



**Soil and Groundwater
Investigation**

at the

SIR

**Dennis Malchow
Property
3225 W. College
Avenue, Appleton, WI**

ERRP # 02-45-228649

December 6, 2000

**R + R - OSH
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Project #N1556A99

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EXECUTIVE SUMMARY

OMNNI has completed the subsurface investigation for Mr. Dennis Malchow at the vacant lot located ^{adjacent to} at 3225 W. College Avenue, Appleton, WI. The investigation was performed in response to the report of solvent contamination discovered during a separate petroleum investigation performed by OMNNI on the adjacent property. The release was reported to the DNR.

Research has shown that the site is a former dry cleaner.

OMNNI was contracted by the owner of the property to conduct an investigation at the site. In April 1999, a total of three soil borings were performed at the site to begin to identify the extent of soil contamination. Groundwater monitoring wells were constructed in all three of the borings to characterize the condition of the groundwater and to determine flow direction. Two wells from the petroleum investigation are also being used to monitor groundwater quality at the former dry cleaner site.

Analytical test results indicated that the extent of soil and groundwater contamination at the site had not been completely defined. Volatile organic compounds (VOCs) were detected above standards in the groundwater at the three new wells.

OMNNI returned to the site on September 7, 2000, to observe the installation of three additional groundwater monitoring wells. Results of testing from the three new wells indicated that the lateral extent of solvent contamination at the site has been defined. Results of the initial investigation are documented in a report prepared by OMNNI dated October 16, 2000.

On October 25, 2000, OMNNI coordinated the installation of three piezometers at the site to determine the vertical extent of groundwater contamination. A total of six shallow borings were also performed on November 3, 2000 to attempt to locate a former utility trench at the site. Based on analytical testing of groundwater samples from the piezometers and wells, the extent of contamination appears to be defined at the site.

OMNNI recommends that a remedial action plan be developed to address the soil and groundwater contamination. OMNNI also recommends that the monitoring wells and piezometers be sampled quarterly to continue to monitor the groundwater quality at the site.

INTRODUCTION/BACKGROUND

OMNNI was contracted to perform an investigation of the property. The site is located in the SW ¼, SW ¼, Section 28, T21N, R17E, Town of Grand Chute, Outagamie County, Wisconsin. (See Figure 1 - Site Location Map, Appendix 1.)

An investigation of the former Hardee's restaurant site, located adjacent to the vacant lot, was performed by OMNNI. During the petroleum investigation, a monitoring well (MW2) was placed on the vacant lot. Both petroleum and solvent contamination were present in the well. A second well (MW4) was placed on the vacant lot and more severe solvent contamination was detected. (See Figure 2 - Site Detail Map, Appendix 1.) The solvent contamination was reported to the DNR.

In April 1999 and September of 2000, OMNNI coordinated the installation of six soil borings on the vacant lot (SB1 – SB6). Groundwater monitoring wells were installed in all six of the borings (SMW1 – SMW6). Analytical testing of soil and groundwater indicated that the horizontal extent of contamination has been defined. OMNNI returned to the site on October 25, 2000, to coordinate the installation of three piezometers (SP1 – SP3). Six shallow soil borings (SB10 – SB15) were also performed to attempt to locate a former utility

trench on-site. This report documents the investigation performed in October 2000 and the most recent groundwater sampling event performed on November 2, 2000.

A total of eight monitoring wells and three piezometers are now being used to monitor the former dry cleaning site. The wells have been sampled between one and four times, depending on the date of their installation. The first sampling of the piezometers is documented in this report. The entire site will be sampled again in December 2000.

No private water supply wells are located on the property. The area businesses are serviced by municipal sewer and water.

The following are the primary contacts for the project:

- Owner: Mr. Dennis Malchow, N3608 Vista Drive, Campbellsport, WI 53010-1833; (920) 533-3454.
- Consultant: OMNNI Associates, One Systems Drive, Appleton, WI 54914; (920) 735-6900. Contact: Mr. Dave Fries.
- Driller: M & K Environmental and Soil Drilling, 214 S. Pershing Street, Howards Grove, WI 53083; (800) 227-4158. Contact: Mr. Mike Mc Ardle.
- Laboratory: U.S. Analytical Laboratory, 1090 Kennedy Avenue, Kimberly, WI 54136; (920) 735-8285. Contact: Mr. Mike Ricker.

GEOLOGY AND HYDROGEOLOGY

The site is located in the Fox – Wolf River basin of Wisconsin. Surficial deposits in this basin consist of glacial sediment deposited during the Wisconsin glaciation. The glaciers were present during the Pleistocene period. United States Geological Survey maps (Water Resources of Wisconsin – Fox – Wolf River Basin, by Perry G. Alcott, 1968) indicate that the material in the vicinity of the site is composed of lake sediment consisting of silt and clay. These deposits overlie undifferentiated dolomite. These sedimentary rocks were formed during the Ordovician age.

Soil samples collected during drilling activities at the site consisted mostly of clay, silt, or silty clay to a depth of approximately 15 feet. (See Figure 3 - Diagrammatic Cross-Section of Stratigraphy from A – A', and Figure 4 - Diagrammatic Cross-Section of Stratigraphy from B – B', Appendix 1.) Bedrock was not encountered in any of the borings. According to the U.S.G.S. maps, bedrock is expected to be up to 100 feet deep in the vicinity of the site.

Topography on-site is relatively flat. Immediately off-site, the topography slopes downward to the west-southwest toward Mud Creek, which is located approximately ¼ mile from the site. Based on the topography and the investigation performed on the adjacent lot, the regional groundwater movement is expected to be to the west-southwest.

Based on data collected from the monitoring wells on September 13, 2000, the depth to groundwater varies at the site from approximately 5 – 8 feet below the ground surface. The shallow groundwater appears to mound around the former building foundation and flows radially outward in all directions. (See Figure 5 - Groundwater Elevation Contour Map, Appendix 1.)

Changes in the groundwater depth and flow direction typically occur seasonally. Other subsurface structures such as utility trenches may also influence groundwater flow direction at this site due to the shallow depth of the water table aquifer.

FIELD ACTIVITIES

SOIL BORINGS

Soil boring activities were performed on October 25 and November 3, 2000. A total of nine soil borings (SB7 – SB15) were performed on-site. Piezometers (SP1 – SP3) were constructed in three of the borings (SB7 – SB9) to determine the impact of the contamination on the groundwater. The remaining shallow borings were performed to determine if a former utility trench was acting as a conduit for contamination off-site.

Borings were installed to depths of approximately 12 - 30 feet. (See Soil Boring Log Information Forms, Appendix 3.)

Soil samples were obtained at 2 ½ foot intervals for field screening with a photoionization detector (PID) from borings SB10 – SB15. Since no evidence of contamination existed in these borings, and a former utility trench was not located, soil samples were not obtained for laboratory analysis. Since the extent of soil contamination has already been determined at the site, soil samples were also not collected from the piezometer locations. *ok*



PIEZOMETERS

Piezometers were constructed in three of the borings at the site to identify the extent of groundwater contamination. The piezometers were installed and developed according to NR 141 groundwater monitoring well requirements. (See Well Construction and Development Forms, Appendix 3.) Five-foot screens were placed in the wells at 30 feet deep to test the deeper part of the water table aquifer at the site.

OMNNI surveyed the wells. Elevations are based on the USGS datum. Ground elevation was surveyed to the nearest 0.1 foot, and the top of the well casing to the nearest 0.01 foot.

The three piezometers were developed on November 2, 2000. Initial groundwater samples were obtained from the piezometers on the same day. (See Handbook of Field Procedures, Appendix 4 and Well Specific Field Sheet, Appendix 3.)

*⊕
Against
recommendation
of GW
sampling
handbook*

FIELD AND ANALYTICAL RESULTS

Headspace screening results from the six soil borings tested (SB10 – SB15) were all 0.0 ppm (isobutylene equivalents). (See Soil Boring Logs for Headspace Data, Appendix 3.) Field headspace results showed no evidence of contamination in borings SB10 – SB15.

The initial groundwater samples collected from the three piezometers were analyzed for VOCs. Laboratory analysis results showed preventive action limit (PAL) exceedances in piezometers SP2 and SP3. Piezometer SP3 was placed in the area found to be most severely contaminated during the initial phase of the investigation. Preventive action limit exceedances for cis-1,2-dichloroethene and tetrachloroethene were found in this piezometer. (See Table 2 - Summary of Laboratory Analysis, Groundwater – Historical, Appendix 2, and Laboratory Results and Chain of Custody Documentation, Appendix 5.)

ANALYSIS OF DEGREE AND EXTENT OF CONTAMINATION

The extent of soil and groundwater contamination has been defined to the extent practical. The vertical and horizontal extent of the soil contamination at the site was determined during the initial investigation. Samples collected during drilling activities from the borings show contamination extending to a depth of between 5 – 7

feet in some areas. The most severe soil contamination was found in borings B8 (MW4), SB1 (SMW1), and SB2 (SMW2).

Vertically, the groundwater contamination appears limited to the upper water table aquifer. The most severe groundwater contamination seems to be at MW4 and SMW1. Despite having some slight enforcement standard exceedances at the monitoring wells on the fringe of the plume, the lateral extent of groundwater contamination appears to be bounded by SMW4 to the north, by a point between SMW2 and SMW6 to the east, by MW2 to the west, and by SMW5 to the south. Laterally, the extent of groundwater contamination appears to be defined to the extent practical.

A former utility trench was not located on-site with the six shallow borings performed on-site.

Based on the water level elevations collected on September 13, 2000, the water table on-site is between approximately 5 and 8 feet below the ground surface. The shallow groundwater flow appears to be influenced by the former building foundation. Groundwater is mounded near the former foundation and flows radially outward from the foundation in all directions. The regional flow direction is expected to be toward Mud Creek, which is located to the west of the site. $\frac{1}{4}$ mi.

CONCLUSIONS/RECOMMENDATIONS

Based on soil analytical data, unsaturated soil contamination exists in borings B8, SB1, and SB2. Saturated soil contamination extends to a depth of approximately 7 feet in some borings.

Groundwater contamination is limited to the upper aquifer and is most severe in the vicinity of MW4 and SMW1. Less contamination was observed in SMW2 – SMW5 and MW2. No contamination was found in SMW6.

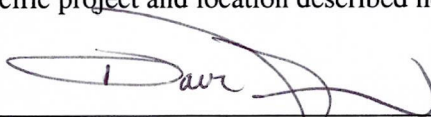
A monitoring device installed in the intersection of the frontage road for College Avenue and S. Bluemound Drive can be used to monitor the presence of VOC contamination in the sanitary sewer.

OMNNI recommends that the monitoring wells and piezometers on-site be sampled quarterly to continue to monitor the groundwater quality at the site. OMNNI also recommends that a remedial action plan be developed to address the soil and groundwater contamination.

STANDARD OF CARE

The conclusions presented in this investigation were arrived at using generally accepted hydrogeologic and engineering practices. The conclusions presented herein represent our professional opinions, based on the data collected at the time of the investigation, at the specific boring and sampling locations discussed in this report. Conditions at other locations on the property may be different than described in this investigation. The scope of this report is limited to the specific project and location described herein.

Prepared By:



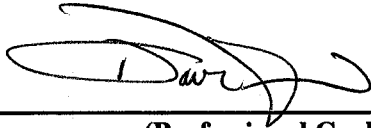
Dave Fries, P.G.
Hydrogeologist

Reviewed By:

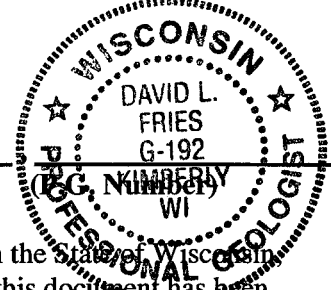


Don Brittnacher, P.E.
Environmental Engineer

"I, Dave Fries, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."



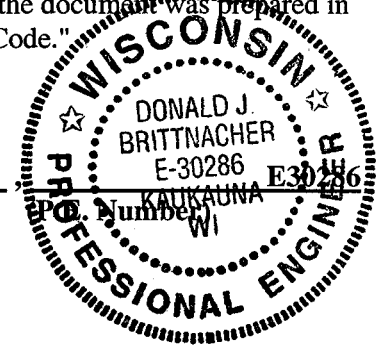
(Professional Geologist)



"I, Don Brittnacher, hereby certify that I am a registered professional engineer in the State of Wisconsin registered in accordance with requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."



(Professional Engineer)



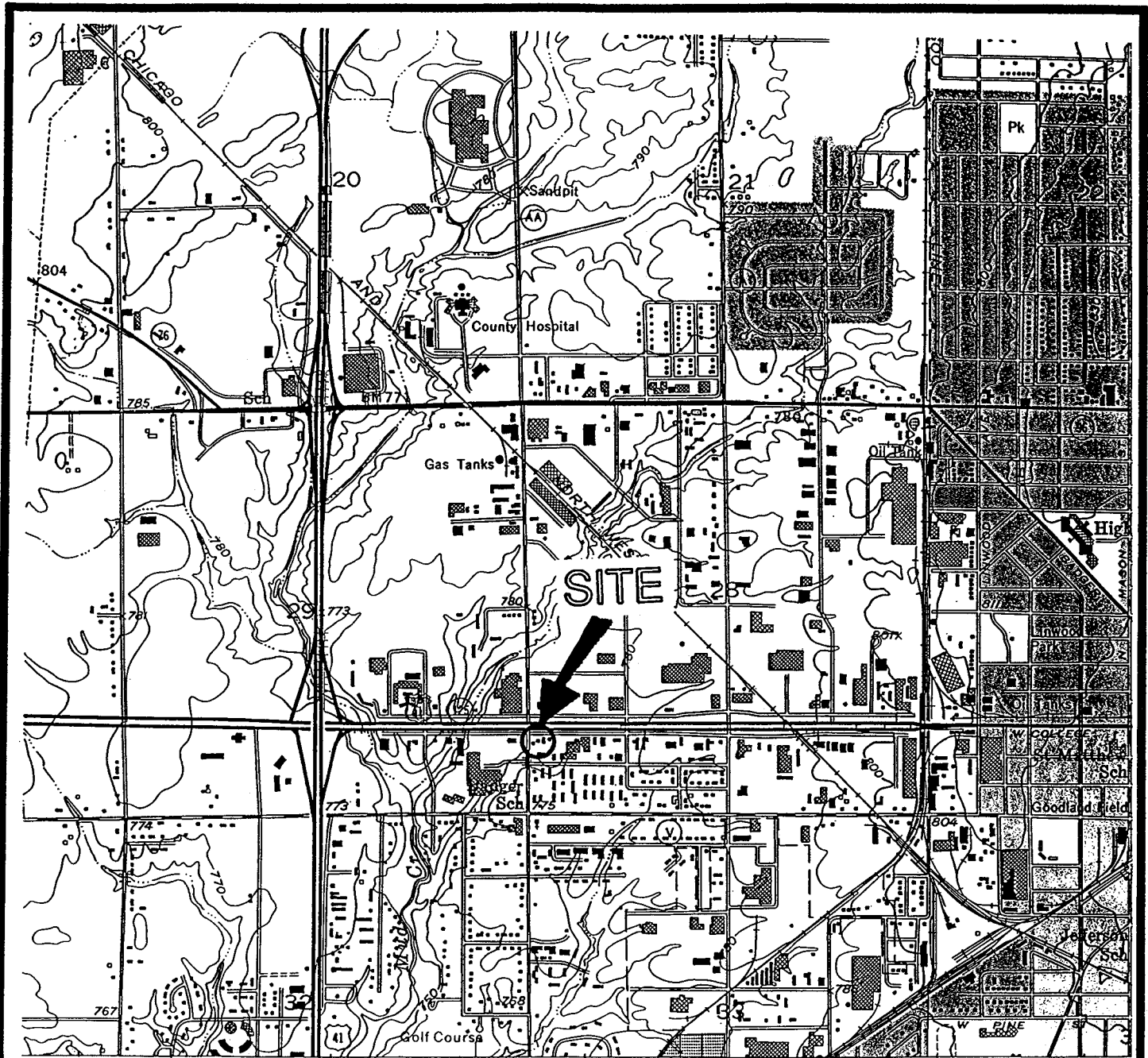
DISTRIBUTION:

Mr. Dennis Malchow
N3608 Vista Drive
Campbellsport, WI 53010

Ms. Jennifer Tobias
DNR – Oshkosh Area Office
625 E. CTY HWY "Y"
Suite 700
Oshkosh, WI 54901-9731

APPENDIX 1

FIGURES



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, APPLETON, WISCONSIN QUADRANGLE, 1984.

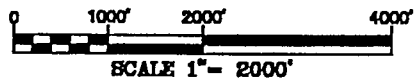


FIGURE 1
SITE LOCATION MAP

VACANT LOT
3225 W. COLLEGE AVENUE
TOWN OF GRAND CHUTE, WISCONSIN

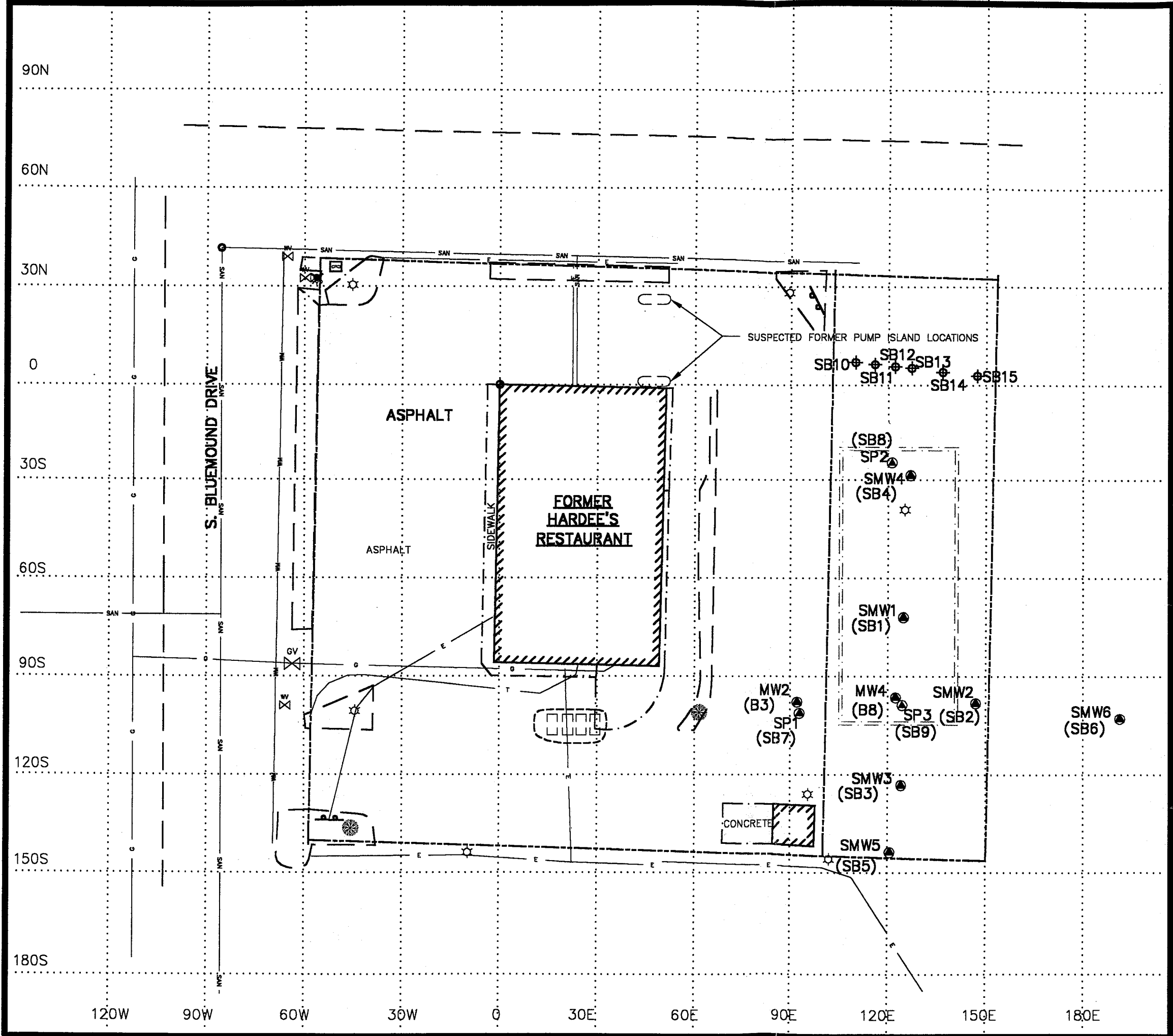
OMNI
ASSOCIATES

ONE SYSTEMS DRIVE
APPLETON, WI 54914
PHONE (920) 735-6900
FAX (920) 830-6100

PROJECT MANAGER:	PROJECT NO:	N1556A99
PROJECT ENGINEER:	CAD FILE NO:	N1556A1
DRAWN BY:	SCALE:	OLD
REVIEWED BY:	DATE:	6/28/00

LEGEND:

- MW4 ● Well Location and I.D. No.
- SB1 ⊕ Soil Boring Location and I.D. No.
- ==== Former Building Foundation
- Suspected Former Tank Location
6,000 Gallon Gasoline USTs
- - - - Property Line
- - - - Approximate Limit of Excavation
- Edge of Asphalt
- - - - Edge of Concrete Pavement
- ▨ Building Face
- ⊕ Hydrant
- ⊗_W Water Valve
- ⊗_G Gas Valve
- Gas Line
- W— Watermain
- T— Telephone Cable
- ☐ Telephone Booth
- ☆ Light Post
- SAN—● Sanitary Line with Manhole
- E— Electrical Line
- ⊕ Reference Point
- 30N ····· Grid Line (30' Interval)

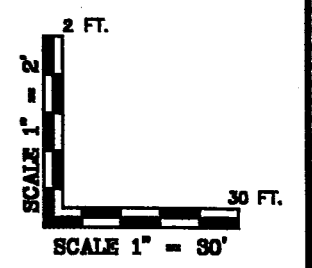
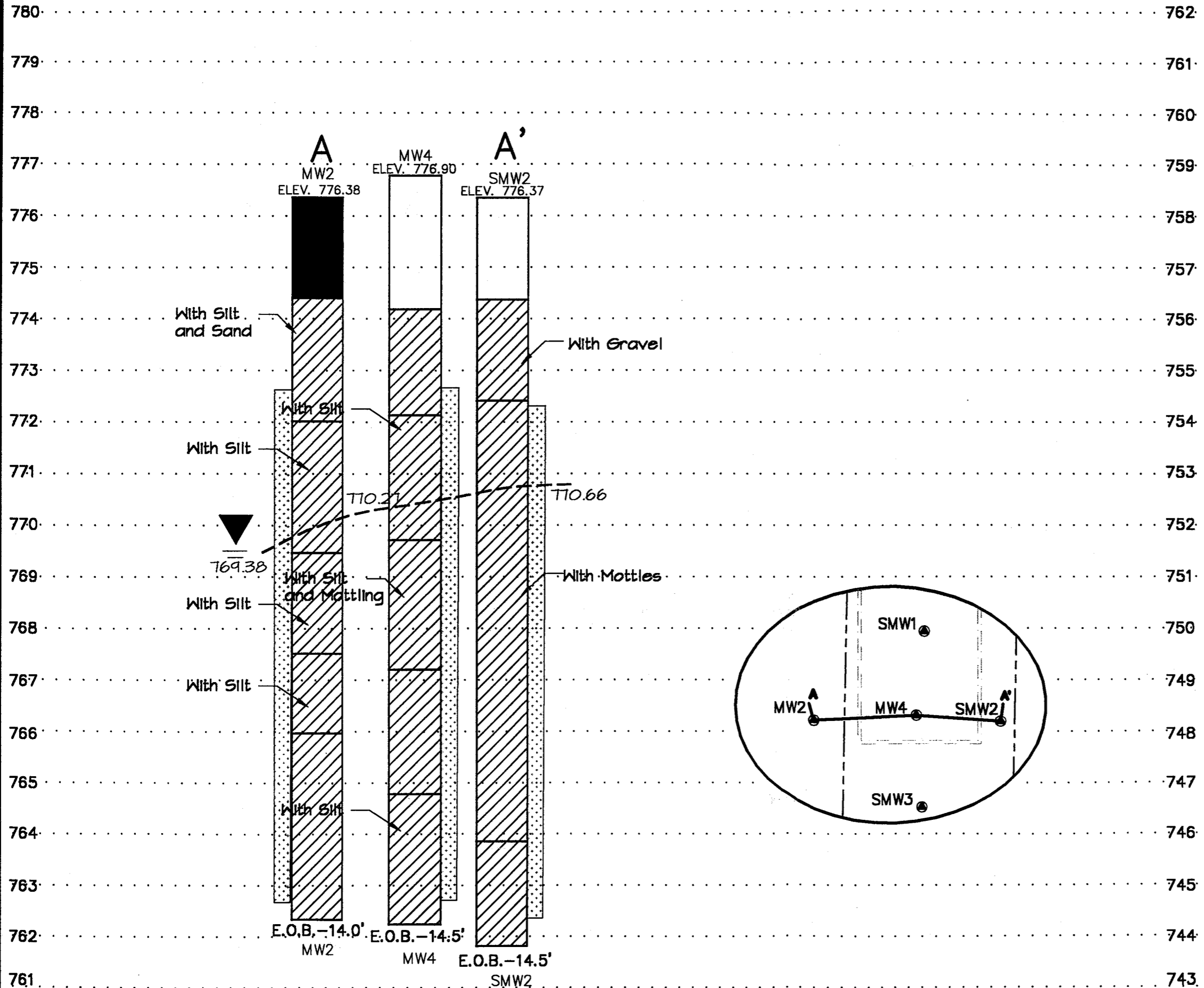


**FIGURE 2
 SITE DETAIL MAP**

VACANT LOT
 3225 W. COLLEGE AVENUE
 TOWN OF GRAND CHUTE, WISCONSIN

OMNI ASSOCIATES
 ONE SYSTEMS DRIVE
 APPLETON, WI 54914
 PHONE (920) 735-8900
 FAX (920) 830-6100

PROJECT MANAGER:	PROJECT NO:	N1556A99
PROJECT ENGINEER:	CAD FILE NO:	N1556A2
DRAWN BY:	DLD	SCALE: 1"=30'
REVIEWED BY:	DATE:	10/2/00



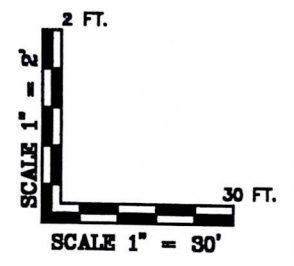
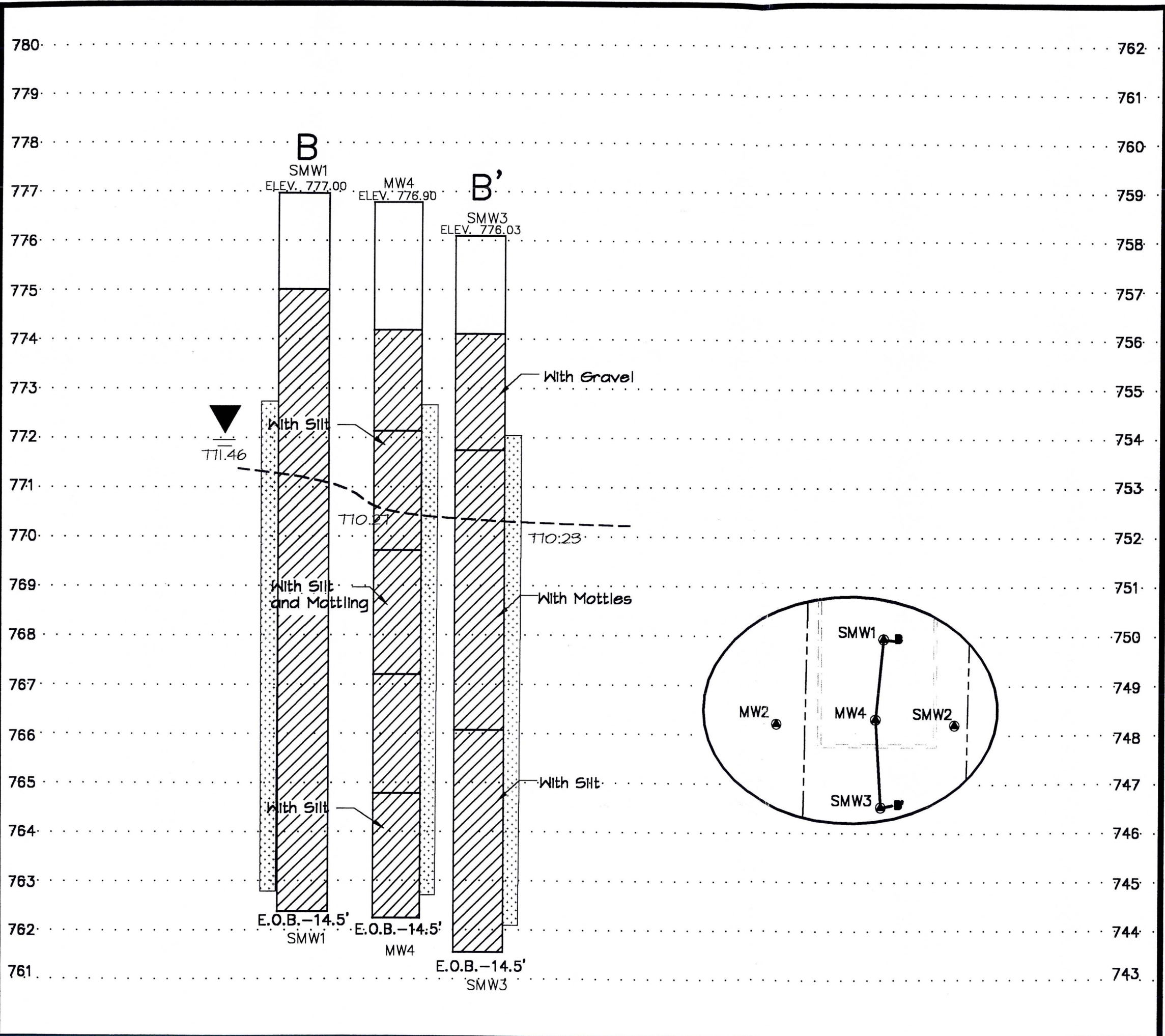
- LEGEND:**
- Asphalt
 - Clay
 - Screened Interval
 - Water Table (9/13/00)
 - Groundwater Line

FIGURE 3
 DIAGRAMMATIC CROSS-SECTION
 OF STRATIGRAPHY FROM A TO A'

VACANT LOT
 3225 W. COLLEGE AVENUE
 TOWN OF GRAND CHUTE, WISCONSIN

OMNI ASSOCIATES
 ONE SYSTEMS DRIVE
 APPLETON, WI 54914
 PHONE (920) 735-6900
 FAX (920) 830-6100

PROJECT MANAGER:	PROJECT NO:	N1556A99
PROJECT ENGINEER:	CAD FILE NO:	N1556A3
DRAWN BY:	SCALE:	
REVIEWED BY:	DATE:	10/9/00



LEGEND:

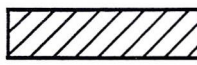
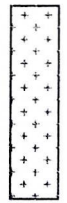


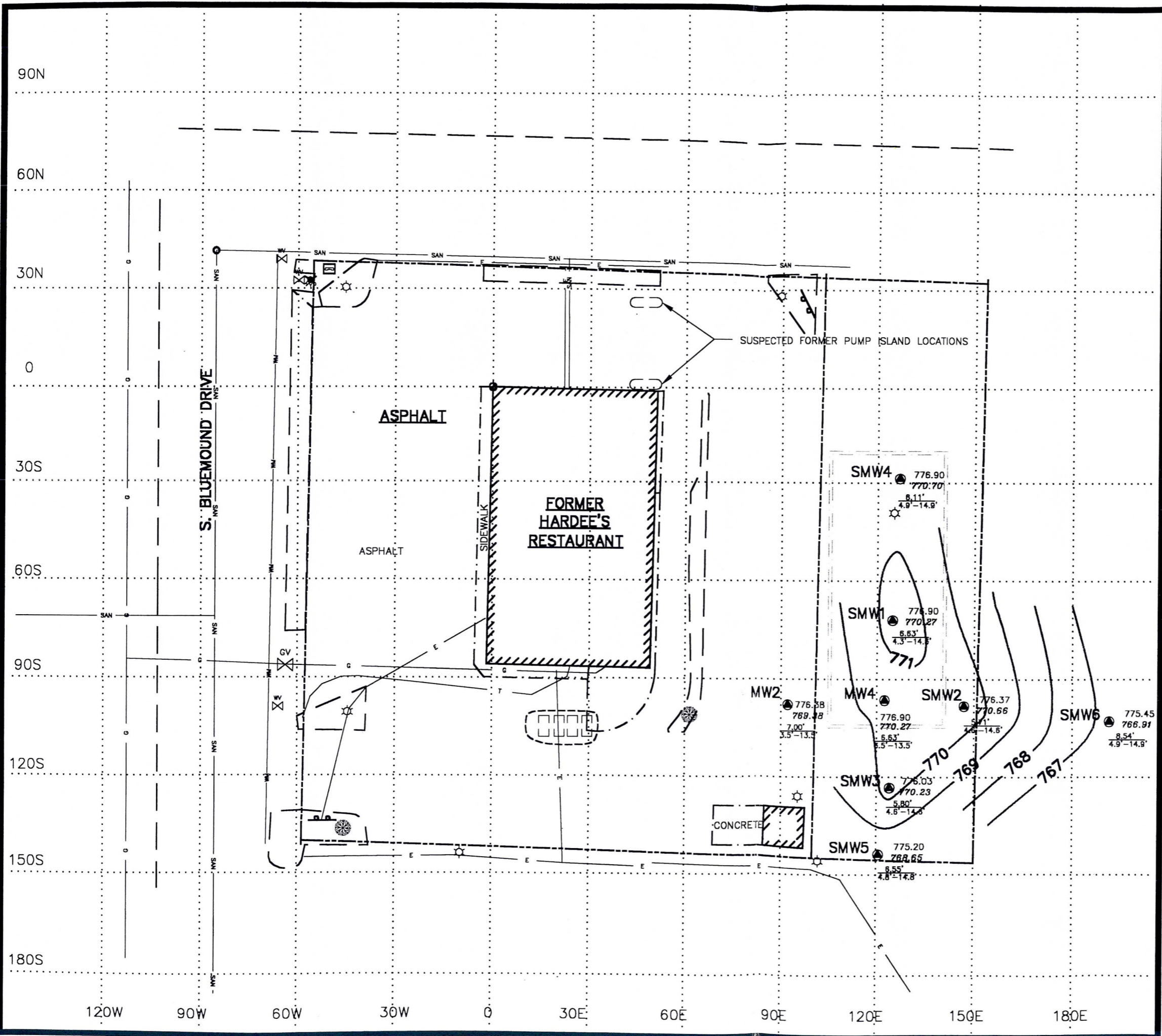
-  Clay
-  Screened Interval
-  Water Table (9/13/00)
-  Groundwater Line

FIGURE 4
DIAGRAMMATIC CROSS-SECTION
OF STRATIGRAPHY FROM B TO B'

VACANT LOT
3225 W. COLLEGE AVENUE
TOWN OF GRAND CHUTE, WISCONSIN

OMNI ASSOCIATES
ONE SYSTEMS DRIVE
APPLETON, WI 54914
PHONE (920) 735-6900
FAX (920) 830-6100

PROJECT MANAGER:	PROJECT NO:	N1556A99
PROJECT ENGINEER:	CAD FILE NO:	N1556A4
DRAWN BY:	SCALE:	
REVIEWED BY:	DLD	DATE: 10/9/00



0' 6' 15' 30'
SCALE: 1" = 30'
LOCAL GRID NORTH
N

LEGEND:

- SMW1 $\begin{matrix} \bullet \\ \circ \end{matrix}$ $\begin{matrix} 777.00 \\ 771.46 \end{matrix}$ Surface Elevation at Well
Groundwater Elevation at Well
- $\begin{matrix} 5.54' \\ 4.3'-14.3' \end{matrix}$ Depth to Water from Surface
Screened Interval (ft.)
- 767.00— Groundwater Contour Line
(1.0' Contour Interval)
- MW4 \bullet Well Location and I.D. No.
- ==== Former Building Foundation
- Suspected Former Tank Location
6,000 Gallon Gasoline USTs
- Property Line
- Approximate Limit of Excavation
- Edge of Asphalt
- Edge of Concrete Pavement
- ////// Building Face
- \odot Hydrant
- $\begin{matrix} WV \\ \times \\ \times \end{matrix}$ Water Valve
- $\begin{matrix} GV \\ \times \\ \times \end{matrix}$ Gas Valve
- G — Gas Line
- WM — Watermain
- T — Telephone Cable
- \square Telephone Booth
- \odot Light Post
- SAN — Sanitary Line with Manhole
- E — Electrical Line
- \oplus Reference Point
- 30N Grid Line (30' Interval)

**FIGURE 5
GROUNDWATER ELEVATION
CONTOUR MAP (9/13/00)**

VACANT LOT
3225 W. COLLEGE AVENUE
TOWN OF GRAND CHUTE, WISCONSIN

OMNI
ASSOCIATES

ONE SYSTEMS DRIVE
APPLETON, WI 54914
PHONE (920) 735-6900
FAX (920) 830-6100

PROJECT MANAGER:	PROJECT NO:	N1556A99
PROJECT ENGINEER:	CAD FILE NO:	N1556A2
DRAWN BY:	DLD	SCALE: 1"=30'
REVIEWED BY:	DATE:	10/2/00

APPENDIX 2

TABLES

TABLE 1 SUMMARY OF LABORATORY ANALYSIS SOIL BORING SAMPLES

MARCH 30, 1998, JULY 8, 1998, APRIL 20, 1999, AND SEPTEMBER 7, 2000, SAMPLING EVENTS

PARAMETER	STANDARD	B3-3	B8-1	SB1-1	SB2-1	SB3-2	SB4-2	SB6-2
SAMPLE DEPTH		7.0 - 9.0	2.5 - 4.5	2.5 - 4.5	2.5 - 4.5	5.0 - 7.0	5.0 - 7.0	5.0 - 7.0
DETECTED VOCs (µg/kg)								
TERT-BUTYLBENZENE	-	<25	<25	460	<25	<25	<25	<25
N-BUTYLBENZENE	-	<25	<25	1200	27	<25	<25	<25
CIS-1,2-DICHLOROETHENE	-	<25	<25	<25	8600	<25	<25	<25
TRANS-1,2-DICHLOROETHENE	-	<25	<25	<25	170	<25	<25	<25
P-ISOPROPYLTOLUENE	-	<25	<25	280	<25	<25	<25	<25
NAPHTHALENE	-	<25	52	300	52	<25	<25	<25
N-PROPYLBENZENE	-	<25	<25	320	<25	<25	<25	<25
TETRACHLOROETHENE	-	<25	5500	8200	1400	<25	160	<25
TOLUENE	1500	<25	<25	<25	50	<25	<25	<25
TRICHLOROETHENE	-	<25	<25	210	5300	<25	<25	<25
1,2,4-TRIMETHYLBENZENE	-	<25	<25	350	<25	<25	<25	<25
1,3,5-TRIMETHYLBENZENE	-	<25	<25	340	<25	<25	<25	<25
VINYL CHLORIDE	-	<25	<25	<25	240	<25	<25	<25
XYLENES	4100	<75	<75	<75	35	<75	<75	<75


TABLE 2
SUMMARY OF LABORATORY ANALYSIS
GROUNDWATER SAMPLES - HISTORICAL


Page 1 of 3

PARAMETER (µg/L)	ES	PAL	MW2				MW4				SMW1			
SAMPLE DATE			4/21/99	9/24/99	1/6/00	9/13/00	4/21/99	9/24/99	1/6/00	9/13/00	4/21/99	9/24/99	1/6/00	9/13/00
DETECTED VOCs														
CIS-1,2-DICHLOROETHENE	70	7	NA				NA	0.5	2.5	5.2	33	32	68	54
TRANS-1,2-DICHLOROETHENE	100	20	NA	0.53"J"	<0.38	<0.43	NA	<0.38	<3.8	<0.43	1.1"J"	1.2"J"	<3.8	<4.3
TETRACHLOROETHENE	5.0	0.5	NA	<0.35	<0.35	<0.34	NA	260	100	200	410	340	180	330
TRICHLOROETHENE	5.0	0.5	NA	2.1	<0.48	<0.46	NA	15	5.1	13	34	41	78	29
VINYL CHLORIDE	0.2	0.02	NA	0.24"J"	<0.15	<0.87	NA	<0.15	<1.5	<0.87	7.6	2.6	<1.5	<8.7
O-XYLENE	620	124	NA	<0.32	<0.32	<0.64	NA	<0.32	<3.2	<0.64	<0.32	<0.32	<3.2	<6.4

ES = enforcement standard

PAL = preventive action limit

 = sample concentration detected above the preventive action limit

 = sample concentration detected above the enforcement standard

"J" = Analyte detected between the method of detection and the method of quantification.

NOTE: MW2 AND MW4 were sampled previous to 4/21/99 as part of a separate investigation on the adjacent property. Results are not listed in this table.

FRONTIER N1556A99 TABLE 2 (1).doc


TABLE 2
SUMMARY OF LABORATORY ANALYSIS
GROUNDWATER SAMPLES - HISTORICAL

Page 2 of 3

PARAMETER (µg/L)	ES	PAL	SMW2				SMW3				SMW4
SAMPLE DATE			4/21/99	9/24/99	1/6/00	9/13/00	4/21/99	9/24/99	1/6/00	9/13/00	9/13/00
DETECTED VOCs											
CIS-1,2-DICHLOROETHENE	70	7	810	910	720	540	1000	650	910	1000	<0.37
TRANS-1,2,-DICHLOROETHENE	100	20	<19	<19	<19	<4.3	20"J"	<19	9.1"J"	14	<0.43
TETRACHLOROETHENE	5.0	0.5	35"J"	<18	39"J"	10"J"	<18	<18	<7	<3.4	50
TRICHLOROETHENE	5.0	0.5	73"J"	54"J"	57"J"	29	130	63"J"	100	69	<0.46
VINYL CHLORIDE	0.2	0.02	660	580	210	340	50	14"J"	<3	51	<0.87
O-XYLENE	620	124	<16	<16	17"J"	<6.4	<16	<16	<6.4	<6.4	<0.64

ES = enforcement standard

PAL = preventive action limit

 = sample concentration detected above the preventive action limit

 = sample concentration detected above the enforcement standard

"J" = Analyte detected between the method of detection and the method of quantification.


TABLE 2
SUMMARY OF LABORATORY ANALYSIS
GROUNDWATER SAMPLES - HISTORICAL


Page 3 of 3

PARAMETER ($\mu\text{g/L}$)	ES	PAL	SMW5	SMW6	SP1	SP2	SP3
SAMPLE DATE			9/13/00	9/13/00	11/02/00	11/02/00	11/02/00
DETECTED VOCs							
CIS-1,2-DICHLOROETHENE	70	7		<0.37	1.3	<0.37	
TRANS-1,2-DICHLOROETHENE	100	20	1.7	<0.43	<0.43	<0.43	0.87"J"
TETRACHLOROETHENE	5.0	0.5	<0.34	<0.34	<0.34	0.67"J"	
TRICHLOROETHENE	5.0	0.5	<0.46	<0.46	<0.46	<0.46	<0.46
VINYL CHLORIDE	0.2	0.02	1.9"J"	<0.87	<0.2	<0.2	<0.2
O-XYLENE	620	124	<0.64	<0.64	0.82"J"	<0.64	<0.64

ES = enforcement standard

PAL = preventive action limit

 = sample concentration detected above the preventive action limit

 = sample concentration detected above the enforcement standard

"J" = Analyte detected between the method of detection and the method of quantification.

Piezometers SP1 - SP3 were not installed during the September 13, 2000, sampling event.

APPENDIX 3

DNR FORMS

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other _____

Page _____ of _____

Facility/Project Name Dennis Malchow Property		License/Permit/Monitoring Number		Boring Number SB7	
Boring Drilled By (Firm name and name of crew chief) M+K Dan		Date Drilling Started 10/25/2000 m m d d y y y y		Date Drilling Completed 10/25/2000 m m d d y y y y	
Drilling Method HSA		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Well Unique Well No. JK918		DNR Well ID No.		Well Name SP1	
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>)		Local Grid Location		Borehole Diameter 8 inches	
State Plane SW 1/4 of SW 1/4 of Section 28, T 21 N, R 17 EW		Lat _____ Long _____		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Outagamie		Civil Town/City or Village Grand Chute	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			2	Blind drill next to MW2 Install piezometer SP1 to 29'										
			4											
			6											
			8											
			10											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Signature]* Firm: **OMNNI**

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Page _____ of _____

Facility/Project Name: Dennis Malchow Property License/Permit/Monitoring Number: _____ Boring Number: SB8

Boring Drilled By (Firm name and name of crew chief): M+K / Dan Date Drilling Started: 10/25/2000 Date Drilling Completed: 10/25/2000 Drilling Method: HSA

WI Unique Well No.: JK919 DNR Well ID No.: _____ Well Name: SP2 Final Static Water Level: _____ Feet MSL Surface Elevation: _____ Feet MSL Borehole Diameter: 8 inches

Boring Location or Local Grid Origin (Check if estimated:) State Plane: SW 1/4 of SW 1/4 of Section 28, T 21 N, R 17 E/W Lat: _____ Long: _____ Local Grid Location: _____ Feet N S E W

Facility ID: _____ County: Outagamie County Code: 45 Civil Town/City/Village: Grand Chute

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			2 4 6 8 10 12	Blind drill to 29.5' Install piezometer SP2										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [Signature] Firm: DMNNI

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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Page of

Facility/Project Name Dennis Malchow Property License/Permit/Monitoring Number Boring Number SB9

Boring Drilled By (Firm name and name of crew chief) M&K Dan Date Drilling Started 10/25/2000 Date Drilling Completed 10/25/2000 Drilling Method HSA
m m d d y y y y m m d d y y y y

WI Unique Well No. JK920 DNR Well ID No. Well Name SP3 Final Static Water Level Surface Elevation Borehole Diameter 8 inches
Feet MSL Feet MSL

Boring Location or Local Grid Origin (Check if estimated:) State Plane SW 1/4 of SW 1/4 of Section 28, T 21 N, R 17 E/W Lat ° ' " Long ° ' " Local Grid Location N E S W

Facility ID County Outagamie County Code 45 Civil Town/City or Village Grand Chute

Sample Number and Type	Length An. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			0	Blind drill next to MW4 to 29											
			2												
			4	Install SP3											
			6												
			8												
			10												
			12												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm OMNNI

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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Page _____ of _____

Facility/Project Name Dennis Malchow Property		License/Permit/Monitoring Number		Boring Number SB10	
Boring Drilled By (Firm name and name of crew chief) M+K Dan		Date Drilling Started 11/03/2000 m m d d y y y y		Date Drilling Completed 11/03/2000 m m d d y y y y	
WI Unique Well No.		DNR Well ID No.		Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 8 inches	
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>)				Local Grid Location	
State Plane SW 1/4 of SW 1/4 of Section 28, T 21 N, R 17 E/W		Lat _____ Long _____		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Outagamie		Civil Town/City/Village Grand Chute	

Sample Number and Type	Length At. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1	48	-	2	Gravel / Rascourse											
			4	Black silty clay w/ no odor				0.0		M					8:00
2	48	-	6	Red-brown clay w/ no odor				0.0		W					8:05
			8	No evidence of utility trench or contamination											
			10	" " "											
3	48	-	10					0.0		W					8:10
			12	E.O.B @ 12'											

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature: *[Signature]* Firm: **OMNI**

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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Page _____ of _____

Facility/Project Name <i>Dennis Malchow Property</i>		License/Permit/Monitoring Number		Boring Number <i>SB11</i>	
Boring Drilled By (Firm name and name of crew chief) <i>M+K / Dan</i>		Date Drilling Started <i>11/03/2000</i> m m d d y y y y		Date Drilling Completed <i>11/03/2000</i> m m d d y y y y	
WI Unique Well No.		DNR Well ID No.		Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter <i>8</i> inches	

Boring Location or Local Grid Origin (Check if estimated:)
 State Plane *SW* 1/4 of *SW* 1/4 of Section *28*, T *21* N, R *17* EW
 Local Grid Location: Lat _____ Long _____
 Feet N E S W

Facility ID _____ County *Outagamie* County Code *45* Civil Town/City/Village *Grand Chute*

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	48	-	2	Gravel basecourse										
			4	Black silty-clay w/ no odor				0.0		M			8:22	
2	48	-	6	Red-brown clay w/ no odor										
			8	" "				0.0		W			8:26	
3	48	-	10	No evidence of utility trench or contamination										
			12	EOB @ 12'				0.0		W			8:31	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Signature]* Firm *OMNI*

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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Page _____ of _____

Facility/Project Name <i>Dennis Malchow Property</i>		License/Permit/Monitoring Number		Boring Number <i>SB12</i>	
Boring Drilled By (Firm name and name of crew chief) <i>M+K Dan</i>		Date Drilling Started <i>11/03/2000</i> m m d d y y y y		Date Drilling Completed <i>11/03/2000</i> m m d d y y y y	
WI Unique Well No.		DNR Well ID No.		Well Name	
Final Static Water Level		Surface Elevation		Borehole Diameter <i>8</i> inches	
Boring Location or Local Grid Origin* (Check if estimated: <input type="checkbox"/>)		Local Grid Location			
State Plane <i>SW</i> 1/4 of <i>SW</i> 1/4 of Section <i>28</i> , T <i>21</i> N, R <i>17</i> <i>E/W</i>		Lat _____ ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County <i>Outagamie</i>		County Code <i>45</i>	
				Civil Town/City/ or Village <i>Grand Chute</i>	

Sample Number and Type	Length Aft. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				Gravel basecourse										
1	36"		2	Black silty clay w/ no odor				0.0		M				8:44
2	48"		6	Red-brown clay w/ no odor				6.0		W				8:46
3	48"		10	No evidence of utility trench or contamination				0.0		W				8:50
			12	E.O.B @ 12'										

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature *[Signature]* Firm *OMNNI*

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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Page _____ of _____

Facility/Project Name: Dennis Malchow Property License/Permit/Monitoring Number: _____ Boring Number: SB13

Boring Drilled By (Firm name and name of crew chief): M+K / Dan Date Drilling Started: 11/03/2000 Date Drilling Completed: 11/03/2000 Drilling Method: geoprobe

WI Unique Well No.: _____ DNR Well ID No.: _____ Well Name: _____ Final Static Water Level: _____ Feet MSL Surface Elevation: _____ Feet MSL Borehole Diameter: 8 inches

Boring Location or Local Grid Origin (Check if estimated:) State Plane: SW 1/4 of SW 1/4 of Section 28, T 21 N, R 17 E/W Lat: _____ Long: _____ Local Grid Location: N E S W

Facility ID: _____ County: Outagamie County Code: 45 Civil Town/City/Village: Grand Chute

Sample Number and Type	Length Alt. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
				Gravel basecourse											
1	48"		2	Black silty clay w/ no odor				0.0		M					9:00
2	48"		6	Red-brown clay w/ no odor				0.0		W					9:06
3	48"		10	No evidence of utility trench or contam. EOB @ 12'				0.0		W					9:11

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [Signature] Firm: OMNNI

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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Page _____ of _____

Facility/Project Name <i>Dennis Malchow Property</i>		License/Permit/Monitoring Number		Boring Number <i>SB14</i>	
Boring Drilled By (Firm name and name of crew chief) <i>M+K Dan</i>		Date Drilling Started <i>10/03/2000</i> m m d d y y y y		Date Drilling Completed <i>10/03/2000</i> m m d d y y y y	
WI Unique Well No.		DNR Well ID No.		Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter <i>8</i> inches	
Boring Location or Local Grid Origin* (Check if estimated: <input type="checkbox"/>)					
State Plane <i>SW</i> 1/4 of <i>SW</i> 1/4 of Section <i>28</i> , T <i>21</i> N, R <i>17</i> EW			Local Grid Location		
Lat _____ ° _____ ' _____ "			Long _____ ° _____ ' _____ "		
Facility ID		County <i>Outagamie</i>		County Code <i>45</i>	
				Civil Town/City/ or Village <i>Grand Chute</i>	

Sample Number and Type	Length Art. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				<i>Gravel basecourse</i>										
<i>1</i>	<i>48</i>	<i>-</i>	<i>2</i>	<i>Black silty clay w/ no odor</i>				<i>0.0</i>		<i>M</i>				<i>9:22</i>
			<i>4</i>	<i>Red-brown clay w/ no odor</i>										
<i>2</i>	<i>48</i>	<i>-</i>	<i>6</i>					<i>0.0</i>		<i>w</i>				<i>9:25</i>
			<i>8</i>											
<i>3</i>	<i>48</i>	<i>-</i>	<i>10</i>	<i>No evidence of utility trench or contamination</i>				<i>0.0</i>		<i>w</i>				<i>9:30</i>
			<i>12</i>	<i>silt @ tip EOB @ 12'</i>										

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature: *[Signature]* Firm: *OMNI*

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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Page _____ of _____

Facility/Project Name: Dennis Malchow Property License/Permit/Monitoring Number: _____ Boring Number: SB15

Boring Drilled By (Firm name and name of crew chief): M+K Dan Date Drilling Started: 11/03/2000 Date Drilling Completed: 11/03/2000 Drilling Method: geoprobe

WI Unique Well No. _____ DNR Well ID No. _____ Well Name _____ Final Static Water Level _____ Feet MSL Surface Elevation _____ Feet MSL Borehole Diameter 8 inches

Boring Location or Local Grid Origin (Check if estimated:) State Plane SW 1/4 of SW 1/4 of Section 28, T 21 N, R 17 EW Lat _____ Long _____ Local Grid Location _____ Feet N S E W

Facility ID _____ County Outagamie County Code 45 Civil Town/City/Village Grand Chute

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1	48"		2	Gravel basecourse				0.0		w					9:35
			4	Red-brown clay w/ no odor											
2	48"		6	stiff red-brown clay w/ no odor				0.0		w					9:40
			8	" "											
3	36"		10	No evidence of utility trench or contamination				0.0		w					9:45
			12	silt @ tip eob @ 12'											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Dave Firm: OMNI

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Facility/Project Name <u>Dennis Malchow</u>	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name <u>SPI</u>
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ "Long. _____ " or	Wis. Unique Well No. <u>JK918</u> DNR Well ID No. _____
Facility ID	St. Plane _____ ft. N, _____ ft. E. <u>S/C/N</u>	Date Well Installed <u>10/25/2000</u> m m d d y y y y
Type of Well Well Code <u>1.12</u>	Section Location of Waste/Source <u>SW 1/4 of SW 1/4 of Sec. 28, T. 21 N, R. 17</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) <u>M/K / Dan</u>
Distance Well Is From Waste/Source Boundary _____ ft.	Location of Well Relative to Waste/Source <input type="checkbox"/> u <input type="checkbox"/> s <input type="checkbox"/> Sidegradient <input checked="" type="checkbox"/> d <input type="checkbox"/> Downgradient <input type="checkbox"/> n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation <u>776.37</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>776.09</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>9.0</u> in. b. Length: <u>7.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>776.3</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom <u>775.3</u> ft. MSL or <u>1.0</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>40-60 BMC</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name and mesh size a. <u>65-75 BMC</u> b. Volume added _____ ft ³
17. Source of water (attach analysis): _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top <u>775.3</u> ft. MSL or <u>1.0</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top <u>756.3</u> ft. MSL or <u>2.0</u> ft.	b. Manufacturer <u>Bedrock</u> c. Slot size: <u>0.01</u> in. d. Slotted length: <u>10.</u> ft.
G. Filter pack, top <u>754.3</u> ft. MSL or <u>2.2</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top <u>752.3</u> ft. MSL or <u>2.4</u> ft.	
I. Well bottom <u>747.3</u> ft. MSL or <u>2.9</u> ft.	
J. Filter pack, bottom <u>746.8</u> ft. MSL or <u>2.95</u> ft.	
K. Borehole, bottom <u>746.8</u> ft. MSL or <u>2.95</u> ft.	
L. Borehole, diameter <u>8.3</u> in.	
M. O.D. well casing <u>2.07</u> in.	
N. I.D. well casing <u>1.93</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Dan Firm OMNNI

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name <u>Dennis Malchow</u>	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name <u>SP2</u>
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ "Long. _____ or _____	Wis. Unique Well No. <u>JK919</u> DNR Well ID No. _____
Facility ID	St. Plane _____ ft. N. _____ ft. E. SAC/N	Date Well Installed <u>10/25/2000</u> m m d d y y y y
Type of Well Well Code <u>1.12</u>	Section Location of Waste/Source <u>SW 1/4 of SW 1/4 of Sec. 28, T. 21 N, R. 17</u> <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) <u>MTK / Dan</u>
Distance Well Is From Waste/Source Boundary _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation <u>776.94</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>776.63</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>9.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>776.9</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom <u>775.9</u> ft. MSL or <u>1.0</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal: a. Granular Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>40-60 BMC</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name and mesh size a. <u>65-75 BMC</u> b. Volume added _____ ft ³
17. Source of water (attach analysis): _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top <u>775.9</u> ft. MSL or <u>1.0</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top <u>756.9</u> ft. MSL or <u>2.00</u> ft.	b. Manufacturer <u>Bedrock</u> c. Slot size: <u>0.01</u> in. d. Slotted length: <u>10.</u> ft.
G. Filter pack, top <u>754.9</u> ft. MSL or <u>2.20</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top <u>752.9</u> ft. MSL or <u>2.40</u> ft.	
I. Well bottom <u>747.9</u> ft. MSL or <u>2.90</u> ft.	
J. Filter pack, bottom <u>747.4</u> ft. MSL or <u>2.95</u> ft.	
K. Borehole, bottom <u>747.4</u> ft. MSL or <u>2.95</u> ft.	
L. Borehole, diameter <u>8.3</u> in.	
M. O.D. well casing <u>2.07</u> in.	
N. I.D. well casing <u>1.93</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Dan Firm OMNI

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name: Dennis Malchow Local Grid Location of Well: ft. N. ft. E. ft. S. ft. W. Well Name: SP3

Facility License, Permit or Monitoring No.: _____ Grid Origin Location: _____ (Check if estimated:) Wis. Unique Well No.: JK920 DNR Well ID No.: _____

Facility ID: _____ St. Plane: _____ ft. N. _____ ft. E. S/C/N Date Well Installed: 10/25/2000
m m d d y y y y

Type of Well: _____ Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 28, T. 21 N, R. 17 E W Well Installed By: (Person's Name and Firm) M.K. / Dan

Well Code: 1.12 Location of Well Relative to Waste/Source: u Upgradient s Sidegradient
d Downgradient n Not Known

Distance Well Is From Waste/Source Boundary: _____ ft.

A. Protective pipe, top elevation 776.86 ft. MSL Yes No

B. Well casing, top elevation 776.58 ft. MSL

C. Land surface elevation 776.9 ft. MSL

D. Surface seal, bottom 775.9 ft. MSL or 1.0 ft.

1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: 9.0 in.
b. Length: 1.0 ft.
c. Material: Steel 04
Other

d. Additional protection? Yes No
If yes, describe: _____

3. Surface seal: Bentonite 30
Concrete 01
Other

4. Material between well casing and protective pipe: Bentonite 30
Other

5. Annular space seal:
a. Granular Bentonite 33
b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
c. _____ Lbs/gal mud weight ... Bentonite slurry 31
d. _____ % Bentonite ... Bentonite-cement grout 50
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie 01
Tremie pumped 02
Gravity 08

6. Bentonite seal:
a. Bentonite granules 33
b. 1/4 in. 3/8 in. 1/2 in. Bentonite pellets 32
c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
a. 40-60 BMC
b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name and mesh size
a. 65-75 BMC
b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Other

10. Screen material: PVC
a. Screen type: Factory cut 11
Continuous slot 01
Other

b. Manufacturer Bedrock
c. Slot size: 0.01 in.
d. Slotted length: 10. ft.

11. Backfill material (below filter pack): None 14
Other

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
Hollow Stem Auger 41
Other

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used? Yes No
Describe _____

17. Source of water (attach analysis): _____

E. Bentonite seal, top 775.9 ft. MSL or 1.0 ft.

F. Fine sand, top 756.9 ft. MSL or 200 ft.

G. Filter pack, top 754.9 ft. MSL or 220 ft.

H. Screen joint, top 752.9 ft. MSL or 240 ft.

I. Well bottom 747.9 ft. MSL or 290 ft.

J. Filter pack, bottom 747.4 ft. MSL or 295 ft.

K. Borehole, bottom 747.4 ft. MSL or 295 ft.

L. Borehole, diameter 8.3 in.

M. O.D. well casing 20.7 in.

N. I.D. well casing 19.3 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [Signature] Firm: OMNMI

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>Malchow Property</u>	County Name <u>Outagamie</u>	Well Name <u>SPI</u>
Facility License, Permit or Monitoring Number	County Code <u>45</u> / Wis. Unique Well Number <u>JK918</u>	DNR Well ID Number

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other

3. Time spent developing well 8 min.

4. Depth of well (from top of well casing) 29.3 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing 57 gal.

7. Volume of water removed from well 40 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added None

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

11. Depth to Water Before Development After Development

(from top of well casing) a. 22.83 ft. 28.7 ft.

Date b. 11/02/2000 11/02/2000
m m d d y y y y m m d d y y y y

Time c. 11:40 a.m. p.m. 11:50 a.m. p.m.

12. Sediment in well bottom 0.0 inches 0.0 inches

13. Water clarity Clear 10 Turbid 15
(Describe) (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: DAVE Last Name: FRIES

Firm: OMNI Associates

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Dennis Last Name: Malchow

Facility/Firm: _____

Street: 3225 W. College Ave.

City/State/Zip: Appleton, WI 54914

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [Signature]

Print Name: DAVE FRIES

Firm: OMNI Associates

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>Malchow Property</u>	County Name <u>Outagamie</u>	Well Name <u>SPZ</u>
Facility License, Permit or Monitoring Number	County Code <u>45</u>	Wis. Unique Well Number <u>JK919</u>
		DNR Well ID Number

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other

3. Time spent developing well 12 min.

4. Depth of well (from top of well casing) 29.3 ft.

Inside diameter of well 2.0 in.

f. Volume of water in filter pack and well casing 6.0 gal.

7. Volume of water removed from well 4.0 gal.

Volume of water added (if any) 0.0 gal.

Source of water added None

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

11. Depth to Water Before Development After Development

(from top of well casing) a. 22.49 ft. 28.0 ft.

Date b. 11, 02, 2000 11, 02, 2000
m m d d y y y y m m d d y y y y

Time c. 10:42 a.m. 10:55 a.m.
 p.m. p.m.

12. Sediment in well bottom 0.0 inches 0.0 inches

13. Water clarity Clear 10 Turbid 15
(Describe) (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: DAVE Last Name: FRIES

Firm: OMNNI Associates

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Dennis Last Name: Malchow

Facility/Firm:

Street: 3225 W. College Ave.

City/State/Zip: Appleton, WI 54914

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [Signature]

Print Name: DAVE FRIES

Firm: OMNNI Associates

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>Malchow Property</u>	County Name <u>Outagamie</u>	Well Name <u>SP3</u>
Facility License, Permit or Monitoring Number	County Code <u>45</u>	Wis. Unique Well Number <u>JK920</u>
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other
3. Time spent developing well 5 min.
4. Depth of well (from top of well casing) 29.0 ft.
5. Inside diameter of well 2.0 in.
6. Volume of water in filter pack and well casing 53 gal.
7. Volume of water removed from well 3.0 gal.
8. Volume of water added (if any) 0.0 gal.
9. Source of water added None

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>23.01</u> ft.	<u>28.0</u> ft.
Date	b. <u>11, 02, 2000</u> m m d d y y y y	<u>11, 02, 2000</u> m m d d y y y y
Time	c. <u>12:05</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>12:15</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0.0</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input checked="" type="checkbox"/> 10 Turbid <input type="checkbox"/> 15 (Describe) _____	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

10. Analysis performed on water added? Yes No
(If yes, attach results)

16. Well developed by: Name (first, last) and Firm
First Name: Dave Last Name: Fries
Firm: OMNI Associates

7. Additional comments on development:

Name and Address of Facility Contact / Owner / Responsible Party

First Name: Dennis Last Name: Malchow

Facility/Firm: _____

Street: 3225 W. College Ave.

City/State/Zip: Appleton, WI 54914

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [Signature]

Print Name: DAVE FRIES

Firm: OMNI Associates

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION Well/Drillhole/Borehole Location County * <u>Outagamie</u> SW 1/4 of SW 1/4 of Sec. <u>28</u> ; T. <u>21</u> N; R. <u>17</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W (If Applicable) * Gov't Lot _____ * Grid Number _____ Grid Location * ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ * ft. <input type="checkbox"/> E. <input type="checkbox"/> W. Civil Town Name * _____ Street Address of Well * <u>3225 W. College Avenue</u> City, Village * <u>Appleton, WI 54914</u>	(2) FACILITY NAME * Original Well Owner (If Known) * _____ Present Well Owner * <u>Dennis Malchow</u> Street or Route * <u>N3608 Vista Drive</u> City, State, Zip Code ** <u>Campbellsport WI 53010</u> Facility Well No! and/or Name (If Applicable) * <u>SB10</u> WI Unique Well No. * _____ Reason For Abandonment ** <u>For soil sampling only</u> Date of Abandonment * <u>11/3/00</u>
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WELL/DRILLHOLE/BOREHOLE INFORMATION (3) Original Well/Drillhole/Borehole Construction Completed On (Date) * <u>11/3/00</u> <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole Construction Report Available? <input type="checkbox"/> Yes <input type="checkbox"/> No Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) * _____ Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock Total Well Depth (ft) * _____ Casing Diameter (in.) * _____ (From ground surface) Casing Depth (ft.) * _____ Lower Drillhole Diameter (in.) * _____ Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? * _____ Feet	(4) Depth to Water (Feet) * Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain * _____ Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) * _____	(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Cement Grout

Sealing Material Used	From (Ft.)	To (Ft.)	*	Mix Ratio or Mud Weight
* <u>Asphalt Patch</u>	Surface	1 *	*	*
* <u>Bentonite</u>	1 *	12 *	*	*
* _____	*	*	*	*
* _____	*	*	*	*

(b) Comments * _____

(9) Name of Person or Firm Doing Sealing Work
 * One Systems Drive
 Signature of Person Doing Work
MJK / OMNI
 Date Signed
11/20/00
 Street or Route
One Systems Drive
 Telephone Number
*920-735-6900
 City, State, Zip Code
Appleton, WI 54914

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Non-Complying Work
Follow-Up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME *	
Well/Drillhole/Borehole Location	County * <u>Outagamie</u>	Original Well Owner (If Known) *	
<u>SW</u> 1/4 of <u>SW</u> 1/4 of Sec. <u>28</u> ; T. <u>24</u> N.; R. <u>17</u> <input checked="" type="checkbox"/> E (If Applicable)	Gov't Lot _____ Grid Number _____	Present Well Owner * <u>Dennis Malchow</u>	
Grid Location * ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ * ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Civil Town Name *	Street or Route * <u>N3608 Vista Drive</u>	
Street Address of Well * <u>3225 W. College Avenue</u>	City, Village * <u>Appleton, WI 54914</u>	City, State, Zip Code ** <u>Campbellsport WI 53010</u>	
WELL/DRILLHOLE/BOREHOLE INFORMATION		Facility Well No! and/or Name (If Applicable) * <u>SB11</u>	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) * <u>11/3/00</u> <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Construction Report Available? <input checked="" type="checkbox"/> Water Well <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) * _____ Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock Total Well Depth (ft) * _____ Casing Diameter (in.) * _____ (From ground surface) Casing Depth (ft.) * _____ Lower Drillhole Diameter (in.) * _____ Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? * _____ Feet		(4) Depth to Water (Feet) * Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain * _____ Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) * _____		(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Bentonite-Cement Grout <input checked="" type="checkbox"/> Chipped Bentonite	

Sealing Material Used	From (Ft.)	To (Ft.)	*	Mix Ratio or Mud Weight
* <u>Asphalt Patch</u>	Surface	1 *	*	*
* <u>Bentonite</u>	1 *	12 *	*	*
*	*	*	*	*
*	*	*	*	*

(7) Comments *

(8) Name of Person or Firm Doing Sealing Work		(9) Signature of Person Doing Work	
* <u>Sam</u>		* <u>[Signature]</u>	
Street or Route * <u>One Systems Drive</u>	City, State, Zip Code * <u>Appleton, WI 54914</u>	Date Signed <u>11/20/00</u>	Telephone Number * <u>920-735-6900</u>

(10) FOR DNR OR COUNTY USE ONLY

DATE RECEIVED/INSPECTED	DNR/COUNTY
RECEIVED/INSPECTED	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME *	
Well/Drillhole/Borehole Location * <i>SW 1/4 of SW 1/4 of Sec. 28 ; T. 24 N.; R. 17 E</i>	County * <i>Outagamie</i>	Original Well Owner (If Known) *	
(If Applicable) * Gov't Lot * Grid Number	Grid Location * ft. <input type="checkbox"/> N. <input type="checkbox"/> S., * ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Present Well Owner * <i>Dennis Malchow</i>	Street or Route * <i>N3608 Vista Drive</i>
Civil Town Name *	Street Address of Well * <i>3225 W. College Avenue</i>	City, State, Zip Code * <i>Campbellsport WI 53010</i>	City, State, Zip Code * <i>Campbellsport WI 53010</i>
Facility Well No. and/or Name (If Applicable) * <i>SB12</i>	WI Unique Well No. *	Reason For Abandonment * <i>For soil sampling only</i>	Date of Abandonment * <i>11/3/00</i>

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) * <i>11/3/00</i>		(4) Depth to Water (Feet) *	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole	Construction Report Available? <input type="checkbox"/> Yes <input type="checkbox"/> No	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain *	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) *	Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Well Depth (ft) * _____ Casing Diameter (in.) * _____ (From ground surface) Casing Depth (ft.) * _____	Lower Drillhole Diameter (in.) * _____	(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) *	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? * _____ Feet		(6) Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite	For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Cement Grout

Sealing Material Used	From (Ft.)	To (Ft.)	*	Mix Ratio or Mud Weight
<i>Asphalt Patch</i>	<i>Surface</i>	<i>1</i>	*	*
<i>Bentonite</i>	<i>1</i>	<i>12'</i>	*	*
	*	*	*	*
	*	*	*	*

(8) Comments *

(9) Name of Person or Firm Doing Sealing Work
WCA

Signature of Person Doing Work <i>M.K. OMNI</i>	Date Signed <i>11/20/00</i>
Street or Route <i>One Systems Drive</i>	Telephone Number <i>*920-735-6901</i>
City, State, Zip Code <i>Appleton, WI 54914</i>	

(10) FOR DNR OR COUNTY USE ONLY

DATE RECEIVED/INSPECTED	DISTRICT/COUNTY
REVIEWER/INSPECTOR	<input type="checkbox"/> Complying Work <input type="checkbox"/> Non-complying Work
REASON FOR NON-COMPLIANCE (If Necessary)	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME *	
Well/Drillhole/Borehole Location * <u>SW 1/4 of SW 1/4 of Sec. 28 ; T. 21 N.; R. 17 E</u>	County * <u>Outagamie</u>	Original Well Owner (If Known) *	Present Well Owner * <u>Dennis Malchow</u>
Grid Location * Gov't Lot _____ * Grid Number _____	Street Address of Well * <u>3225 W. College Avenue</u>	Street or Route * <u>N3608 Vista Drive</u>	
Civil Town Name *	City, State, Zip Code * <u>Appleton, WI 54914</u>	City, State, Zip Code * <u>Campbellsport WI 53010</u>	
Construction Report Available? <input type="checkbox"/> Yes <input type="checkbox"/> No	Facility Well No. and/or Name (If Applicable) * <u>SB13</u>	WI Unique Well No. *	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) *	Reason For Abandonment * <u>For soil sampling only</u>	Date of Abandonment * <u>11/03/00</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) * <u>11/3/00</u>	(4) Depth to Water (Feet) * Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain *
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
Total Well Depth (ft) * _____ Casing Diameter (in.) * _____ (From ground surface) Casing Depth (ft.) * _____	(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) *
Lower Drillhole Diameter (in.) * _____	(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Bentonite-Cement Grout <input checked="" type="checkbox"/> Chipped Bentonite
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? * _____ Feet	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	*	Mix Ratio or Mud Weight
* <u>Asphalt Patch</u>	Surface	1 *	*	*
* <u>Bentonite</u>	1 *	12' *	*	*
* _____	*	*	*	*
* _____	*	*	*	*

(8) Comments *

(9) Name of Person or Firm Doing Sealing Work
* DAVE

Signature of Person Doing Work
MAK / OMNI

Date Signed
11/20/00

Street or Route
* One Systems Drive

Telephone Number
* 920-735-6900

City, State, Zip Code
* Appleton, WI 54914

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewed/Inspected	<input type="checkbox"/> Complying Work <input type="checkbox"/> Non-complying Work
Bill to DNR/County	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME *	
Well/Drillhole/Borehole Location <i>SW 1/4 of SW 1/4 of Sec. 28 ; T. 24 N.; R. 17 E</i>	County <i>* Outagamie</i>	Original Well Owner (If Known) <i>*</i>	
Grid Location <i>* Gov't Lot _____ * Grid Number _____</i>		Present Well Owner <i>* Dennis Malchow</i>	
Civil Town Name <i>*</i>		Street or Route <i>* N3608 Vista Drive</i>	
Street Address of Well <i>* 3225 W. College Avenue</i>		City, State, Zip Code <i>** Campbellspoint WI 53010</i>	
City, Village <i>* Appleton, WI 54914</i>		Facility Well No! and/or Name (If Applicable) <i>* SB14</i>	
Grid Location <i>* ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ * ft. <input type="checkbox"/> E. <input type="checkbox"/> W.</i>		Reason For Abandonment <i>** For soil sampling only</i>	
Date of Abandonment <i>* 11/3/00</i>		WI Unique Well No. <i>*</i>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

<p>3) Original Well/Drillhole/Borehole Construction Completed On (Date) <i>* 11/3/00</i></p> <p><input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole</p> <p>Construction Report Available? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) <i>*</i></p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft) <i>*</i> _____ Casing Diameter (in.) <i>*</i> _____ (From ground surface) Casing Depth (ft.) <i>*</i> _____</p> <p>Lower Drillhole Diameter (in.) <i>*</i> _____</p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <i>*</i> _____ Feet</p>	<p>(4) Depth to Water (Feet) *</p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain <i>*</i></p> <p>Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) <i>*</i></p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Bentonite-Cement Grout <input checked="" type="checkbox"/> Chipped Bentonite</p>
--	---

Sealing Material Used	From (Ft.)	To (Ft.)	*	Mix Ratio or Mud Weight
<i>Asphalt Patch</i>	<i>Surface</i>	<i>1'</i>	<i>*</i>	<i>*</i>
<i>Bentonite</i>	<i>1'</i>	<i>12'</i>	<i>*</i>	<i>*</i>
<i>*</i>	<i>*</i>	<i>*</i>	<i>*</i>	<i>*</i>
<i>*</i>	<i>*</i>	<i>*</i>	<i>*</i>	<i>*</i>

(8) Comments *

(9) Name of Person or Firm Doing Sealing Work
** [Signature]*

Signature of Person Doing Work
M.K. OMNI

Date Signed
11/20/00

Street or Route
One Systems Drive

Telephone Number
** 920-735-6901*

City, State, Zip Code
Appleton, WI 54914

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewed/Inspected	<input type="checkbox"/> Complying With <input type="checkbox"/> Not Complying With
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME *	
Well/Drillhole/Borehole Location	County * <u>Outagamie</u>	Original Well Owner (If Known) *	
<u>SW</u> 1/4 of <u>SW</u> 1/4 of Sec. <u>28</u> ; T. <u>21</u> N.; R. <u>17</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W (If Applicable)	Gov't Lot _____ * Grid Number _____	Present Well Owner * <u>Dennis Malchow</u>	
Grid Location _____ * ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ * ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Civil Town Name *	Street or Route * <u>N3608 Vista Drive</u>	
Street Address of Well * <u>3225 W. College Avenue</u>	City, Village * <u>Appleton, WI 54914</u>	City, State, Zip Code ** <u>Campbellsport WI 53010</u>	
		Facility Well No! and/or Name (If Applicable) * <u>SB15</u>	WI Unique Well No. *
		Reason For Abandonment ** <u>For soil sampling only</u>	
		Date of Abandonment * <u>11/3/00</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) * <u>11/3/00</u>	(4) Depth to Water (Feet) *
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole Construction Report Available? <input type="checkbox"/> Yes <input type="checkbox"/> No Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) * _____ Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock Total Well Depth (ft) * _____ Casing Diameter (in.) * _____ (From ground surface) Casing Depth (ft.) * _____ Lower Drillhole Diameter (in.) * _____ Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? * _____ Feet	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain * _____ Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
	(5) Required Method of Placing Sealing Material
	<input checked="" type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) * _____
	(6) Sealing Materials
	<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite For monitoring wells and monitoring well boreholes only: <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	*	Mix Ratio or Mud Weight
* <u>Asphalt Patch</u>	Surface	1 *	*	*
* <u>Bentonite</u>	1 *	12 *	*	*
*	*	*	*	*
*	*	*	*	*

(8) Comments *

(9) Name of Person or Firm Doing Sealing Work
* Paul

Signature of Person Doing Work <u>MJK / OMNI</u>	Date Signed <u>11/20/00</u>
Street or Route * <u>One Systems Drive</u>	Telephone Number * <u>920-735-6900</u>
City, State, Zip Code * <u>Appleton, WI 54914</u>	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Non-Complying Work
Follow-up Necessary	

Facility Name		Facility ID Number		License, Permit or Monitoring No.		Date		Completed By (Name and Firm)												
Matchow Property						10/6/00		Dave Fries, OMNNI Associates												
WI Unique Well No	Well Name	DNR Well ID Number	Well Location	Dir. N S E W	Date Established	Well Casing		Elevations		Reference		Depths			Screen Length	Well Type	Well Status	Inf. Stds.	Grad-ient	Distance to Waste
						Diam.	Type	Top of Well Casing	Ground Surface	MSL (✓)	Site Datum (✓)	Screen Top	Initial Groundwater	Well Depth						
MW2					3/30/98	2"	PVC	776.04	776.4	/		772.9	3.81	13.5'	10'					Y
MW4					7/9/98	2"	PVC	776.52	776.9	/		773.4	6.03	13.5'	10'					Y
SMW1					4/20/99	2"	PVC	776.61	777.0	/		772.5	5.36	14.5'	10'					Y
SMW2					4/20/99	2"	PVC	776.01	776.37	/		771.87	6.22	14.5'	10'					Y
SMW3					4/20/99	2"	PVC	775.61	776.03	/		771.53	5.98	14.5'	10'					Y
SMW4					9/7/00	2"	PVC	776.49	776.9	/		772.4	9.20	15'	10'					Y
SMW5					9/7/00	2"	PVC	774.82	775.2	/		770.7	8.12	15'	10'					Y
SMW6					9/7/00	2"	PVC	775.03	775.5	/		771.0	6.17	15'	10'					Y
SP1					10/25/00	2"	PVC	776.09	776.3	/		752.3	22.83	29	5'					Y
SP2					10/25/00	2"	PVC	776.63	776.9	/		752.9	22.49	29	5'					Y
SP3					10/25/00	2"	PVC	776.58	776.9	/		752.9	23.01	29	5'					Y

Location Coordinates Are:

State Plane Coordinate Local Grid System

Northern Southern

Central

Grid Origin Location: (Check if estimated:)

Lat. ____ ° ____ ' ____ " Long. ____ ° ____ ' ____ " or

St. Plane ____ ft. N. ____ ft. E. S/C/N Zone

Remarks:

Completion of this form is mandatory under s. NR 507.14 and NR 110.25 Wis. Adm. Code. Failure to file this form may result in forfeiture of not less than \$10 nor more than \$5,000 for each day of violation. Personally identifiable information provided is intended to be used by the Department for the purposes related to the waste management program.

Well Specific Field Sheet (WSFS) - Monitoring Wells

Fill out one column of this form for each monitoring well which is sampled on each sampling date.

Facility Name: Vacant Lot - 3225 College Ave., Appleton, WI

Date: November 2, 2000

License or Permit # :

Weather Conditions: Sunny, 60

Person(s) Sampling: Dave Fries

Sampling Equipment (for measuring water level, sampling, and filtering. (Include model if appropriate.): ES-60 purge pump, Solonist water level meter, YSI 600 XL multi-probe with 610-D field display unit, Enviroline disposable bailers

Well Name	MW2	MW4	SMW1	SMW2	SMW3	SMW4	SMW5	SMW6
DNR ID No.								
Pipe top elevation (MSL) Reference elev. if different	776.04	776.52	776.61	776.01	775.61	776.49	774.82	775.03
Measured depth to water (ft)								
Correction	-	-	-	-	-	-	-	-
Total depth to water (ft)	-	-	-	-	-	-	-	-
Water elevation (MSL)	776.04	776.52	776.61	776.01	775.61	776.49	774.82	775.03
Depth to bottom of well (ft)	13.4	13.5	14.35	14.65	14.65	14.95	14.85	14.95
Volume of water in well (gal)	2.18	2.20	2.34	2.39	2.39	2.44	2.42	2.44
Volume to be purged (4x vol. in well)	8.74	8.80	9.36	9.55	9.55	9.75	9.68	9.75
Time purging begun								
Time purging completed								
Purged dry? (Y/N)	Yes	Yes	No	Yes	No	Yes	Yes	Yes
Time sample withdrawn								
Field temperature (°C)								
Field conductivity (uncorrected)								
Field conductivity (at 25°C)								
Time conductivity measured								
Field pH (std. units)								
Time pH measured								
Color (Y/N)								
Odor (Y/N)								
Turbidity (Y/N)								
Sample field filtered? (Y/N)								
Time filtered								
Dissolved Oxygen								
Dissolved Oxygen %								
Well cap and lock replaced? (Y/N)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Well Specific Field Sheet (WSFS) - Monitoring Wells

Fill out one column of this form for each monitoring well which is sampled on each sampling date.

Facility Name: Vacant Lot - 3225 College Ave., Appleton, WI

Date: November 2, 2000

License or Permit # :

Weather Conditions: Sunny 60

Person(s) Sampling: Dave Fries

Sampling Equipment (for measuring water level, sampling, and filtering.) (Include model if appropriate.)
pump, Solonist water level meter, YSI 600 XL multi-probe with 610-D field display unit, Enviroline dispose

Well Name	SP1	SP2	SP3
DNR ID No.			
Pipe top elevation (MSL) Reference elev. if different	776.09	776.63	776.58
Measured depth to water (ft)	22.83	22.49	23.01
Correction	-	-	-
Total depth to water (ft)	-	-	-
Water elevation (MSL)	753.26	754.14	753.57
Depth to bottom of well (ft)	29.3	29.3	29
Volume of water in well (gal)	1.05	1.11	0.98
Volume to be purged (4x vol. in well)	4.22	4.44	3.91
Time purging begun	11:40	10:42	12:05
Time purging completed	11:50	10:55	12:15
Purged dry? (Y/N)	Yes	Yes	Yes
Time sample withdrawn	11:55	10:58	12:20
Field temperature (°C)			
Field conductivity (uncorrected)			
Field conductivity (at 25°C)			
Time conductivity measured			
Field pH (std. units)			
Time pH measured			
Color (Y/N)	No	No	No
Odor (Y/N)	No	No	No
Turbidity (Y/N)	No	No	No
Sample field filtered? (Y/N)	No	No	No
Time filtered			
Dissolved Oxygen			
Dissolved Oxygen %			
Well cap and lock replaced? (Y/N)	Yes	Yes	Yes

APPENDIX 4
HANDBOOK OF FIELD PROCEDURES

HANDBOOK OF FIELD PROCEDURES

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PERSONNEL QUALIFICATIONS

- Kenneth E. Hawk** - Completed 40-hour hazardous waste training.
Bachelors Degree in Geology from University of Wisconsin-Oshkosh.
Masters Degree in Environmental Science from University of Wisconsin-Green Bay.
Licensed Professional Geologist (no. 197), State of Wisconsin
Certified Site Assessor-01660.
- Don Brittnacher** - Completed 40-hour hazardous waste training.
Bachelors Degree in Geology from University of Notre Dame.
Masters Degree in Environmental Health Engineering from University of Notre Dame.
Licensed Professional Geologist (no. 462), State of Wisconsin
Licensed Professional Engineer (no. 30286), State of Wisconsin
Certified Site Assessor-01658.
- David L. Fries** - Completed 40-hour hazardous waste training.
Bachelors Degree in Geology from Lawrence University, Appleton, WI.
Masters Degree in Environmental Science from University of Wisconsin-Green Bay.
Licensed Professional Geologist (no. 192), State of Wisconsin
Certified Site Assessor-01662.
Certified Hazardous Materials Manager (no. 10226)
- Bill Endter** - Completed 40-hour hazardous waste training.
Associate Degree in Natural Resource Technology from Fox Valley Technical College.
- Deanna Drum** - Completed 40-hour hazardous waste training.
Associate Degree in Mechanical Design, Fox Valley Technical College.

SOIL BORING INSTALLATION PROCEDURES

A number of different drilling and geoprobng firms are used for environmental investigations. Borings intended to be converted to monitoring wells are advanced using 7 5/8" O.D. x 4 1/2" I.D. hollow stem augers or 6 1/4" O.D. solid stem augers powered by a truck-mounted drill rig. If bedrock drilling is required, borings are advanced using either air or mud-rotary drilling techniques. Soil borings not intended for monitoring wells are typically advanced using 4" O.D. solid stem augers. The geoprobe typically advances a 2" diameter hole. All soil borings that are not converted to permanent or temporary groundwater monitoring wells are properly abandoned per NR 141.

Samples are typically obtained from each boring at 2.5' intervals by split-spoon sampling according to ASTM D-1586. A portion of each sample is screened with a photoionization detector (PID). At each sampling interval, a representative portion of the soil is also collected for possible laboratory analysis. Soil samples are chosen from each boring for laboratory analysis based on headspace screening data, and visual and olfactory observations. In general, the sample from each boring that exhibits the highest PID reading is chosen for analysis. See the Soil Sampling Procedures below, for further information pertaining to field headspace analysis and sample collection procedures.

SOIL SAMPLING PROCEDURES

All soil sampling is performed in accordance with DNR PUBL-SW-127, Soil Sampling Requirements for LUST Site Investigations and Excavations and DILHR ch. 10, Flammable and Combustible Liquids. The soil samples are collected and analyzed in accordance with DNR PUBL-SW-130 92REV, LUST Analytical Guidance, July, 1993. Our standard instruments and sample collection procedures are as follows:

1. Soil samples are collected from a split-spoon sampler during environmental drilling.
2. Sample collector wears new latex exam gloves when collecting samples to decrease the risk of personal exposure and cross contamination.
3. A portion of the sample is collected in a sampling syringe and placed in new glass 40 ml vials, or new glass 2 oz jars, and immediately placed on ice, and later delivered to the laboratory for analysis. This procedure will be discussed in more detail later in this report. (See Table 1.)
4. The remaining portion of the sample is placed in a clean 4 oz. jar (approx. 1/2 filled), and sealed with aluminum foil and a teflon-lined lid. The headspace sample is then agitated for a minimum of 30 seconds and then allowed to equilibrate. Minimum equilibration time will correspond to the following specifications:

Minimum Sample Headspace Equilibration Time

Ambient Outside Air Temperature at the Time of Sample Collection	Minimum Amount of Time Sample Must Equilibrate at 70° F or Greater Temperature
< 40 F	40 min.
41 - 55 F	20 min.
56 - 69 F	10 min.
> 70	5 min.

INSTRUMENT SPECIFICATIONS

When the sample has completed equilibration, it is promptly field analyzed with a portable photoionization detector (PID). OMNNI uses either a Photovac Inc. Microtip HL-200 or ML-1000 or a Thermo Environmental Instruments Model 580A OVM, both equipped with an 11.2 ev lamp. A background reading is first taken. The PID probe is then inserted into the jar through a single hole in the aluminum foil. The instrument reading is measured at one-half the distance between the foil seal and the sample surface. The measured reading is then recorded.

Isobutylene at a concentration of 100 ppm is used for field calibration gas. The PID meter is field calibrated at the following times:

- At the beginning of each day
 - After any significant change in temperature or humidity
 - Every three hours
 - After any repairs to the instrument are performed
5. All samples are returned to the laboratory as soon as possible, usually the day the sample was collected. All samples are returned to the lab with a chain-of-custody form, form #4400-151. Time of sample collection and sample PID reading are listed. Care is taken to ensure that the chain-of-custody form is properly and fully completed before submitting to the laboratory.
 6. The samples are sent to a laboratory certified by the Wisconsin Department of Natural Resources.
 7. Table 2 on page 9 outlines the required DNR laboratory analysis for specific UST contaminants.

Soil analyses, other than those in Table 2, will be conducted in accordance with methods approved by the DNR.

MONITORING WELL INSTALLATION AND DEVELOPMENT PROCEDURES

The permanent monitoring wells are typically constructed of two-inch, schedule 40, flush-thread PVC casings and well screens. Temporary wells are one-inch diameter, schedule 40 casings and screens. Prior to use, well parts are individually wrapped in plastic.

Permanent wells are installed and developed according to NR 141, DNR Groundwater Monitoring Well Requirements. The monitoring wells are installed with five to fifteen-foot screens which are placed in the borings to intersect the water table. Piezometers are installed with five-foot screens sealed beneath the water table. Filter pack and annular space seal material are installed by gravity as the augers are withdrawn from the hole. Wells are cut to the required height using a PVC pipe cutter.

An as-constructed well and boring survey is performed by OMNNI once field work is complete. Elevations are either based on a local datum of 100 feet, or a U.S.G.S. elevation, assigned to a mark on a reference point located at the site. Ground elevation is surveyed to the nearest 0.1 foot, and the top of the well casing to the nearest 0.01 foot.

A horizontal grid system is established at the site with the origin of the grid set on the reference point. Wells and borings are located with respect to this grid system.

To properly develop each permanent monitoring well, water is removed until a consistent water quality is obtained. This is done by removing 10 times the water volume in the well and filter pack, removing water until it is free of sediment, or removing the water until the well is purged dry. Water is removed from the wells by bailing the water with as little agitation as possible. If the water level is unaffected by bailing and large amounts of water are to be removed, the well is developed by using the surge and purge method with a Red Lion centrifugal pump. No water is added to the well during development. Temporary wells are typically developed by allowing the peristaltic pump to run until the water is as clear as possible.

The development water is barrelled, pending the results of analytical testing. If the well is suspected to be clean and small volumes of water are to be removed, the water may be spread on pavement to volatilize any possible contaminants.

GROUNDWATER SAMPLING PROCEDURES AND V.O.C. SAMPLING NOTES

A. Devices used to measure water elevation, purge wells and retrieve samples:

1. Groundwater levels are measured with a fiberglass reel tape with a weighted stainless steel "sounder" at the end.
2. In wells that have free product on top of the water surface, depth to water and depth to product are measured with a fiberglass reel tape with an interface probe at the end.
3. Wells are purged and samples are collected by one of the following methods:
 - a) Wells are purged with a Voss disposable bailer.
 - b) Alternate purging and sampling equipment consists of a peristaltic groundwater sampling pump.

B. Procedures for calculating purge volumes, purging wells and sampling:

1. Wells are normally sampled starting from the upgradient area and progressing toward the downgradient area of the site. When the degree of contamination is known, least contaminated wells are sampled first, the more contaminated wells sampled last.
2. All the wells are opened before the depth to groundwater is determined.
3. Wells are purged by removing four water volumes within a casing or all the water until the well runs dry.
4. Once all the wells have been purged, the samples are drawn using equipment mentioned above. (See Table 3 - Water Sample Preparation Guide)
5. Sample, odor, turbidity, temperature, conductivity and pH are determined on the unfiltered portions of the sample and recorded on the well specific field sheet.
6. When the sample requires filtering, the sample is filtered with an in-line pump (as soon after collection as possible).
7. Quality Assurance/Quality Control Samples
 - a) Trip and field blanks will consist of three new 40 ml vials filled with deionized water. These are sent to the laboratory for (P)VOC analysis. If no field contamination has occurred, these samples will have no detectable (P)VOCs.
 - b) One trip blank should be analyzed for every 10 samples collected. At least one trip blank is taken per site visit. Trip blanks are poured, labeled, and sealed, then taken out in the field. Trip blanks are kept with all samples collected until reaching the field.
 - c) Field blanks are used if the bailers are not dedicated to a specific well. If there is a possibility for field cross-contamination of samples, field blanks may also be taken at the sample collector's discretion.
 - d) One temperature blank is collected per batch of samples.
 - e) One duplicate sample is collected with every 10 samples.
8. Samples are refrigerated, then transported to a state certified laboratory for testing as soon as possible.
9. A chain-of-custody will be filled out listing all samples collected, requested laboratory analysis, date and time of collection, and the name of the sample collector. This document will remain with the samples at all times and bear the names of all persons handling the samples until the samples are received by the laboratory.

C. Procedures for cleaning equipment:

1. In the field, sampling equipment is rinsed with a 10% methanol solution and then flushed three times with deionized water between each well sampled.

2. Equipment that is still contaminated after field cleaning will be rinsed with tap water, washed off with detergent, rinsed with a 10% methanol solution, and flushed three times with deionized water.
- D. Transporting samples to lab:
1. Filtered, preserved, labelled, and sealed samples are iced and transported to the lab for analysis as soon as possible.
 2. The laboratory will be notified by the sample collector when courier service is required.
- E. The above procedures constitute normal groundwater sampling procedures for permanent groundwater monitoring wells. Modifications to each of the outlined items may be applicable for site specific conditions or special volatile organic sampling considerations. Methods used are consistent with WDNR "Groundwater Sampling Procedures Guidelines" Publ. WR-153, February, 1987.

DECONTAMINATION PROCEDURES

Decontamination is the process of removing and/or neutralizing contaminants that may have accumulated on PPE (personnel protective equipment) and equipment. Proper decontamination is a critical element in the control of hazards which helps ensure the health and safety of workers. Proper decontamination also contains the contamination to the site, thus preventing further environmental problems.

Drilling

The following decontamination procedures should be used when completing borings, installing monitoring wells, and/or installing remediation systems.

- A. Between samples, the split spoon will be cleaned in a multiple rinse, surfactant solution (soap and water or Alconox solution.)
- B. The sample will be collected while wearing new latex exam gloves.
- C. The surface upon which the sample is collected will be cleaned between samples.
- D. The latex exam gloves will be changed between samples.
- E. Soil which has accumulated around the boring will either be stockpiled or barreled. If the soil is stockpiled, it will be placed on and covered with visqueen. The stockpiled or barreled soil will later be disposed of in compliance with the DNR regulations.
- F. Upon completion of the boring, the augers will be decontaminated before they are used again. The following procedures will be followed when decontaminating drilling equipment:
 1. A decontamination basin lined with plastic (visqueen) is set up near the work area.

2. All contaminated equipment is placed in the decontamination basin.
3. A pressurized steam cleaner is used to clean all contaminated equipment.
4. Following steam cleaning, the auger is removed from the decontamination basin.
5. Upon completion of the job, the accumulated water in the decontamination basin is pumped out and placed in a barrel. Wash water used for cleaning the split spoons is also added to the barrel. The barrel will be disposed of in compliance with all regulatory agencies.
6. The visqueen used in the decontamination basin is disposed of in compliance with all regulatory agencies.

Table 1
SOIL SAMPLE PREPARATION GUIDE*

TEST	CONTAINER SIZE**	SAMPLE SIZE	PRESERVATIVE	HOLDING TIME
GRO Gasoline Range Organics	2 oz. wide mouth jar or 40 ml vial (2 per sample)	25 g	25 ml Methanol (purge and trap grade)	4 days
DRO Diesel Range Organics	2 oz. wide mouth jar or 40 ml vial (2 per sample)	25 g	None	4 days
Total Lead/ Total Cadmium	4 oz. wide mouth jar (2 per sample)	4 oz.	None	6 months
VOC / PVOC Volatile Organic Compounds	2 oz. wide mouth jar or 40 ml vial (2 per sample)	25 g	25 ml Methanol (purge and trap grade)	4 days
PCB Polychlorinated Biphenyls	4 oz. wide mouth jar (2 per sample)	4 oz.	None	14 days
PAH Polynuclear Aromatic Hydrocarbons	4 oz. wide mouth jar (2 per sample)	4 oz.	None	14 days

* All samples will be sealed, labeled, and placed on ice immediately after collection.

** To ensure a proper seal between the sample container and the cap, no soil shall remain on the jar or cap threads. When samples are collected with the syringe, a 40 ml vial is used and the sample is preserved in the lab.

Table 2
SOIL SAMPLE ANALYSIS GUIDE FOR PETROLEUM CONTAMINATION

PETROLEUM SUBSTANCE	CLOSURE ASSESSMENT	SOLID WASTE PRO./LANDFILLS	SITE INVESTIGATIONS
Gasoline Aviation Fuel	GRO	Free Liquids GRO Benzene Haz. Waste Det.	GRO PVOC/VOC Pb
Diesel Jet Fuel No. 's 1, 2, 4 Fuel Oil	DRO	Free Liquids GRO Benzene Haz. Waste Det.	DRO PVOC PAH
Crude Oil Lubricat. Oil No. 6 Fuel Oil	DRO	Free Liquids DRO Haz. Waste Det.	DRO PAH
Unknown Petroleum	GRO and DRO	Free Liquids GRO and DRO Pb, Cd, CH S Haz Waste Det.	GRO and DRO VOC/PVOC PAH Pb, Cd
Waste Oil	DRO	Free Liquids DRO VOC Pb, Cd, CH S Haz. Waste Det.	DRO VOC/PVOC PAH PCB Pb, Cd

**Table 3
WATER SAMPLE PREPARATION GUIDE ***

TEST	SAMPLE SIZE / CONTAINER	PRESERVATIVE	HOLDING TIME
VOC / PVOC Volatile Organic Compounds	3 - 40 ml vials filled with no headspace	0.5 ml of 1:1 HCl	14 days
DRO Diesel Range Organics	1 - 1 liter amber glass bottles	5 ml of 1:1 HCl	7 days
GRO Gasoline Range Organics	3 - 40 ml vials filled with no headspace	0.5 ml of 1:1 HCl	14 days
PAH Polynuclear Aromatic Hydrocarbons	1 - 1 liter amber glass bottles	None	7 days
PCB Polychlorinated Biphenyls	1 - 1 liter amber glass bottle	None	7 days
LEAD / CADMIUM metals **	1 - 250 ml plastic bottle	2 ml of HNO ₃ or to a pH of <2	6 months

* All samples will be sealed, labeled, and placed on ice immediately after collection.

** When testing for dissolved metals, the sample will be field filtered before preservation.

APPENDIX 5

LABORATORY ANALYSIS RESULTS AND CHAIN OF CUSTODY DOCUMENTATION

U.S. Analytical Lab

RECEIVED
 NOV 16 2000
 OMNI ASSOCIATES

DAVE FRIES
 OMNI ASSOCIATES INC
 ONE SYSTEMS DRIVE
 APPLETON WI 54914-1654

Project # N1556A99
 Project Name MALCHOW PROPERTY
 Invoice # E31313

Report Date 10-Nov-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5031313A								Sample Type Water	
Sample ID TRIP								Sample Date 11/2/00	

Organic

VOC's

Benzene	< 0.39	ug/l	0.39	1.3	1	11/3/00	8021A	CAH	1
Bromobenzene	< 0.39	ug/l	0.39	1.3	1	11/3/00	8021A	CAH	1
Bromodichloromethane	< 0.38	ug/l	0.38	1.3	1	11/3/00	8021A	CAH	1
tert-Butylbenzene	< 0.44	ug/l	0.44	1.5	1	11/3/00	8021A	CAH	1
sec-Butylbenzene	< 0.48	ug/l	0.48	1.6	1	11/3/00	8021A	CAH	1
n-Butylbenzene	< 0.43	ug/l	0.43	1.4	1	11/3/00	8021A	CAH	1
Carbon Tetrachloride	< 0.55	ug/l	0.55	1.8	1	11/3/00	8021A	CAH	1
Chlorobenzene	< 0.4	ug/l	0.4	1.3	1	11/3/00	8021A	CAH	1
Chloroethane	< 0.15	ug/l	0.15	0.48	1	11/3/00	8021A	CAH	1
Chloroform	< 0.38	ug/l	0.38	1.3	1	11/3/00	8021A	CAH	1
Chloromethane	< 1.1	ug/l	1.1	3.5	1	11/3/00	8021A	CAH	4
2-Chlorotoluene	< 0.47	ug/l	0.47	1.5	1	11/3/00	8021A	CAH	1
4-Chlorotoluene	< 0.44	ug/l	0.44	1.5	1	11/3/00	8021A	CAH	1
1,2-Dibromo-3-chloropropane	< 0.67	ug/l	0.67	2.2	1	11/3/00	8021A	CAH	1
Dibromochloromethane	< 0.5	ug/l	0.5	1.7	1	11/3/00	8021A	CAH	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.4	1	11/3/00	8021A	CAH	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.5	1	11/3/00	8021A	CAH	1
1,2-Dichlorobenzene	< 0.44	ug/l	0.44	1.5	1	11/3/00	8021A	CAH	1
Dichlorodifluoromethane	< 0.37	ug/l	0.37	1.2	1	11/3/00	8021A	CAH	2 3 4
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.2	1	11/3/00	8021A	CAH	1
1,1-Dichloroethane	< 0.35	ug/l	0.35	1.2	1	11/3/00	8021A	CAH	1
1,1-Dichloroethene	< 0.66	ug/l	0.66	2.2	1	11/3/00	8021A	CAH	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	11/3/00	8021A	CAH	1
trans-1,2-Dichloroethene	< 0.43	ug/l	0.43	1.4	1	11/3/00	8021A	CAH	1
1,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	1	11/3/00	8021A	CAH	1
2,2-Dichloropropane	< 0.59	ug/l	0.59	2	1	11/3/00	8021A	CAH	1
Di-isopropyl ether	< 0.37	ug/l	0.37	1.2	1	11/3/00	8021A	CAH	4
EDB (1,2-Dibromoethane)	< 0.65	ug/l	0.65	2.2	1	11/3/00	8021A	CAH	1
Ethylbenzene	< 0.4	ug/l	0.4	1.3	1	11/3/00	8021A	CAH	1
Hexachlorobutadiene	< 0.62	ug/l	0.62	2.1	1	11/3/00	8021A	CAH	1
Isopropylbenzene	< 0.38	ug/l	0.38	1.3	1	11/3/00	8021A	CAH	1
p-Isopropyltoluene	< 0.44	ug/l	0.44	1.5	1	11/3/00	8021A	CAH	1
Methylene chloride	< 0.57	ug/l	0.57	1.9	1	11/3/00	8021A	CAH	1
MTBE	< 0.47	ug/l	0.47	1.6	1	11/3/00	8021A	CAH	1

U.S. Analytical Lab

DAVE FRIES
 OMNI ASSOCIATES INC
 ONE SYSTEMS DRIVE
 APPLETON WI 54914-1654

Project # N1556A99
 Project Name MALCHOW PROPERTY
 Invoice # E31313

Report Date 10-Nov-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5031313A						Sample Type	Water		
Sample ID TRIP						Sample Date	11/2/00		
Naphthalene	< 0.53	ug/l	0.53	1.8	1	11/3/00	8021A	CAH	1
n-Propylbenzene	< 0.42	ug/l	0.42	1.4	1	11/3/00	8021A	CAH	1
1,1,2,2-Tetrachloroethane	< 0.68	ug/l	0.68	2.3	1	11/3/00	8021A	CAH	1
1,3-DCP, Tetrachloroethene	< 0.93	ug/l	0.93	3.1	1	11/3/00	8021A	CAH	1
Tetrachloroethene	< 0.34	ug/l	0.34	1.1	1	11/3/00	8021A	CAH	1
Toluene	< 0.37	ug/l	0.37	1.2	1	11/3/00	8021A	CAH	1
1,2,4-Trichlorobenzene	< 0.6	ug/l	0.6	2	1	11/3/00	8021A	CAH	1
1,2,3-Trichlorobenzene	< 0.49	ug/l	0.49	1.6	1	11/3/00	8021A	CAH	1
1,1,1-Trichloroethane	< 0.54	ug/l	0.54	1.8	1	11/3/00	8021A	CAH	1
1,1,2-Trichloroethane	< 0.46	ug/l	0.46	1.5	1	11/3/00	8021A	CAH	1
Trichloroethene	< 0.46	ug/l	0.46	1.5	1	11/3/00	8021A	CAH	1
Trichlorofluoromethane	< 0.62	ug/l	0.62	2.1	1	11/3/00	8021A	CAH	1
1,2,4-Trimethylbenzene	< 0.4	ug/l	0.4	1.3	1	11/3/00	8021A	CAH	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2.1	1	11/3/00	8021A	CAH	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.6	1	11/3/00	8021A	CAH	4
m&p-Xylene	< 0.79	ug/l	0.79	2.6	1	11/3/00	8021A	CAH	1
o-Xylene	< 0.64	ug/l	0.64	2.1	1	11/3/00	8021A	CAH	1

Lab Code 5031313B						Sample Type	Water		
Sample ID SP 2						Sample Date	11/2/00		

Organic

VOC's

Benzene	< 0.39	ug/l	0.39	1.3	1	11/7/00	8021A	CAH	1
Bromobenzene	< 0.39	ug/l	0.39	1.3	1	11/7/00	8021A	CAH	1
Bromodichloromethane	< 0.38	ug/l	0.38	1.3	1	11/7/00	8021A	CAH	1
tert-Butylbenzene	< 0.44	ug/l	0.44	1.5	1	11/7/00	8021A	CAH	1
sec-Butylbenzene	< 0.48	ug/l	0.48	1.6	1	11/7/00	8021A	CAH	1
n-Butylbenzene	< 0.43	ug/l	0.43	1.4	1	11/7/00	8021A	CAH	1
Carbón Tetrachloride	< 0.55	ug/l	0.55	1.8	1	11/7/00	8021A	CAH	1
Chlorobenzene	< 0.4	ug/l	0.4	1.3	1	11/7/00	8021A	CAH	1
Chloroethane	< 0.15	ug/l	0.15	0.48	1	11/7/00	8021A	CAH	1
Chloroform	< 0.38	ug/l	0.38	1.3	1	11/7/00	8021A	CAH	1
Chloromethane	< 1.1	ug/l	1.1	3.5	1	11/7/00	8021A	CAH	2 3 4
2-Chlorotoluene	< 0.47	ug/l	0.47	1.5	1	11/7/00	8021A	CAH	1
4-Chlorotoluene	< 0.44	ug/l	0.44	1.5	1	11/7/00	8021A	CAH	1
1,2-Dibromo-3-chloropropane	< 0.67	ug/l	0.67	2.2	1	11/7/00	8021A	CAH	1

U.S. Analytical Lab

DAVE FRIES
 OMNI ASSOCIATES INC
 ONE SYSTEMS DRIVE
 APPLETON WI 54914-1654

Project # N1556A99
 Project Name MALCHOW PROPERTY
 Invoice # E31313

Report Date 10-Nov-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5031313B							Sample Type Water		
Sample ID SP 2						Sample Date 11/2/00			
Dibromochloromethane	< 0.5	ug/l	0.5	1.7	1	11/7/00	8021A	CAH	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.4	1	11/7/00	8021A	CAH	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.5	1	11/7/00	8021A	CAH	1
1,2-Dichlorobenzene	< 0.44	ug/l	0.44	1.5	1	11/7/00	8021A	CAH	1
Dichlorodifluoromethane	< 0.37	ug/l	0.37	1.2	1	11/7/00	8021A	CAH	4
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.2	1	11/7/00	8021A	CAH	1
1,1-Dichloroethane	< 0.35	ug/l	0.35	1.2	1	11/7/00	8021A	CAH	1
1,1-Dichloroethene	< 0.66	ug/l	0.66	2.2	1	11/7/00	8021A	CAH	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	11/7/00	8021A	CAH	1
trans-1,2-Dichloroethene	< 0.43	ug/l	0.43	1.4	1	11/7/00	8021A	CAH	2
1,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	1	11/7/00	8021A	CAH	1
2,2-Dichloropropane	< 0.59	ug/l	0.59	2	1	11/7/00	8021A	CAH	1
Di-isopropyl ether	< 0.37	ug/l	0.37	1.2	1	11/7/00	8021A	CAH	4
EDB (1,2-Dibromoethane)	< 0.65	ug/l	0.65	2.2	1	11/7/00	8021A	CAH	1
Ethylbenzene	< 0.4	ug/l	0.4	1.3	1	11/7/00	8021A	CAH	1
Hexachlorobutadiene	< 0.62	ug/l	0.62	2.1	1	11/7/00	8021A	CAH	1
Isopropylbenzene	< 0.38	ug/l	0.38	1.3	1	11/7/00	8021A	CAH	1
p-Isopropyltoluene	< 0.44	ug/l	0.44	1.5	1	11/7/00	8021A	CAH	1
Methylene chloride	< 0.57	ug/l	0.57	1.9	1	11/7/00	8021A	CAH	1
MTBE	< 0.47	ug/l	0.47	1.6	1	11/7/00	8021A	CAH	1
Naphthalene	< 0.53	ug/l	0.53	1.8	1	11/7/00	8021A	CAH	1
n-Propylbenzene	< 0.42	ug/l	0.42	1.4	1	11/7/00	8021A	CAH	1
1,1,2,2-Tetrachloroethane	< 0.68	ug/l	0.68	2.3	1	11/7/00	8021A	CAH	1
1,3-DCP, Tetrachloroethene	< 0.93	ug/l	0.93	3.1	1	11/7/00	8021A	CAH	1
Tetrachloroethene	0.67 "J"	ug/l	0.34	1.1	1	11/7/00	8021A	CAH	1
Toluene	< 0.37	ug/l	0.37	1.2	1	11/7/00	8021A	CAH	1
1,2,4-Trichlorobenzene	< 0.6	ug/l	0.6	2	1	11/7/00	8021A	CAH	4
1,2,3-Trichlorobenzene	< 0.49	ug/l	0.49	1.6	1	11/7/00	8021A	CAH	1
1,1,1-Trichloroethane	< 0.54	ug/l	0.54	1.8	1	11/7/00	8021A	CAH	1
1,1,2-Trichloroethane	< 0.46	ug/l	0.46	1.5	1	11/7/00	8021A	CAH	1
Trichloroethene	< 0.46	ug/l	0.46	1.5	1	11/7/00	8021A	CAH	1
Trichlorofluoromethane	< 0.62	ug/l	0.62	2.1	1	11/7/00	8021A	CAH	4
1,2,4-Trimethylbenzene	< 0.4	ug/l	0.4	1.3	1	11/7/00	8021A	CAH	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2.1	1	11/7/00	8021A	CAH	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.6	1	11/7/00	8021A	CAH	1
m&p-Xylene	< 0.79	ug/l	0.79	2.6	1	11/7/00	8021A	CAH	1
o-Xylene	< 0.64	ug/l	0.64	2.1	1	11/7/00	8021A	CAH	1

U.S. Analytical Lab

DAVE FRIES
 OMNI ASSOCIATES INC
 ONE SYSTEMS DRIVE
 APPLETON WI 54914-1654

Project # N1556A99
 Project Name MALCHOW PROPERTY
 Invoice # E31313

Report Date 10-Nov-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code	
Lab Code	5031313C					Sample Type	Water			
Sample ID	SP 1					Sample Date	11/2/00			

Organic

VOC's

Benzene	< 0.39	ug/l	0.39	1.3	1	11/7/00	8021A	CAH	1
Bromobenzene	< 0.39	ug/l	0.39	1.3	1	11/7/00	8021A	CAH	1
Bromodichloromethane	< 0.38	ug/l	0.38	1.3	1	11/7/00	8021A	CAH	1
tert-Butylbenzene	< 0.44	ug/l	0.44	1.5	1	11/7/00	8021A	CAH	1
sec-Butylbenzene	< 0.48	ug/l	0.48	1.6	1	11/7/00	8021A	CAH	1
n-Butylbenzene	2.5	ug/l	0.43	1.4	1	11/7/00	8021A	CAH	1
Carbon Tetrachloride	< 0.55	ug/l	0.55	1.8	1	11/7/00	8021A	CAH	1
Chlorobenzene	< 0.4	ug/l	0.4	1.3	1	11/7/00	8021A	CAH	1
Chloroethane	< 0.15	ug/l	0.15	0.48	1	11/7/00	8021A	CAH	1
Chloroform	< 0.38	ug/l	0.38	1.3	1	11/7/00	8021A	CAH	1
Chloromethane	< 1.1	ug/l	1.1	3.5	1	11/7/00	8021A	CAH	2 3 4
2-Chlorotoluene	< 0.47	ug/l	0.47	1.5	1	11/7/00	8021A	CAH	1
4-Chlorotoluene	< 0.44	ug/l	0.44	1.5	1	11/7/00	8021A	CAH	1
1,2-Dibromo-3-chloropropane	< 0.67	ug/l	0.67	2.2	1	11/7/00	8021A	CAH	1
Dibromochloromethane	< 0.5	ug/l	0.5	1.7	1	11/7/00	8021A	CAH	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.4	1	11/7/00	8021A	CAH	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.5	1	11/7/00	8021A	CAH	1
1,2-Dichlorobenzene	< 0.44	ug/l	0.44	1.5	1	11/7/00	8021A	CAH	1
Dichlorodifluoromethane	< 0.37	ug/l	0.37	1.2	1	11/7/00	8021A	CAH	4
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.2	1	11/7/00	8021A	CAH	1
1,1-Dichloroethane	< 0.35	ug/l	0.35	1.2	1	11/7/00	8021A	CAH	1
1,1-Dichloroethene	< 0.66	ug/l	0.66	2.2	1	11/7/00	8021A	CAH	1
cis-1,2-Dichloroethene	1.3	ug/l	0.37	1.2	1	11/7/00	8021A	CAH	1
trans-1,2-Dichloroethene	< 0.43	ug/l	0.43	1.4	1	11/7/00	8021A	CAH	2
1,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	1	11/7/00	8021A	CAH	1
2,2-Dichloropropane	< 0.59	ug/l	0.59	2	1	11/7/00	8021A	CAH	1
Di-isopropyl ether	< 0.37	ug/l	0.37	1.2	1	11/7/00	8021A	CAH	4
EDB (1,2-Dibromoethane)	< 0.65	ug/l	0.65	2.2	1	11/7/00	8021A	CAH	1
Ethylbenzene	< 0.4	ug/l	0.4	1.3	1	11/7/00	8021A	CAH	1
Hexachlorobutadiene	< 0.62	ug/l	0.62	2.1	1	11/7/00	8021A	CAH	1
Isopropylbenzene	< 0.38	ug/l	0.38	1.3	1	11/7/00	8021A	CAH	1
p-Isopropyltoluene	< 0.44	ug/l	0.44	1.5	1	11/7/00	8021A	CAH	1
Methylene chloride	< 0.57	ug/l	0.57	1.9	1	11/7/00	8021A	CAH	1
MTBE	< 0.47	ug/l	0.47	1.6	1	11/7/00	8021A	CAH	1

U.S. Analytical Lab

DAVE FRIES
 OMNNI ASSOCIATES INC
 ONE SYSTEMS DRIVE
 APPLETON WI 54914-1654

Project # N1556A99
 Project Name MALCHOW PROPERTY
 Invoice # E31313

Report Date 10-Nov-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5031313C							Sample Type Water		
Sample ID SP 1							Sample Date 11/2/00		
Naphthalene	< 0.53	ug/l	0.53	1.8	1	11/7/00	8021A	CAH	1
n-Propylbenzene	< 0.42	ug/l	0.42	1.4	1	11/7/00	8021A	CAH	1
1,1,2,2-Tetrachloroethane	< 0.68	ug/l	0.68	2.3	1	11/7/00	8021A	CAH	1
1,3-DCP, Tetrachloroethene	< 0.93	ug/l	0.93	3.1	1	11/7/00	8021A	CAH	1
Tetrachloroethene	< 0.34	ug/l	0.34	1.1	1	11/7/00	8021A	CAH	1
Toluene	< 0.37	ug/l	0.37	1.2	1	11/7/00	8021A	CAH	1
1,2,4-Trichlorobenzene	< 0.6	ug/l	0.6	2	1	11/7/00	8021A	CAH	4
1,2,3-Trichlorobenzene	< 0.49	ug/l	0.49	1.6	1	11/7/00	8021A	CAH	1
1,1,1-Trichloroethane	< 0.54	ug/l	0.54	1.8	1	11/7/00	8021A	CAH	1
1,1,2-Trichloroethane	< 0.46	ug/l	0.46	1.5	1	11/7/00	8021A	CAH	1
Trichloroethene	< 0.46	ug/l	0.46	1.5	1	11/7/00	8021A	CAH	1
Trichlorofluoromethane	< 0.62	ug/l	0.62	2.1	1	11/7/00	8021A	CAH	4
1,2,4-Trimethylbenzene	< 0.4	ug/l	0.4	1.3	1	11/7/00	8021A	CAH	1
1,3,5-Trimethylbenzene	2.9	ug/l	0.63	2.1	1	11/7/00	8021A	CAH	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.6	1	11/7/00	8021A	CAH	1
m&p-Xylene	< 0.79	ug/l	0.79	2.6	1	11/7/00	8021A	CAH	1
o-Xylene	0.82 "J"	ug/l	0.64	2.1	1	11/7/00	8021A	CAH	1

Lab Code 5031313D							Sample Type Water		
Sample ID SP 3							Sample Date 11/2/00		

Organic

VOC's

Benzene	< 0.39	ug/l	0.39	1.3	1	11/7/00	8021A	CAH	1
Bromobenzene	< 0.39	ug/l	0.39	1.3	1	11/7/00	8021A	CAH	1
Bromodichloromethane	< 0.38	ug/l	0.38	1.3	1	11/7/00	8021A	CAH	1
tert-Butylbenzene	< 0.44	ug/l	0.44	1.5	1	11/7/00	8021A	CAH	1
sec-Butylbenzene	< 0.48	ug/l	0.48	1.6	1	11/7/00	8021A	CAH	1
n-Butylbenzene	< 0.43	ug/l	0.43	1.4	1	11/7/00	8021A	CAH	1
Carbon Tetrachloride	< 0.55	ug/l	0.55	1.8	1	11/7/00	8021A	CAH	1
Chlorobenzene	< 0.4	ug/l	0.4	1.3	1	11/7/00	8021A	CAH	1
Chloroethane	< 0.15	ug/l	0.15	0.48	1	11/7/00	8021A	CAH	1
Chloroform	< 0.38	ug/l	0.38	1.3	1	11/7/00	8021A	CAH	1
Chloromethane	< 1.1	ug/l	1.1	3.5	1	11/7/00	8021A	CAH	2 3 4
2-Chlorotoluene	< 0.47	ug/l	0.47	1.5	1	11/7/00	8021A	CAH	1
4-Chlorotoluene	< 0.44	ug/l	0.44	1.5	1	11/7/00	8021A	CAH	1
1,2-Dibromo-3-chloropropane	< 0.67	ug/l	0.67	2.2	1	11/7/00	8021A	CAH	1

U.S. Analytical Lab

DAVE FRIES
 OMNI ASSOCIATES INC
 ONE SYSTEMS DRIVE
 APPLETON WI 54914-1654

Project # N1556A99
 Project Name MALCHOW PROPERTY
 Invoice # E31313

Report Date 10-Nov-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5031313D						Sample Type Water			
Sample ID SP 3						Sample Date 11/2/00			
Dibromochloromethane	< 0.5	ug/l	0.5	1.7	1	11/7/00	8021A	CAH	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.4	1	11/7/00	8021A	CAH	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.5	1	11/7/00	8021A	CAH	1
1,2-Dichlorobenzene	< 0.44	ug/l	0.44	1.5	1	11/7/00	8021A	CAH	1
Dichlorodifluoromethane	< 0.37	ug/l	0.37	1.2	1	11/7/00	8021A	CAH	4
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.2	1	11/7/00	8021A	CAH	1
1,1-Dichloroethane	< 0.35	ug/l	0.35	1.2	1	11/7/00	8021A	CAH	1
1,1-Dichloroethene	< 0.66	ug/l	0.66	2.2	1	11/7/00	8021A	CAH	1
cis-1,2-Dichloroethene	50 PA	ug/l	0.37	1.2	1	11/7/00	8021A	CAH	1
trans-1,2-Dichloroethene	0.87 "J"	ug/l	0.43	1.4	1	11/7/00	8021A	CAH	2
1,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	1	11/7/00	8021A	CAH	1
2,2-Dichloropropane	< 0.59	ug/l	0.59	2	1	11/7/00	8021A	CAH	1
Di-isopropyl ether	< 0.37	ug/l	0.37	1.2	1	11/7/00	8021A	CAH	4
EDB (1,2-Dibromoethane)	< 0.65	ug/l	0.65	2.2	1	11/7/00	8021A	CAH	1
Ethylbenzene	< 0.4	ug/l	0.4	1.3	1	11/7/00	8021A	CAH	1
Hexachlorobutadiene	< 0.62	ug/l	0.62	2.1	1	11/7/00	8021A	CAH	1
Isopropylbenzene	< 0.38	ug/l	0.38	1.3	1	11/7/00	8021A	CAH	1
p-Isopropyltoluene	< 0.44	ug/l	0.44	1.5	1	11/7/00	8021A	CAH	1
Methylene chloride	< 0.57	ug/l	0.57	1.9	1	11/7/00	8021A	CAH	1
MTBE	< 0.47	ug/l	0.47	1.6	1	11/7/00	8021A	CAH	1
Naphthalene	< 0.53	ug/l	0.53	1.8	1	11/7/00	8021A	CAH	1
n-Propylbenzene	< 0.42	ug/l	0.42	1.4	1	11/7/00	8021A	CAH	1
1,1,2,2-Tetrachloroethane	< 0.68	ug/l	0.68	2.3	1	11/7/00	8021A	CAH	1
1,3-DCP, Tetrachloroethene	< 0.93	ug/l	0.93	3.1	1	11/7/00	8021A	CAH	1
Tetrachloroethene	2.3 Y	ug/l	0.34	1.1	1	11/7/00	8021A	CAH	1
Toluene	< 0.37	ug/l	0.37	1.2	1	11/7/00	8021A	CAH	1
1,2,4-Trichlorobenzene	< 0.6	ug/l	0.6	2	1	11/7/00	8021A	CAH	4
1,2,3-Trichlorobenzene	< 0.49	ug/l	0.49	1.6	1	11/7/00	8021A	CAH	1
1,1,1-Trichloroethane	< 0.54	ug/l	0.54	1.8	1	11/7/00	8021A	CAH	1
1,1,2-Trichloroethane	< 0.46	ug/l	0.46	1.5	1	11/7/00	8021A	CAH	1
Trichloroethene	< 0.46	ug/l	0.46	1.5	1	11/7/00	8021A	CAH	1
Trichlorofluoromethane	< 0.62	ug/l	0.62	2.1	1	11/7/00	8021A	CAH	4
1,2,4-Trimethylbenzene	< 0.4	ug/l	0.4	1.3	1	11/7/00	8021A	CAH	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2.1	1	11/7/00	8021A	CAH	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.6	1	11/7/00	8021A	CAH	1
m&p-Xylene	< 0.79	ug/l	0.79	2.6	1	11/7/00	8021A	CAH	1
o-Xylene	< 0.64	ug/l	0.64	2.1	1	11/7/00	8021A	CAH	1

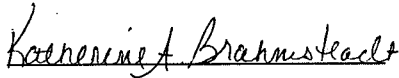
U.S. Analytical Lab

DAVE FRIES
OMNNI ASSOCIATES INC
ONE SYSTEMS DRIVE
APPLETON WI 54914-1654

Project # N1556A99
Project Name MALCHOW PROPERTY
Invoice # E31313

Report Date 10-Nov-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
LOD Limit of Detection	"J" Flag: Analyte detected between LOD and LOQ								LOQ Limit of Quantitation
	<i>Code</i>	<i>Comment</i>							
	1	All laboratory QC requirements were met for this sample.							
	2	The duplicate RPD failed to meet acceptable QC limits.							
	3	The spike recovery failed to meet acceptable QC limits.							
	4	The check standard failed to meet acceptable QC limits.							

Authorized Signature 

CHAIN OF CUSTODY RECORD



Analytical Lab

1090 Kennedy Ave. • Kimberly, WI 54136
 (920) 735-8295 • FAX 920-739-1738 • 800-490-4902
 LAB@USOIL.COM

ev. Date: 12-17-98

Chain # **№** 20820

Lab I.D. # **5031313**

Account No.: _____ Quote No.: **Q4527**

Page ____ of ____

Project #: **N1556A99** Sample Integrity - To be completed by receiving lab.
 Method of Shipment: **Client** Temp. of Temp. Blank: _____ °C On Ice:
 Sampler: (signature) **[Signature]** Cooler seal intact upon receipt: Yes _____ No Labcoded By: **[Signature]**

Project (Name / Location): **Malchow Property, 3225 W. College Ave, Appleton, WI**

Reports To: **Dave Fries** Invoice To: **D. Fries / D. Malchow** **Analysis Requested**

Company: **OMNI Assoc.** Company: **OMNI** **Sample Handling Request**

Address: **One Systems Dr.** Address: **same** _____ Rush Analysis
 Date Required _____

City State Zip: **Appleton, WI 54911** City State Zip _____ Normal Turn Around

Phone: **735-6900** Phone: _____

DRO (Mod/TPH)	GRO (Mod/TPH)	PVOC (EPA 8021)	BTEX (EPA 8021)	VOC (EPA 8021)	VOC (EPA 8260)	O&G (EPA 413.1)	PAH (EPA 8310)	Pb	Flash Point	Other Analysis	PID/FID
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Lab I.D.	Sample I.D.	Collection		No. of Containers Size and Type	Description*	Preservation	DRO (Mod/TPH)	GRO (Mod/TPH)	PVOC (EPA 8021)	BTEX (EPA 8021)	VOC (EPA 8021)	VOC (EPA 8260)	O&G (EPA 413.1)	PAH (EPA 8310)	Pb	Flash Point	Other Analysis	PID/FID	
		Date	Time																
5031313 A	trip	11/2/00	10:30	2, 40ml	g-water	HCL													
B	SP2	↓	10:58	2, 40ml	↓	↓													
C	SP1	↓	11:55	"	↓	↓													
D	SP3	↓	12:20	"	↓	↓													

Department Use Only

Split Samples: Offered? _____ Yes _____ No
 Accepted? _____ Yes _____ No

Accepted By: _____

Comments/ Special Instructions
 *Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", etc.

Department Use Optional for Soil Samples

Disposition of unused portion of sample _____

Lab Should: _____

_____ Dispose _____ Retain for _____ days
 _____ Return _____ Other

Relinquished By: (sign) **[Signature]** Time **12:45** Date **11/2/00** Received By: (sign) _____ Time _____ Date _____

Received in Laboratory By: **[Signature]** Time: **12:45** Date: **11/2/00**



ENGINEERING
ARCHITECTURE
ENVIRONMENTAL

OMNI ASSOCIATES, INC.
ONE SYSTEMS DRIVE
APPLETON, WI 54914
920-735-6900
FAX 920-830-6100