

TO: Eric Sandin, GEF II, Geo/8

### Groundwater Use Registry Buckslip

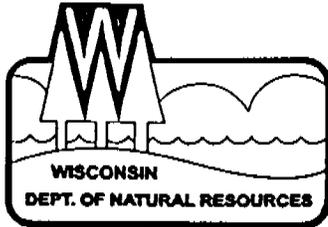
Site Name JAK Schaefer Property  
Address 100 East PIONEER Street  
CRANDON, WI  
BRRTS # 03-21-000267  
GPS Location: \_\_\_\_\_ latitude \_\_\_\_\_ longitude \_\_\_\_\_  
Date of Closure Decision 05/03/00

#### Required

- Closure Letter
- Deeds for all properties with ES exceedance in Groundwater (RECORDED G.W.U.R.)
- 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 *ON DEED # 30.320000.001.001 and #30.320000.001.002*
- 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

December 2, 1999

Mr. Jak Schaefer  
PO Box 305  
Crandon, WI 54520

Subject: Jak Schaefer Property, 100 E Pioneer St, Crandon, WI BRRTS # 03-21-000267

Dear Mr. Schaefer::

The Department of Natural Resources provided a notice to you that the degree and extent of gasoline and waste oil contamination at the above-named site was required to be investigated and remediated. We have since been informed that the required investigation and remediation has been accomplished.

On November 30, 1999, the above-named site was reviewed by the Northern Region Closeout Committee for a determination as to whether or not the case qualified for close out under ch. NR 726, Wis. Adm. Code.

Based on the investigative and remedial documentation provided to the Department, it appears that the gasoline and waste oil contamination at the above-named site has been remediated to the extent practicable under current site conditions, and that no further action is necessary at this time. Therefore, the Department will consider the case "closed," pursuant to NR 726.05(8)(am), if the responsible party sign and record a Groundwater Use Restriction for the property.

Enclosed is an example of a Groundwater Use Restriction. Please draft a specific Groundwater Use Restriction for this site and submit the draft to me. Department of Natural Resources attorneys will review the draft and return it to you with revisions. After you have made the revisions, you should sign and record the restriction with the County Register of Deeds. To document that this condition has been complied with, the responsible party must submit to the Department a copy of the recorded Groundwater Use Restriction, with the recording information stamped on it, within 15 days after the Register of Deeds returns the Groundwater Use Restriction to the responsible party. The Groundwater Use Restriction may be amended in the future with the approval of DNR if conditions change at the site and the residual contamination is remediated.

The groundwater use restriction is an option that the Department can offer to you in order to close this site. If you choose not to accept this option, you may perform additional investigation and cleanup of the remaining contamination. Note that this additional work may not be eligible for reimbursement through the Petroleum Environmental Cleanup Fund Award (PECFA) Program. You should contact the Department of Commerce to determine eligibility of the additional work for reimbursement.

Please note that this case closure is contingent upon proper documentation of proper abandonment of the monitoring wells on site. If monitoring wells remain at this site, please provide the documentation that this action has been completed, or have your consultant do so. Please complete Form 3300-5B and send it to my



Quality Natural Resources Management  
Through Excellent Customer Service



attention at the above address.

If you have any additional information which was not formerly provided to the Department, and which you feel would significantly impact this closure decision, you may submit that information for our re-evaluation of case closure.

If you have any questions, please call me at 715-365-8990.

Sincerely,  
NORTHERN REGION



Janet Kazda  
Case Closeout Committee

→ cc: File  
Lori Huntoon, Dept of Commerce  
Steve Karklins, DG/2  
Chuck Fitzgerald, Rhinelander  
Chuck Weister, Rhinelander

Luke Cieslewicz  
Northern Environmental  
954 Circle Dr  
Green Bay, WI 54304



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.

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 one or more of the restrictions set forth in this covenant is 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, or portions of this groundwater use restriction, is no longer binding.

IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 29th day of March, 2000.

Signature: [Handwritten Signature]  
Printed Name: John B. Schaefer III  
John J. Schaefer, Jr.

Title: Owner Vc Pres / Secretary  
J. Schaefer Ent. Inc.

Subscribed and sworn to before me  
this 29th day of March, 2000.

[Handwritten Signature]  
Notary Public, State of Wisconsin

My commission 11-11-2001

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

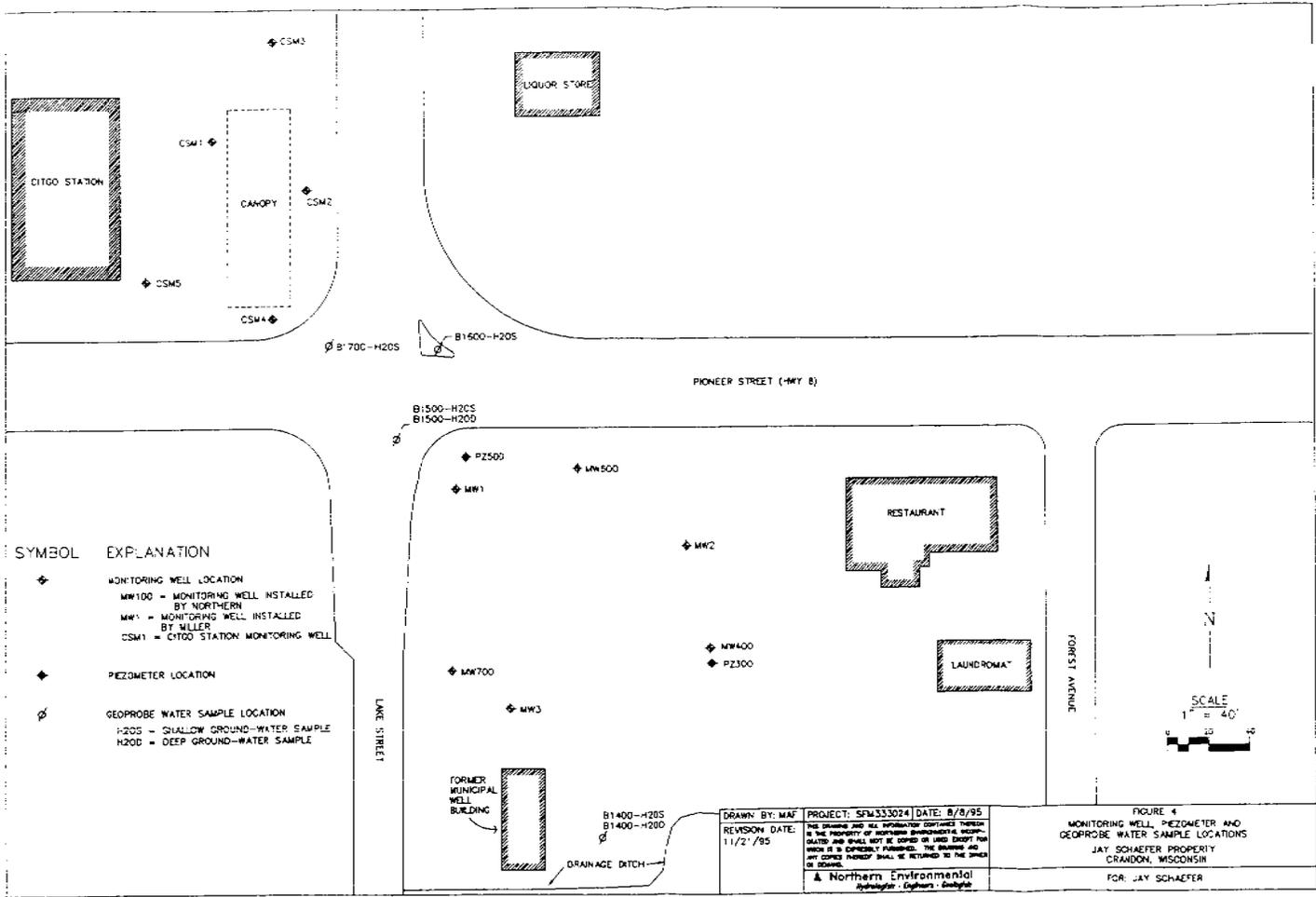
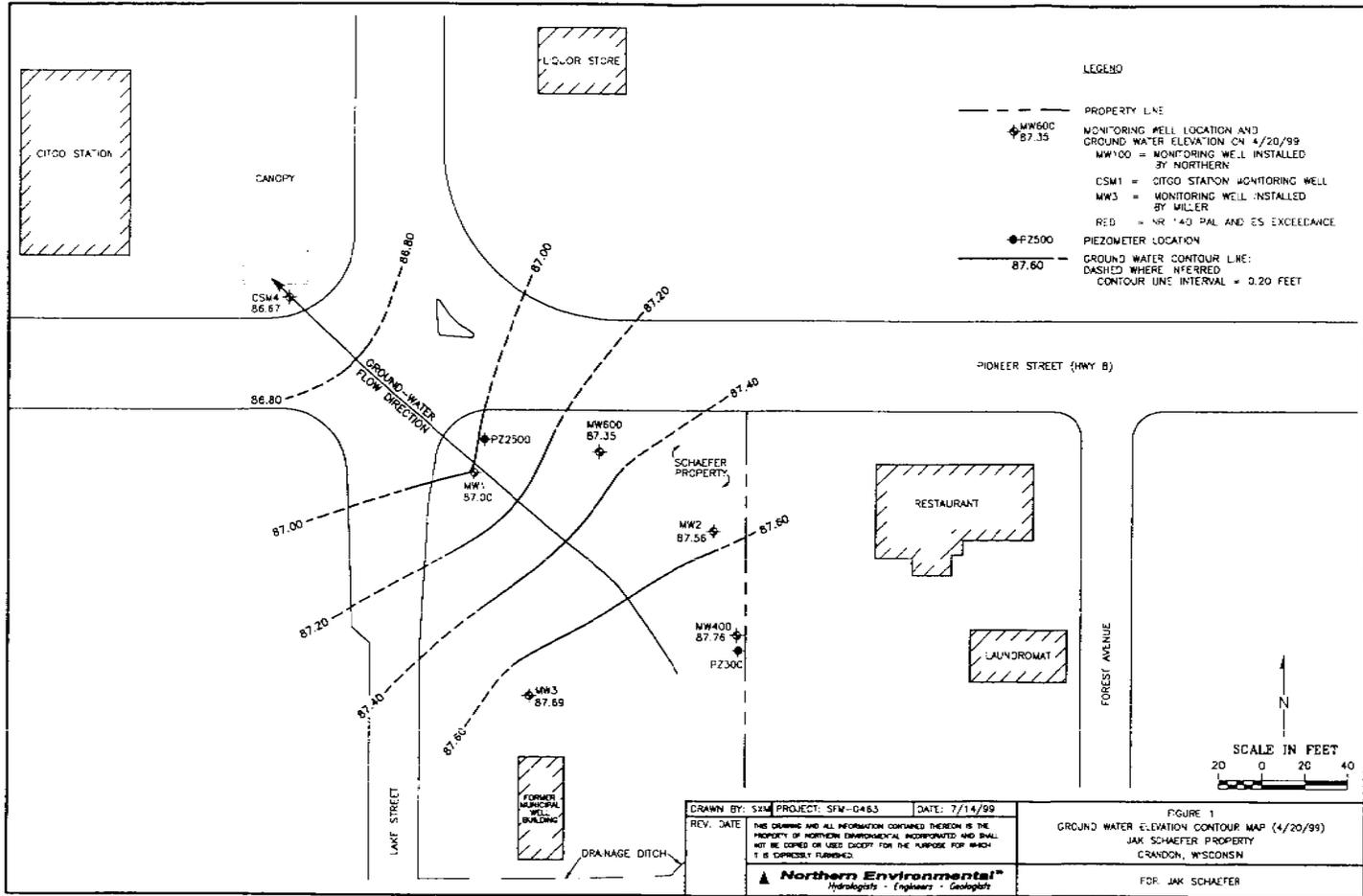
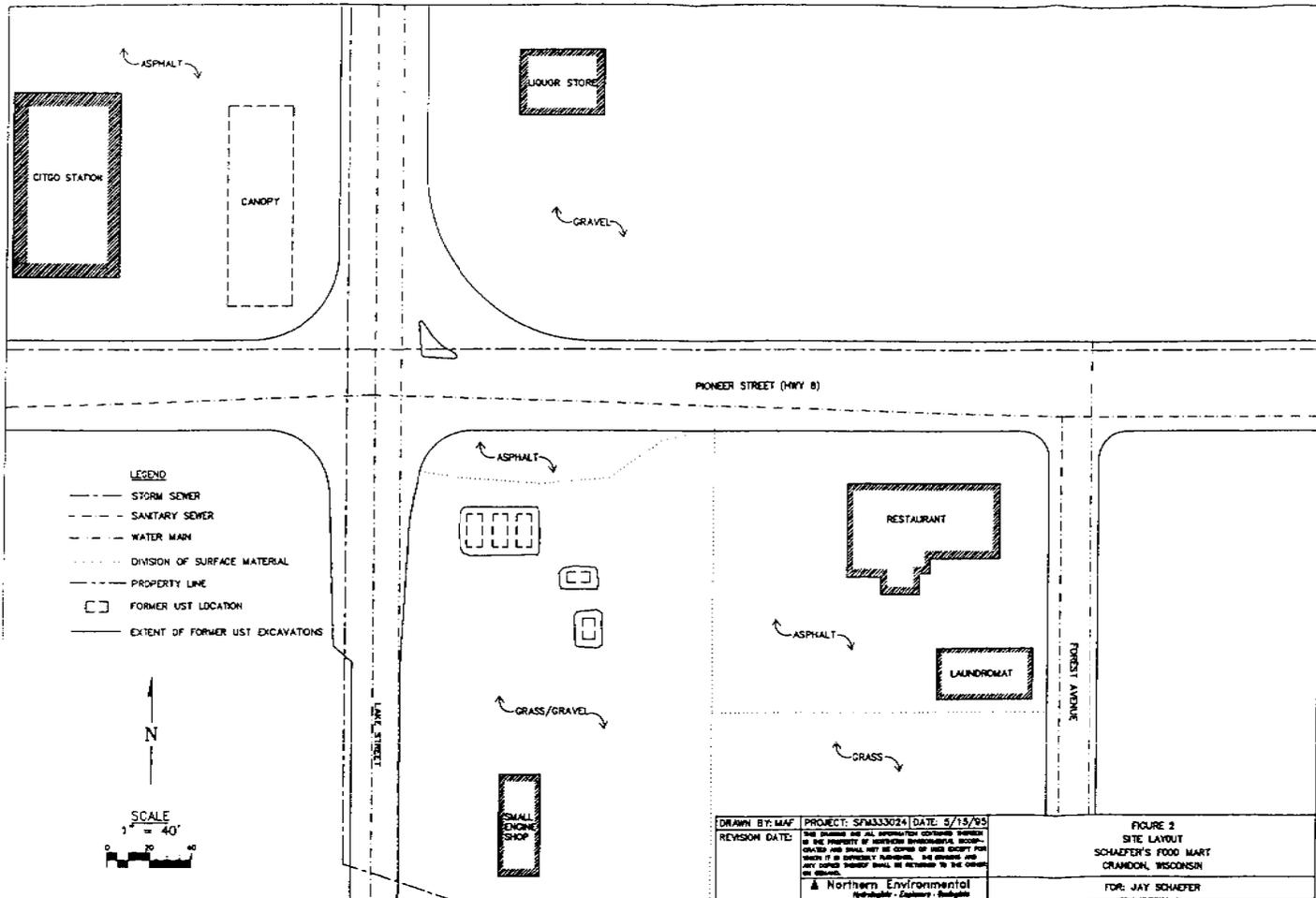


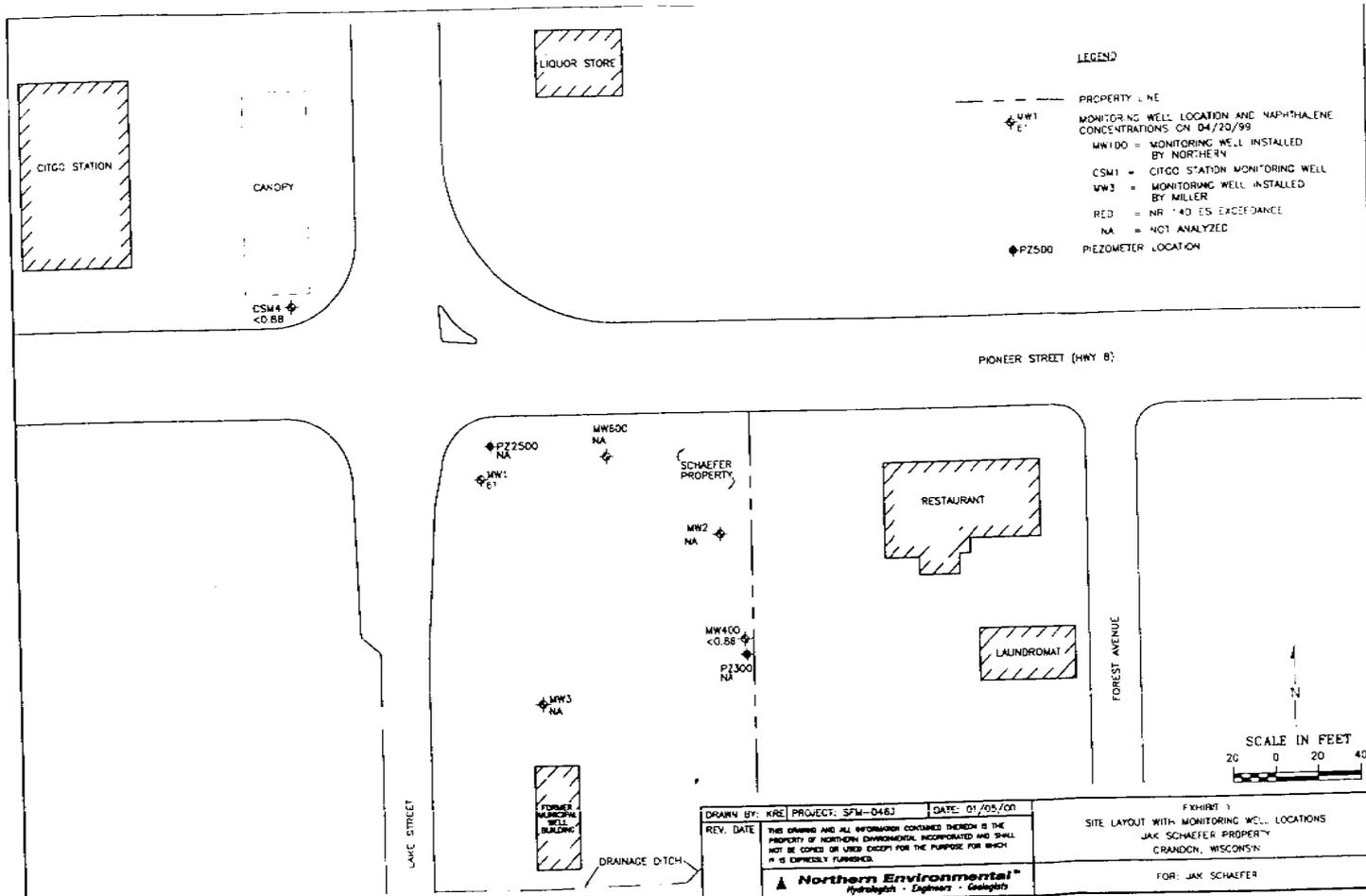
Table 1. Ground Water Analytical Results for Schaefer Property, Crandon, Wisconsin

Well ID	Date Sampled	Relevant and Significant Analytical Results (µg/l)																								
		WAC PAL	WAC ES	WAC NE																						
CSM4	05/11/04	ND	ND	ND	20	NC																				
	07/23/05	14	37	5	20	NC																				
	02/13/07	ND	ND	ND	11	NC																				
	06/11/07	ND	ND	ND	8.7	NC																				
	08/15/07	ND	ND	ND	20	NC																				
	01/18/08	ND	ND	ND	5.2	NC																				
	10/09/08	ND	ND	ND	0.48	NC																				
	07/15/09	ND	ND	ND	0.48	NC																				
	04/20/09	ND	ND	ND	0.48	NC																				
	01/17/07	NA	NA	24	470	NC																				
05/28/07	NA	NA	25	210	NC																					
08/28/07	NA	NA	6.8	NC																						
09/03/07	5200	NA	NC																							
01/22/08	2.1	5.5	NC																							
02/12/07	ND	ND	49	NC																						
08/11/07	ND	ND	43	NC																						
08/15/07	ND	ND	NC																							
01/19/08	ND	ND	< 11	NC																						
10/09/08	ND	ND	< 0.32	NC																						
01/15/09	ND	ND	< 0.32	NC																						
04/20/09	ND	ND	< 3.2	NC																						
MW2	01/17/07	NA	NA	32	NC																					
	05/28/07	ND	ND	34	NC																					
	08/28/07	NA	NA	NC																						
	03/02/08	110	310	NC																						
	01/22/08	17	72	NC																						
MW3	01/17/07	NA	NA	17	NC																					
	05/28/07	ND	ND	NC																						
	08/28/07	NA	NA	NC																						
	03/02/08	170	20	NC																						
	01/22/08	32	ND	NC																						
MW400	02/28/04	120	< 20	15	NC																					
	01/23/05	50	ND	ND	NC																					
	06/11/07	ND	ND	NC																						
	08/15/07	ND	ND	NC																						
	01/18/08	ND	ND	NC																						
MW900	03/02/08	300	10	15	NC																					
	01/23/05	13	32	NC																						
	01/23/05	ND	ND	NC																						
	02/25/04	NA	AD	27	NC																					
	01/23/05	390	ND	NC																						
R2500	03/02/08	120	< 20	15	NC																					
	01/23/05	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC		

- GRD = Gasoline Range Organics
- DRD = Diesel Range Organics
- MTBE = Methyl Tertiary Butyl Ether
- IGT = Inorganic Gasoline
- WAC = Wisconsin Administrative Code
- PAU = Preventive Action Limit
- ES = Enforcement Standard
- NE = Not Established by A/C
- NC = Not Analyzed
- NA = Not Analyzed
- AD = Analyzed but not detected
- WAC PAU = Wisconsin Administrative Code Preventive Action Limit Exceeded
- WAC ES = Wisconsin Administrative Code Enforcement Standard Exceeded
- 12 = Analyze between the Limit of Detection and Limit of Quantitation
- 17 = Analyze between the Limit of Detection and the Limit of Quantitation







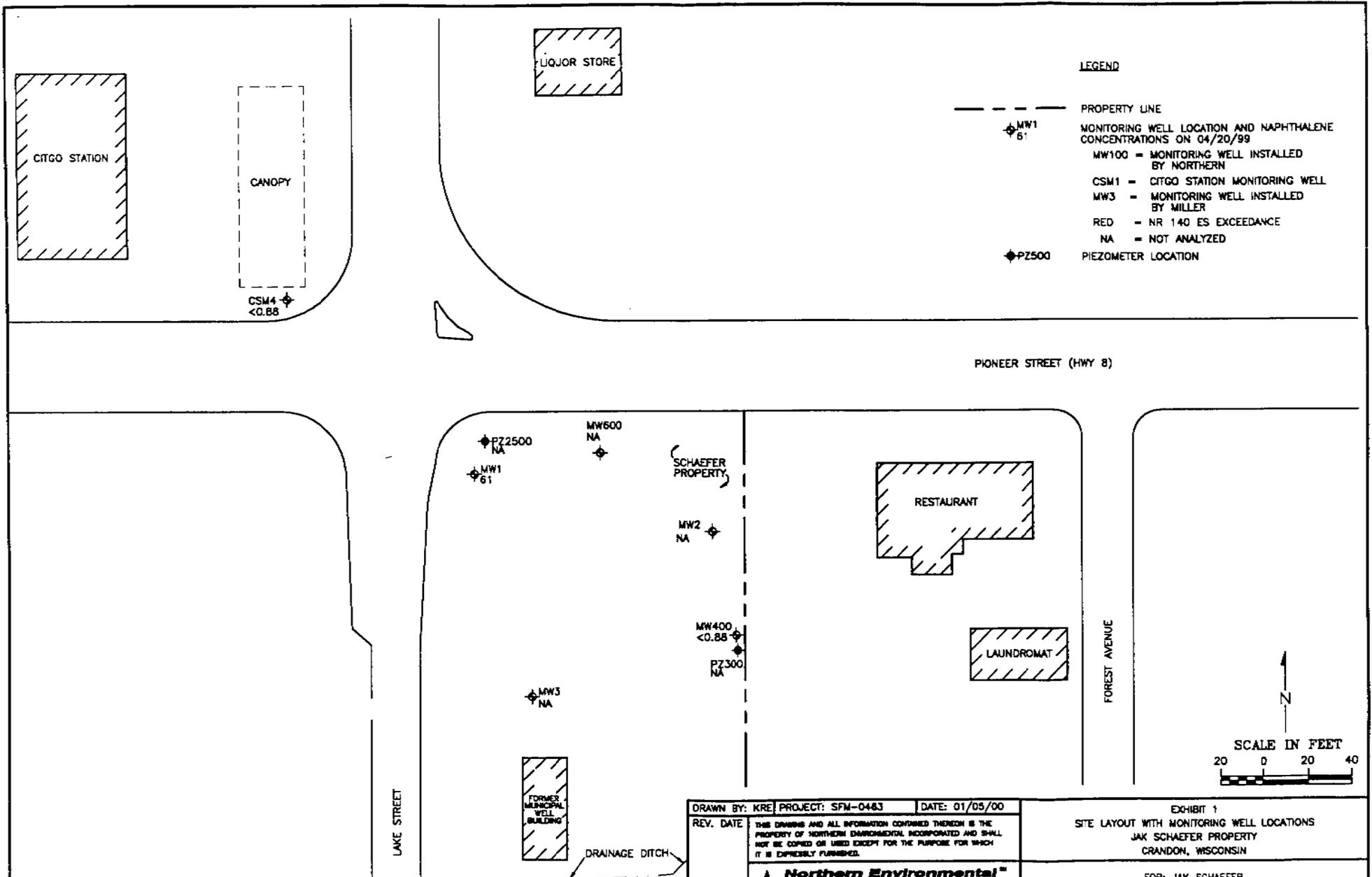
DRAWN BY: KRE	PROJECT: SFM-0463	DATE: 01/05/01
REV. DATE		

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 PROVIDED.

FIGURE 1  
 SITE LAYOUT WITH MONITORING WELL LOCATIONS  
 JAK SCHAEFER PROPERTY  
 GRANDCH, WISCONSIN

**Northern Environmental™**  
 Hydrologists • Engineers • Geologists

FOR: JAK SCHAEFER



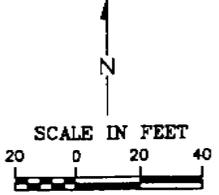
**LEGEND**

- PROPERTY LINE
- ◆ MW1  
61 MONITORING WELL LOCATION AND NAPHTHALENE CONCENTRATIONS ON 04/20/99
- MW100 = MONITORING WELL INSTALLED BY NORTHERN
- CSM1 = CITGO STATION MONITORING WELL
- MW3 = MONITORING WELL INSTALLED BY MILLER
- RED = NR 140 ES EXCEEDANCE
- NA = NOT ANALYZED
- ◆ PZ2500 PIEZOMETER LOCATION

PIONEER STREET (HWY 8)

FOREST AVENUE

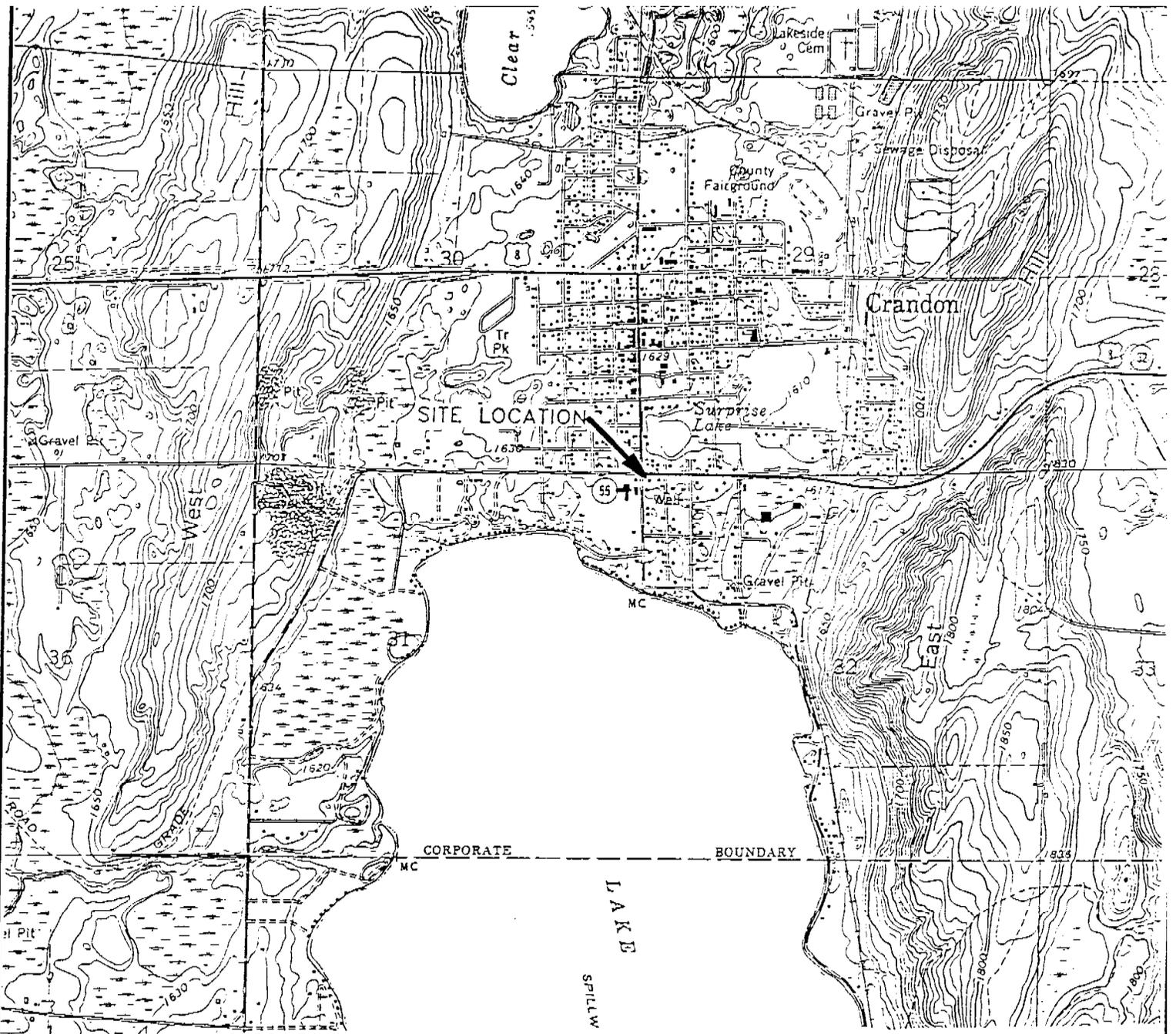
LAKE STREET



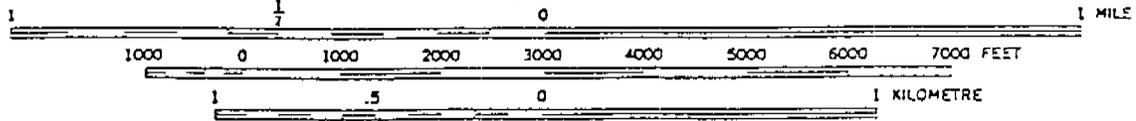
DRAWN BY: KRE	PROJECT: SFM-0463	DATE: 01/05/00
REV. DATE	THIS DRAWING AND ALL INFORMATION CONTAINED THEREIN IS THE PROPERTY OF NORTHERN ENVIRONMENTAL INCORPORATED AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED.	

EXHIBIT 1  
 SITE LAYOUT WITH MONITORING WELL LOCATIONS  
 JAK SCHAEFER PROPERTY  
 CRANDON, WISCONSIN

ENG. JAK SCHAEFER



SCALE 1:24 000



CONTOUR INTERVAL 10 FEET  
NATIONAL GEODETTIC VERTICAL DATUM OF 1929



BASE MAP SOURCE: USGS CRANDON, WISCONSIN 7.5 MINUTE QUADRANGLE

DRAWN BY: CAS PROJECT: SFM33024 DATE: 12/22/93

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. THE DRAWING AND ANY COPIES THEREOF SHALL BE RETURNED TO THE OWNER ON DEMAND

▲ Northern Environmental  
Hydrologists • Engineers • Geologists

SCHAEFER SITE  
CRANDON, WISCONSIN

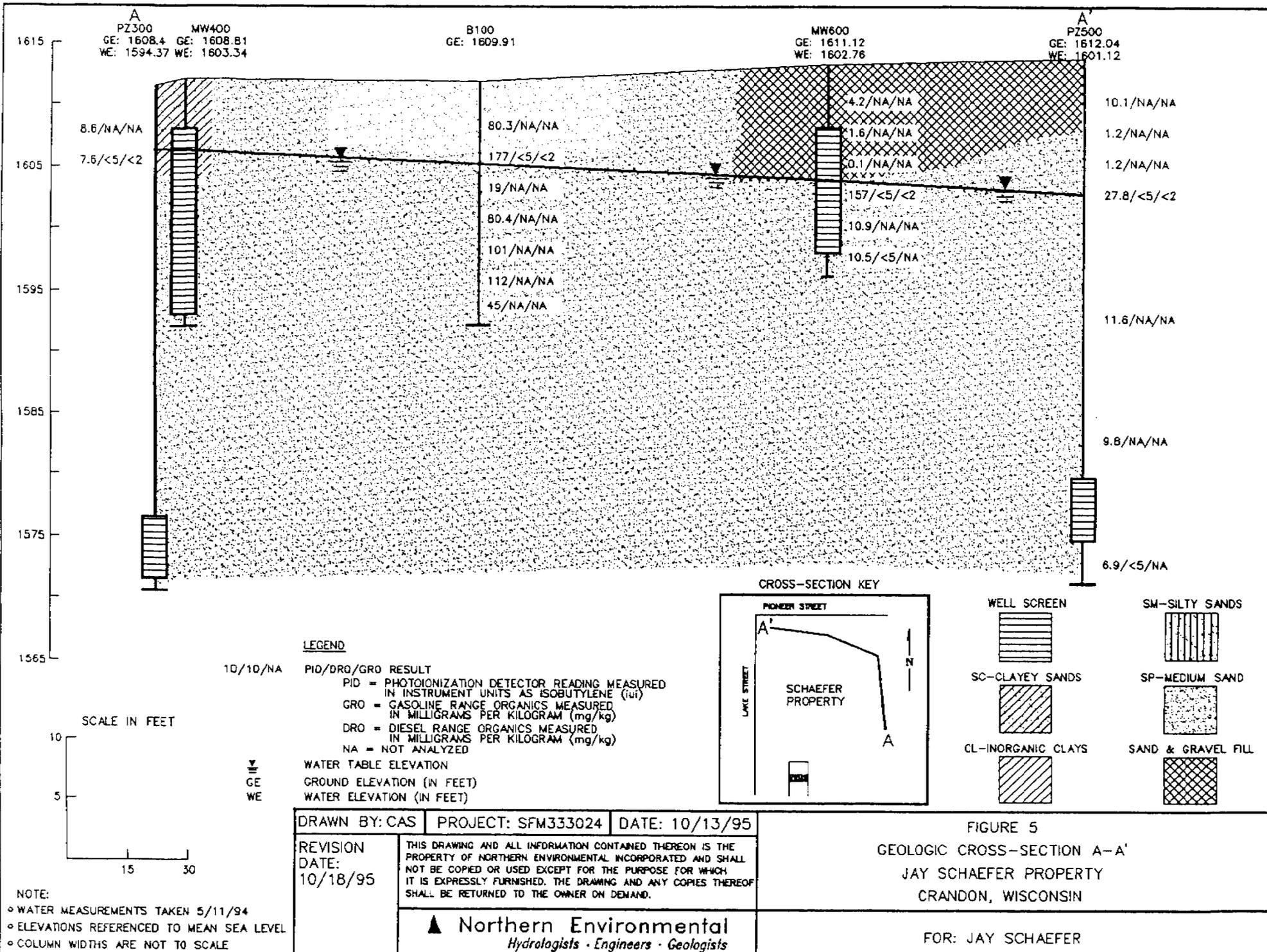
FIGURE 1  
SITE LOCATION AND LOCAL TOPOGRAPHY

Table 2 Inorganic Ground-Water Quality Data, Jak Schaefer Property, Crandon, Wisconsin

Well Number	Sample Date	Temperature (° F)	pH (su)	Conductivity (µmho/cm)	O.R.P. (mV)	D.O. (mg/l)	Nitrate (mg/l)	Manganese (mg/l)	Iron (mg/l)	Sulfate (mg/l)
CSM4	06/11/97	57.0	7.4	>1990	140	2.27	0.00	>0.70	0.0	50
	09/15/97	61.0	6.9	>1990	-30	1.60	0.00	>0.70	0.0	55
	12/16/97	48.0	7.2	>1990	205	2.34	0.00	0.1	0.0	<50
	02/25/98	---	---	---	---	3.19	---	---	---	---
	10/09/98	60.3	6.8	>1990	10	0.71	0.00	>0.70	0.50	<50
	01/15/99	46.0	6.64	3280	150	1.91	0.00	>0.70	0	<50
	04/20/99	46.2	6.45	2580	155	4.23	0.00	>0.70	4.2	<50
MW1	06/11/97	57.4	7.5	280	<-80	0.68	0.00	>0.70	3.0	<50
	09/15/97	57.0	7.2	230	<-80	0.35	0.00	.70	3.0	<50
	12/16/97	48.2	7.0	760	-60	0.81	0.00	>0.70	3.0	<50
	02/25/98	---	---	---	---	0.26	---	---	---	---
	10/09/98	58.8	7.1	640	<-80	0.36	0.00	0.65	3.5	<50
	01/15/99	48.0	6.81	640	<-80	0.54	0.00	0.68	3.9	<50
	04/20/99	46.0	6.65	560	<-80	0.31	0.00	>0.70	5.0	<50
MW400	06/11/97	58.4	8.3	700	55	0.99	.004	0	0.0	<50
	09/15/97	57.3	7.4	140	165	0.45	0.00	.05	0.0	<50
	12/16/97	43.8	7.6	>1990	175	1.08	0.44	0.45	0.0	<50
	02/25/98	---	---	---	---	5.79	---	---	---	---
	10/09/98	59.1	7.4	460	180	3.45	0.00	>0.70	0.0	<50
	01/15/99	51.1	8.2	980	190	4.79	0.00	>0.70	0.0	<50
	04/20/99	47.3	7.21	1300	110	2.40	0.02	0.20	0.0	<50

Key:

- D.O. = dissolved oxygen
- O.R.P. = oxygen-reduction potential
- mg/l = milligrams per liter
- mV = millivolts
- su = standard units
- µMho/cm = microMhos per centimeter
- = not analyzed



A  
 PZ300 MW400  
 GE: 1608.4 GE: 1608.81  
 WE: 1594.37 WE: 1603.34

B100  
 GE: 1609.91

MW600  
 GE: 1611.12  
 WE: 1602.76

A'  
 PZ500  
 GE: 1612.04  
 WE: 1601.12

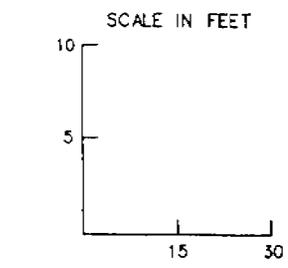
8.6/NA/NA  
 7.6/<5/<2

80.3/NA/NA  
 177/<5/<2  
 19/NA/NA  
 80.4/NA/NA  
 101/NA/NA  
 112/NA/NA  
 45/NA/NA

4.2/NA/NA  
 1.6/NA/NA  
 0.1/NA/NA  
 157/<5/<2  
 10.9/NA/NA  
 10.5/<5/NA

10.1/NA/NA  
 1.2/NA/NA  
 1.2/NA/NA  
 27.8/<5/<2  
 11.6/NA/NA  
 9.8/NA/NA  
 6.9/<5/NA

1565



NOTE:  
 ◊ WATER MEASUREMENTS TAKEN 5/11/94  
 ◊ ELEVATIONS REFERENCED TO MEAN SEA LEVEL  
 ◊ COLUMN WIDTHS ARE NOT TO SCALE

DRAWN BY: CAS PROJECT: SFM333024 DATE: 10/13/95

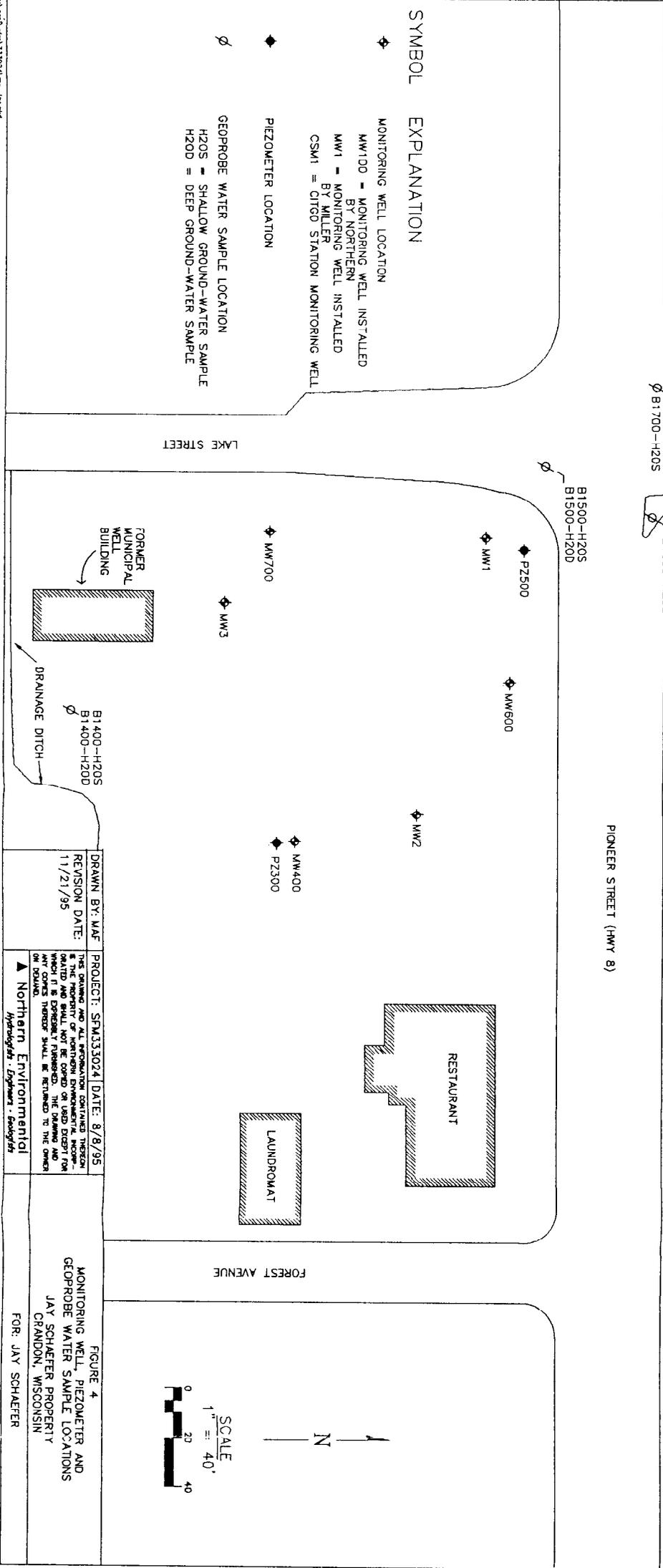
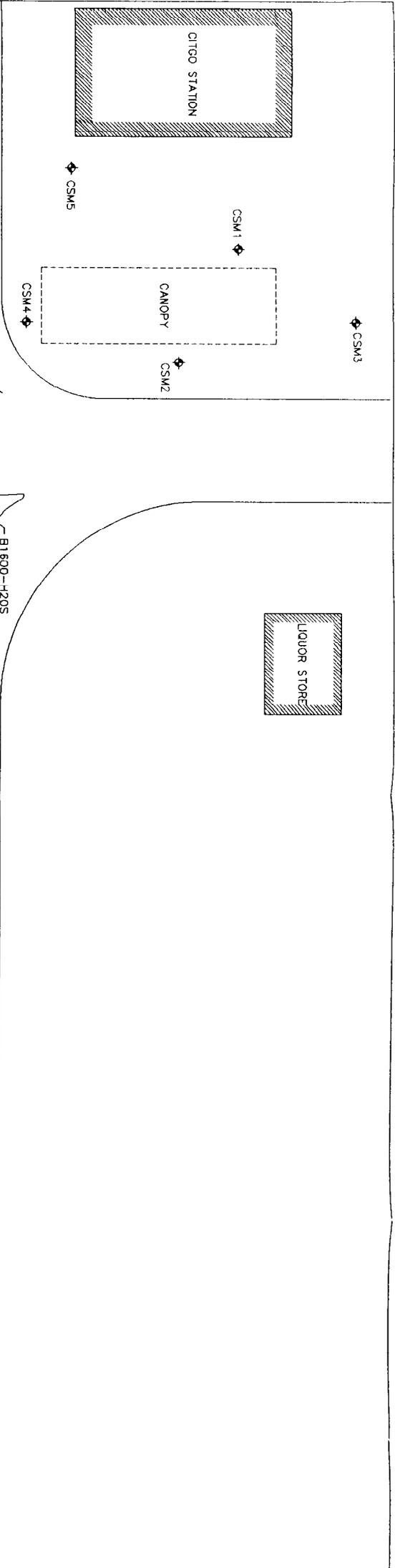
REVISION DATE: 10/18/95

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. THE DRAWING AND ANY COPIES THEREOF SHALL BE RETURNED TO THE OWNER ON DEMAND.

▲ Northern Environmental  
 Hydrologists • Engineers • Geologists

FIGURE 5  
 GEOLOGIC CROSS-SECTION A-A'  
 JAY SCHAEFER PROPERTY  
 CRANDON, WISCONSIN

FOR: JAY SCHAEFER



**SYMBOL EXPLANATION**

- ◆ MONITORING WELL LOCATION
- MW100 = MONITORING WELL INSTALLED BY NORTHERN
- MW1 = MONITORING WELL INSTALLED BY MILLER
- CSM1 = CITCO STATION MONITORING WELL
- ◆ PIEZOMETER LOCATION
- ∅ GEOPROBE WATER SAMPLE LOCATION
- H20S = SHALLOW GROUND-WATER SAMPLE
- H20D = DEEP GROUND-WATER SAMPLE

PIONEER STREET (HWY 8)

LAKE STREET

FOREST AVENUE

B1500-H20S  
B1500-H20D

∅ B1700-H20S

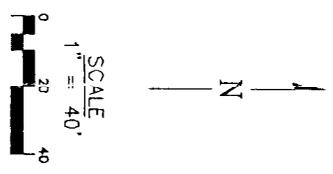
∅ B1600-H20S

B1400-H20S  
B1400-H20D

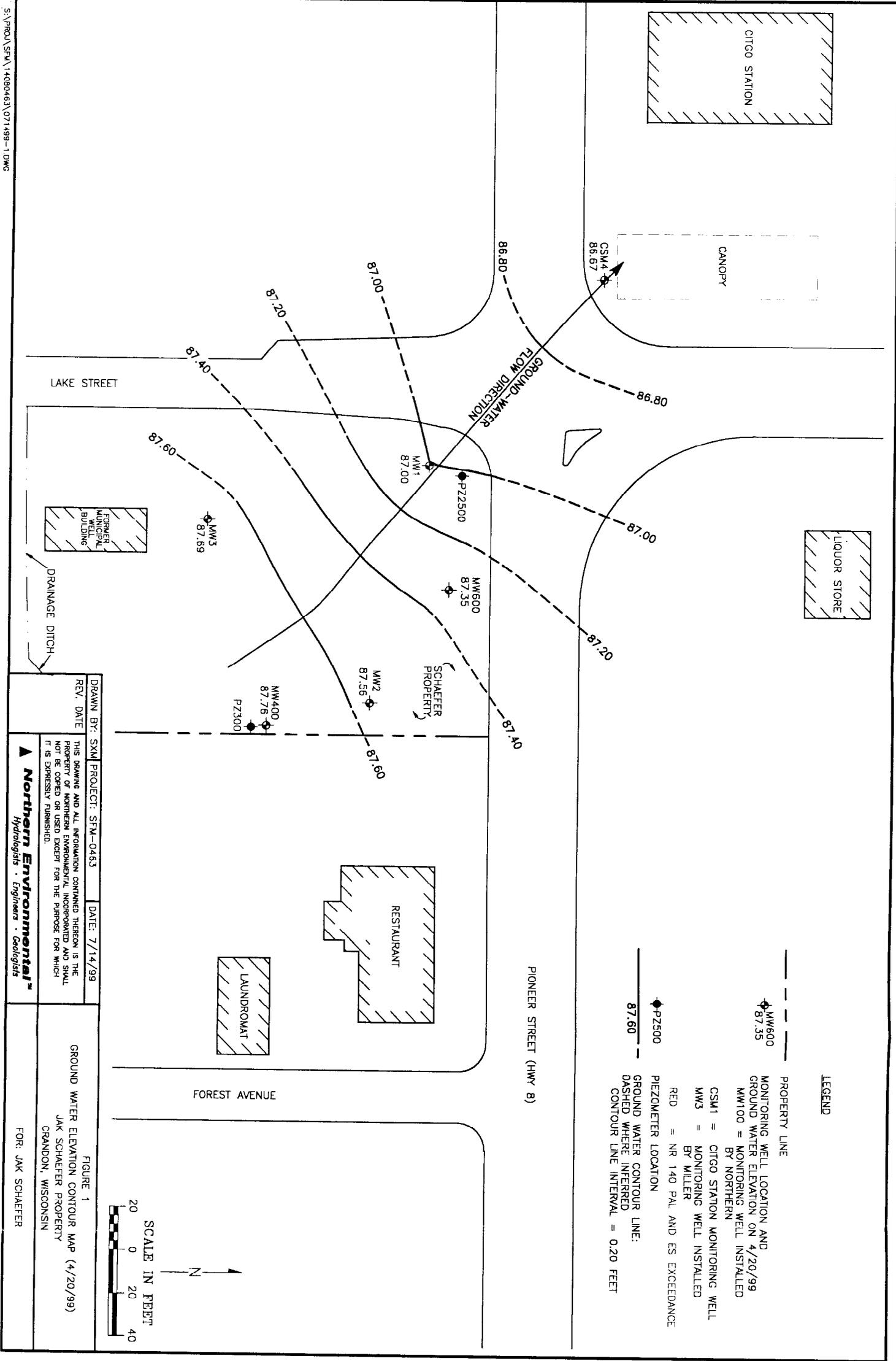
DRAWN BY: MAF  
REVISION DATE:  
11/21/95

PROJECT: SPM333024 DATE: 8/8/95  
THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS THE PROPERTY OF NORTHERN ENVIRONMENTAL AND HYDROLOGICAL CONSULTANTS, INC. NO PART OF THIS DRAWING OR ANY INFORMATION THEREON SHALL BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF NORTHERN ENVIRONMENTAL AND HYDROLOGICAL CONSULTANTS, INC.

FIGURE 4  
MONITORING WELL, PIEZOMETER AND  
GEOPROBE WATER SAMPLE LOCATIONS  
JAY SCHAEFER PROPERTY  
CRANDON, WISCONSIN  
FOR: JAY SCHAEFER

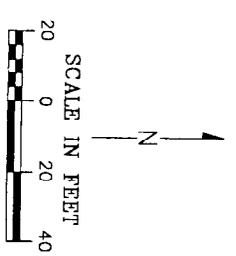






**LEGEND**

- PROPERTY LINE
- ◆ MW600  
87.35 MONITORING WELL LOCATION AND GROUND WATER ELEVATION ON 4/20/99
- ◆ MW100 = MONITORING WELL INSTALLED BY NORTHERN
- CSM1 = CITGO STATION MONITORING WELL
- MW3 = MONITORING WELL INSTALLED BY MILLER
- RED = NR 140 PAL AND ES EXCEEDANCE
- ◆ PZ500 PIEZOMETER LOCATION
- 87.60 --- GROUND WATER CONTOUR LINE: DASHED WHERE INFERRED
- CONTOUR LINE INTERVAL = 0.20 FEET



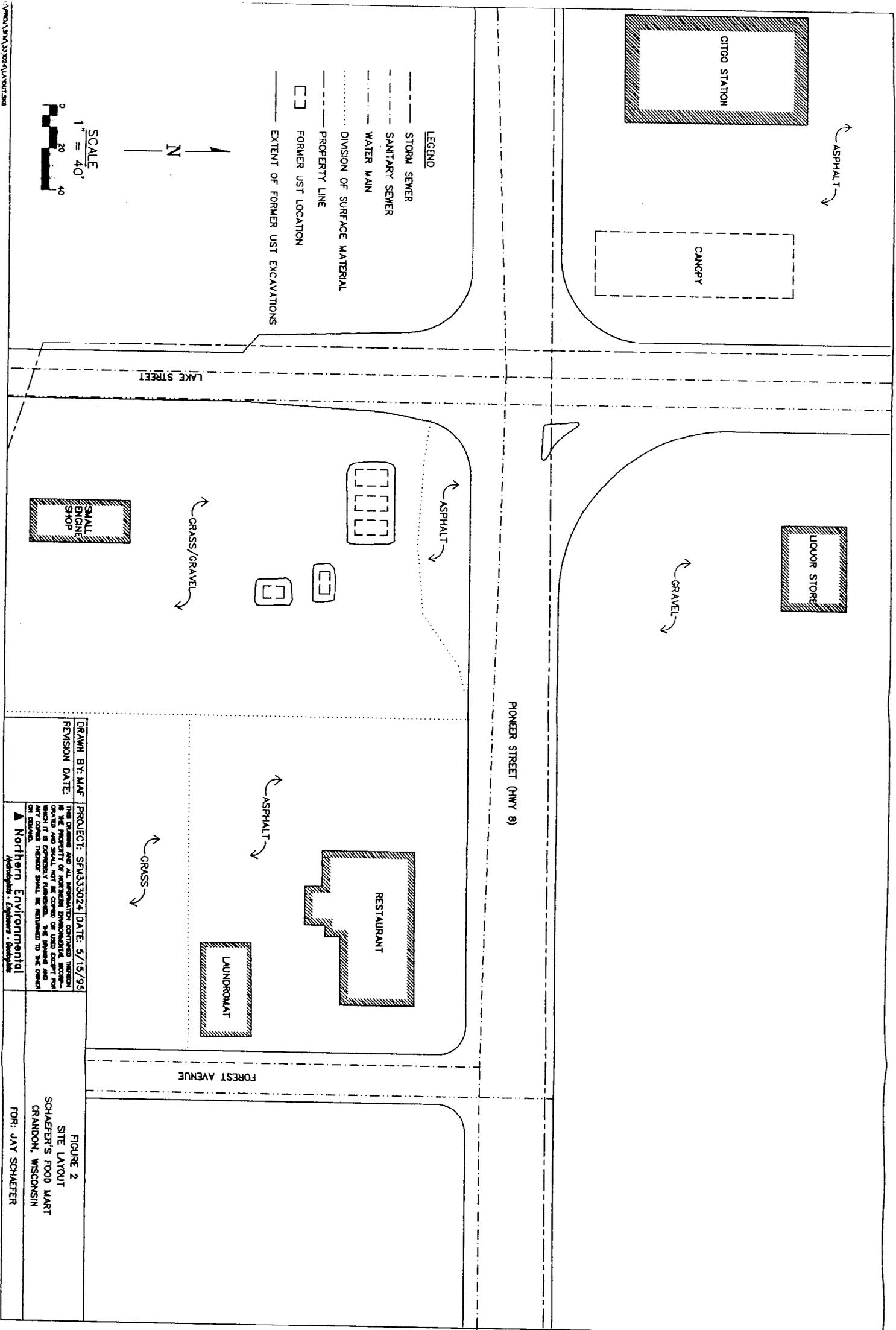
DRAWN BY: SXM PROJECT: SFM-0483 DATE: 7/14/99

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.

**Northern Environmental™**  
 Hydrologists • Engineers • Geologists

FIGURE 1  
 GROUND WATER ELEVATION CONTOUR MAP (4/20/99)  
 JAK SCHAEFFER PROPERTY  
 CRANDON, WISCONSIN

FOR: JAK SCHAEFFER



ASPHALT

CITGO STATION

CANOPY

LIQUOR STORE

GRAVEL

PIONEER STREET (HWY 8)

RESTAURANT

LAUNDROMAT

ASPHALT

GRASS

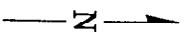
GRASS/GRAVEL

ASPHALT

LAKE STREET

SMALL ENGINE SHOP

- LEGEND**
- STORM SEWER
  - SANITARY SEWER
  - WATER MAIN
  - ..... DIVISION OF SURFACE MATERIAL
  - - - - - PROPERTY LINE
  - FORMER UST LOCATION
  - EXTENT OF FORMER UST EXCAVATIONS



SCALE  
1" = 40'

DRAWN BY: MAC  
REVISION DATE: PROJECT: SFM333024 DATE: 5/15/93

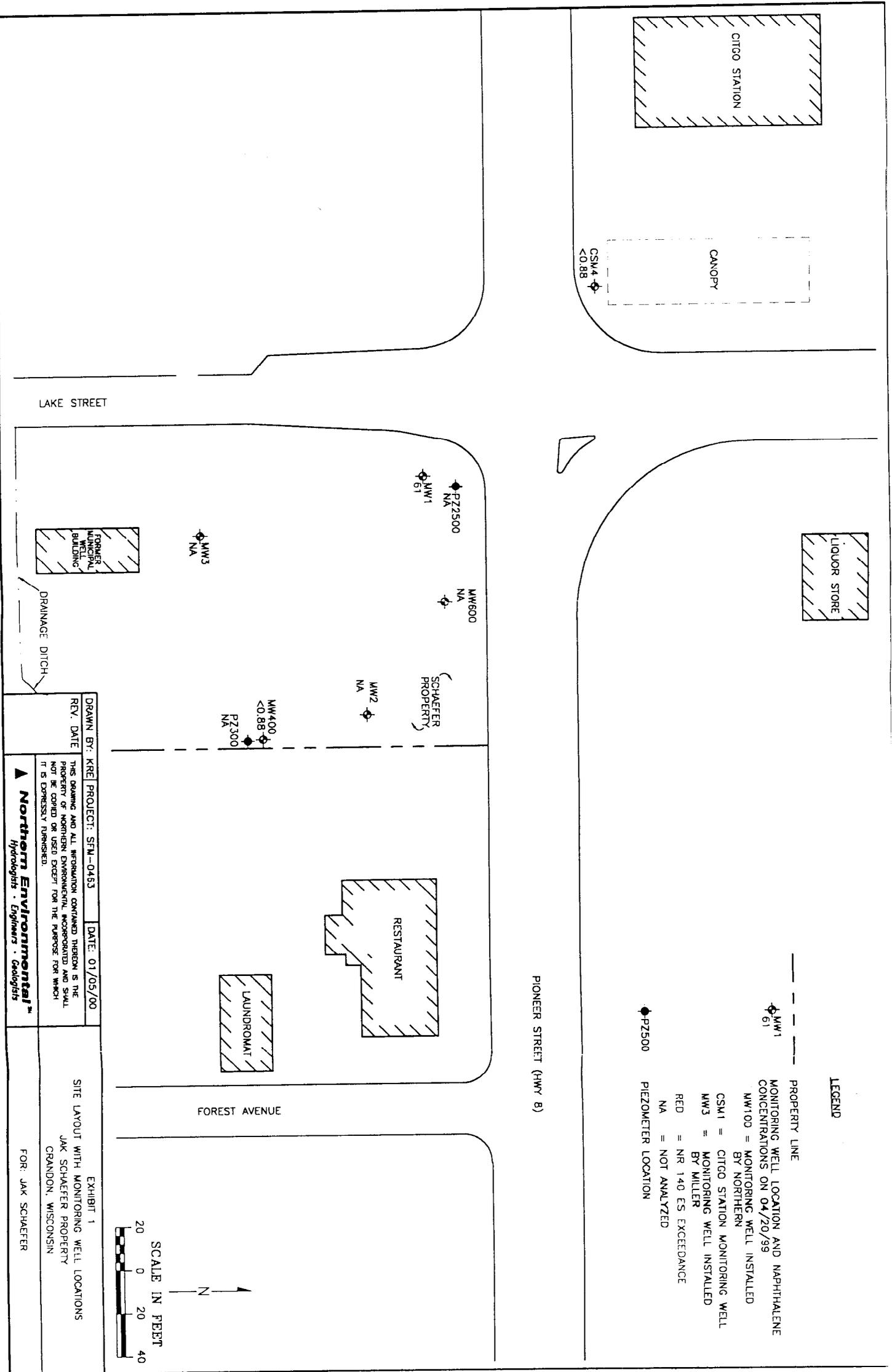
THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF NORTHERN ENVIRONMENTAL SERVICES, INC. IT IS LOANED TO YOU BY NORTHERN ENVIRONMENTAL SERVICES, INC. ANY COPIES THEREOF SHALL BE RETURNED TO THE OWNER ON DEMAND.

**Northern Environmental**  
Hydrologists • Engineers • Geologists

FIGURE 2  
SITE LAYOUT  
SCHAEFER'S FOOD MART  
GRANDON, WISCONSIN  
FOR: JAY SCHAEFER

168049

S:\PROJ\SF1A\140804\A\010500-1.DWG



**LEGEND**

- PROPERTY LINE
- ◆ MW1  
61 MONITORING WELL LOCATION AND NAPHTHALENE CONCENTRATIONS ON 04/20/99
- ◆ MW100 = MONITORING WELL INSTALLED BY NORTHERN
- ◆ GSM1 = CITO STATION MONITORING WELL BY MILLER
- ◆ MW3 = MONITORING WELL INSTALLED BY MILLER
- ◆ RED = NR 140 ES EXCEEDANCE
- ◆ NA = NOT ANALYZED
- ◆ PZ500 PIEZOMETER LOCATION

DRAWN BY: KREI	PROJECT: SFM-0453	DATE: 01/05/00
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.	
 <b>Northern Environmental</b> <i>Hydrologists • Engineers • Geologists</i>		
EXHIBIT 1		SITE LAYOUT WITH MONITORING WELL LOCATIONS
FOR: JAK SCHAEFER		JAK SCHAEFER PROPERTY CRANDON, WISCONSIN

