GIS REGISTRY INFORMATION

SITE NAME:	Jim's Saw Service		
BRRTS #:	03-60-000241	**FID #** (if appropriate):	
COMMERCE # (if appropriate):	53083-4721-12		
CLOSURE DATE:	September 26, 2003		
STREET ADDRESS:	2212 N 13th St		
CITY:	Sheboygan		

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):	**X =** 703327			**Y =** 368698		
CONTAMINATED MEDIA:	Groundwater		Soil		Both	x
OFF-SOURCE GW CONTAMINATION >ES:		**Yes**		x	**No**	
• **IF YES, STREET ADDRESS:**	2224 N. 13th St., Sheboygan					
• **GPS COORDINATES** (meters in WTM91 projection):	**X =** 703329			**Y =** 703329		
OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL):		**Yes**	x	**No**		
• **IF YES, STREET ADDRESS 1:**	2224 N. 13th St., Sheboygan					
• **GPS COORDINATES** (meters in WTM91 projection):	**X =** 703329			**Y =** 703329		
CONTAMINATION IN RIGHT OF WAY:		**Yes**	x	**No**		

DOCUMENTS NEEDED

Closure Letter, and any conditional closure letter issued	✓
Copy of most recent deed, including legal description, for all affected properties	✓
Certified survey map or relevant portion of the recorded plat map (*if referenced in the legal description*) for all affected properties	NA
County Parcel ID number, *if used for county*, for all affected properties	NA
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.	✓
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.	✓
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)	✓
Tables of Latest Soil Analytical Results (no shading or cross-hatching)	✓
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.**	NA
GW: Table of water level elevations, with sampling dates, and free product noted if present	✓
GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)	✓
SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour	NA
Geologic cross-sections, *if required for SI.* (8.5x14' if paper copy)	✓
RP certified statement that legal descriptions are complete and accurate	NA
Copies of off-source notification letters (if applicable)	NA
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

September 26, 2003

Mr. James A Birschbach
Jim's Saw Service
2306 N. 13th St.
Sheboygan, WI 53083

RE: **Final Closure**

Commerce # 53083-4721-12 WDNR BRRTS # 03-60-000241
Jim's Saw Service, 2212 N. 13th St., Sheboygan

Dear Mr. Birschbach:

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 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
Hydrogeologist
Regional Technical Specialist
Site Review Section

cc: Tim Welch, Project Hydrogeologist, Sigma Environmental Services, Inc.
Gerald Jones, Vice President, US Bank
Case File

ENVIRONMENTAL & REGULATORY SERVICES
101 West Pleasant Street Suite 205
Milwaukee, Wisconsin 53212
TDD #: (608) 264-8777
Fax: (414) 220-5374
www.commerce.state.wi.us
Tommy G. Thompson, Governor
Brenda J. Blanchard, Secretary

Wisconsin
Department of Commerce

May 10, 2000

Jim Birschbach
2212 N. 13th St.
Sheboygan, WI 53083

RE: COMMERCE # 53083-4721-12
Jim's Saw Service, 2212 N. 13th St., Sheboygan, WI 53083

Underground storage tanks removed in 1988

Case Closure (conditional upon receipt of documentation)

Dear Mr. Birschbach:

On behalf of the Wisconsin Department of Commerce, I have reviewed this case for closure. Using the standards established in NR 700, and the risk criteria of Comm 46, the Department has determined that this site does not pose a significant threat to the environment and human health, and no further investigation or remedial action is necessary. In making this determination, I reviewed the following documents, as well as other correspondence in the case file.

- *Report of Soil Monitoring*, E&K Hazardous Waster Services, October 4, 1988
- *Results of Soil and Ground Water Testing*, Miller Engineers, October 10, 1989
- *Preliminary Remedial Investigation*, Northern Environmental (Northern), September 20, 1991
- *Remedial Investigation and Remedial Action Plan*, Northern, July 11, 1995
- *Remedial Action Plan*, Sigma Environmental Services (Sigma), September 1996 (Note: Northern's July 11, 1995 report is contained Appendix A.)
- *A Report of Remedial Activities . . .*, Sigma, February 1997
- *Groundwater Monitoring Report*, Sigma, January 5, 1998
- *WDNR O & M Form 4400-194*, Sigma, April 15, 1999
- *Case Summary and Close Out Form*, Sigma, February 11, 2000
- Laboratory data sheets, chain-of-custody forms, and information concerning ORC injection in May 1998, Sigma, April 25, 2000

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

IMPORTANT: we cannot list this case as "closed" on our computer database until we receive the following items. Please submit them to the Department at the letterhead address.

1. A notification must be placed on the property deed of all impacted properties. The notice must address residual soil and groundwater impacts. This includes the following properties:

   - 2212 N. 13th Street. (the subject site)
   - 2224 N. 13th Street 120th Ave. (property north of the subject site)
   - The portion of North 13th Street bordering the subject site to the east.

   For case closure we will need a copy of the deed notification (for each property) which contains the County Register of Deeds' recording information. Enclosed is an example of a "Notice of Contamination to Property" for your use. If you wish to modify the language, submit a copy to this office for review prior to filing.

   You should be aware that the WDNR is in the process of proposing changes to s. NR 726.05 Wis. Adm. Code to allow case closure when contamination is present within a public street or highway right-of-way as long as the investigation has confirmed that the groundwater contaminant plume is stable or receding, that natural attenuation will restore the groundwater to NR 140 standards within a reasonable period of time, and that the contamination has not migrated across the right-of-way to another property. The Code change, which is anticipated in 2000, will probably require written notification to the municipality or the state agency that owns or maintains the street or highway that contamination exists, but will not require the recording of a groundwater use restriction for groundwater contamination beneath public streets or highways.

   If you choose not to wait for the proposed changes to s. NR 726.05 to become effective, then case closure cannot occur until current closure requirements are met. Otherwise you may choose to wait until revisions to NR 726.05 become effective before requesting case closure again.

2. The City of Sheboygan Department of Public Works must be notified of potentially impacted soil/groundwater beneath North 13th Street and within the North 13th Street right-of-way adjacent to the Jim's Saw Service property. Please send us a copy of the letter notifying the City of the potential impacts.

3. Documentation of the abandonment of monitoring wells MW-1, 4, 6, 8, 9, 10, 11, 12, and 13.

Thank you for your efforts in the protection of the environment. If you have any questions, please call me at (414) 220-5372.

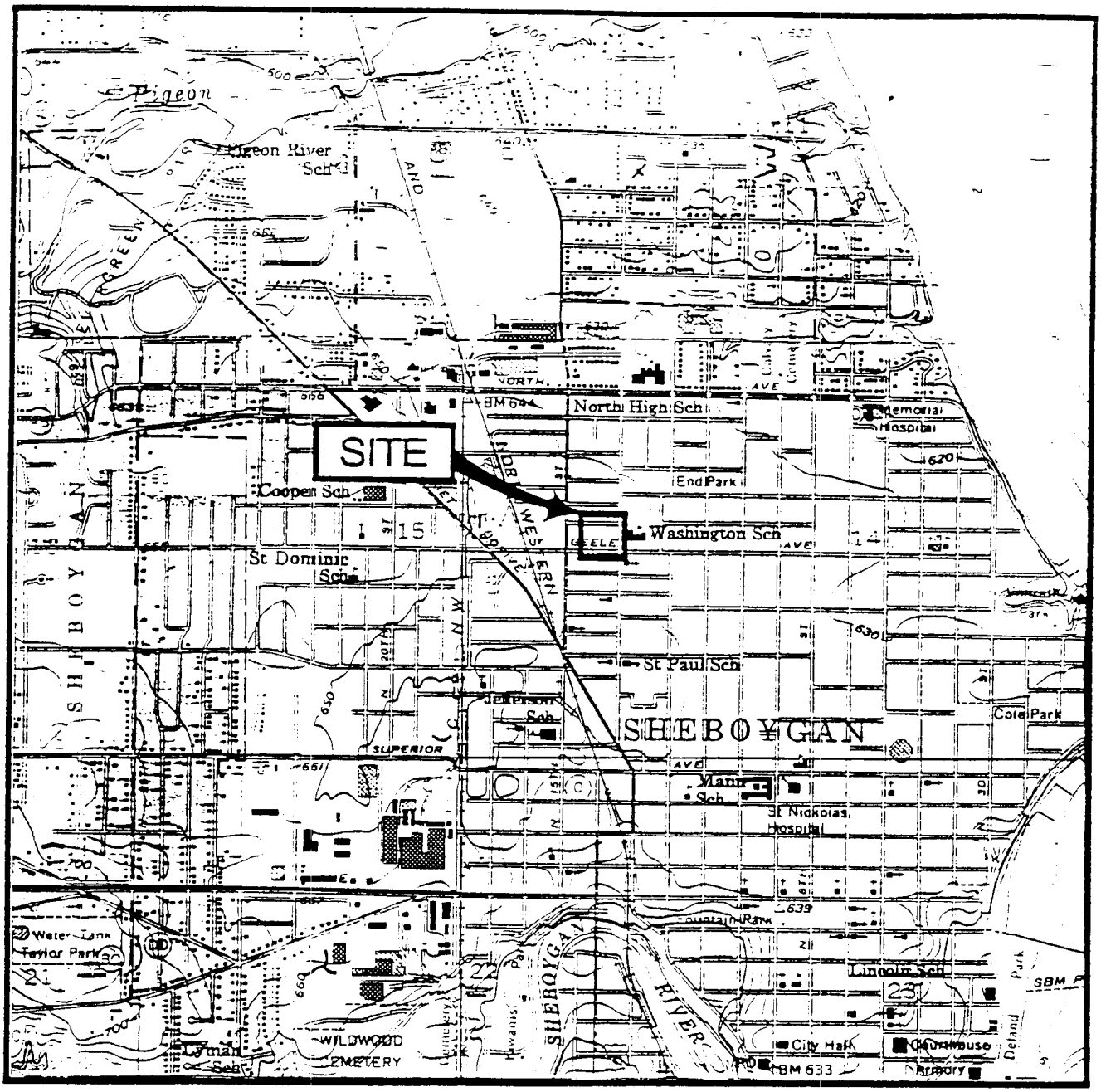
Sincerely,

COPY

Nancy S. Kochis
Hydrogeologist
PECFA Site Review Section

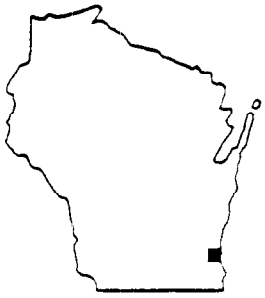
enclosure

cc: Timothy P. Welch, Sigma Environmental (with enclosure)
electronic case file



SE 1/4 of NE 1/4 Sec. 15 T. 15N R. 23E

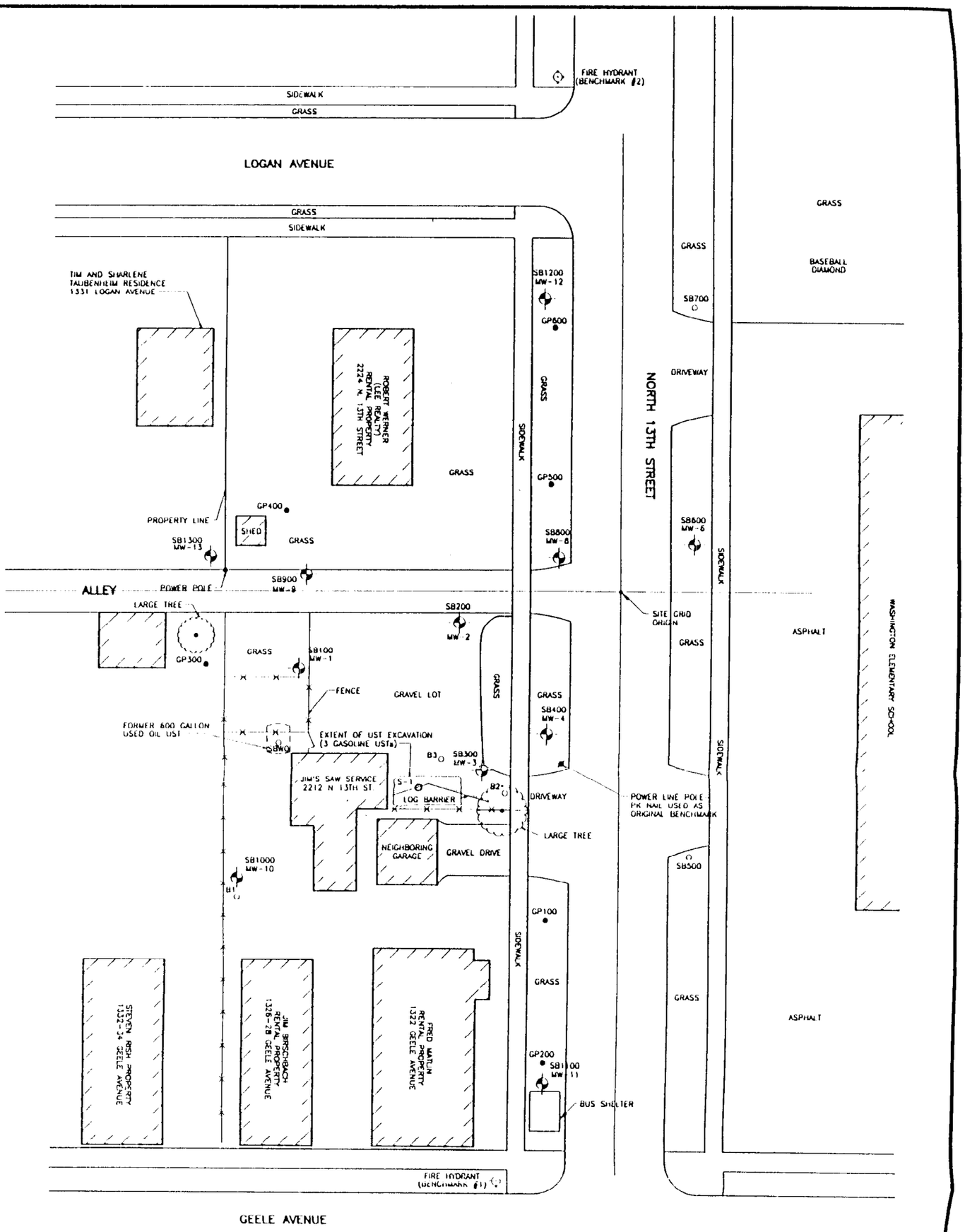
1 ½ 0 1 MILE



WISCONSIN

ADAPTED FROM U.S.G.S. 7.5 MINUTE SERIES. SHEBOYGAN NORTH. WISCONSIN QUADRANGLE DATED 1958 PHOTOREVISED 1971

JIM'S SAW SERVICE 2212 N. 13TH STREET, SHEBOYGAN, WI			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 6-26-96	DR. BY: BEB	DR.# 3365-001	SCALE: SEE ABOVE
SITE LOCATION MAP			FIGURE 1



EXPLANATION

SB100 MW-1	BOREHOLE/MONITORING WELL LOCATION
SB100	APPROXIMATE LOCATION OF EXPLORATORY BORING
GP100	GEOPROBE EXPLORATORY BOREHOLE LOCATION
S-1O	EXISTING 8" PVC SUMP LOCATION

NOTES: SITE GRID ORIGIN IS INTERSECT OF ALLEY AND N. 13TH STREET CENTER LINES

BENCHMARK #1: TOP NUT OF FIRE HYDRANT HAVING AN ELEVATION OF 644.95 FEET MLS

BENCHMARK #2: TOP NUT OF FIRE HYDRANT HAVING AN ELEVATION OF 643.59 FEET MSL

EXPLORATORY BORINGS (B1,B2,B3) WERE DRILLED ON 08/23/89 BY MILLER ENGINEERS AND SCIENTISTS

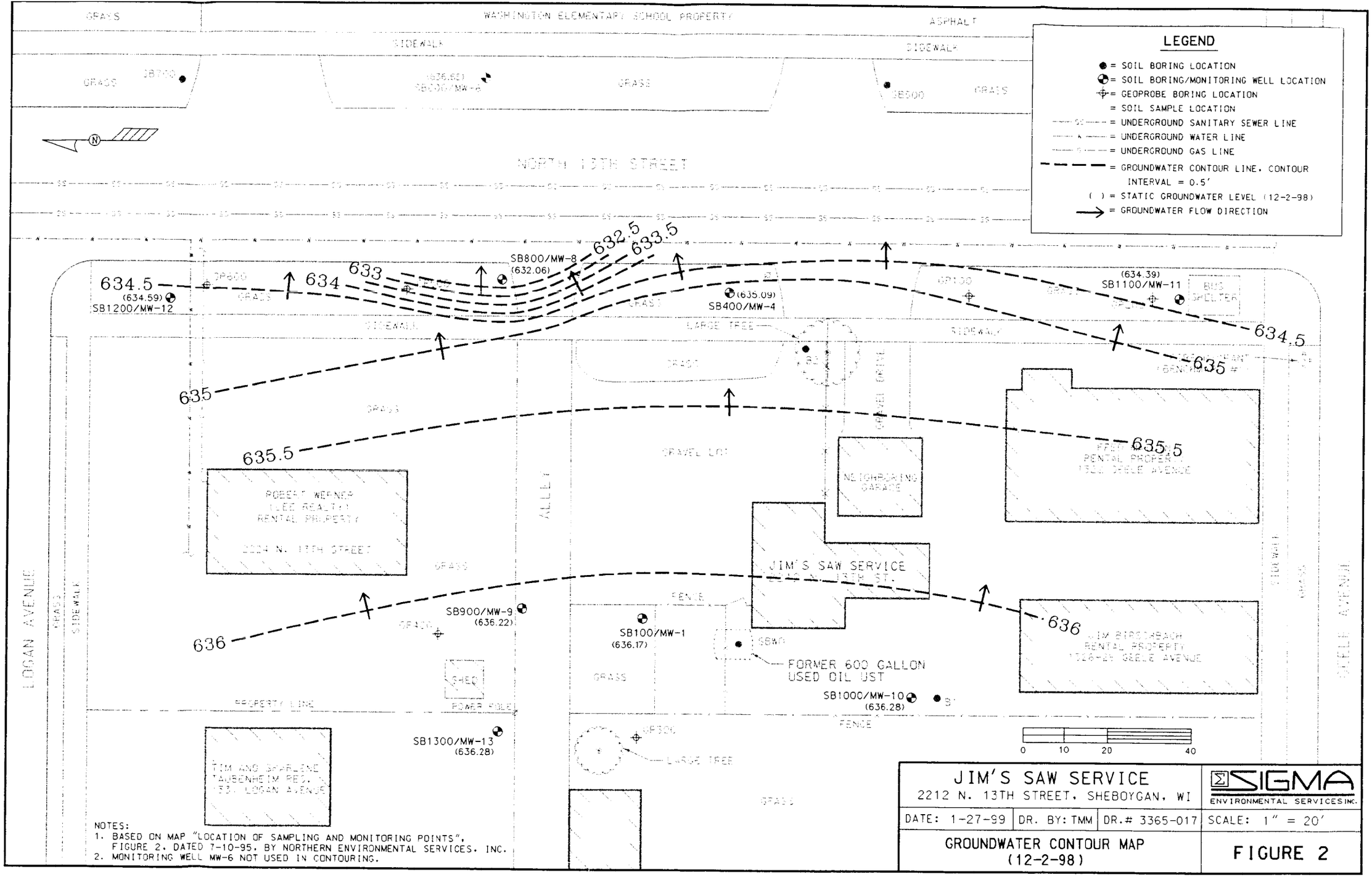
N

SCALE IN FEET

15 0 15 30

DRAWN BY: BGD	PROJECT: JSS130471	DATE: 07/11/95
REV. DATE: 7/10/95	THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS THE PROPERTY OF NORTHERN ENVIRONMENTAL INCORPORATED AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED	JIM'S SAW SERVICE SHEBOYGAN, WISCONSIN
Northern Environmental™ Hydrologists • Engineers • Geologists		LOCATION OF SAMPLING AND MONITORING POINTS

FIGURE 2



NOTES:
1. BASED ON MAP "LOCATION OF SAMPLING AND MONITORING POINTS", FIGURE 2, DATED 7-10-95, BY NORTHERN ENVIRONMENTAL SERVICES, INC.
2. MONITORING WELL MW-6 NOT USED IN CONTOURING.

JIM'S SAW SERVICE 2212 N. 13TH STREET, SHEBOYGAN, WI			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 1-27-99	DR. BY: TMM	DR.# 3365-017	SCALE: 1" = 20'
GROUNDWATER CONTOUR MAP (12-2-98)			FIGURE 2

TABLE 3

HISTORICAL GROUNDWATER QUALITY RESULTS
JIM'S SAW SERVICE
2212 North 13th Street
Sheboygan, Wi

MONITORING WELL MW-1

ANALYTE	Units	Sampling Date 05/29/96	12/16/96	03/26/97	06/24/97	09/24/97	01/16/98	05/29/98	08/28/98	12/02/98	03/08/99	07/14/99	10/18/99	ES	PAL
PVOCs:															
Benzene	ug/L	**12**	NA	**1,500**	**5.6**	**86**	**230**	**16**	**10**	**55**	**12**	**15**	**69**	5	0.5
Ethylbenzene	ug/L	28	NA	**1,500**	7.5	**300**	**370**	20	<3.0	**250**	**190**	**46**	**280**	700	140
Toluene	ug/L	41	NA	**4,800**	14	**210**	**420**	8.5	<2.0	40	38	26	86	343	68.6
Total Xylenes	ug/L	**258**	NA	**6,700**	**140**	**2100**	**1840**	**260**	52	**1012**	**700**	**270**	**1100**	620	124
1,3,5-Trimethylbenzene	ug/L	38	NA	720	39	310	220	75	67	130	160	33	140	---	---
1,2,4-Trimethylbenzene	ug/L	97	NA	2,000	66	780	600	160	190	420	500	96	510	---	---
Trimethylbenzene (Total)	ug/L	**135**	NA	**2,720**	**105**	**1,090**	**820**	**235**	**257**	**550**	**660**	**129**	**650**	480	96
Methyl Tert Butyl Ether	ug/L	0.37	NA	<2.1	<2.1	<4.2	<10	<1.0	<2.0	<5.0	<4.1	<4.1	<5.0	60	12
In Situ Field Measurements															
Dissolved Oxygen (mg/l)	mg/L	0.9	NA	0.3	0.1	0.2	0.3	0.3	0.1	0.2	0.2	0.1	0.2	---	---
Redox Potential (mV)	mV	NA	NA	-57	-57.4	-165.2	-62.3	-49.5	-123.5	-68.2	NT	-5.3	NA	---	---
Ferrous Iron (mg/l)	mg/L	NA	NA	NT	NT	7.2	2.8	4.4	3.4	4.4	0.8		5.2	---	---
Geochemical															
Nitrate/Nitrite (mg/l)	mg/L	NA	NA	NA	53	<3.9	0.15	<0.14	<0.14	0.2	<0.017	0.07	<0.024	---	---
Sulfate	mg/L	NA	NA	NA	84000	60000	96300	4430	14.9	26.8	80	61	39	---	---
Manganese, Soluble	mg/L	NA	NA	NA	190	930	990	504	693	NA	0.85	0.37	0.53	---	---
Chloride (mg/l)	mg/L	NA	NA	NA	43	NA	48.3	45.5	NT	NA	NA	NA	NA	---	---
Methane		NA	NA	NA	NA	NA	740	440	NT	NA	NA	NA	NA	---	---
Heterotrophic Plate Count (2 day)	col/ml	NA	NA	NA	7000	1800	NA	NA	NA	NA	NA	NA	NA	---	---
Heterotrophic Plate Count (5 day)	col/ml	NA	NA	NA	NA	7800	NA	NA	NA	NA	NA	NA	NA	---	---
Hydrocarbon Degraders (col/ml)	col/ml	NA	NA	NA	NA	160000	NA	NA	NA	NA	NA	NA	NA	---	---

Key

= Exceeds WAC NR 140 Groundwater Enforcement Standard

NA = Not Analyzed

NT= Not Tested

col/ml = Colonies per milliliter

ug/L = micrograms per liter

mg/L = milligrams per liter

mV = millivolts

NS = Not Sampled

--- = No Established Standard (NR 140). Standards for 1,2,4- and 1,3,5-trimethylbenzene are combined as noted

TABLE 3 (Continued)

HISTORICAL GROUNDWATER QUALITY RESULTS
JIM'S SAW SERVICE
2212 North 13th Street
Sheboygan, WI

MONITORING WELL MW-4

	Units	Sampling Date												ES	PAL
		05/29/96	12/16/96	03/26/97	06/24/97	09/24/97	01/16/98	05/29/98	08/28/98	12/02/98	03/08/99	07/14/99	10/18/99		
PVOCs															
Benzene	ug/L	3100	1300	730	2300	1600	450	370	<0.20	2.4	17	1.2	<0.10	5	0.5
Ethylbenzene	ug/L	1000	340	126	820	470	68	42	<0.30	0.6	6.7	0.35	<0.25	700	140
Toluene	ug/L	180	<15	<15	580	100	2	20	<0.20	<0.20	1.6	<0.20	<0.10	343	68.6
Total Xylenes	ug/L	3020	320	106	3900	1100	53	31	0.6	<0.60	9.4	1.1	<0.25	620	124
1,3,5-Trimethylbenzene	ug/L	240	57	26	250	100	6	<3.0	<0.30	<0.30	0.99	<0.29	<0.10	---	---
1,2,4-Trimethylbenzene	ug/L	770	130	48	350	400	22	<3.0	<0.30	<0.30	<0.42	<0.22	<0.10	---	---
Trimethylbenzene (Total)	ug/L	1010	187	74	600	500	28	<3.0	<0.30	<0.30	0.99	<0.51	<0.10	480	96
Methyl Tert Butyl Ether	ug/L	8.2	<1.5	<2.1	<2.1	<4.2	<2.0	<2.0	<0.20	<0.20	<0.41	<0.16	<0.25	60	12
In Situ Field Measurements															
Dissolved Oxygen (mg/l)	mg/L	1	0.2	1.4	0.1	0.3	0.4	1.2	>20.0	>20.0	>20.0	>20.0	>20.0	---	---
Redox Potential (mV)	mV	NA	151	58.4	11.7	-94.5	-53.3	51.7	-56.5	69.7	NT	105.3	NA	---	---
Ferrous Iron (mg/l)	mg/L	NA	NA	NA	NA	2.0	0	0	0	0	0		0	---	---
Geochemical															
Nitrate/Nitrite (mg/l)	mg/L	NA	NA	NA	<3.9	9	<0.14	10.3	1.16	0.85	0.27	0.26	0.31	---	---
Sulfate	mg/L	NA	NA	NA	18000	8300	9100	79600	88.3	87.2	120	73	67	---	---
Manganese, Soluble	mg/L	NA	NA	NA	1000	1300	915	41.7	18.1	23.3	0.013	<0.0086	<0.0086	---	---
Chloride (mg/l)	mg/L	NA	NA	NA	280	NA	48.3	357	NA	NA	NA	NA	NA	---	---
Methane		NA	NA	NA	NA	NA	14	2.1	NA	NA	NA	NA	NA	---	---
Heterotrophic Plate Count (2 day) (col/ml)	col/ml	NA	NA	NA	8000	1700	NA	NA	NA	NA	NA	NA	NA	---	---
Heterotrophic Plate Count (5 day) (col/ml)	col/ml	NA	NA	NA	NT	19000	NA	NA	NA	NA	NA	NA	NA	---	---
Hydrocarbon Degraders (col/ml)	col/ml	NA	NA	NA	NT	400000	NA	NA	NA	NA	NA	NA	NA	---	---

Key

= Exceeds WAC NR 140 Groundwater Enforcement Standard
NA = Not Analyzed
ug/L = micrograms per liter
mg/L = milligrams per liter
col/ml = colonies per milliliter
mV = millivolts
--- = No Established Standard (NR 140). Standards for 1,2,4- and 1,3,5-trimethylbenzene are combined as noted

NT= Not Tested

TABLE 3 (Continued)

HISTORICAL GROUNDWATER QUALITY RESULTS
JIM'S SAW SERVICE
2212 North 13th Street
Sheboygan, WI

MONITORING WELL MW-6

		Sampling Date													
	Units	05/29/96	12/16/96	03/26/97	06/24/97	09/24/97	01/16/98	05/29/98	08/28/98	12/02/98	03/08/99	07/14/99	10/18/99	ES	PAL
PVOCs															
Benzene	ug/L	0.22	<0.2	<0.21	<0.21	<0.21	NA	NA	NA	NA	<0.41	<0.13	<0.10	5	0.5
Ethylbenzene	ug/L	<0.37	<0.68	<0.68	<0.68	<0.68	NA	NA	NA	NA	<0.43	<0.22	<0.25	700	140
Toluene	ug/L	0.48	<1.5	<1.5	<1.5	<1.5	NA	NA	NA	NA	<0.38	<0.20	<0.10	343	68.6
Total Xylenes	ug/L	<1.12	<2	<1.8	<1.8	<1.8	NA	NA	NA	NA	<1.4	<0.23	<0.25	620	124
1,3,5-Trimethylbenzene	ug/L	<0.37	<0.9	<1.8	<0.86	<0.86	NA	NA	NA	NA	<0.58	<0.29	<0.10	---	---
1,2,4-Trimethylbenzene	ug/L	<0.38	<1	<1	<1	<1	NA	NA	NA	NA	<0.42	<0.22	<0.10	---	---
Trimethylbenzene (Total)	ug/L	<0.38	<1	<1	<1	<1	NA	NA	NA	NA	<1.0	<0.51	<0.10	480	96
Methyl Tert Butyl Ether	ug/L	0.33	<0.15	<2.1	<0.21	<0.21	NA	NA	NA	NA	<0.41	<0.16	<0.25	60	12
In Situ Field Measurements															
Dissolved Oxygen	mg/L	1.6	6.2	6.5	0.2	0.4	6.6	0.3	0.3	0.8	2.6	0.2	0.6	---	---
Redox Potential	mV	NT	396.7	74.5	131.4	21.5	17.8	85.7	-14.6	121.4	NT	545.7	NA	---	---
Ferrous Iron (mg/l)	mg/L	NA	NA	NA	NA	NA	0	0	0	0	0		0	---	---
Geochemical															
Nitrate/Nitrite	mg/L	NA	NA	NA	NA	NA	<0.14	<0.14	<0.14	<0.14	<0.017	<0.017	<0.024	---	---
Sulfate	mg/L	NA	NA	NA	NA	NA	24100	7190	15.6	25.7	28	49	17	---	---
Manganese, Soluble	mg/L	NA	NA	NA	NA	NA	1.3	40.9	23.6	501	<0.0086	0.03	<0.0086	---	---
Chloride	mg/L	NA	NA	NA	NA	NA	42.6	37.8	NT	NT	NA	NA	NA	---	---
Methane		NA	NA	NA	NA	NA	<0.5	3.5	NT	NT	NA	NA	NA	---	---

Key

= Exceeds WAC NR 140 Groundwater Enforcement Standard

NA = Not Analyzed

NT = Not Tested

ug/L = micrograms per liter

mg/L = milligrams per liter

mV = millivolts

--- = No Established Standard (NR 140). Standards for 1,2,4- and 1,3,5-trimethylbenzene are combined as noted

TABLE 3 (Continued)

HISTORICAL GROUNDWATER QUALITY RESULTS
JIM'S SAW SERVICE
2212 North 13th Street
Sheboygan, WI

MONITORING WELL MW-8

	Units	Sampling Date												ES	PAL
		05/29/96	12/16/96	03/26/97	06/24/97	09/24/97	01/16/98	05/29/98	08/28/98	12/02/98	03/08/99	07/14/99	10/18/99		
PVOCs															
Benzene	ug/L	**5,800**	**4,200**	**2,200**	**7,500**	**4700**	**5200**	**9200**	**9000**	**5600**	**6000**	**9700**	**4400**	5	0.5
Ethylbenzene	ug/L	**1,000**	**370**	130	**1,800**	**450**	**400**	**1200**	**1000**	**480**	**1100**	**1700**	**580**	**700**	140
Toluene	ug/L	**2,800**	29	23	**4,300**	**150**	**200**	**1800**	**1200**	**180**	**1100**	**4900**	**180**	**343**	68.6
Total Xylenes	ug/L	**4,660**	**330**	81	**8,500**	**860**	**305**	**3600**	**1990**	**220**	**2700**	**5500**	**460**	**620**	124
1,3,5-Trimethylbenzene	ug/L	220	17	21	620	64	10	300	35	<60	110	190	24	---	---
1,2,4-Trimethylbenzene	ug/L	660	120	40	1,500	220	68	600	260	<60	410	730	140	---	---
Trimethylbenzene (Total)	ug/L	**880**	137	61	**2,120**	284	78	**900**	295	<60	520	920	164	480	96
Methyl Tert Butyl Ether	ug/L	**17**	<1.5	<2.1	<21	<2.1	<5.0	<50	<10	<40	<21	<16	<50	60	12
In Situ Field Measurements															
Dissolved Oxygen	mg/L	1.4	0	0.5	0.1	0.3	0.3	0.3	0.1	0.2	0.2	0.1	0.2	---	---
Redox Potential	mV	NA	140	-6.1	-67.1	-99.3	-61.4	-47.3	-137.6	-70.1	NT	-19.4	NA	---	---
Ferrous Iron	mg/L	NA	NA	NA	NA	4.4	2.6	5.4	3.4	5.6	5.4		9.6	---	---
Geochemical															
Nitrate/Nitrite	**mg/L**	NA	NA	NA	7	12	<0.14	<0.14	<0.14	<0.14	0.07	0.089	<0.024	---	---
Sulfate	mg/L	NA	NA	NA	17000	7600	24600	7970	18.9	25.7	58	74	56	---	---
Manganese, Soluble	mg/L	NA	NA	NA	510	600	573	460	538	501	0.44	0.36	0.46	---	---
Chloride (mg/l)	mg/L	NA	NA	NA	320	NA	271	262	NA	NA	NA	NA	NA	---	---
Methane		NA	NA	NA	NA	NA	22	17	NA	NA	NA	NA	NA	---	---

Key

= Exceeds WAC NR 140 Groundwater Enforcement Standard

NA = Not Analyzed

NT= Not Tested

ug/L = micrograms per liter

mg/L = milligrams per liter

mV = millivolts

--- = No Established Standard (NR 140). Standards for 1,2,4- and 1,3,5-trimethylbenzene are combined as noted

TABLE 3 (Continued)

HISTORICAL GROUNDWATER QUALITY RESULTS
JIM'S SAW SERVICE
2212 North 13th Street
Sheboygan, WI

MONITORING WELL MW-9

	Units	Sampling Date												ES	PAL
		05/29/96	12/16/96	03/26/97	06/24/97	09/24/97	01/16/98	05/29/98	08/28/98	12/02/98	03/08/99	07/14/99	10/18/99		
PVOCs															
Benzene	ug/L	**100**	**2,100**	**177**	<2.1	**700**	**790**	**120**	**500**	**460**	**56**	**95**	**570**	5	0.5
Ethylbenzene	ug/L	**420**	**430**	**340**	**400**	**350**	**390**	**280**	70	**340**	**380**	**220**	**260**	700	140
Toluene	ug/L	**85**	**880**	**191**	42	**190**	**520**	**180**	**73**	**480**	**110**	**180**	**550**	343	68.6
Total Xylenes	ug/L	**1,300**	**810**	**1,230**	**1,500**	**610**	**833**	**820**	**194**	**890**	**1200**	**750**	**610**	620	124
1,3,5-Trimethylbenzene	ug/L	310	76	288	530	150	120	300	46	180	340	210	77	---	---
1,2,4-Trimethylbenzene	ug/L	910	260	660	1,300	460	400	800	140	500	990	600	310	---	---
Trimethylbenzene (Total)	ug/L	**1,220**	**336**	**948**	**1,830**	**610**	**520**	**1,100**	**186**	**680**	**1,330**	**810**	**387**	480	96
Methyl Tert Butyl Ether	ug/L	4.1	<5	<2.1	<2.1	<2.1	<2.0	<10	<10	<4.0	<8.2	57	<2.5	60	12
In Situ Field Measurements															
Dissolved Oxygen	mg/L	1.4	1.6	3.9	0.9	0.2	0.2	0.3	0.1	0.2	0.2	0.2	0.2	---	---
Redox Potential	mV	NA	195.7	88.4	90.6	-62.3	-53.9	70.2	-44.2	58.4	NT	177.7	NA	---	---
Ferrous Iron	mg/L	NA	NA	NA	NA	2.5	3.2	0.3	0.2	0.2	0.8		4	---	---
Geochemical															
Nitrate/Nitrite	mg/L	NA	NA	NA	18	<3.9	<0.14	<0.14	<0.14	<0.14	<0.017	<0.017	<0.024	---	---
Sulfate	mg/L	NA	NA	NA	28000	3400	<100	4910	6.4	3.5	52	57	31	---	---
Manganese, Soluble	mg/L	NA	NA	NA	290	630	700	247	550	453	0.22	0.13	0.5	---	---
Chloride	mg/L	NA	NA	NA	52	NA	73.4	80.8	NA	NA	NA	NA	NA	---	---
Methane		NA	NA	NA	NA	NA	29	62	NA	NA	NA	NA	NA	---	---

Key:

= Exceeds WAC NR 140 Groundwater Enforcement Standard
NT = Not Tested
ug/L = micrograms per liter
mg/L = milligrams per liter
mV = millivolts
--- = No Established Standard (NR 140); Standards for 1,2,4- and 1,3,5-trimethylbenzene are combined as noted

NA= Not Analyzed

TABLE 3 (Continued)

HISTORICAL GROUNDWATER QUALITY RESULTS
JIM'S SAW SERVICE
2212 North 13th Street
Sheboygan, WI

MONITORING WELL MW-10

	Units	Sampling Date												ES	PAL
		05/29/96	12/16/96	03/26/97	06/24/97	09/24/97	01/16/98	05/29/98	08/28/98	12/02/98	03/08/99	07/14/99	10/18/99		
PVOCs															
Benzene	ug/L	<0.16	<0.2	<0.21	<0.21	<0.21	NA	NA	NA	NA	<0.41	<0.13	<0.10	5	0.5
Ethylbenzene	ug/L	<0.37	<0.68	<0.68	<0.68	<0.68	NA	NA	NA	NA	<0.43	<0.22	<0.25	700	140
Toluene	ug/L	<0.27	<1.5	<1.5	<1.5	<1.5	NA	NA	NA	NA	<0.38	<0.20	<0.10	343	68.6
Total Xylenes	ug/L	<1.12	<2	<1.8	<1.8	<1.8	NA	NA	NA	NA	<1.4	<0.23	<0.25	620	124
1,3,5-Trimethylbenzene	ug/L	<0.37	<0.9	<0.86	<0.86	<0.86	NA	NA	NA	NA	<0.58	<0.29	<0.10	---	---
1,2,4-Trimethylbenzene	ug/L	<0.37	<1	<1	<1	<1	NA	NA	NA	NA	<0.42	<0.22	<0.10	---	---
Trimethylbenzene (Total)	ug/L	<0.37	<1	<1	<1	<1	NA	NA	NA	NA	<1.0	<0.51	<0.10	480	96
Methyl Tert Butyl Ether	ug/L	0.55	0.89	<0.21	<0.21	0.98	NA	NA	NA	NA	<0.41	<0.16	0.38	60	12
In Situ Field Measurements															
Dissolved Oxygen	mg/L	4.4	4.0	10.9	3.7	2.1	5.6	2.8	1.0	1.9	7.5	1.0	0.9	---	---
Redox Potential	mV	NT	82.5	96.3	148.5	11.6	1.0	81.2	-37.3	101.3	NT	518.5	NA	---	---
Ferrous Iron	mg/L	NA	NA	NA	NA	0.0	0.0	0.0	0.0	0.0	0.0		0.0	---	---
Geochemical															
Nitrate/Nitrite	mg/L	NA	NA	NA	0.034	1.8	1.66	0.65	1.19	1.43	0.45	0.65	0.9	---	---
Sulfate	mg/L	NA	NA	NA	110000	120000	159000	130000	74.9	102	110	170	94	---	---
Manganese, Soluble	mg/L	NA	NA	NA	84	<1.6	0.9	38.7	24.8	0.382	<0.0086	<0.0086	0.013	---	---
Chloride	mg/L	NA	NA	NA	60	NA	88.4	94.7	NA	NA	NA	NA	NA	---	---
Methane		NA	NA	NA	NA	NA	<0.5	<1.0	NA	NA	NA	NA	NA	---	---

Key

= Exceeds WAC NR 140 Groundwater Enforcement Standard
NA = Not Analyzed
ug/L = micrograms per liter
mg/L = milligrams per liter
mV = millivolts
--- = No Established Standard (NR 140); Standards for 1,2,4- and 1,3,5-trimethylbenzene are combined as noted

NT= Not Tested

TABLE 3 (Continued)

HISTORICAL GROUNDWATER QUALITY RESULTS
JIM'S SAW SERVICE
2212 North 13th Street
Sheboygan, WI

MONITORING WELL MW-11

	Units	Sampling Date												ES	PAL
		05/29/96	12/16/96	03/26/97	06/24/97	09/24/97	01/16/98	05/29/98	08/28/98	12/02/98	03/08/99	07/14/99	10/18/99		
PVOCs															
Benzene	ug/L	<0.16	<0.7	<0.21	<0.21	<0.21	NA	NA	NA	NA	NA	<0.13	<0.10	5	0.5
Ethylbenzene	ug/L	<0.37	<0.68	<0.68	<0.68	<0.68	NA	NA	NA	NA	NA	<0.22	<0.25	700	140
Toluene	ug/L	<0.27	<1.5	<1.5	<1.5	<1.5	NA	NA	NA	NA	NA	<0.20	<0.10	343	68.6
Total Xylenes	ug/L	<1.12	<2	<1.8	<1.8	<1.8	NA	NA	NA	NA	NA	<0.23	<0.25	620	124
1,3,5-Trimethylbenzene	ug/L	<0.37	<0.9	<0.86	<0.86	<0.86	NA	NA	NA	NA	NA	<0.29	<0.10	---	---
1,2,4-Trimethylbenzene	ug/L	<0.38	<1	<1	<1	<1	NA	NA	NA	NA	NA	<0.22	<0.10	---	---
Trimethylbenzene (Total)	ug/L	<0.38	<1	<1	<1	<1	NA	NA	NA	NA	NA	<0.51	<0.10	480	96
Methyl Tert Butyl Ether	ug/L	0.32	<0.5	<0.21	<0.21	<0.21	NA	NA	NA	NA	NA	<0.16	<0.25	60	12
In Situ Field Measurements															
Dissolved Oxygen	mg/L	4.4	3.2	6.6	2.7	0.4	5.8	3.4	0.3	2.2	4.6	0.3	0.5	---	---
Redox Potential	mV	NA	176.4	100	59.1	17.8	-7.3	73.1	-103.2	69.1	NT	446.8	NA	---	---
Ferrous Iron	mg/L	NA	NA	NA	NA	0.0	0	0	2	0	0	0	3	---	---
Geochemical															
Nitrate/Nitrite	mg/L	NA	NA	NA	12	11	<0.14	<0.14	<0.14	<0.14	NA	<0.017	NA	---	---
Sulfate	mg/L	NA	NA	NA	19000	13000	16900	8300	19.7	16.3	NA	37	NA	---	---
Manganese, Soluble	mg/L	NA	NA	NA	49	490	4.9	41.5	134	29.2	NA	0.089	NA	---	---
Chloride	mg/L	NA	NA	NA	170	NA	154	295	NA	NA	NA	NA	NA	---	---
Methane		NA	NA	NA	NA	NA	<0.5	1.2	NA	NA	NA	NA	NA	---	---

Key

= Exceeds WAC NR 140 Groundwater Enforcement Standard
NA = Not Analyzed
ug/L = micrograms per liter
mg/L = milligrams per liter
mV = millivolts
--- = No Established Standard (NR 140); Standards for 1,2,4- and 1,3,5-trimethybenzene are combined as noted

TABLE 3 (Continued)

HISTORICAL GROUNDWATER QUALITY RESULTS
JIM'S SAW SERVICE
2212 North 13th Street
Sheboygan, WI

MONITORING WELL MW-12

	Units	Sampling Date												ES	PAL
		05/29/96	12/16/96	03/26/97	06/24/97	09/24/97	01/16/98	05/29/98	08/28/98	12/02/98	03/08/99	07/14/99	10/18/99		
PVOCs															
Benzene	ug/L	<0.16	<0.7	<0.21	<0.21	<0.21	NA	NA	NA	NA	NA	<0.13	<0.10	5	0.5
Ethylbenzene	ug/L	<0.37	<0.7	<0.68	<0.68	<0.68	NA	NA	NA	NA	NA	<0.22	<0.25	700	140
Toluene	ug/L	<0.27	<1	<1.5	<1.5	<1.5	NA	NA	NA	NA	NA	<0.20	<0.10	343	68.6
Total Xylenes	ug/L	<1.12	<2	<1.8	<1.8	<1.8	NA	NA	NA	NA	NA	<0.23	<0.25	620	124
1,3,5-Trimethylbenzene	ug/L	<0.37	<0.9	<0.86	<0.86	<0.86	NA	NA	NA	NA	NA	<0.29	<0.10	---	---
1,2,4-Trimethylbenzene	ug/L	<0.37	<1	<1	<1	<1	NA	NA	NA	NA	NA	<0.22	<0.10	---	---
Trimethylbenzene (Total)	ug/L	<0.37	<1	<1	<1	<1	NA	NA	NA	NA	NA	<0.51	<0.10	480	96
Methyl Tert Butyl Ether	ug/L	0.31	<0.5	<0.21	<0.21	<0.21	NA	NA	NA	NA	NA	<0.16	<0.25	60	12
In Situ Field Measurements															
Dissolved Oxygen	mg/L	1.2	1	3.9	1.8	0.3	4.3	0.6	0.2	1.5	1.9	0.2	0.4	---	---
Redox Potential	mV	NA	185.5	102.1	42.8	18.3	-15.9	69	20.9	73.9	NT	527.8	NA	---	---
Ferrous Iron	mg/L	NA	NA	NA	NA	0.0	0	0.3	0	0.6	0.2	0	0	---	---
Geochemical															
Nitrate/Nitrite	mg/L	NA	NA	NA	<3.9	5	<0.14	<0.14	<0.14	<0.14	<0.017	NA	NA	---	---
Sulfate	mg/L	NA	NA	NA	34000	32000	35000	42500	43.9	35.5	48	NA	NA	---	---
Manganese, Soluble	mg/L	NA	NA	NA	120	260	83.4	102	58.6	118	0.02	NA	NA	---	---
Chloride	mg/L	NA	NA	NA	63	NA	62	45.4	NA	NA	NA	NA	NA	---	---
Methane		NA	NA	NA	NA	NA	2	2.1	NA	NA	NA	NA	NA	---	---

Key

= Exceeds WAC NR 140 Groundwater Enforcement Standard
NA = Not Analyzed
ug/L = micrograms per liter
mg/L = milligrams per liter
mV = millivolts
--- = No Established Standard (NR 140); Standards for 1,2,4- and 1,3,5-trimethylbenzene are combined as noted

TABLE 3 (Continued)

HISTORICAL GROUNDWATER QUALITY RESULTS
JIM'S SAW SERVICE
2212 North 13th Street
Sheboygan, WI

MONITORING WELL MW-13

	Units	Sampling Date												ES	PAL
		05/29/96	12/16/96	03/26/97	06/24/97	09/24/97	01/16/98	05/29/98	08/28/98	12/02/98	03/08/99	07/14/99	10/18/99		
PVOCs															
Benzene	ug/L	0.29	<0.7	<0.21	<0.21	<0.21	NA	NA	NA	NA	<0.41	<0.13	<0.10	5	0.5
Ethylbenzene	ug/L	<0.37	<0.7	<0.68	<0.68	<0.68	NA	NA	NA	NA	<0.42	<0.22	<0.25	700	140
Toluene	ug/L	0.54	<1	<1.5	<1.5	<1.5	NA	NA	NA	NA	<0.38	<0.20	<0.10	343	68.6
Total Xylenes	ug/L	<1.12	<2	<1.8	<1.8	<1.8	NA	NA	NA	NA	<1.4	<0.23	<0.25	620	124
1,3,5-Trimethylbenzene	ug/L	0.42	<0.9	<0.86	<0.86	<0.86	NA	NA	NA	NA	<0.58	<0.29	<0.10	---	---
1,2,4-Trimethylbenzene	ug/L	0.47	<1	<1	<1	<1	NA	NA	NA	NA	<0.42	<0.22	0.12	---	---
Trimethylbenzene (Total)	ug/L	0.89	<1	<1	<1	<1	NA	NA	NA	NA	<1.0	<0.51	0.12	480	96
Methyl Tert Butyl Ether	ug/L	0.56	<0.5	<0.21	<0.21	<0.21	NA	NA	NA	NA	<0.41	<0.16	<0.25	60	12
In Situ Field Measurements															
Dissolved Oxygen	mg/L	4.9	5.8	8.9	8	4.8	6.4	6.2	3.3	4.5	6	3.8	4.2	---	---
Redox Potential	mV	NA	134.5	116.3	106.7	24	-6.9	88.3	31.2	218.6	NT	568.2	NA	---	---
Ferrous Iron	mg/L	NA	NA	NA	NA	0.0	0	0	0	0	0	0	0	---	---
Geochemical															
Nitrate/Nitrite	mg/L	NA	NA	NA	4.6	4	3.78	0.84	1.02	1.54	1	NT	NA	---	---
Sulfate	mg/L	NA	NA	NA	28000	28000	28000	34800	37.7	35.6	52	NT	NA	---	---
Manganese, Soluble	mg/L	NA	NA	NA	19	<1.6	0.6	35.2	20.8	1.24	<0.0086	NT	NA	---	---
Chloride	mg/L	NA	NA	NA	40	NA	41.7	36.8	NA	NA	NA	NT	NA	---	---
Methane		NA	NA	NA	NA	NA	<0.5	<1.0	NA	NA	NA	NT	NA	---	---

Key

= Exceeds WAC NR 140 Groundwater Enforcement Standard
NA = Not Analyzed
ug/L = micrograms per liter
mg/L = milligrams per liter
mV = millivolts
--- = No Established Standard (NR 140); Standards for 1,2,4- and 1,3,5-trimethylbenzene are combined as noted

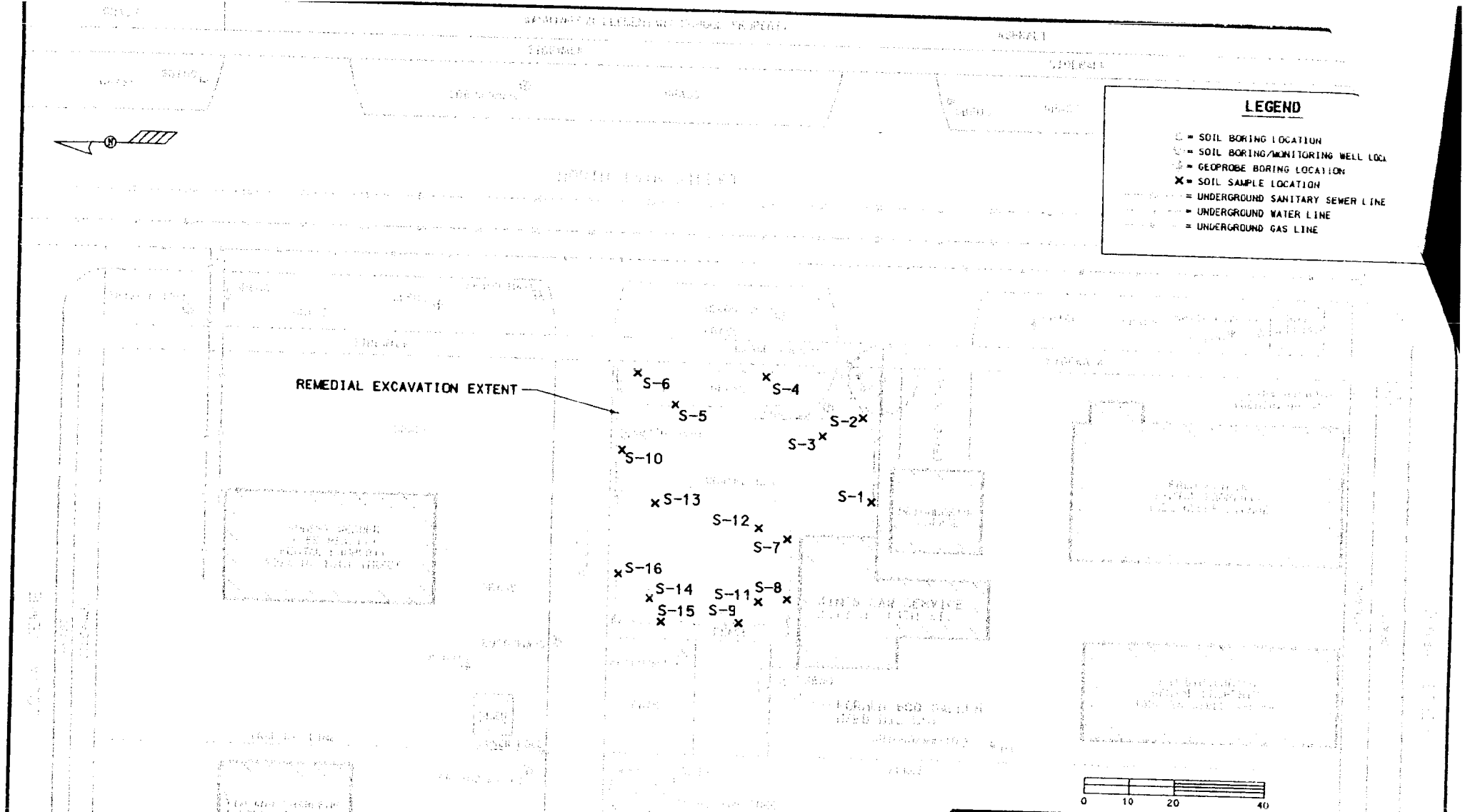
NT= Not Tested

TABLE 4
HISTORICAL GROUNDWATER ELEVATIONS
JIM'S SAW SERVICE
2212 NORTH 13TH STREET
SHEBOYGAN, WISCONSIN

Well #	Elevation (Top of Casing)	Elevation (Ground Surface)	Groundwater Levels	Groundwater Elevation (from T.O.C.)	Date
MW-1	642.11	642.49	2.44	639.67	05/29/96
			9.07	633.04	12/16/96
			6.64	635.47	03/26/97
			2.00	640.11	06/24/97
			5.83	636.28	09/24/97
			6.39	635.72	01/16/98
			3.37	638.74	05/29/98
			5.24	636.87	08/28/98
			5.94	636.17	12/02/98
			4.01	638.10	03/08/99
			3.82	638.29	07/14/99
			6.51	635.60	10/18/99
MW-4	640.96	641.53	3.88	637.08	05/29/96
			9.84	631.12	12/16/96
			2.30	638.66	03/26/97
			2.28	638.68	06/24/97
			6.40	640.96	09/24/97
			6.23	634.73	01/16/98
			1.36	639.60	05/29/98
			5.37	635.59	08/28/98
			5.87	635.09	12/02/98
			5.06	635.90	03/08/99
			3.76	637.20	07/14/99
			6.41	634.55	10/18/99
MW-6	640.43	640.82	2.16	638.27	05/29/96
			1.58	638.85	12/16/96
			2.30	638.13	03/26/97
			1.49	638.94	06/24/97
			3.00	637.43	09/24/97
			4.11	636.32	01/16/98
			3.05	637.38	05/29/98
			3.96	636.47	08/28/98
			3.78	636.65	12/02/98
			3.49	636.94	03/08/99
			3.00	637.43	07/14/99
			2.83	637.60	10/18/99
MW-8	640.49	641.12	4.35	636.14	05/29/96
			9.47	631.02	12/16/96
			9.60	630.89	03/26/97
			4.22	636.27	06/24/97
			8.35	632.14	09/24/97
			8.64	631.85	01/16/98
			6.90	633.59	05/29/98
			7.75	632.74	08/28/98
			8.43	632.06	12/02/98
			7.59	632.90	03/08/99
			5.86	634.63	07/14/99
			9.17	631.32	10/18/99
MW-9	641.17	641.65	2.44	639.27	05/29/96
			5.73	635.44	12/16/96
			3.13	638.04	03/26/97
			1.67	639.50	06/24/97
			5.15	636.02	09/24/97
			5.27	635.90	01/16/98
			3.42	637.75	05/29/98
			4.47	636.70	08/28/98
			4.95	636.22	12/02/98
			3.36	637.81	03/08/99
			3.52	637.65	07/14/99
			5.89	635.28	10/18/99

TABLE 4
HISTORICAL GROUNDWATER ELEVATIONS
JIM'S SAW SERVICE
2212 NORTH 13TH STREET
SHEBOYGAN, WISCONSIN

Well #	Elevation (Top of Casing)	Elevation (Ground Surface)	Groundwater Levels	Groundwater Elevation (from T.O.C.)	Date
MW-10	642.58	643.03	2.68	639.90	05/29/96
			6.81	635.77	12/16/96
			3.21	639.37	03/26/97
			1.94	640.64	06/24/97
			6.83	635.75	09/24/97
			6.70	635.88	01/16/98
			4.39	638.19	05/29/98
			6.13	636.45	08/28/98
			6.30	636.28	12/02/98
			4.18	638.40	03/08/99
			4.49	638.09	07/14/99
			7.32	635.26	10/18/99
MW-11	641.07	641.58	4.92	636.15	05/29/96
			5.97	635.10	12/16/96
			4.54	636.53	03/26/97
			2.94	638.13	06/24/97
			7.25	633.82	09/24/97
			6.52	634.55	01/16/98
			5.21	635.86	05/29/98
			6.36	634.71	08/28/98
			6.68	634.39	12/02/98
			5.02	636.05	03/08/99
			5.14	635.93	07/14/99
			7.59	633.48	10/18/99
MW-12	640.00	640.76	4.94	635.06	05/29/96
			4.63	635.37	12/16/96
			4.53	635.47	03/26/97
			4.20	635.80	06/24/97
			5.53	634.47	09/24/97
			5.49	634.51	01/16/98
			5.15	634.85	05/29/98
			5.51	634.49	08/28/98
			5.41	634.59	12/02/98
			4.89	635.11	03/08/99
			5.30	634.70	07/14/99
			6.60	633.40	10/18/99
MW-13	642.08	642.72	3.04	639.04	05/29/96
			6.21	635.87	12/16/96
			3.66	638.42	03/26/97
			2.17	639.91	06/24/97
			6.10	635.98	09/24/97
			6.11	635.97	01/16/98
			4.24	637.84	05/29/98
			5.44	636.64	08/28/98
			5.80	636.28	12/02/98
			4.02	638.06	03/08/99
			4.36	637.72	07/14/99
			6.84	635.24	10/18/99



NOTE:
BASED ON MAP "LOCATION OF SAMPLING AND MONITORING POINTS", FIGURE 2, DATED 7-10-95, BY NORTHERN ENVIRONMENTAL SERVICES, INC.

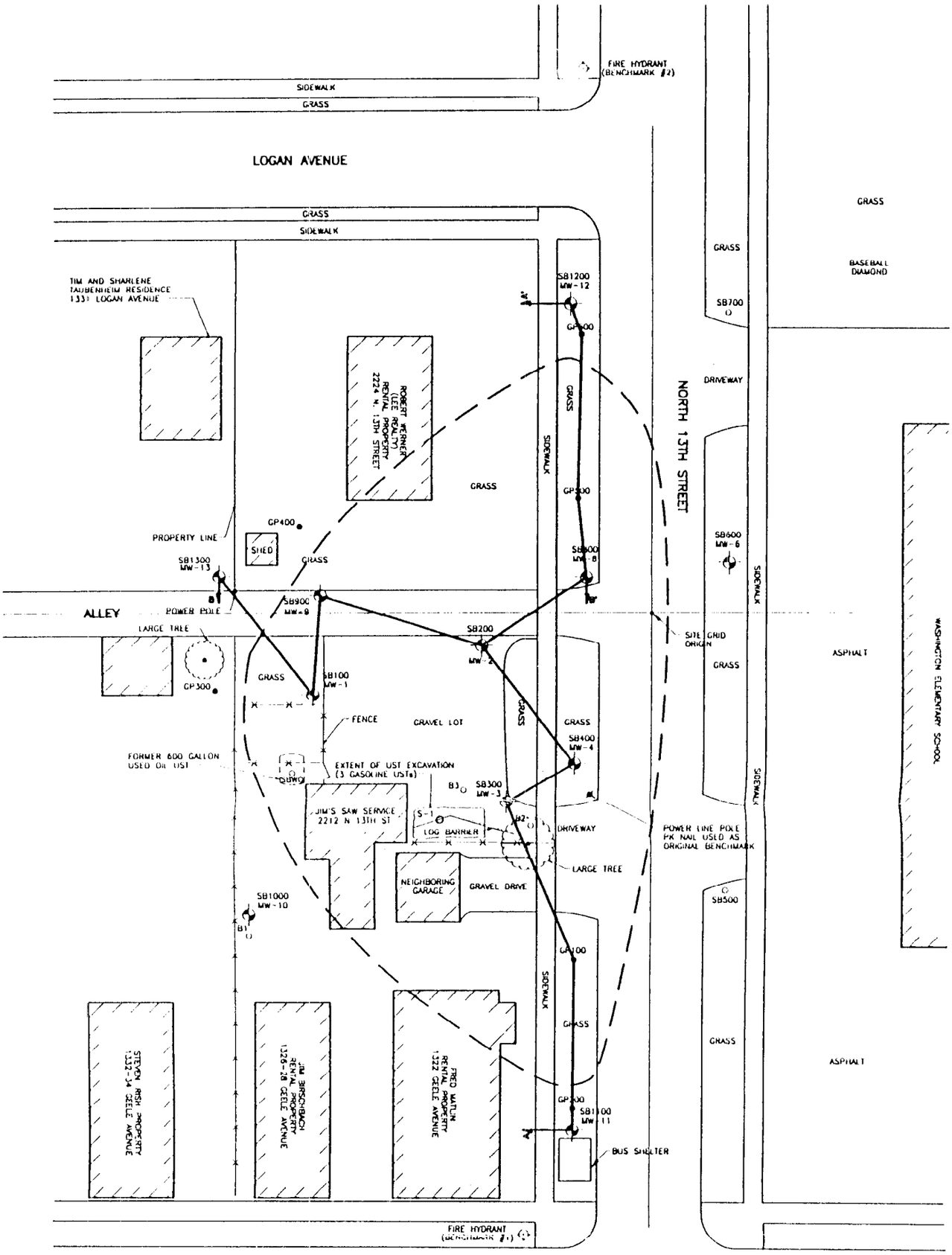
JIM'S SAW SERVICE 2212 N. 13TH STREET, SHEBOYGAN, WI			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 1-9-97	DR. BY: BEB	DR.# 3365-010	SCALE: 1" = 20'
REMEDIAL EXCAVATION / SOIL SAMPLE LOCATION MAP			FIGURE 2

Confirmation Soil Sample Laboratory Results
Jim's Saw Service
2212 North 13th Street
Sheboygan, Wisconsin

Sample	Location	Depth (ft. bgs)	Date Collected	GRO	Total Lead	Benzene	Toluene	Ethylbenzene	Total Xylene	MTBE	1,3,5-TMB	1,2,4-TMB
S-1	South Sidewall	7	11/11/96	22	4.8	<12	<29	33	188	<29	212	542
S-2	South Sidewall	7	11/11/96	7.3	5.9	8	46	237	213	<30	48	90
S-3	Base	14	11/11/96	<5.9	<4.7	66	<29	<29	<88	<29	<29	<29
S-4	East Sidewall	8	11/11/96	<315	8.1	3530	9700	5160	27700	<1640	3780	8690
S-5	Base	14	11/11/96	<5.9	<4.7	<12	<29	<29	<88	<29	<29	<29
S-6	East Sidewall	8	11/11/96	64	9.8	1020	3150	2920	11200	<28	1350	4720
S-7	South Sidewall	7	11/11/96	94	<4.8	1680	10100	3720	16800	<601	1920	6370
S-8	South Sidewall	8	11/12/96	40	<4.8	<328	<340	1010	1580	<30	1060	2790
S-9	West Sidewall	8	11/12/96	12	7	<12	<56	120	359	<31	186	582
S-10	North Sidewall	8	11/12/96	308	5.4	<2130	15400	10300	48500	<1540	7340	23700
S-11	Base	11	11/12/96	<6.0	<4.8	<12	<30	<30	<90	<3049	<30	<3049
S-12	Base	12	11/12/96	<5.9	4.8	19	38	<30	95	<30	33	37
S-13	Base	12	11/12/96	<5.8	5.1	<12	<29	<29	<87	<29	<29	<29
S-14	Base	11	11/12/96	<6.0	6.2	34	<30	<30	<90	<30	<30	<30
S-15	West Sidewall	8	11/12/96	118	<4.7	86	448	2120	4590	<158	2710	6240
S-16	North Sidewall	8	11/12/96	358	8	<800	13800	9700	50800	<1500	9010	23100
		NR 720 Soil Standard		100	NES	5.5	1500	2900	4100	NES	NES	NES

Note:

All depths given in feet below ground surface (bgs)
all results expressed in parts per billion (ppb) except GRO and Total Lead which is expressed in parts per million (ppm)
Shaded areas indicate NR 720 Soil Standard exceedances
GRO = Gasoline Range Organics
TMB = Trimethylbenzene
MTBE = Methyl-tert-butyl-ether
NES = No established standard



EXPLANATION

- APPROXIMATE EXTENT OF SOIL CONTAMINATION (PID RESPONSE >100)
- A–A' SUBSURFACE CROSS-SECTION LOCATION
- SB100 MW-1 BOREHOLE/MONITORING WELL LOCATION
- SB100 APPROXIMATE LOCATION OF EXPLORATORY BORING
- GP100 GEOPROBE EXPLORATORY BOREHOLE LOCATION
- S-1O EXISTING 8" PVC SUMP LOCATION

NOTES: SITE GRID ORIGIN IS INTERSECT OF ALLEY AND N 13TH STREET CENTER LINES

BENCHMARK #1: TOP NUT OF FIRE HYDRANT HAVING AN ELEVATION OF 644.95 FEET MLS

BENCHMARK #2: TOP NUT OF FIRE HYDRANT HAVING AN ELEVATION OF 643.59 FEET MSL

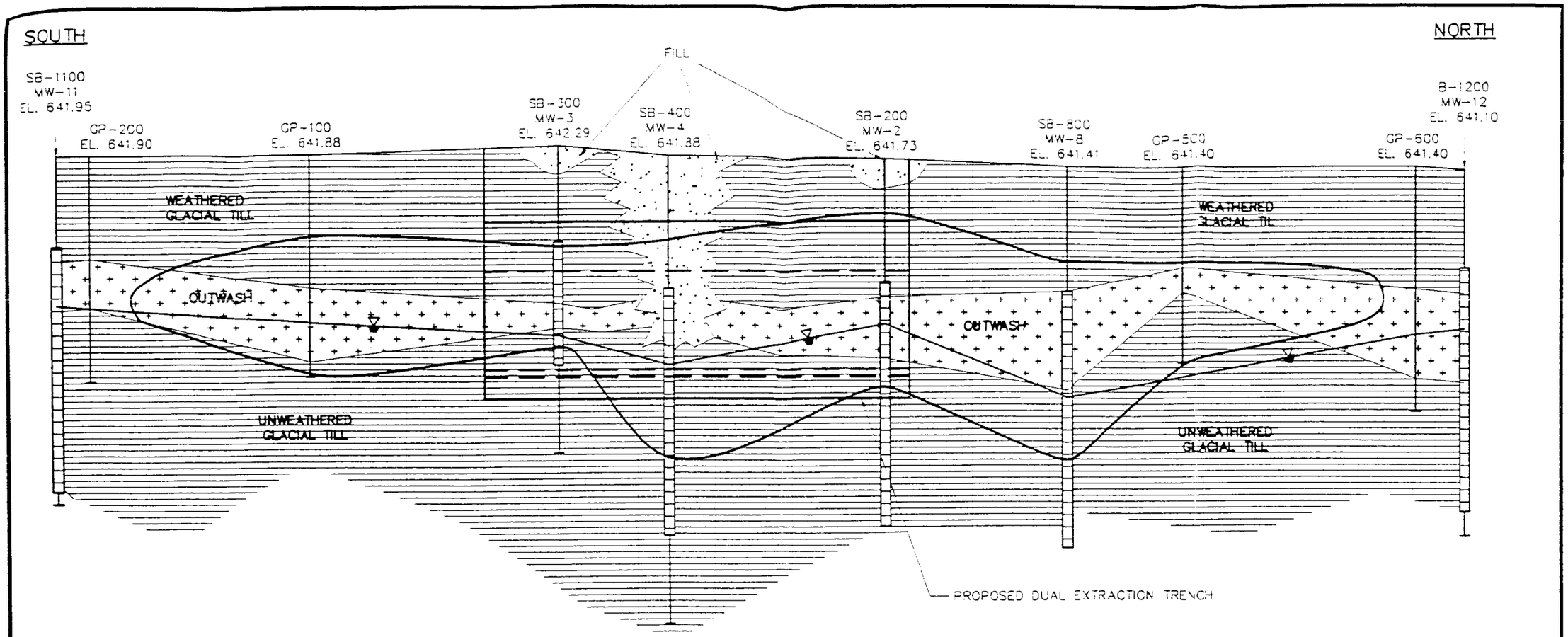
EXPLORATORY BORINGS (B1,B2,B3) WERE DRILLED ON 08/23/89 BY MILLER ENGINEERS AND SCIENTISTS

N

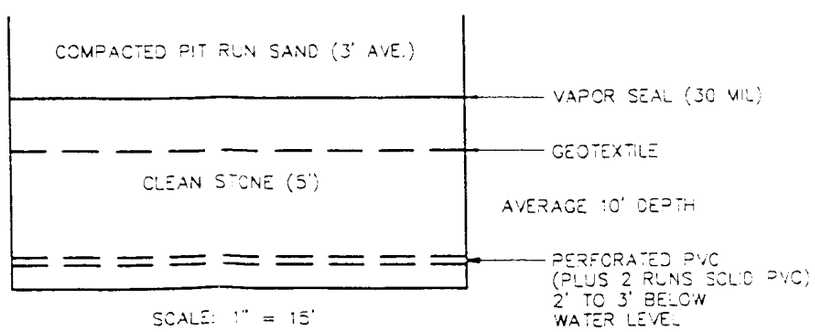
SCALE IN FEET
15 0 15 30

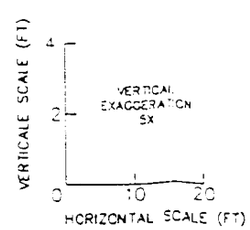
DRAWN BY: BGD	PROJECT: JSS130471	DATE: 07/11/95
REV. DATE 7/10/95	THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS THE PROPERTY OF NORTHERN ENVIRONMENTAL INCORPORATED AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED	JIM'S SAW SERVICE SHEBOYGAN, WISCONSIN
	Northern Environmental™ Hydrologists • Engineers • Geologists	APPROXIMATE EXTENT OF SOIL CONTAMINATION AND SOIL CROSS-SECTIONS

FIGURE 3



TRENCH DETAIL

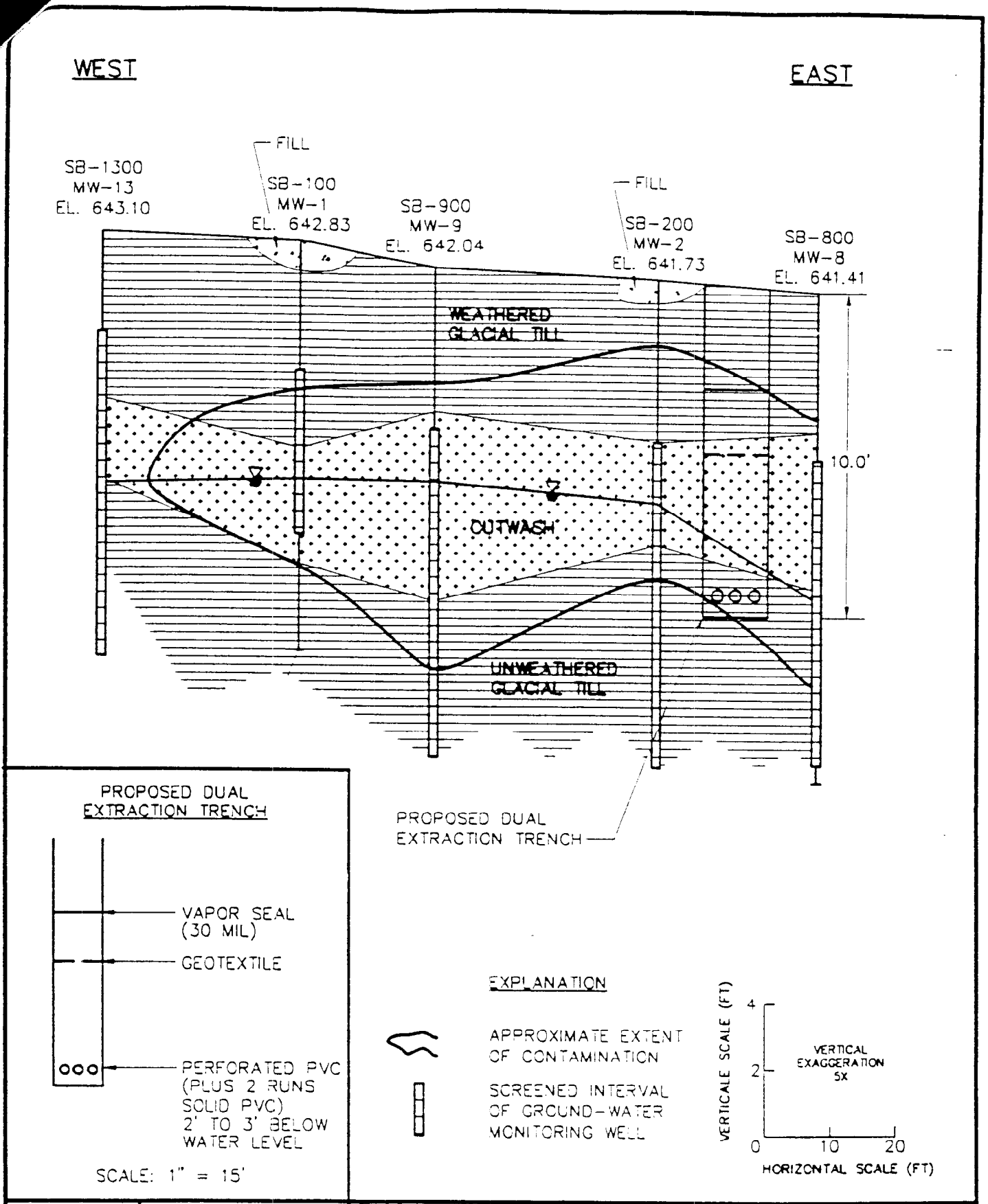




EXPLANATION

	INFERRED CONTACT
	APPROXIMATE EXTENT OF SOIL CONTAMINATION
	SCREENED INTERVAL OF GROUND-WATER MONITORING WELL
GP200	GEOPROBE EXPLORATORY BOREHOLE
MW400	MONITORING WELL

DRAWN BY: DMF	PROJECT: JSS130471	DATE: 07/11/95
REV. DATE	THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS THE PROPERTY OF NORTHERN ENVIRONMENTAL INCORPORATED AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED.	JIM'S SAW SERVICE SHEBOYGAN, WISCONSIN
	Northern Environmental Hydrologists • Engineers • Geologists	SOIL CROSS-SECTION A-A'



DRAWN BY: DMF	PROJECT: JSS13C471	DATE: 07/11/96	JIM'S SAW SERVICE SHEBOYGAN, WISCONSIN
REV. DATE 7/10/95	THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS THE PROPERTY OF NORTHERN ENVIRONMENTAL INCORPORATED AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED		
	Northern Environmental™ Hydrologists • Engineers • Geologists		SOIL CROSS-SECTION B-B'

FIGURE 8

SIGMA
ENVIRONMENTAL SERVICES INC.

1800 West Rogers Avenue
Appleton, WI 54914-5001
920-954-1020
FAX: 920-954-1257

June 16, 2000

Project Reference #3365

Ms. Patricia Lohse
City Clerk
City of Sheboygan
828 Center Avenue
Sheboygan, Wisconsin 53081

Re: Notice of Residual Petroleum Contamination
Within Public Street or Right-of-Way
Jim's Saw Service
2213 N. 13th Street
Sheboygan, Wisconsin

Dear Ms. Lohse:

Enclosed please find a copy of the Notice of Residual Petroleum Contamination filed with the City of Sheboygan 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 contamination 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 submittal, please feel free to contact either Mr. Tim Welch at (414) 768-7144 or myself at (920) 954-1020.

Sincerely,
SIGMA ENVIRONMENTAL SERVICES, INC.

Kevin D. Christensen, EIT, CHMM
Staff Engineer

enclosure

cc: Mr. James Birschbach - Jim's Saw Service
Ms. Nancy Kochis - Wisconsin Department of Commerce
Mr. Tim Welch - Sigma

SIGMA
ENVIRONMENTAL SERVICES INC.

1800 West Rogers Avenue
Appleton, WI 54914-5001
920-954-1020
FAX: 920-954-1257

June 16, 2000

Project Reference #3365

Mr. Lloyd Turner
Director of Public Works
City of Sheboygan
833 Center Avenue
Sheboygan, Wisconsin 53081

RE: Notice of Residual Petroleum Contamination
Within Public Street or Right-of-Way
Jim's Saw Service
2213 N. 13th Street
Sheboygan, Wisconsin

Dear Mr. Turner:

On behalf of Mr. James Birschbach of Jim's Saw Service, Sigma Environmental Services, Inc. (Sigma) is notifying the City of Sheboygan Public Works Department regarding the presence of residual petroleum hydrocarbon contamination within soil and groundwater located beneath North 13th Street in the vicinity of the above referenced site. The Wisconsin Department of Commerce (COMM) has granted site closure for the site, conditional upon filing of appropriate deed restrictions and notifying authorities of petroleum contamination extending into public right-of-ways.

Sigma is notifying your department pursuant to Wisconsin Administrative Code, Chapter NR 726.05 (2)(b)(4), of the presence of soil and groundwater impacts beneath North 13th street which may exceed applicable Wisconsin Administrative Code, Chapter NR 720 and NR 140 standards for soil and groundwater, respectively.

Sigma has enclosed tables summarizing soil and groundwater quality and a site map showing soil boring locations, monitoring well locations and remedial excavation boundaries. Petroleum contaminated groundwater above Wisconsin Administrative Code, Chapter NR 140 enforcement standards existed in monitoring well 8 (MW-8) on October 18, 1999. Sigma's investigation, remediation and monitoring data has confirmed that the groundwater contaminant plume is stable or receding, that natural attenuation will restore the groundwater to NR 140 standards within a reasonable period of time and that the contamination has not migrated across the right-of-way to another property.

If future construction activities disturb soil beneath North 13th street in the vicinity of the above referenced site, the excavated soil may be considered a solid waste and require proper disposal. In addition, if future construction activities require dewatering, or if groundwater is to be otherwise extracted from beneath North 13th Street in the vicinity of the above referenced site, the groundwater shall be sampled and managed in compliance with applicable statutes and rules.

If you have any questions or comments, please feel free to contact either Mr. Tim Welch at (414) 768-7144 or myself at (920) 954-1020.

Sincerely,
SIGMA ENVIRONMENTAL SERVICES, INC.

Kevin D. Christensen, EIT, CHMM
Staff Engineer

cc: Mr. James Birschbach - Jim's Saw Service
Ms. Nancy Kochis - Wisconsin Department of Commerce
Ms. Patricia Lohse - City of Sheboygan Clerk
Mr. Tim Welch - Sigma

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1573175

Document Number	NOTICE OF CONTAMINATION TO PROPERTY

SHEBOYGAN COUNTY, WI
RECORDED ON

06-20-2000 11:02 AM

DARLENE J. NAVIS
REGISTER OF DEEDS

RECORDING FEE: 18.00
TRANSFER FEE:

039124 8

Legal Description of the Property: in re:

Lot Eleven (11) of Geele's & Armbruster's Subdivision to the City of Sheboygan, and the North Sixty (60) feet of the West Forty (40) feet of Lot Twelve (12) of Geele's & Armbruster's Subdivision to the City of Sheboygan, according to the recorded plat thereof.

Recording Area

Name and Return Address
Mr. James Birschbach
2306 N. 13th Street
Sheboygan, WI 53083

708640

Parcel Identification Number (PIN)

STATE OF WISCONSIN)
) ss
COUNTY OF SHEBOYGAN)

Section 1. James A. Birschbach and Karen S. Birschbach, his wife, as joint tenants, are the owner of the above-described property.

Section 2. One or more petroleum discharges have occurred at this property. Benzene contaminated groundwater above NR 140 enforcement standards existed on this property on October 18, 1999 at Monitoring Well-1 (MW-1) at 69 micrograms per liter (μg/l). Benzene contaminated soil above NR 720 residual contaminant levels existed on the property in November 1996 along the base and sidewalls of the remedial excavation at the following locations: South Sidewall (S-2) at 18 micrograms per kilogram (μg/kg); Base (S-3) at 66 μg/kg, East Sidewall (S-4) at 3530 μg/kg; East Sidewall (S-6) at 1020 μg/kg; South Sidewall (S-7) at 1680 μg/kg; Base (S-12) at 19 μg/kg; Base (S-14) at 34 μg/kg; and West Sidewall (S-15) at 86 μg/kg. Toluene contaminated soil above NR 720 residual contaminant levels existed on the property in November 1996 along the base and sidewalls of the remedial excavation at the following locations: East Sidewall (S-4) at 9700 μg/kg; East Sidewall (S-6) at 3150 μg/kg; South Sidewall (S-7) at 10100 μg/kg; North Sidewall (S-10) at 15400 μg/kg; and North Sidewall (S-16) at 13800 μg/kg. Ethylbenzene contaminated soil above NR 720 residual contaminant levels existed on the property in November 1996 along the base and sidewalls of the remedial excavation at the following locations: East Sidewall (S-4) at 5160 μg/kg; East Sidewall (S-6) at 2920 μg/kg; South Sidewall (S-7) at 3720 μg/kg; North Sidewall (S-10) at 10300 μg/kg; and North Sidewall (S-16) at 9700 μg/kg. Xylene contaminated soil above NR 720 residual contaminant levels existed on the property in November 1996 along the base and sidewalls of the remedial excavation at the following locations: East Sidewall (S-4) at 27700 μg/kg; East Sidewall (S-6) at 11200 μg/kg; South Sidewall (S-7) at 16800 μg/kg; North Sidewall (S-10) at 48500 μg/kg; West Sidewall (S-15) at 4590 μg/kg; and North

Sidewall (S-16) at 50800 μg/kg. The locations of the monitoring wells and excavation sample locations are depicted on Figure 2, which is attached and hereby made a part of this notice.

Section 3. 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 limitations and/or 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 prohibitions or 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.
>
> Residual petroleum contaminated soil with benzene (1680 μg/kg), toluene (15400 μg/kg), ethylbenzene (10300 μg/kg) and xylene (50800 μg/kg) remains on this site in the area along the base and sidewalls of the remedial excavation (see attached map, Figure 2). It has been shown that these levels are protective of health and the environment. If this contaminated soil is excavated in the future, it may be considered a solid waste and will need to be disposed in accordance with all applicable laws.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Commerce, or its successor, issue a determination that the restrictions set forth in this covenant are no longer required . That property owner shall provide any and all necessary information to the Department in order for the Department to be able to make a determination. Upon receipt of such a request, the Department shall determine whether or not the restrictions contained herein can be extinguished. Conditions under which a restriction may be extinguished will be determined in accordance with the site specific standards, rules and laws of this property. 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 restriction, or portions of this restriction are no longer binding. Any restriction placed upon this property shall not be extinguished without the Department's written determination.

IN WITNESS WHEREOF, the owner of the property has executed this document, this 20th day of June, 2000.

Signature: James A Birschbach

Print Name: James A Birschbach

Subscribed and sworn to before me
this 20th day of June, 2000.

John Neisius

Notary Public, State of Wisconsin
My commission 3-23-2003

JOHN NEISIUS NOTARY PUBLIC STATE OF WISCONSIN

This document was drafted by Sigma Environmental Services, Inc. based on an example provided by the Wisconsin Department of Commerce.