

TO: Eric Sandin, GEF II, Geo/8

Groundwater Use Registry Buckslip

Site Name HACKBARTH SPUR STATION

Address 2008 NEVA ROAD

Antigo, WI

BRRTS # 03-34-001325

GPS Location: _____ latitude _____ longitude

Date of Closure Decision 6/07/00

Required

- Closure Letter
- Deeds for all properties with ES exceedance in Groundwater (AND EWLK RECEIVED)
- GPS location (latitude and longitude)
- Location map
- Detailed Site Map
- Groundwater Flow Direction Diagram including location of monitoring wells and all drinking water wells
- Latest Groundwater Plume Map with Groundwater Flow Direction
- Latest Table of Analytical Results for Groundwater

If Available, include the following:

- Metes and Bounds Legal Description
- Tax Parcel Number *OF DEED #201-2863-17, 201-2863-18, 201-2863-19*
- Geologic cross sections showing soil and groundwater contaminant source extent and location, isoconcentrations for all groundwater contaminants that exceed NR 140 enforcement standards, water table and piezometric elevations, and the extent, location and elevation of geologic units, bedrock, and confining unites



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
William H. Smith, Regional Director

Northern Region Headquarters
107 Sutliff Ave.
Rhinelander, Wisconsin 54501-0818
Telephone 715-365-8900
FAX 715-365-8932
TDD 715-365-8957

June 12, 2000

Mr. Larry Hackbarth
614 Kaplanek Ave
Antigo, WI 54409

Subject: Hackbarth Spur Station, 2008 Neva Rd, Antigo, WI
BRRTS # 03-34-001325

Dear Mr. Hackbarth:

The above-referenced site has been reviewed for closure by the Northern Region Closure Committee. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On October 26, 1999, you were notified that the Closure Committee had granted conditional closure to this case.

On June 7, 2000, the Department received correspondence indicating that you have complied with the conditions of closure, specifically, the recording of a groundwater use restriction. Based on the correspondence and the data provided, it appears that your site has been remediated to Department standards in accordance with NR 726.05, Wis Adm Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time.

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

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 715-365-8990.

Sincerely,
NORTHERN REGION

Janet Kazda
Janet Kazda
Program Assistant

→ c: File

Mr. Richard Winter
835 Fifth Ave
Antigo, WI 54409



Quality Natural Resources Management
Through Excellent Customer Service



344284

GROUNDWATER USE RESTRICTION

Document No.

Document Title

LANGLADE COUNTY, WI
RECEIVED FOR RECORD
'00 MAY 30 PM 3 39

REGISTER OF DEEDS

Sandra Fischer

201-286317
TRANSFER
RECORDING FEE
GRANT
THAT

Recording Area

Declaration of Restrictions

In Re: Title to:

PARCEL NO. 1:

That part of Lot number Seven (7) of Owner's Subdivision of the North One-half (N 1/2) of Section Twenty (20) in Township Thirty-one (31) North, Range Eleven (11) East described as follows:

Beginning at the center of the intersection of Neva Street or Road and Ackley Street, running thence West along the center of Ackley Street thirteen (13) rods, thence North eleven (11) rods, thence East eleven (11) rods to the center of said Neva Street or Road, thence twelve (12) rods Southeasterly along the center of said Road to the place of beginning.

PARCEL NO.2:

That part of Lot number Seven (7) of Owner's Subdivision of the North Half (N 1/2) of Section number Twenty (20), in Township number Thirty-one (31) North, of Range number Eleven (11) East, described as follows:

Starting at a point on the center line of Ackley Street, two hundred fourteen and five-tenths (214.5) feet West of the center line of the Neva Road; thence North one hundred eighty-one and five-tenths (181.5) feet; thence West one hundred (100) feet; thence South one hundred eighty-one and five-tenths (181.5) feet; thence East one hundred (100) feet to the place of beginning.

STATE OF WISCONSIN)
)SS
COUNTY OF LANGLADE)

WHEREAS, The Clarence Hackbarth Revocable Trust dated June 11, 1991 and Clarence W. Hackbarth, individually, are the land contract sellers to Eugene W. Stefanski and Diane L. Stefanski, of the above described property.

WHEREAS, one or more petroleum discharges have occurred at this property. Petroleum contaminated groundwater above ch. NR 140, Wis. Adm. Code, enforcement standards exists on this property in the form and concentration as follows. Benzene contamination above the enforcement actions still exists at a level of 360 micrograms per liter (ug/L) parts per billion (ppb), Toluene 1,300 ug/L, Ethylbenzene 790 ug/L, Total Xylenes 2,500 ug/L, and Naphthalene 180 ug/L on south east side of the property at monitoring wells 2 and 3 on October 26, 1998 in the area identified on the attached map. No soil contamination exist on the site.

Name and Return Address

Winter, Winter & Wild
835 Fifth Ave.
Antigo, WI 54409
Phone (715) 623-2905

201-2863.17, 201-2863.18, 201-2863.19
Parcel Identification Number

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

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

WHEREAS, construction of wells where the water quality does not comply with drinking water standards in ch. NR 809 is restricted by chs. NR 811 and NR 812, Wis. Adm. Code. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply.

NOW THEREFORE, the owners hereby declare 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:

If construction is proposed on this property that will require dewatering, or if groundwater is to be otherwise extracted from this property, while this groundwater use restriction is in effect, the groundwater shall be sampled and analyzed for contaminants that were previously detected on the property and any extracted groundwater shall be managed in compliance with applicable statutes and rules.

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 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 or 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 one or more of the restrictions set forth in this covenant is no longer required. Upon the 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, attached to a copy of the Department's written determination, may be recorded to give notice that this deed restriction, or portions of this deed restriction, are no longer binding.

IN WITNESS WHEREOF, the owners of the property have executed this Declaration of Restrictions, this 18th day of May, 2000.

Clarence W. Hackbarth (SEAL)
Clarence W. Hackbarth, Trustee of the
Clarence Hackbarth Revocable Trust
dated June 11, 1991

Clarence W. Hackbarth (SEAL)
Clarence W. Hackbarth
Individually

Eugene W. Stefanski (SEAL)
Eugene W. Stefanski

Diane L. Stefanski (SEAL)
Diane L. Stefanski

Subscribed and sworn before me this 18 day of May, 2000.

Richard T. Winter
Richard T. Winter
Notary Public, State of Wisconsin
My commission is permanent.

This document was drafted by:

WINTER, WINTER & WILD
Richard T. Winter
835 Fifth Avenue
Antigo, Wisconsin 54409
(715) 623-2905

329014

LAND CONTRACT

Document No.

Document Title

LANGLADE COUNTY, WI
RECEIVED FOR RECORD

'98 FEB 13 PM 1 24

REGISTER OF DEEDS

Janice Taylor

429
[Signature]

CONTRACT, by and between The Clarence Hackbarth Revocable Trust dated June 11, 1991 and Clarence W. Hackbarth, individually, ("Vendor", whether one or more) and Eugene W. Stefanski and Diane L. Stefanski, husband and wife, as survivorship marital property, ("Purchaser", whether one or more). Vendor sells and agrees to convey to Purchaser, upon the prompt and full performance of this contract by Purchaser, the following property, together with the rents, profits, fixtures and other appurtenant interests (all called the "Property"), in Langlade County, State of Wisconsin:

Recording Area

Name and Return Address

Wester

PARCEL NO. 1:

That part of Lot number Seven (7) of Owner's Subdivision of the North One-half (N1/2) of Section Twenty (20) in Township Thirty-one (31) North, Range Eleven (11) East described as follows:

201-2863.17, 201-2863.18, 201-2863.19
Parcel Identification Number

Beginning at the center of the intersection of Neva Street or Road and Ackley Street, running thence West along the center of Ackley Street thirteen (13) rods, thence North eleven (11) rods, thence East eleven (11) rods to the center of said Neva Street or Road, thence twelve (12) rods Southeasterly along the center of said Road to the place of beginning.

PARCEL NO. 2:

That part of Lot number Seven (7) of Owner's Subdivision of the North Half (N1/2) of Section number Twenty (20), in Township number Thirty-one (31) North, of Range number Eleven (11) East, described as follows:

Starting at a point on the center line of Ackley Street, two hundred fourteen and five-tenths (214.5) feet West of the center line of the Neva Road; thence North one hundred eighty-one and five-tenths (181.5) feet; thence West one hundred (100) feet; thence South one hundred eighty-one and five-tenths (181.5) feet; thence East one hundred (100) feet to the place of beginning.

This is not homestead property

Purchaser agrees to purchase the Property and to pay to Vendor at his residence the sum of One Hundred Forty Thousand and 00/100 (\$140,000.00) Dollars in the following manner: (a) \$85,000.00 at the execution of this Contract; and (b) the balance of \$55,000.00, together with interest from date hereof on the balance outstanding from time to time at the rate of seven (7) percent per annum until paid in full, as follows:

Payments of \$500.00 per month on principal and interest commencing one (1) month from date hereof.

Provided however, the entire outstanding balance shall be paid in full on or before the 12th day of February, 2001. (the maturity date).

- * The \$140,000.00 purchase price is allocated as follows:

Home	\$60,000.00
Motel	\$50,000.00
Former station property	\$30,000.00

* The home shall be deemed paid for in its entirety out of the \$85,000.00 down payment and the purchasers may demand a deed therefore at any time that they want to obtain a certified survey of the parcel to enable same to be separately described and conveyed to them. The only reason that the home has not been separately conveyed is that no survey has yet been made to obtain a separate description therefor.

* If the environmental remediation of this property has not been completed by the time this contract is to be paid in full, the final payments funds shall be paid to M & I First American Bank to be held as security for any additional remediation costs, all of which are to be borne by the sellers.

Following any default in payment, interest shall accrue at the rate of twelve (12) percent per annum on the entire amount in default (which shall include, without limitation, delinquent interest and, upon acceleration or maturity, the entire principal balance).

Purchaser, unless excused by Vendor, agrees to pay monthly to Vendor amounts sufficient to pay reasonably anticipated annual taxes, special assessments, fire and required insurance premiums when due. To the extent received by Vendor, Vendor agrees to apply payments to these obligations when due. Such amounts received by the Vendor for payment of taxes, assessments and insurance will be deposited into an escrow fund or trustee account, but shall not bear interest unless otherwise required by law.

Payments shall be applied first to interest on the unpaid balance at the rate specified and then to principal. Any amount may be prepaid without premium or fee upon principal at any time after closing.

In the event of any prepayment, this contract shall not be treated as in default with respect to payment so long as the unpaid balance of principal, and interest (and in such case accruing interest from month to month shall be treated as unpaid principal) is less than the amount that said indebtedness would have been had the monthly payments been made as first specified above; provided that monthly payments shall be continued in the event of credit of any proceeds of insurance or condemnation, the condemned premises being thereafter excluded herefrom.

Purchaser states that Purchaser is satisfied with the title as shown by the title evidence submitted to Purchaser for examination except: none

Purchaser agrees to pay the cost of future title evidence. If title evidence is in the form of an abstract, it shall be retained by Vendor until the full purchase price is paid.

Purchaser shall be entitled to take possession of the property on February 12, 1998.

Purchaser promises to pay when due all taxes and assessments levied on the Property or upon Vendor's interest in it and to deliver to Vendor on demand receipts showing such payment.

Purchaser shall keep the improvements on the Property insured against loss or damage occasioned by fire, extended coverage perils and such other hazards as Vendor may require, without co-insurance, through insurers approved by Vendor, in the sum of its insurable value, but Vendor shall not require coverage in an amount more than the balance owed under this Contract. Purchaser shall pay the insurance premiums when due. The policies shall contain the standard clause in favor of the Vendor's interest and unless Vendor otherwise agrees in writing, the original of all policies covering the Property shall be deposited with Vendor. Purchaser shall promptly give notice of loss to insurance companies and Vendor. Unless Purchaser and Vendor otherwise agree in writing, insurance proceeds shall be applied to restoration or repair of the Property damaged, provided the Vendor deems the restoration or repair to be economically feasible.

Purchaser covenants not to commit waste nor allow waste to be committed on the Property, to keep the Property in good tenantable condition and repair, to keep the Property free from liens superior to the lien of this Contract, and to comply with all laws, ordinances and regulations affecting the Property.

Vendor agrees that in case the purchase price with interest and other moneys shall be fully paid and all conditions shall be fully performed at the times and in the manner above specified, Vendor will on demand, execute and deliver to the Purchaser a Warranty Deed, in fee simple, of the Property, free and clear of all liens and encumbrances, except any liens or encumbrances created by the act or default of Purchaser, and except: none

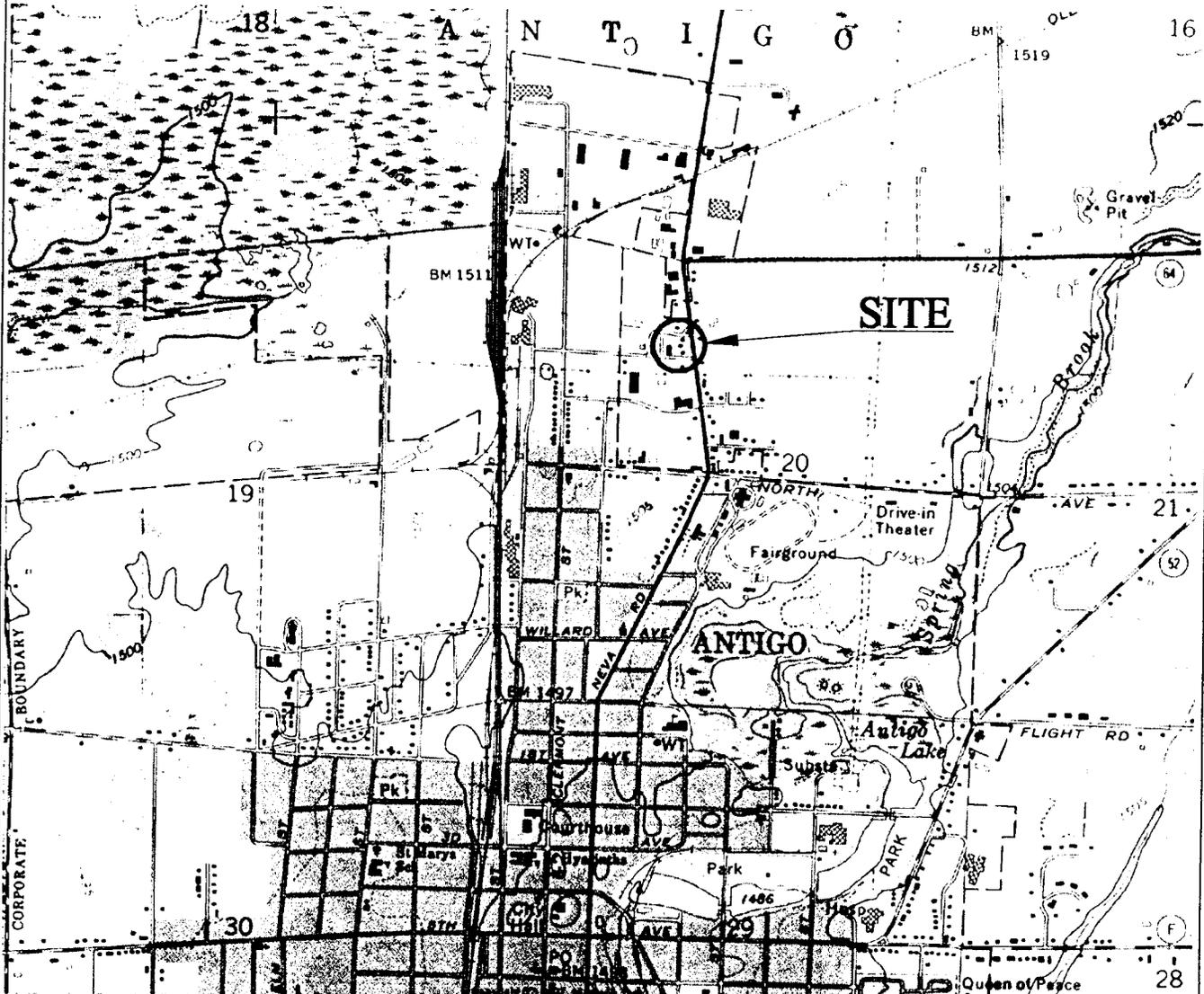
Purchaser agrees that time is of the essence and (a) in the event of a default in the payment of any principal or interest which continues for a period of thirty (30) days following the specified due date or (b) in the event of a default in performance of any other obligation of Purchaser which continues for a period of thirty (30) days following written notice thereof by Vendor (delivered personally or mailed by certified mail), then the entire outstanding balance under this contract shall become immediately due and payable in full, at Vendor's option and without notice (which Purchaser hereby waives), and Vendor shall also have the following rights and remedies (subject to any limitations provided by law) in addition to those provided by law or in equity: (i) Vendor may, at his option, terminate this Contract and Purchaser's rights, title and interest in the Property and recover the Property back through strict foreclosure with any equity of redemption to be conditioned upon Purchaser's full payment of the entire outstanding balance, with interest thereon from the date of default at the rate in effect on such date and other amounts due hereunder (in which event all amounts previously paid by Purchaser shall be forfeited as liquidated damages for failure to fulfill this Contract and as rental for the Property if purchaser fails to redeem); or (ii) Vendor may sue for specific performance of this Contract to compel immediate and full payment of the entire outstanding balance, with interest thereon at the rate in effect on the date of default and other amounts due hereunder, in which event the Property shall be auctioned at judicial sale and Purchaser shall be liable for any deficiency; or (iii) Vendor may sue at law for the entire unpaid purchase price or any portion thereof; or (iv) Vendor may declare this Contract at an end and remove this Contract as a cloud on title in a quiet-title action if the equitable interest of Purchaser is insignificant; and (v) Vendor may have Purchaser ejected from possession of the Property and have a receiver appointed to collect any rents, issues or profits during the pendency of any action under (i), (ii) or (iv) above. Notwithstanding any oral or written statements or actions of Vendor, an election of any of the foregoing remedies shall only be binding upon Vendor if and when pursued in litigation and all costs and expenses including reasonable attorneys fees of Vendor incurred to enforce any remedy hereunder (whether abated or not) to the extent not prohibited by law and expenses of title evidence shall be added to principal and paid by Purchaser, as incurred, and shall be included in any judgment.

Upon the commencement or during the pendency of any action of foreclosure of this Contract, Purchaser consents to the appointment of a receiver of the Property, including homestead interest, to collect the rents, issues, and profits of the Property during the pendency of such action, and such rents, issues, and profits when so collected shall be held and applied as the court shall direct.

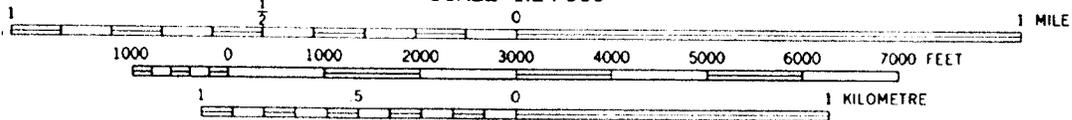
Purchaser shall not transfer, sell or convey any legal or equitable interest in the property (by assignment of any of Purchaser's rights under this Contract or by option, long-term lease or in any other way) without the prior written consent of Vendor unless either the outstanding balance payable under this Contract is first paid in full or the interest conveyed is a pledge or assignment of Purchaser's interest under this Contract solely as security for an indebtedness of Purchaser. In the event of any such transfer, sale or conveyance without Vendor's written consent the entire outstanding balance payable under this Contract shall become immediately due and payable in full at Vendor's option without notice.

Vendor shall make all payments when due under any mortgage outstanding against the Property on the date of this Contract (except for any mortgage granted by Purchaser) or under any note secured thereby, provided Purchaser makes timely payment of the amounts then due under this Contract. Purchaser may make any such payments directly to the Mortgagee if Vendor fails to do so and all payments so made by Purchaser shall be considered payments made on this Contract.

Vendor may waive any default without waiving any other subsequent or prior default of Purchaser.



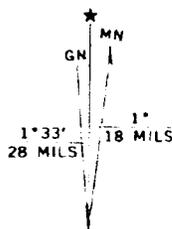
SCALE 1:24 000



CONTOUR INTERVAL 10 FEET
 DOTTED LINES REPRESENT 5-FOOT CONTOURS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929



QUADRANGLE LOCATION



UTM GRID AND 1973 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET

ANTIGO, WIS.

N4507.5—W8907.5/7.5

1973

HACKBARTH SPUR STATION
 2008 NEVA ROAD
 ANTIGO, WISCONSIN

FIGURE 1 : SITE VICINITY MAP

PROJECT NO.

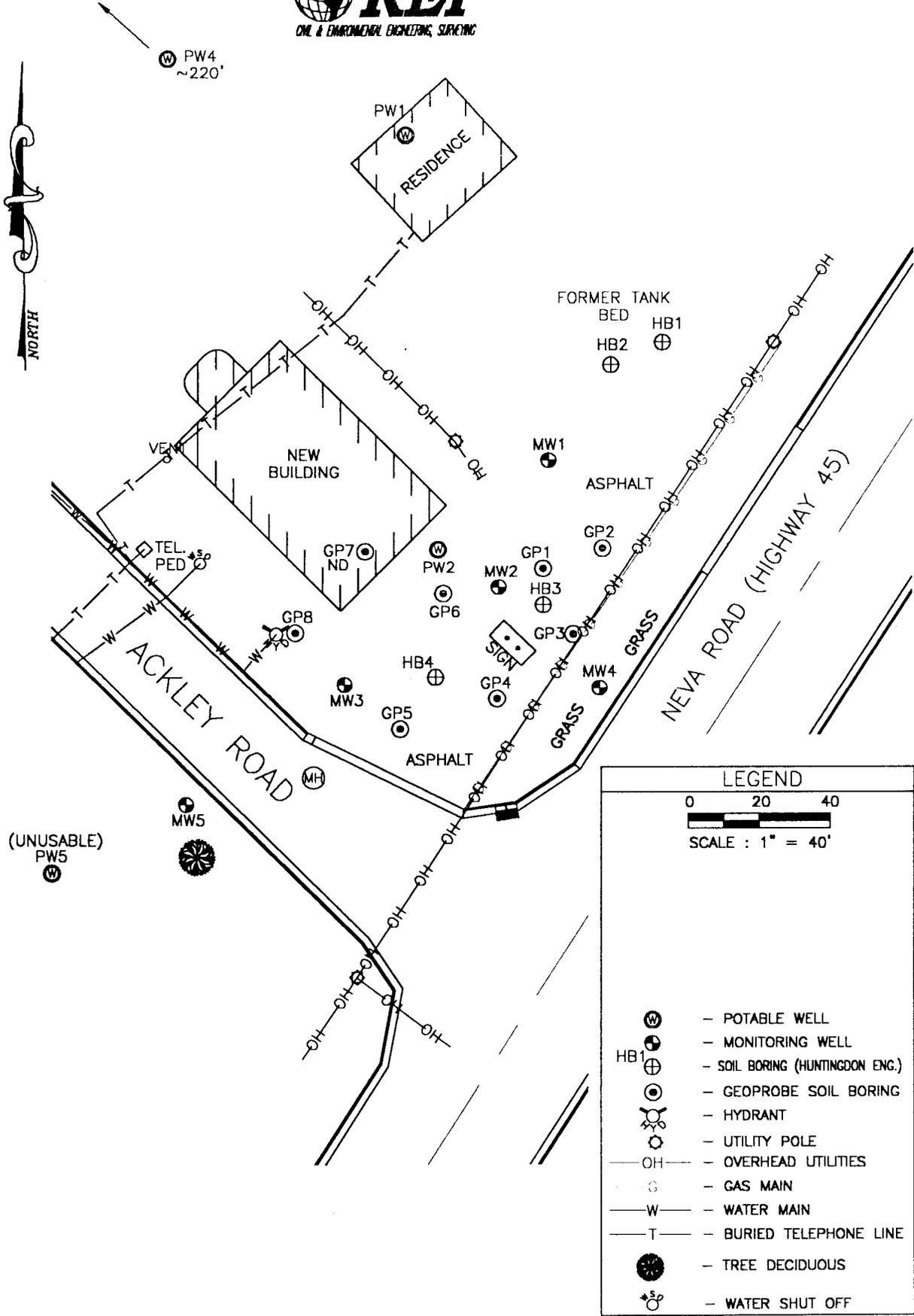
#0528

DRAWN BY:

TAW

DATE:

5/17/99



F:\DRAFTING\0528HACK\528SITE1-R.DWG

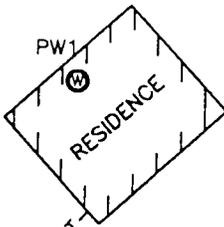
HACKBARTH SPUR STATION
 2008 NEVA ROAD
 ANTIGO, WISCONSIN

FIGURE 2 : SITE MAP

PROJECT NO.	#0528	DRAWN BY:	TAW	DATE:	6/17/98
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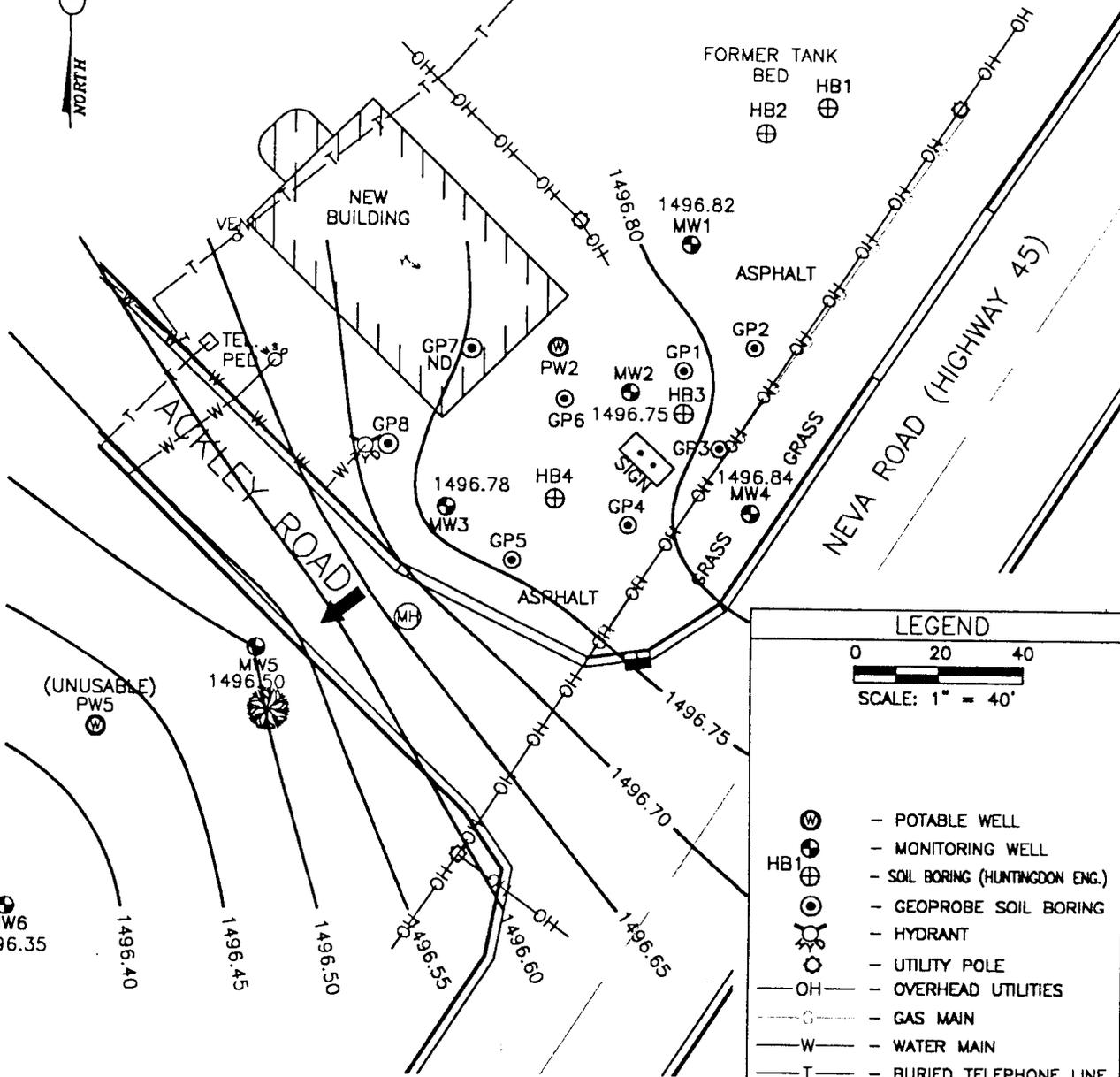


W PW4
~220'



FORMER TANK
BED
HB1
HB2

NEW
BUILDING



LEGEND

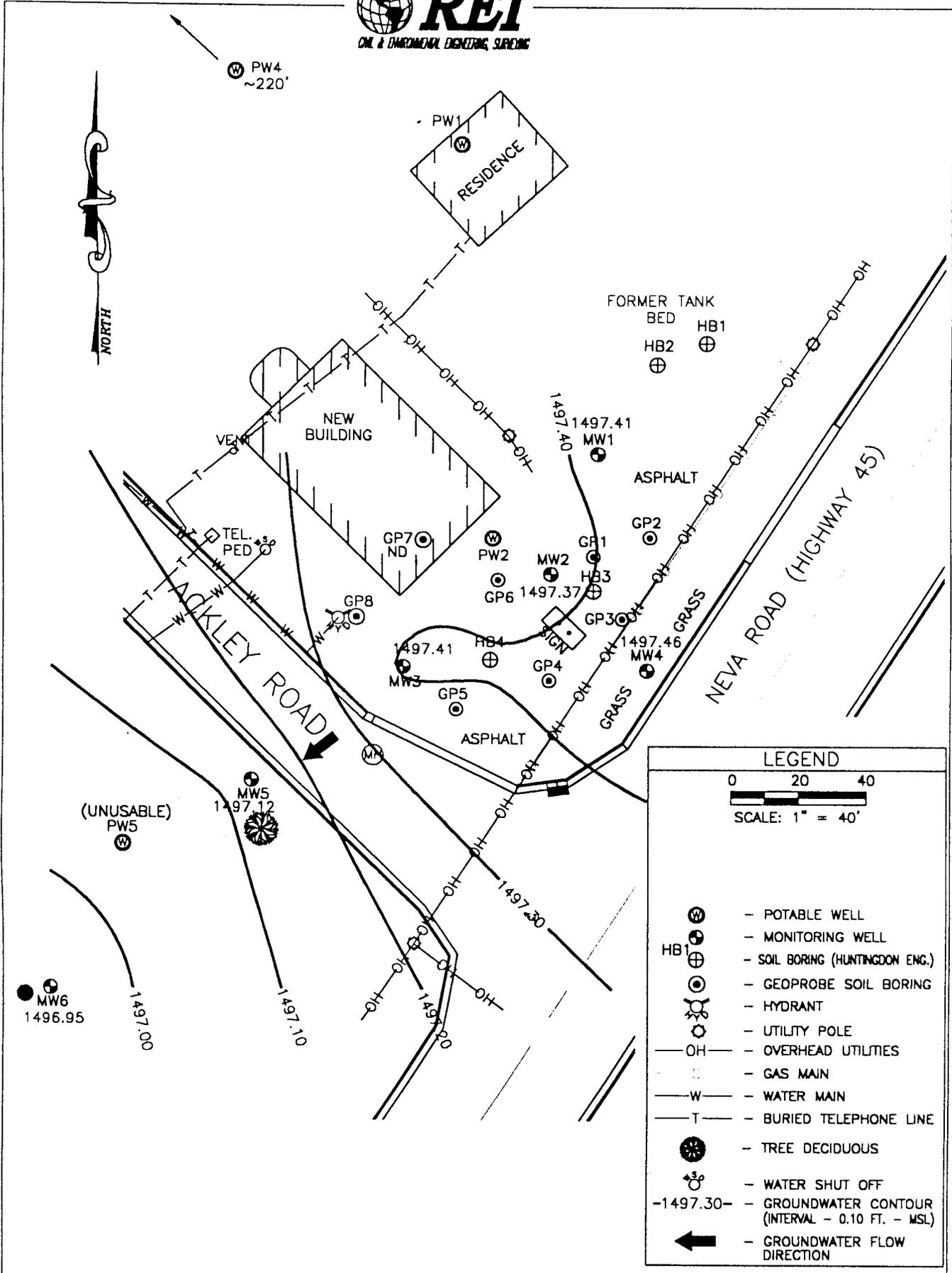
0 20 40
SCALE: 1" = 40'

- ⊕ - POTABLE WELL
- ⊙ - MONITORING WELL
- ⊕ - SOIL BORING (HUNTINGDON ENG.)
- ⊙ - GEOPROBE SOIL BORING
- ⊕ - HYDRANT
- ⊕ - UTILITY POLE
- OH - OVERHEAD UTILITIES
- G - GAS MAIN
- W - WATER MAIN
- T - BURIED TELEPHONE LINE
- ⊗ - TREE DECIDUOUS
- ⊕ - WATER SHUT OFF
- 1497.30- - GROUNDWATER CONTOUR (INTERVAL - 0.05 FT. - MSL)
- ← - GROUNDWATER FLOW DIRECTION

F:\DRAFTING\0528\HACK\528GW10-98.DWG

HACKBARTH SPUR STATION
2008 NEVA ROAD
ANTIGO, WISCONSIN

FIGURE 7g : GROUNDWATER CONTOUR MAP (10/26/98)	
PROJECT NO.	DATE:
#0528	5/25/99
DRAWN BY:	TAW



LEGEND

0 20 40
 SCALE: 1" = 40'

- ⊕ - POTABLE WELL
- ⊙ - MONITORING WELL
- ⊕ (HB) - SOIL BORING (HUNTINGDOON ENG.)
- ⊙ (GP) - GEOPROBE SOIL BORING
- ⊕ (H) - HYDRANT
- ⊕ (U) - UTILITY POLE
- OH — - OVERHEAD UTILITIES
- W — - WATER MAIN
- T — - BURIED TELEPHONE LINE
- ⊗ - TREE DECIDUOUS
- ⊕ (WS) - WATER SHUT OFF
- 1497.30- - GROUNDWATER CONTOUR (INTERVAL - 0.10 FT. - MSL)
- ← - GROUNDWATER FLOW DIRECTION

F:\DRAFTING\0528\HACK\528GW3-88.DWG

HACKBARTH SPUR STATION
 2008 NEVA ROAD
 ANTIGO, WISCONSIN

FIGURE 71 : GROUNDWATER CONTOUR MAP (3/12/98)	
PROJECT NO. #0528	DRAWN BY: TAW
	DATE: 5/25/99



•PW4
 ~220'

•PW1

RESIDENCE

FORMER TANK
 BED

HB1

HB2

FORMER HACKBARTH
 SPUR STATION

MW1

ASPHALT

SEPTIC VENT

GP7

BILLBOARD

GP8

CONC

ACKLEY ROAD

NEVA ROAD (HIGHWAY 45)

(UNUSABLE)
 PW5

MW5

MW6

LEGEND

0 20 40
 SCALE: 1" = 40'

- ⊕ - POTABLE WELL
- ⊕ - MONITORING WELL
- ⊕ - SOIL BORING (HUNTINGDON ENG.)
- ⊕ - GEOPROBE SOIL BORING
- ⊕ - HYDRANT
- ⊕ - UTILITY POLE
- OH— - OVERHEAD UTILITIES
- G— - GAS MAIN
- W— - WATER MAIN
- T— - BURIED TELEPHONE LINE
- ~~~~~ - TREE LINE
- ☀ - TREE CONIFEROUS
- ☀ - SHRUB
- ☀ - TREE DECIDUOUS
- ⊕ - WATER SHUT OFF
- X— - FENCE
- ▭ - EXTENT OF SOIL CONTAMINATION EXCEEDING NR 720 RCL

F:\DRAFTING\0528HACK\528GR01.DWG

HACKBARTH SPUR STATION
 2008 NEVA ROAD
 ANTIGO, WISCONSIN

FIGURE 3 : EXTENT OF SOIL CONTAMINATION EXCEEDING NR 720 RCL			
PROJECT NO.	#0528	DRAWN BY:	DATE:
		TAW	6/17/98

Table 4a
 MW 1 Groundwater Analytical Detected Parameters
 Hackbarth Spur Station
 Antigo, Wisconsin

PARAMETER	Date	ES	PAL	5/3/96	12/19/96	3/19/97	6/19/97	9/10/97	12/8/97	3/12/98	6/15/98	10/26/98
GRO				80.4	X	NA						
Detected VOC's												
Benzene	5	0.5	X		0.673	0.742	X	X	X	X	X	X
Toluene	343	68.6	X		X	X	X	X	X	0.4	X	X
Ethylbenzene	700	140	X		X	X	X	X	X	0.1	X	X
Total Xylenes	620	124	X		X	X	X	X	2	0.4	X	X
MTBE	60	12	X		X	X	X	X	X	X	X	X
1,3,5-Trimethylbenzene	-	-	X		X	X	X	X	0.23	X	X	X
1,2,4-Trimethylbenzene	-	-	X		1.01	X	X	X	2	X	X	X
1,1 Dichloroethane	850	85	X		NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethylene	5	0.5	X		NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	-	-	X		NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	-	-	X		NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl Ether	-	-	X		NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	-	-	X		NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	40	8	X		NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead	15	1.5	X		NA	NA	NA	NA	NA	NA	NA	NA
Iron (mg/L)	-	-	NA		3.3	134	35	120	100	73	48	0.06
Nitrate-Nitrogen (mg/L)	-	-	NA		0.804	1.56	4.1	3	3.2	1.6	3.5	1.6
Sulfate (mg/L)	-	-	NA		24	27.7	32.0	26	29	31	20	21

Note: All values are in ug/l. ug/l is equal to parts-per-billion (ppb).

ES = Enforcement Standard as per NR140.10, September, 1995

PAL = Preventive Action Limit as per NR140.10, September, 1995

X = Not Detected

NA = Not Analyzed

Exceeds NR 140.10 Enforcement Standard
 Exceeds NR 140.10 Preventive Action Limit

Table 4b
 MW-2 Groundwater Analytical Detected Parameters
 Hackbarth Spur Station
 Amigo, Wisconsin

PARAMETER	Date	Date													
		ES	PAL	5.3.96	12.19.96	3.19.97	6.19.97	9.10.97	12.8.97	3.12.98	6.15.98	10.26.98	8.2.99	8.10.99	
GRO			5130.0	7260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Detected VOC's															
Benzene	5	0.5	215	382	665	100	180	31	40	72	360	2.57	40.9		
Toluene	343	68.6	618	1276	1392	1110	260	15	30	160	1300	2.73	157		
Ethylbenzene	700	140	230	537	603	110	260	410	46	380	790	0.984	108		
Total Xylenes	620	124	711	1751	1938	210	620	530	64	1120	7500	0.228	523.9		
MTBE	60	12	X	X	X	0.67	X	X	X	X	X	X	X		
1,3,5-Trimethylbenzene	-	-	141	113	142	25	50	91	190	130	230	X	24.6		
1,2,4-Trimethylbenzene	-	-	79	428	505	61	200	350	620	440	790	0.384	90.8		
1,1-Dichloroethane	850	85	X	NA	NA	NA	X	X	X	X	NA	NA	NA		
Tetrachloroethylene	5	0.5	X	NA	NA	NA	X	X	X	X	NA	NA	NA		
Isopropylbenzene	-	-	X	NA	NA	NA	24	37	X	X	26	NA	NA		
n-Propylbenzene	-	-	X	NA	NA	NA	57	76	120	70	NA	NA	NA		
Isopropyl Ether	-	-	X	NA	NA	NA	X	X	X	X	NA	NA	NA		
n-Butylbenzene	-	-	X	NA	NA	NA	20	31	29	91	NA	NA	NA		
Naphthalene	40	8	X	NA	NA	NA	X	X	X	99	180	0.902	27		
sec-Butylbenzene	-	-	X	NA	NA	NA	6	8	X	X	NA	NA	NA		
Trichloroethane	-	-	X	NA	NA	NA	X	14	X	X	NA	NA	NA		
Tetrachloroethane	-	-	X	NA	NA	NA	X	5	X	X	NA	NA	NA		
1,1,2-Trichloroethane	5	0.5	X	NA	NA	NA	X	3.5	X	X	NA	NA	NA		
1,4-Dichlorobenzene	75	15	X	NA	NA	NA	X	1.6	X	X	NA	NA	NA		
1,2-Dichlorobenzene	600	60	X	NA	NA	NA	X	1.2	X	X	NA	NA	NA		
Methylene Chloride	5	0.5	X	NA	NA	NA	X	X	X	X	NA	NA	NA		
Dissolved Lead	15	1.5	2.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Iron (mg/L)	-	-	NA	64	146	62	170	120	80	94	33	NA	NA		
Nitrate-Nitrogen (mg/L)	-	-	NA	X	X	NA	X	0.02	0.03	0.07	X	NA	NA		
Sulfate (mg/L)	-	-	NA	14.9	9.15	19	12	13	16	16	22	NA	NA		

Note: All values are in ug/l. ug/l is equal to parts-per-billion (ppb).

ES = Enforcement Standard as per NR140.10, September, 1995

PAL = Preventive Action Limit as per NR140.10, September, 1995

X = Not Detected

NA = Not Analyzed

Exceeds NR 140.10 Enforcement Standard
 Exceeds NR 140.10 Preventive Action Limit

Table 4c
 MW 3 Groundwater Analytical Detected Parameters
 Hackbarth Spur Station
 Amigo, Wisconsin

PARAMETER	Date	ES	PAI	5/3/96	12/19/96	3/19/97	6/19/97	9/10/97	12/8/97	3/12/98	6/15/98	10/26/98	8/2/99
Detected VOC's				2690.0	1410	NA	NA						
Benzene	5	0.5	99	971	904	72	74	120	34	33	56	44	
Toluene	343	68.6	157	N	N	12	8	3	2	4.2	8	222	
Ethylbenzene	700	140	164	89.1	85.5	41	52	28	36	55	92	147	
Total Xylenes	620	124	277	18.5	6.4	59	58	18	7	N	7.7	472.3	
MTTBE	60	12	N	N	N	N	N	0.34	N	1.7	N	N	
1,3,5-Trimethylbenzene	-	-	129	N	N	5	25	3	N	N	1.9	33	
1,2,4-Trimethylbenzene	-	-	30	34.4	20.2	28	45	9	3	22	0.35	127	
1,1-Dichloroethane	850	85	N	N	NA	NA	N	N	N	N	NA	NA	
Tetrachloroethylene	5	0.5	N	N	NA	NA	N	N	N	N	NA	NA	
Isopropylbenzene	-	-	11	11	NA	NA	12	38	10	7.8	NA	NA	
n-Propylbenzene	-	-	19	14.8	NA	NA	14	21	8	11	NA	NA	
Isopropyl Ether	-	-	11	N	NA	NA	N	N	N	3.7	NA	NA	
n-Butylbenzene	-	-	12	N	NA	NA	5	10	2	4.5	NA	NA	
sec-Butylbenzene	-	-	N	N	NA	NA	2	5	2	1.2	NA	NA	
Naphthalene	40	8	37	N	NA	NA	7	6	1	8.8	6.8	16.4	
Trichloroethane	-	-	N	N	NA	NA	N	0.55	N	N	NA	NA	
Tetrahydroethane	-	-	N	N	NA	NA	N	0.77	N	N	NA	NA	
1,1,2-Trichloroethane	5	0.5	N	N	NA	NA	N	0.99	N	N	NA	NA	
1,1,2,2-Tetrachloroethane	0.2	0.02	N	N	NA	NA	N	1	N	N	NA	NA	
p-Isopropyltoluene	-	-	N	N	NA	NA	N	2	N	N	NA	NA	
Methylcyclohexane	5	0.5	N	N	NA	NA	N	N	0.93	N	NA	NA	
Dissolved Lead	15	1.5	N	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron (mg/l)	-	-	NA	47.1	184	96	200	89	140	110	18	NA	
Nitrate-Nitrogen (mg/l)	-	-	NA	N	N	0.27	0.25	0.25	0.05	0.05	0.065	NA	
Sulfate (mg/l)	-	-	NA	6.43	14.5	21	20	26	20	13	17	NA	

Note: All values are in ug/l. ug/l is equal to parts-per-billion (ppb).

ES - Enforcement Standard as per NR140.10, September, 1995

PAI - Preventive Action Limit as per NR140.10, September, 1995

N - Not Detected

NA - Not Analyzed

Exceeds NR 140.10 Enforcement Standard
 Exceeds NR 140.10 Preventive Action Limit

Table 4d
 MW 4 Groundwater Analytical Detected Parameters
 Hackbarth Spur Station
 Antigo, Wisconsin

PARAMETER	Date	ES	PAL	5/3/96	12/19/96	3/19/97	6/19/97	9/10/97	12/8/97	3/12/98	6/15/98	10/26/98
GRO				X	X							
Detected VOC's												
Benzene		5	0.5	X	X	X	X	X	X	X	X	X
Toluene		343	68.6	X	X	X	X	X	X	0.2	X	X
Ethylbenzene		700	140	X	X	X	X	X	X	0.1	X	X
Total Xylenes		620	124	X	3.58	X	X	X	1	X	X	X
MTBE		60	12	X	X	X	X	X	X	X	X	X
1,3,5-Trimethylbenzene		-	-	X	X	X	X	X	X	X	X	X
1,2,4-Trimethylbenzene		-	-	X	2.19	X	X	X	1	X	X	X
1,1 Dichloroethane		850	85	X	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethylene		5	0.5	X	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene		-	-	X	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene		-	-	X	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl Ether		-	-	X	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene		-	-	X	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene		40	8	X	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead		15	1.5	X	NA	NA	NA	NA	NA	NA	NA	NA
Iron (mg/L)		-	-	NA	0.012	82.2	440	120	54	62	49	0.085
Nitrate-Nitrogen (mg/L)		-	-	NA	4.62	4.36	5.3	4.9	4.5	3.5	5	3.9
Sulfate (mg/L)		-	-	NA	32.9	42.3	33	44	35	67	29	24

Note: All values are in ug/l. ug/l is equal to parts-per-billion (ppb).
 ES = Enforcement Standard as per NR140.10, September, 1995
 PAL = Preventive Action Limit as per NR140.10, September, 1995
 X = Not Detected
 NA = Not Analyzed

Exceeds NR 140.10 Enforcement Standard
 Exceeds NR 140.10 Preventive Action Limit

Table 4e
 MW 5 Groundwater Analytical Detected Parameters
 Hackbarth Spur Station
 Antigo, Wisconsin

PARAMETER	Date	ES	PAL	7/19/96	12/19/96	3/19/97	6/19/97	9/10/97	12/8/97	3/12/98	6/15/98	10/26/98
GRO				1.210	X	NA						
Detected VOC's												
Benzene	5	0.5	123	X	X	X	X	8	X	X	X	X
Toluene	343	68.6	X	X	X	X	X	X	X	X	X	X
Ethylbenzene	700	140	X	X	X	X	X	X	0.32	X	X	X
Total Xylenes	620	124	23.9	X	X	X	X	X	1.29	X	X	X
MTBE	60	12	X	X	X	X	X	X	X	X	X	X
1,3,5-Trimethylbenzene	-	-	53.9	X	X	X	X	X	0.24	X	X	X
1,2,4-Trimethylbenzene	-	-	208	X	X	X	X	X	0.91	X	X	X
1,1 Dichloroethane	850	85	X	X	NA	NA	NA	X	X	X	X	NA
Tetrachloroethylene	5	0.5	X	X	NA	NA	NA	X	X	X	X	NA
Isopropylbenzene	-	-	12.7	X	X	NA	NA	2	X	X	X	NA
n-Propylbenzene	-	-	11.8	X	X	NA	NA	X	X	X	X	NA
Isopropyl Ether	-	-	X	X	NA	NA	NA	X	X	X	X	NA
n-Butylbenzene	-	-	36.4	X	X	NA	NA	X	X	X	X	NA
Naphthalene	40	8	73	X	X	NA	NA	X	X	X	X	NA
Methylene Chloride	5	0.5	X	X	NA	NA	NA	X	X	X	X	NA
Tetrachloroethane	-	-	X	X	NA	NA	NA	2	X	2	3.6	NA
sec-Butylbenzene	-	-	X	X	NA	NA	NA	X	X	X	0.39	NA
Dissolved Lead	15	1.5	2.64	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (mg/L)	-	-	NA	2.42	1620	5.2	38	49	44	46	0.014	
Nitrate-Nitrogen (mg/L)	-	-	NA	2.21	5.92	1.7	0.11	0.45	2.6	2.9	1.2	
Sulfate (mg/L)	-	-	NA	26.1	22.8	20	18	28	27	25	28	

Note: All values are in ug/l. ug/l is equal to parts-per-billion (ppb).

ES = Enforcement Standard as per NR140.10, September, 1995

PAL = Preventive Action Limit as per NR140.10, September, 1995

X = Not Detected

NA = Not Analyzed

Exceeds NR 140.10 Enforcement Standard
 Exceeds NR 140.10 Preventive Action Limit

Table 4f
 MW 6 Groundwater Analytical Detected Parameters
 Hackbarth Spur Station
 Antigo, Wisconsin

PARAMETER	Date		8/12/96	12/19/96	3/19/97	6/19/97	9/10/97	12/8/97	3/12/98	6/15/98	10/26/98
	ES	PAL									
GRO			X	X	NA	NA	NA		NA	NA	NA
Detected VOC's											
Benzene	5	0.5	0.634	X	X	X	X		X	X	X
Toluene	343	68.6	2.87	X	X	X	X		0.2	X	X
Ethylbenzene	700	140	X	X	X	X	X		X	X	X
Total Xylenes	620	124	1.74	X	X	X	X		X	X	X
MTBE	60	12	X	X	X	X	X		0.5	X	X
1,3,5-Trimethylbenzene	-	-	X	X	X	X	X		X	X	X
1,2,4-Trimethylbenzene	-	-	X	X	X	X	X		X	X	X
1,1 Dichloroethane	850	85	X	NA	NA	NA	NA		NA	NA	NA
Tetrachloroethylene	5	0.5	3.76	NA	NA	NA	NA		NA	NA	NA
Isopropylbenzene	-	-	X	NA	NA	NA	NA		NA	NA	NA
n-Propylbenzene	-	-	X	NA	NA	NA	NA		NA	NA	NA
Isopropyl Ether	-	-	X	NA	NA	NA	NA		NA	NA	NA
n-Butylbenzene	-	-	X	NA	NA	NA	NA		NA	NA	NA
Naphthalene	40	8	X	NA	NA	NA	NA		NA	NA	NA
Dissolved Lead	15	1.5	X	NA	NA	NA	NA		NA	NA	NA
Iron (mg/L)	-	-	NA	0.304	294	110	120		61	53	X
Nitrate-Nitrogen (mg/L)	-	-	NA	2.6	1.39	2.2	1.6		2.9	1.6	0.91
Sulfate (mg/L)	-	-	NA	25.6	26.6	22	29		29	20	24

Note: All values are in ug/l. ug/l is equal to parts-per-billion (ppb).

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PAL = Preventive Action Limit as per NR140.10, September, 1995

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 Exceeds NR 140.10 Preventive Action Limit

Table 4g
 PW 1 Groundwater Analytical Detected Parameters
 Hackbarth Spur Station
 Antigo, Wisconsin

PARAMETER	Date		7/19/96	12/19/96
	ES	PAL		
GRO			NA	X
Detected VOC's				
Benzene	5	0.5	X	X
Toluene	343	68.6	X	X
Ethylbenzene	700	140	X	X
Total Xylenes	620	124	X	X
MTBE	60	12	X	X
1,3,5-Trimethylbenzene	-	-	X	X
1,2,4-Trimethylbenzene	-	-	X	X
1,1 Dichloroethane	850	85	X	1.17
Tetrachloroethylene	5	0.5	X	X
Isopropylbenzene	-	-	X	X
n-Propylbenzene	-	-	X	X
Isopropyl Ether	-	-	X	X
n-Butylbenzene	-	-	X	X
Naphthalene	40	8	X	X
Dissolved Lead	15	1.5	NA	NA
Iron (mg/L)	-	-	NA	2.83
Nitrate-Nitrogen (mg/L)	-	-	NA	X
Sulfate (mg/L)	-	-	NA	1.83

Note: All values are in ug/l. ug/l is equal to parts-per-billion (ppb).
 ES = Enforcement Standard as per NR140.10, September, 1995
 PAL = Preventive Action Limit as per NR140.10, September, 1995
 X = Not Detected
 NA = Not Analyzed

Exceeds NR 140.10 Enforcement Standard
 Exceeds NR 140.10 Preventive Action Limit

Table 4h
 PW 2 Groundwater Analytical Detected Parameters
 Hackbarth Spur Station
 Antigo, Wisconsin

PARAMETER	Date	ES	PAL	7/22/96
GRO				NA
Detected VOC's				
Benzene	5	0.5	1.16	
Toluene	343	68.6	1.43	
Ethylbenzene	700	140	X	
Total Xylenes	620	124	X	
MTBE	60	12	X	
1,3,5-Trimethylbenzene	-	-	X	
1,2,4-Trimethylbenzene	-	-	X	
1,1 Dichloroethane	850	85	X	
Tetrachloroethylene	5	0.5	X	
Isopropylbenzene	-	-	X	
n-Propylbenzene	-	-	X	
Isopropyl Ether	-	-	X	
n-Butylbenzene	-	-	X	
Naphthalene	40	8	X	
Dissolved Lead	15	1.5	NA	

Note: All values are in ug/l. ug/l is equal to parts-per-billion (ppb).

ES = Enforcement Standard as per NR140.10, September, 1995

PAL = Preventive Action Limit as per NR140.10, September, 1995

X = Not Detected

NA = Not Analyzed

Exceeds NR 140.10 Enforcement Standard
 Exceeds NR 140.10 Preventive Action Limit

Table 4i
 PW 3 Groundwater Analytical Detected Parameters
 Hackbarth Spur Station
 Antigo, Wisconsin

PARAMETER	Date	ES	PAL	7/1/96	3/1/97	6/1/97	9/10/97	12/8/97	2/25/98
GRO				NA	NA	NA	NA	NA	NA
Detected VOC's									
Benzene	5	0.5	0.695	0.567	X	X	X	X	0.2
Toluene	343	68.6	X	X	X	X	X	X	0.14
Ethylbenzene	700	140	X	X	X	X	X	X	X
Total Xylenes	620	124	X	X	X	X	X	0.4	X
MTBE	60	12	X	X	X	X	X	X	X
1,3,5-Trimethylbenzene	-	-	X	X	X	X	X	X	X
1,2,4-Trimethylbenzene	-	-	X	X	X	X	X	0.92	X
1,1 Dichloroethane	850	85	2.54	NA	NA	NA	NA	NA	NA
Tetrachloroethylene	5	0.5	X	NA	NA	NA	NA	NA	NA
Isopropylbenzene	-	-	X	NA	NA	NA	NA	NA	NA
n-Propylbenzene	-	-	X	NA	NA	NA	NA	NA	NA
Isopropyl Ether	-	-	X	NA	NA	NA	NA	NA	NA
n-Butylbenzene	-	-	X	NA	NA	NA	NA	NA	NA
Naphthalene	40	8	X	NA	NA	NA	NA	NA	NA
Dissolved Lead	15	1.5	NA	NA	NA	NA	NA	NA	NA
Iron (mg/L)	-	-	NA	27.2	28	10	19	NA	NA
Nitrate-Nitrogen (mg/L)	-	-	NA	X	0.02	X	0.02	NA	NA
Sulfate (mg/L)	-	-	NA	X	X	X	X	X	NA

Note: All values are in ug/l. ug/l is equal to parts-per-billion (ppb).
 ES = Enforcement Standard as per NR140.10, September, 1995
 PAL = Preventive Action Limit as per NR140.10, September, 1995
 X = Not Detected
 NA = Not Analyzed
 Exceeds NR 140.10 Enforcement Standard
 Exceeds NR 140.10 Preventive Action Limit

Table 4j
 PW 4 Groundwater Analytical Detected Parameters
 Hackbarth Spur Station
 Antigo, Wisconsin

PARAMETER	ES	PAL	Date
GRO			7/19/96
Detected VOC's			NA
Benzene	5	0.5	X
Toluene	343	68.6	X
Ethylbenzene	700	140	X
Total Xylenes	620	124	X
MTBE	60	12	X
1,3,5-Trimethylbenzene	-	-	X
1,2,4-Trimethylbenzene	-	-	X
1,1 Dichloroethane	850	85	X
Tetrachloroethylene	5	0.5	X
Isopropylbenzene	-	-	X
n-Propylbenzene	-	-	X
Isopropyl Ether	-	-	X
n-Butylbenzene	-	-	X
Naphthalene	40	8	X
Dissolved Lead	15	1.5	NA

Note: All values are in ug/l. ug/l is equal to parts-per-billion (ppb).

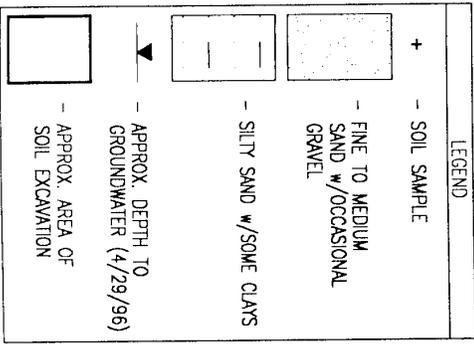
ES = Enforcement Standard as per NR140.10, September, 1995

PAL = Preventive Action Limit as per NR140.10, September, 1995

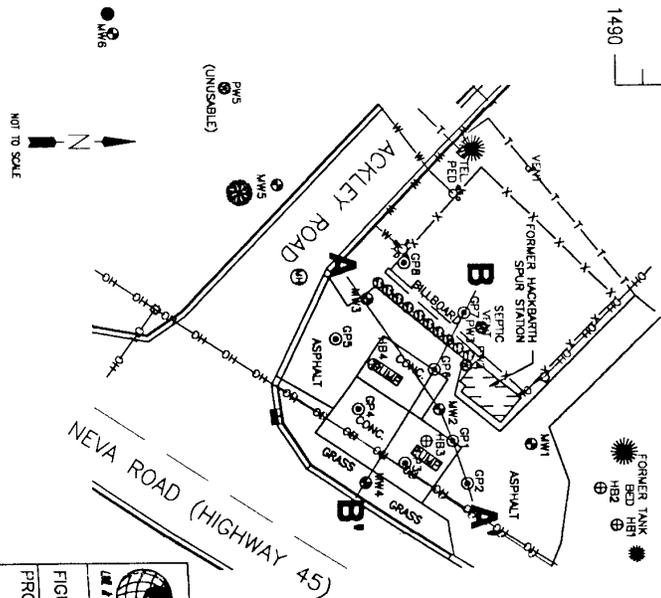
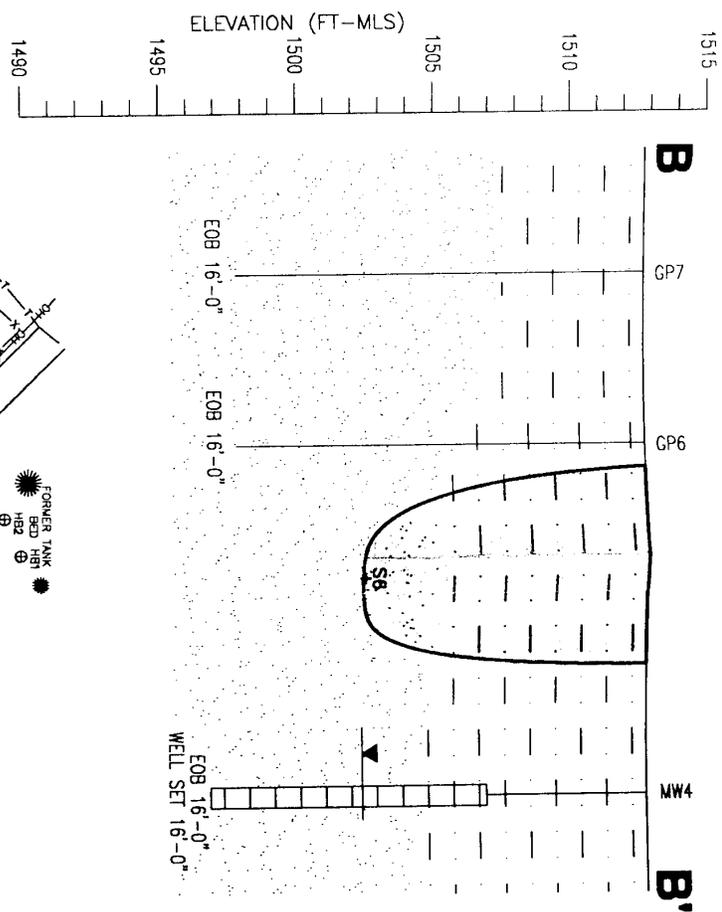
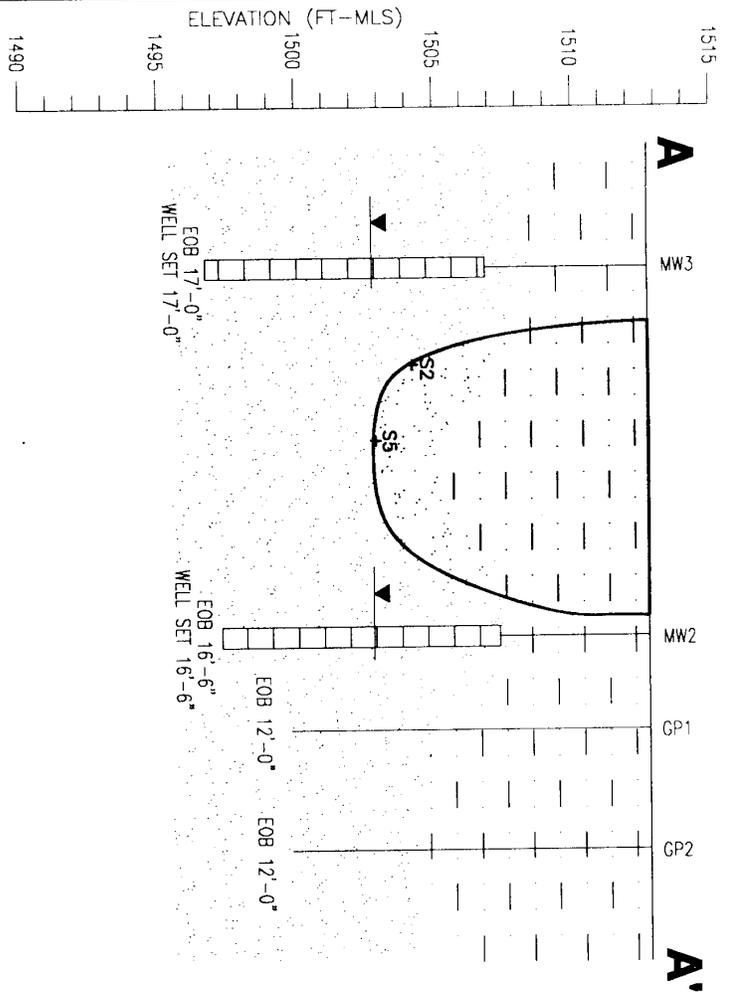
X = Not Detected

NA = Not Analyzed

	Exceeds NR 140.10 Enforcement Standard
	Exceeds NR 140.10 Preventive Action Limit



HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 5'



	HACKBARTH 2008 N ANTIGO,
	POST-REMEDIATION C DIAGRAMS A - A', B
PROJECT No. 0528	DRAWN BY: T.A.W.