METHYL-TERT-BUTYL ETHER
GRO	GASOLINE RANGE ORGANICS

ALL RESULTS IN PARTS PER BILLION

N

EXTENT OF GROUNDWATER CONTAMINATION

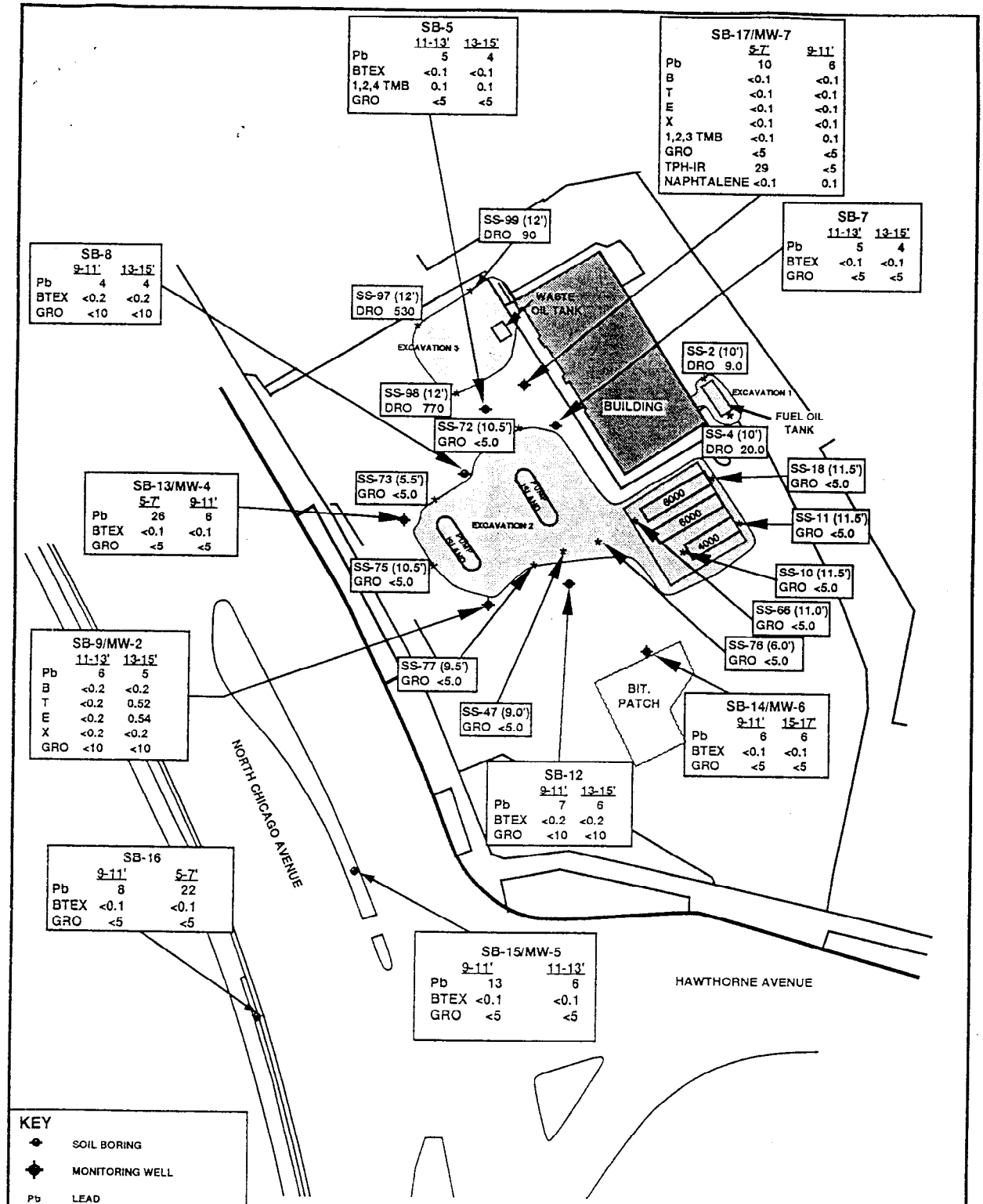
11-23-98 SAMPLING EVENT

ELMAR'S SERVICE STATION
1221 NORTH CHICAGO AVE.
SOUTH MILWAUKEE, WI

SCALE:	1"=30'
DATE:	6-7-99
PROJECT MGR:	LFB
DRAWN BY:	EGD
JOB NUMBER:	918026
REVISION DATE:	

GRAEF ANHALT SCHLOEMER and Associates Inc.
CONSULTING ENGINEERS

918026.DGB



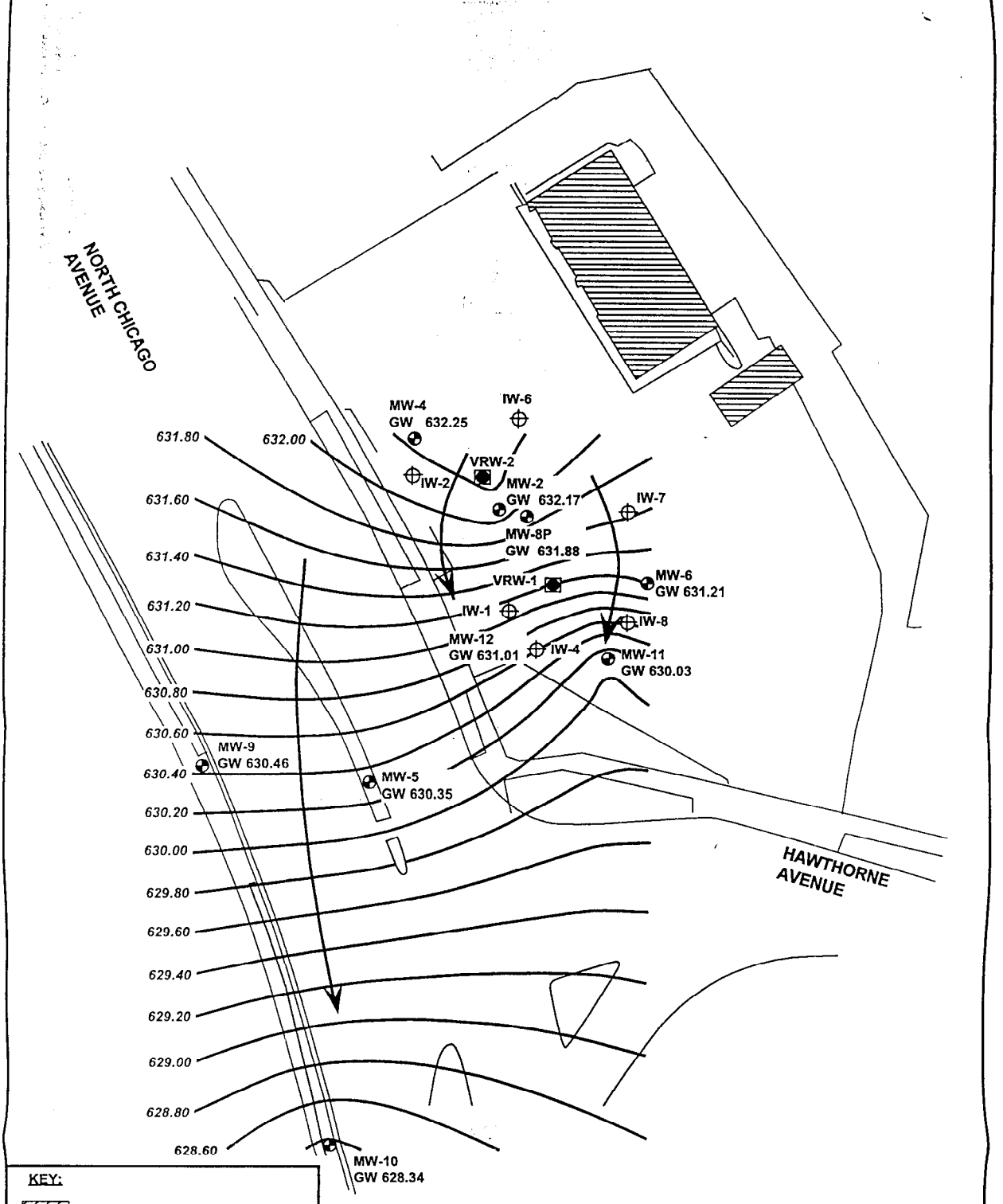
SOIL SAMPLE LOCATION WITH ANALYTICAL RESULTS

ELMAR'S SERVICE STATION
1221 NORTH CHICAGO AVE.
SOUTH MILWAUKEE, WI

SCALE:	1"=30'
DATE:	3-5-92
PROJECT MGR:	RLH
DRAWN BY:	MRW/JZ
JOB NUMBER:	918026
REVISION DATE:	07-23-99

GRAEF ANHALT SCHLOEMER and Associates Inc.
CONSULTING ENGINEERS

SOIL



KEY:

- BUILDING
- INJECTION WELL
- VAPOR EXTRACTION WELL
- MONITORING WELL
- 630.0 — INFERRED GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER FLOW DIRECTION
- GW 630.13 — GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

NOTE: GROUNDWATER ELEVATIONS WERE MEASURED AFTER SHUTDOWN OF REMEDIAL SYSTEM

N

GROUNDWATER ELEVATION AND DIRECTION DECEMBER 23, 1998

ELMAR'S SERVICE SITE
1221 NORTH CHICAGO AVE.
SOUTH MILWAUKEE, WI

SCALE:	1" = 30'
DATE:	1-6-99
PROJECT MGR:	RLH
DRAWN BY:	TMW
JOB NUMBER:	918026
REVISION DATE:	

GRAEF ANHALT SCHLOEMER and Associates Inc.
ENGINEERS AND SCIENTISTS

FIGURE 1

GW12-98.CVS

TABLE 1 (continued)
GROUNDWATER ANALYTICAL RESULTS

ELMAR'S SERVICE SITE
SOUTH MILWAUKEE, WISCONSIN

COMPOUND	NR 140		MW-11									MW-12							
	ES	PAL	12/16/93	10/30/95	1/23/96	5/3/96	8/7/96	11/11/96	3/11/97	8/7/97	11/18/97	10/30/95	1/23/96	5/3/96	8/7/96	11/11/96	3/11/97	8/7/97	11/18/97
Benzene	5	0.5	<2.00	**14**	**6.4**	**0.93**	**1.5**	**0.98**	<0.13	**17**	**<8.7**	<2.0	<0.50	<0.50	<0.50	0.92	<0.13	**1.9**	**<2.1**
Toluene	343	68.6	3.07	<5.0	<5.0	<1.0	<1.0	<1.0	<0.20	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<1.0	1.6
Ethylbenzene	1,360	272	<2.00	<5.0	<5.0	<1.0	<1.0	<1.0	<0.22	<1.1	<2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<0.22	<1.1	<1.1
Xylenes	620	124	2.27	<15	<15	<3.0	<3.0	<3.0	<0.23	<1.2	<2.3	<3.0	<3.0	<3.0	<3.0	<3.0	<0.23	<1.2	1.7
MTBE	60	12	**3,022**	**8,600**	**1,600**	**470**	**490**	**560**	**380**	**730**	**860**	**2,200**	**82**	**36**	**130**	**420**	**340**	**680**	**420**
1,2,4-TMB	NE	NE	<2.00	<5.0	<5.0	<1.0	<1.0	<1.0	<0.22	<1.1	<2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<0.22	<1.1	<1.1
1,3,5-TMB	NE	NE	<2.00	<5.0	<5.0	<1.0	<1.0	<1.0	<0.29	<1.4	<2.9	<1.0	<1.0	<1.0	<1.0	<1.0	<0.29	<1.4	<1.4
GRO	NE	NE	9,520	4,100	790	250	250	220	180	510	610	990	<50	<50	71	150	170	340	200
DRO	NE	NE	10,700	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-IR	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthylene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Anthracene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)anthracene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(b)fluoranthene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(k)fluoranthene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)pyrene	0.003	0.0003	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(ghi)perylene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chrysene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NTN
Dibenzo(a,h)anthracene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluoranthene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	40	8	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Pyrene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Polychlorinated Biphenyls	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methylene Chloride	150	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Butylbenzene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Propylbenzene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

NE = none existing
NT = not tested
ND = not detected
TPH-IR = Total Petroleum Hydrocarbons (Infra-Red Method)
MTBE = Methyl tert-butyl ether
GRO = Gasoline Range Organics
TMB = Trimethylbenzene

= exceeds WDNR Enforcement Standards (ES)
= exceeds WDNR Preventive Action Limits (PAL)

12-16-93 samples analyzed by Suburban Laboratories.
All other samples analyzed by NET Labs, Watertown.
**Screened 20-25 feet bgs.*
MW-1 was removed in October, 1993, during excavation.
MW-3 was destroyed in June, 1995, during remediation system installation.
MW-7 was removed in October, 1993, during excavation.

918026 T11 GW ANL

TABLE 1 (continued)
GROUNDWATER ANALYTICAL RESULTS

ELMAR'S SERVICE SITE
SOUTH MILWAUKEE, WISCONSIN

	NR 140		MW-9											MW-10										
COMPOUND	ES	PAL	2/8/93	7/8/93	12/16/93	10/30/96	1/23/96	5/3/96	8/7/96	11/11/96	3/11/97	8/7/97	11/18/97	2/8/93	7/8/93	12/16/93	10/30/95	1/23/96	5/3/96	8/7/96	11/11/96	3/11/97	8/7/97	11/19/97
Benzene	5	0.5	<1	<1	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.13	0.16	<0.13	<1	<1	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.13	<0.13	<0.13
Toluene	343	68.6	3.1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	1.4	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20
Ethylbenzene	1,360	272	<1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.22	<0.22	<0.22	<1.0	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.22	<0.22	<0.22
Xylenes	620	124	5.8	<3	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<0.23	<0.23	<0.23	3.2	<3	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<0.23	<0.23	<0.23
MTBE	60	12	7.1	<1	<2.0	1.5	<1.0	<1.0	<1.0	<1.0	1.5	<0.16	0.7	<1	8.5	<2.0	**25**	**20**	**16**	**14**	**20**	**7.7**	**15**	**12**
1,2,4-TMB	NE	NE	1.5	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.22	<0.22	<0.22	1.1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.22	<0.22	<0.22
1,3,5-TMB	NE	NE	<1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.29	<0.29	<0.29	<1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.29	<0.29	<0.29
GRO	NE	NE	<50	<50	350	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50
DRO	NE	NE	NT	<100	<100	NT	NT	NT	NT	NT	NT	NT	NT	NT	<100	<100	NT	NT	NT	NT	NT	NT	NT	NT
TPH-IR	NE	NE	<1,000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<1,000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthylene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Anthracene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)anthracene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(b)fluoranthene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(k)fluoranthene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)pyrene	0.003	0.0003	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(ghi)perylene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chrysene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dibenzo(a,h)anthracene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluoranthene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	40	8	<1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Pyrene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Polychlorinated Biphenyls	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methylene Chloride	150	15	<10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	23	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Butylbenzene	NE	NE	<1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Propylbenzene	NE	NE	<1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

NE = none existing
NT = not tested
ND = not detected
TPH-IR = Total Petroleum Hydrocarbons (Infra-Red Method)
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All other samples analyzed by NET Labs, Watertown.
**Screened 20-25 feet bgs.*
MW-1 was removed in October, 1993, during excavation.
MW-3 was destroyed in June, 1995, during remediation system installation.
MW-7 was removed in October, 1993, during excavation.

TABLE 1 (continued)
GROUNDWATER ANALYTICAL RESULTS

ELMAR'S SERVICE SITE
SOUTH MILWAUKEE, WISCONSIN

COMPOUND	NR 140		MW-6													MW-7			MW-8P*									
	ES	PAL	3/31/92	9/29/92	1/29/93	7/8/93	12/16/93	10/30/95	1/23/96	5/3/96	8/7/96	11/11/96	3/11/97	8/7/97	11/18/97	9/29/92	1/29/93	7/8/93	2/8/93	7/8/93	12/16/93	10/30/95	5/3/96	8/7/96	11/11/96	3/11/97	8/7/97	11/19/97
Benzene	5	0.5	<1	<1	<1	<1	<2.0	<0.50	<0.50	<0.5	<0.5	<0.5	<0.13	<0.13	<0.13	<1	<1	<1	**850**	**230**	**120**	**190**	**4.1**	**5.9**	**4.4**	**0.89**	**1.8**	**<2.1**
Toluene	343	68.6	<1	<1	<1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	0.2	<0.20	<1	<1	<1	**7,100**	25	25	<1.0	<1.0	<1.0	<1.0	0.43	<0.20	<0.20
Ethylbenzene	1,360	272	<1	<1	<1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.22	<0.22	<0.22	<1	<1	<1	**670**	100	81	20	9.8	8.4	15	4.4	4.5	5.3
Xylenes	620	124	<3	<3	<3	<3	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<0.23	0.40	<0.23	<3	<3	<3	**9,300**	**1,000**	81	<5.0	<3.0	<3.0	<3.0	0.79	<0.23	<0.23
MTBE	60	12	<1	2.8	2.4	1.7	7.5	2.1	**17**	11	**18**	5.5	5.3	4.8	<4.0	<1	<1	<1	<100	**150**	**117**	**91**	**30**	**27**	**38**	**21**	**21**	**22**
1,2,4-TMB	NE	NE	<1	<1	<1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.22	0.32	0.43	<1	<1	<1	1,900	1,100	226	11	2	1.4	2.9	0.5	0.32	0.33
1,3,5-TMB	NE	NE	<1	<1	<1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.29	<0.29	<0.29	<1	<1	<1	650	360	225	42	<6.0	<1	<1	<0.29	<0.29	<0.29
GRO	NE	NE	<50	<50	<50	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50	NT	<50	<50	31,000	7,300	4,900	1,300	270	300	420	190	110	65
DRO	NE	NE	NT	NT	NT	<100	<100	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<100	NT	3,800	2,820	NT	NT	NT	NT	NT	NT	NT
TPH-IR	NE	NE	NT	NT	<1,000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<1,000	<1,000	NT	8,000	NT	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.4	<0.4	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthylene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<1.0	<1.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Anthracene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.2	<0.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)anthracene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.04	<0.04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(b)fluoranthene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.05	<0.05	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(k)fluoranthene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.02	<0.02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)pyrene	0.003	0.0003	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.2	<0.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(ghi)perylene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.1	<0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chrysene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.1	<0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dibenzo(a,h)anthracene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.05	<0.05	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluoranthene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.2	<0.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.1	<0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.1	<0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	40	8	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<1	<0.1	NT	390	NT	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.4	<0.4	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Pyrene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.2	<0.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Polychlorinated Biphenyls	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methylene Chloride	150	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10	NT	NT	<1,000	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Butylbenzene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<1	NT	NT	230	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Propylbenzene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<1	NT	NT	110	NT	NT	NT	NT	NT	NT	NT	NT	NT

NE = none existing
NT = not tested
ND = not detected
TPH-IR = Total Petroleum Hydrocarbons (Infra-Red Method)
MTBE = Methyl tert-butyl ether
GRO = Gasoline Range Organics
TMB = Trimethylbenzene

= exceeds WDNR Enforcement Standards (ES)
= exceeds WDNR Preventive Action Limits (PAL)

12-16-93 samples analyzed by Suburban Laboratories.
All other samples analyzed by NET Labs, Watertown.
**Screened 20-25 feet bgs.*
MW-1 was removed in October, 1993, during excavation.
MW-3 was destroyed in June, 1995, during remediation system installation.
MW-7 was removed in October, 1993, during excavation.

W:\8226.11 GW.XLS

TABLE 1 (continued)
GROUNDWATER ANALYTICAL RESULTS

ELMAR'S SERVICE SITE
SOUTH MILWAUKEE, WISCONSIN

COMPOUND	NR 140 ES	NR 140 PAL	MW-4 3/31/92	MW-4 9/29/92	MW-4 1/29/93	MW-4 7/8/93	MW-4 12/16/93	MW-4 10/30/95	MW-4 1/23/96	MW-4 5/3/96	MW-4 8/7/96	MW-4 11/11/96	MW-4 3/11/97	MW-4 8/7/97	MW-4 11/19/97
Benzene	5	0.5	<1	**2.1**	<1	<1	<2.0	<0.50	<0.50	<0.5	<0.5	<0.5	<0.13	<0.13	<0.13
Toluene	343	68.6	<1	2.5	<1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20
Ethylbenzene	1,360	272	2.6	1.5	<1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.22	<0.22	<0.22
Xylenes	620	124	16	4.9	<3	<3	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<0.23	<0.23	<0.23
MTBE	60	12	**180**	**93**	**74**	**52**	**53.7**	**22**	6.9	10	7	11	10	7.4	6.8
1,2,4-TMB	NE	NE	<1	1.2	<1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.22	<0.22	<0.22
1,3,5-TMB	NE	NE	<1	1.3	<1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.23	<0.29	<0.29
GRO	NE	NE	230	62	<50	<50	<100	<50	<50	<50	<50	<50	<50	<50	<50
DRO	NE	NE	NT	NT	NT	160	<100	NT	NT	NT	NT	NT	NT	NT	NT
TPH-IR	NE	NE	NT	<1,000	<1,000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthene	NE	NE	NT	NT	<0.4	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthylene	NE	NE	NT	NT	<1.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Anthracene	NE	NE	NT	NT	<0.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)anthracene	NE	NE	NT	NT	<0.04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(b)fluoranthene	NE	NE	NT	NT	<0.05	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(k)fluoranthene	NE	NE	NT	NT	<0.02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)pyrene	0.003	0.0003	NT	NT	<0.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(ghi)perylene	NE	NE	NT	NT	<0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chrysene	NE	NE	NT	NT	<0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dibenzo(a,h)anthracene	NE	NE	NT	NT	<0.05	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluoranthene	NE	NE	NT	NT	<0.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	NE	NE	NT	NT	<0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	NE	NE	NT	NT	<0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	40	8	NT	NT	<1.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	NE	NE	NT	NT	<0.4	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Pyrene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Polychlorinated Biphenyls	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methylene Chloride	150	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Butylbenzene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Propylbenzene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

COMPOUND	MW-5 3/31/92	MW-5 9/29/92	MW-5 1/29/93	MW-5 7/8/93	MW-5 12/16/93	MW-5 10/30/95	MW-5 1/23/96	MW-5 5/3/96	MW-5 8/7/96	MW-5 11/11/96	MW-5 3/11/97	MW-5 8/7/97	MW-5 11/18/97
Benzene	<1	<20	<1	<1	<2.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.13	<0.13	<0.13
Toluene	<1	<20	<1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20
Ethylbenzene	<1	<20	<1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.22	<0.22	<0.22
Xylenes	<3	<60	<3	<3	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<0.23	<0.23	<0.23
MTBE	10	**1,100**	4	3.8	**569**	**38**	5.8	2	5.7	**210**	**30**	**12**	**100**
1,2,4-TMB	<1	<20	<1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.22	<0.22	<0.22
1,3,5-TMB	<1	<20	<1	<1	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.29	<0.29	<0.29
GRO	<50	600	<50	<50	<100	<50	<50	<50	<50	90	<50	<50	<50
DRO	NT	NT	NT	<100	<100	NT	NT	NT	NT	NT	NT	NT	NT
TPH-IR	NT	NT	<1,000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthylene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Anthracene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)anthracene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(b)fluoranthene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(k)fluoranthene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)pyrene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(ghi)perylene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chrysene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dibenzo(a,h)anthracene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluoranthene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Pyrene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Polychlorinated Biphenyls	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methylene Chloride	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Butylbenzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Propylbenzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

NE = none existing
NT = not tested
ND = not detected
TPH-IR = Total Petroleum Hydrocarbons (Infra-Red Method)
MTBE = Methyl tert-butyl ether
GRO = Gasoline Range Organics
TMB = Trimethylbenzene

= exceeds WDNR Enforcement Standards (ES)
= exceeds WDNR Preventive Action Limits (PAL)

12-16-93 samples analyzed by Suburban Laboratories.
All other samples analyzed by NET Labs, Watertown.
**Screened 20-25 feet bgs.*
MW-1 was removed in October, 1993, during excavation.
MW-3 was destroyed in June, 1995, during remediation system installation.
MW-7 was removed in October, 1993, during excavation.

TABLE 1
GROUNDWATER ANALYTICAL RESULTS

ELMAR'S SERVICE SITE
SOUTH MILWAUKEE, WISCONSIN

	NR 140		MW-1				MW-2													MW-3			
COMPOUND	ES	PAL	2/17/92	9/29/92	2/26/93	7/8/93	2/17/92	9/29/92	2/26/93	7/8/93	12/16/93	10/30/95	1/23/96	5/10/96	8/7/96	11/11/96	3/11/97	8/7/97	11/19/97	2/17/92	9/29/92	1/29/93	7/8/93
Benzene	5	0.5	<1	NT	NT	<1	23,000	26,000	18,000	4,700	16.9	1,900	2,200	380	360	710	270	990	1,900	2.4	<1	<1	<1
Toluene	343	68.6	<1	NT	NT	<1	47,000	58,000	41,000	6,900	36.2	270	330	220	<10	<5.0	470	4.6	5.7	6.2	<1	<1	<1
Ethylbenzene	1,360	272	<1	NT	NT	<1	2,070	3,200	2,300	1,600	115	970	340	120	80	110	84	110	220	1.2	<1	<1	<1
Xylenes	620	124	<3	NT	NT	<3	12,000	21,000	23,000	14,000	77.3	5,000	2,000	570	130	86	1,200	51	40	5.4	<3	<3	<3
MTBE	60	12	<1	NT	NT	<1	14,000	14,000	440	200	33.7	<200	530	230	240	180	67	<120	150	<1	<1	<1	<1
1,2,4-TMB	NE	NE	<1	NT	NT	<1	2,000	2,900	3,500	4,000	232	2,300	1,100	570	400	550	520	260	400	1.1	<1	<1	<1
1,3,5-TMB	NE	NE	<1	NT	NT	<1	540	710	850	1,100	40.3	740	350	170	110	160	160	63	68	<1	<1	<1	<1
GRO	NE	NE	NT	NT	NT	<50	202,000	150,000	######	49,000	<100	18,000	13,000	3,800	3,000	4,800	6,000	3,900	6,400	66	<50	<50	<50
DRO	NE	NE	NT	NT	NT	<100	NT	NT	NT	18,000	29,100	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<100
TPH-IR	NE	NE	<1,000	<1,000	<1,000	NT	NT	22,000	10,000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<1,000	NT
Acenaphthene	NE	NE	<0.4	<0.4	<0.4	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthylene	NE	NE	1.73	<1.0	<0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Anthracene	NE	NE	0.35	<0.2	<0.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)anthracene	NE	NE	0.36	<0.04	<0.04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(b)fluoranthene	NE	NE	0.14	<0.05	<0.05	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(k)fluoranthene	NE	NE	0.14	<0.02	<0.02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(a)pyrene	0.003	0.0003	0.46	<0.2	<0.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo(ghi)perylene	NE	NE	0.4	<0.1	<0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chrysene	NE	NE	<0.4	<0.1	<0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dibenzo(a,h)anthracene	NE	NE	0.14	<0.05	<0.05	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluoranthene	NE	NE	0.43	<0.2	<0.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	NE	NE	<0.6	<0.1	<0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	NE	NE	0.3	<0.1	<0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	40	8	0.66	<1.0	<1.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	NE	NE	<0.4	<0.4	<0.4	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Pyrene	NE	NE	<0.8	<0.2	<0.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Polychlorinated Biphenyls	NE	NE	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methylene Chloride	150	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Butylbenzene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Propylbenzene	NE	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

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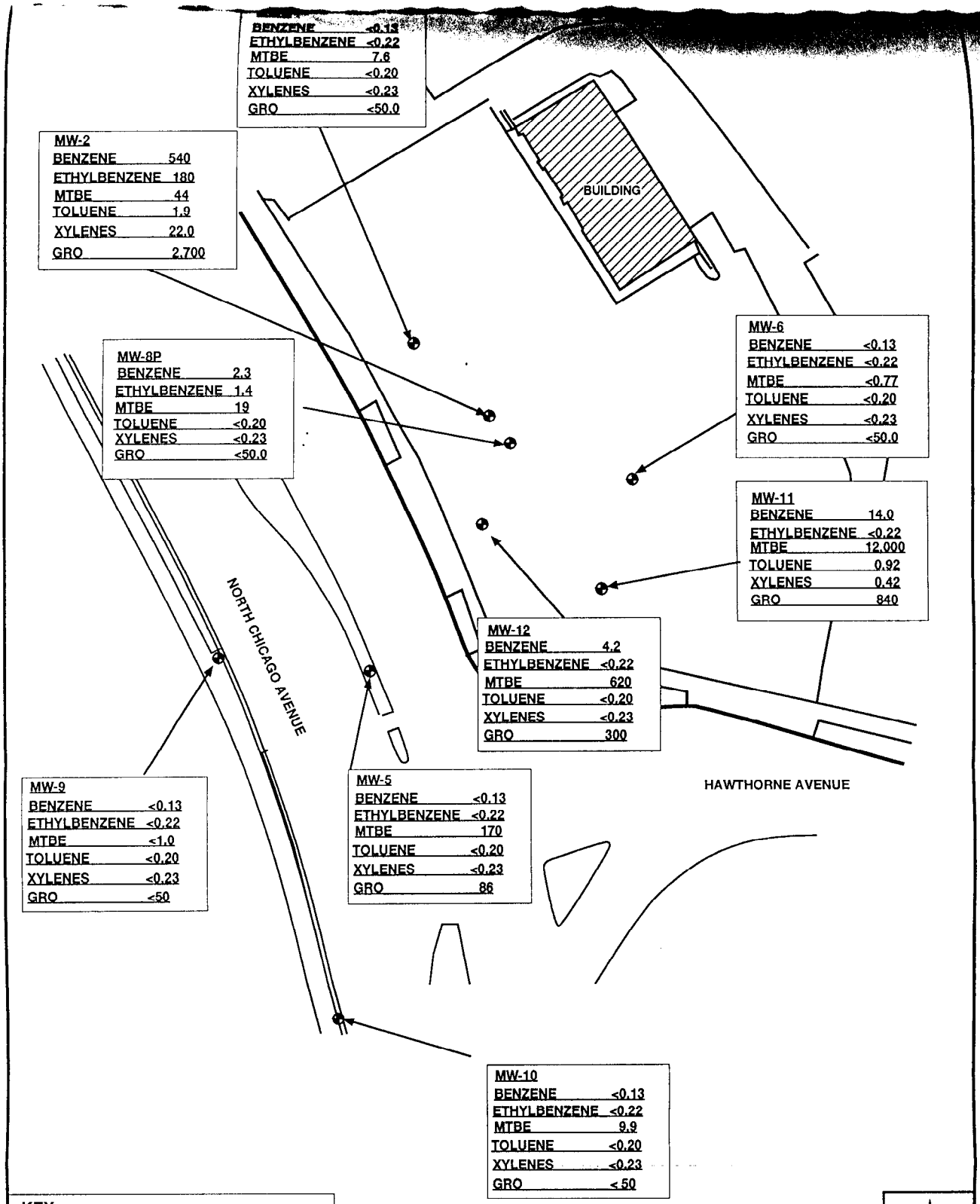
MW-1 was removed in October, 1993, during excavation.
MW-3 was destroyed in June, 1995, during remediation system installation.
MW-7 was removed in October, 1993, during excavation.

9182DE T11 GW ANL



ISOCONCENTRATION CONTOURS ?

ALL RESULTS IN PARTS PER BILLION

N

KEY

⊕	MONITORING WELL
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
TMB	TRIMETHYLBENZENE
MTBE	METHYL-TERT-BUTYL ETHER
GRO	GASOLINE RANGE ORGANICS

EXTENT OF GROUNDWATER CONTAMINATION

11-23-98 SAMPLING EVENT

ELMAR'S SERVICE STATION
1221 NORTH CHICAGO AVE.
SOUTH MILWAUKEE, WI

SCALE:	1"=30'
DATE:	6-7-99
PROJECT MGR:	LFB
DRAWN BY:	EGD
JOB NUMBER:	918026
REVISION DATE:	

GRAEF ANHALT SCHLOEMER and Associates Inc.
CONSULTING ENGINEERS

918026.D38