

## Mirro Plant #20 Chilton, Wisconsin

BRRTS Duplicate

## Phase II Environmental Site Assessment

August 2002

Prepared For Newell Rubbermaid Inc. Freeport, Illinois

#### THE ENVIRONMENTAL MANAGEMENT COMPANY LLC

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#### SECTION 1 GENERAL INFORMATION

#### 1.1 Client Information

Newell Rubbermaid Inc. 29 East Stephenson Freeport, Illinois 61032

Contact:

Mr. Art Garcia - Manager, Real Estate & Property

Phone:

815/235-4171

#### 1.2 Site Description

MIRRO Company Plant #20 Site 44 Walnut Street Chilton, Wisconsin 53014

Site Location

The site is located in the NE 1/4 of the NW 1/4 of Section 18, T18N, R20E, City of Chilton, Calumet County, Wisconsin (Figure 1).

#### General Description

The southwest corner of the property is occupied by a building of approximately 112,000 square feet of industrial space on two floors in a complex that has had several additions since the 1920's. The older sections of the facility are constructed with brick and steel beam supporting structures. The newer section (northern most portion) of the facility is constructed with a combination of brick and metal siding and steel beam supporting structures. Paved parking areas are located on the north and east sides of the facility. The property is located on a parcel of land approximately 5 acres in size on the east side of the Manitowoc River. Narrow grassed areas are located between the west wall of the building and the Manitowoc River, and between the south side of the building and the railroad right-of-way. An industrial/commercial property is located to the east of the building across the asphalt paved parking area. The remaining area of the site consists of grassed and naturally vegetated areas located north of the large asphalt parking lot on the north side of the building. The predominant land use of the area is a mix of commercial and industrial to the south and east and agricultural to the north and west. Figure 2 provides a site plan view.

#### 1.3 Consulting Firm and Contractor Information

#### **Consulting Firm**

THE ENVIRONMENTAL MANAGEMENT COMPANY LLC (TEMCO)
P.O. Box 856
2088 Washington Avenue
Cedarburg, WI 53012

Phone:

262-675-6000

Fax:

262-675-6170

Email:

office@temco-llc.com

#### Contractors

North Shore Drilling Inc. P.O. Box 255 Grafton, WI 53024-0255

Phone:

262-375-8121

Service:

Soil Probing

U.S. Analytical Lab 1090 Kennedy Avenue Kimberly, WI 54136

Phone:

800-490-4902

Service:

Laboratory analysis of soil samples

#### **SECTION 2**

#### **BACKGROUND INFORMATION**

#### 2.1 Site History and Land Use

The facility has been used for the manufacture of various aluminum products since the 1920's. The site was previously occupied by a saw mill dating from before 1898. Other previous processes at the facility were chrome plating which ceased in the mid 1970's and tin plating which started in the 1970's. Figure 3 shows the tin plating operation located in the southwestern corner of the first floor of the building.

The facility was expanded several times between 1920 and 1980. The Manitowoc River channel, which originally ran adjacent to the western and northern sides of the building, was re-routed to provide land for expansion on the north side of the building.

#### 2.2 Potential Contaminant Sources

The Phase I Environmental Site Assessment (ESA) of the site conducted by Envirogen, Inc. in May 2001 identified various potential soil and groundwater contaminant sources associated with former site facilities and uses:

- The former presence of three AST's which reportedly contained benzene located adjacent to the west side of the building near the southwestern corner of the building.
- Tin and chrome plating operations formerly located in the southwest corner of the first floor of the building.
- Non-specific potential releases associated with the long history of the industrial operations at the facility.

Additional potential sources of the soil and groundwater contamination include the following:

- Two mineral spirits UST's formerly located along the north exterior wall of the building near the northwestern corner and two fuel oil UST's closed in-place in the basement of the building along the north wall. Closure assessment reports for both sets of UST's, appended to the Phase I ESA, indicate clean closures based on analyses of soil samples collected from the UST basins.
- The presence of three electrical transformers located on the west side of the building near the northwest corner. The transformers bear labels indicating they contain oil with less than 50ppm PCB.
- The presence of several dust collection systems adjacent to the exterior of the building.
- Potential releases from various current and former facilities and operations in the plant which would have impacted soil and shallow groundwater beneath the plant floor, e.g. the lubricating oil pits beneath several of the hydraulic presses in the plant.

#### SECTION 3 OBJECTIVES AND SCOPE OF WORK

#### 3.1 Phase II ESA Objectives

The objectives of the Phase II ESA include:

- Characterization of on-site soil and shallow groundwater conditions.
- Verification of the presence or absence of various contaminants potentially on-site as a result of discharge from the sources described in Section 2.2.

- Development of recommendations for additional site investigation, if required.
- Evaluation of the need for site remediation considering soil and groundwater cleanup criteria and determination of the most appropriate site remediation alternative conceptual plan, and cost estimate.

#### 3.2 Scope of Work

Because all of the potential contaminant sources are located inside or adjacent to the exterior of the building, and the anticipated future use of the property is commercial/industrial redevelopment, as opposed to residential redevelopment or demolition for new construction, the soil boring and sampling plan was designed to assess conditions along the exterior walls of the building, particularly in the presumed down gradient direction i.e., west toward the Manitowoc River.

The principal elements of the Phase II ESA Scope of Work completed by TEMCO to address the objectives outlined above include:

- Development of a soil boring and sampling plan designed to assess shallow subsurface conditions and collect soil samples in areas potentially impacted by contaminant sources identified in section 2.2.
- Installation and logging of twelve geoprobe soil borings at the locations of the various potential contaminant sources around the exterior of the building. Soil borings were completed to either 8 feet bgs or 12 feet bgs dependent on the nature of the potential contaminant source.
- Collection and laboratory analysis of seventeen soil samples for the various contaminant types associated with the potential contaminant sources described in Section 2.2.
- Preparation of the Phase II ESA report, describing field activities, the laboratory analytical program and results, and interpretation of the field and laboratory data. Laboratory analytical results for the soil samples are summarized in the Tables section and laboratory analytical reports are provided as Appendix A. Site figures, including the site location, site plan, and soil boring plan, are included in the Figures section. Soil boring logs are provided as Appendix B. Soil boring abandonment forms are provided as Appendix C. Recommendations for additional site investigation and discussion of potential site remediation requirements and alternatives are provided under separate cover.

#### SECTION 4 FIELD AND LABORATORY PROGRAM

#### 4.1 Soil Borings

Prior to soil boring and sampling, on-site and near off-site utilities were located and marked. On

July 15, 2002, 12 soil borings were drilled at the locations shown in Figure 2. The borings were drilled by direct push using a truck mounted geoprobe drill rig. 2.0 inch diameter, 4 feet long hollow steel sampling tubes with plastic liners were driven in 4 foot increments by hydraulic pressure and percussion to total depths ranging from 8 feet to 12 feet bgs. TEMCO used continuous soil sampling to ensure that changes in soil type, evidence of contaminants, and groundwater conditions were observed and recorded.

Soil samples were inspected and classified according to the Unified Soil Classification System. Soil sample descriptions, evidence of contamination, and groundwater conditions are recorded on soil boring logs (WDNR Form 4400-122) prepared for each borehole, and are presented in Appendix B.

Soil borings were located by measuring from the various on-site buildings and property boundaries. Soil borings were abandoned in accordance with WAC NR141 by filling the borehole with granular bentonite from bottom to top after soil sampling was completed. Soil boring abandonment forms (WDNR Form 3300-5B) are provided in Appendix C.

#### 4.2 Soil Analyses

Soil samples selected for laboratory analysis were containerized and preserved immediately following sample collection. Sample containers were placed on ice in a cooler and transported along with a chain-of-custody document to a WDNR certified analytical laboratory.

The analytical program was designed to address the Phase II ESA objectives outlined in Section 3.1:

- Soil samples collected adjacent to the dust collection system adjacent to the west wall of the building near the southwest corner and adjacent to the location of the former chrome and tin plating operation (southwest corner of the building) were analyzed for metals.
- The soil sample collected near the three electrical transformers adjacent to the west wall of the building was analyzed for PCB.
- Soil samples collected from areas adjacent to and down gradient from the locations of current and former petroleum hydrocarbon UST's and AST's, as well as soil samples collected in the upgradient areas of the site and adjacent to current and former railroad rights-of-way were analyzed for a combination of VOC, DRO, and PAH.

#### SECTION 5 FINDINGS AND CONCLUSIONS

- The site slopes gently to the northwest, toward the Manitowoc River, which is the receptor for surface drainage and migration of shallow groundwater from the site.
- Shallow soil (0 to 12 feet bgs) at the site consists of varying mixtures of silty and sandy clay, silt

and fine sand, and silty and clayey sand and gravel. These poorly stratified deposits are part of an extensive glacial ground moraine which covers most of the Lake Michigan basin area. The shallow site soils were formed from clay till deposited by the retreating glacier and glacial melt waters, and due to the relatively high clay content, they have relatively low permeability. The ground moraine is approximately 50 feet thick in the Chilton area, and is underlain by an undifferentiated sequence of dolomite bedrock formations.

Shallow groundwater was encountered in the soil borings between 5 and 8 feet bgs. The current, seasonal static groundwater level at the site is approximately 5 feet bgs, particularly in the western part of the site toward the Manitowoc River. The seasonal high water table at the site, which typically occurs in spring, is likely several feet higher than 5 feet bgs. Site topography indicates shallow groundwater migrates north westward and discharges into the Manitowoc River.

Low level soil contamination derived primarily from petroleum hydrocarbons was found in the western part of the site. Apparent sources are the "benzene" AST's formerly located adjacent to the west exterior wall of the building near the southwest corner. These AST's most likely stored mineral spirits, as opposed to benzene, for use in degreasing, parts cleaning and/or as a spray paint carrier. Soil samples collected and analyzed from borings SB-3 (0'-4'bgs), SB-4 (0'-4'bgs, 4'-7'bgs, and 8'-12'bgs), and SB-6 (6'-7'bgs) exhibited low levels of VOC, PAH, and DRO contamination. Soil boring SB-4 is located at the site of the former AST's; SB-6 is located immediately down gradient of SB-4 on the east bank of the Manitowoc River.

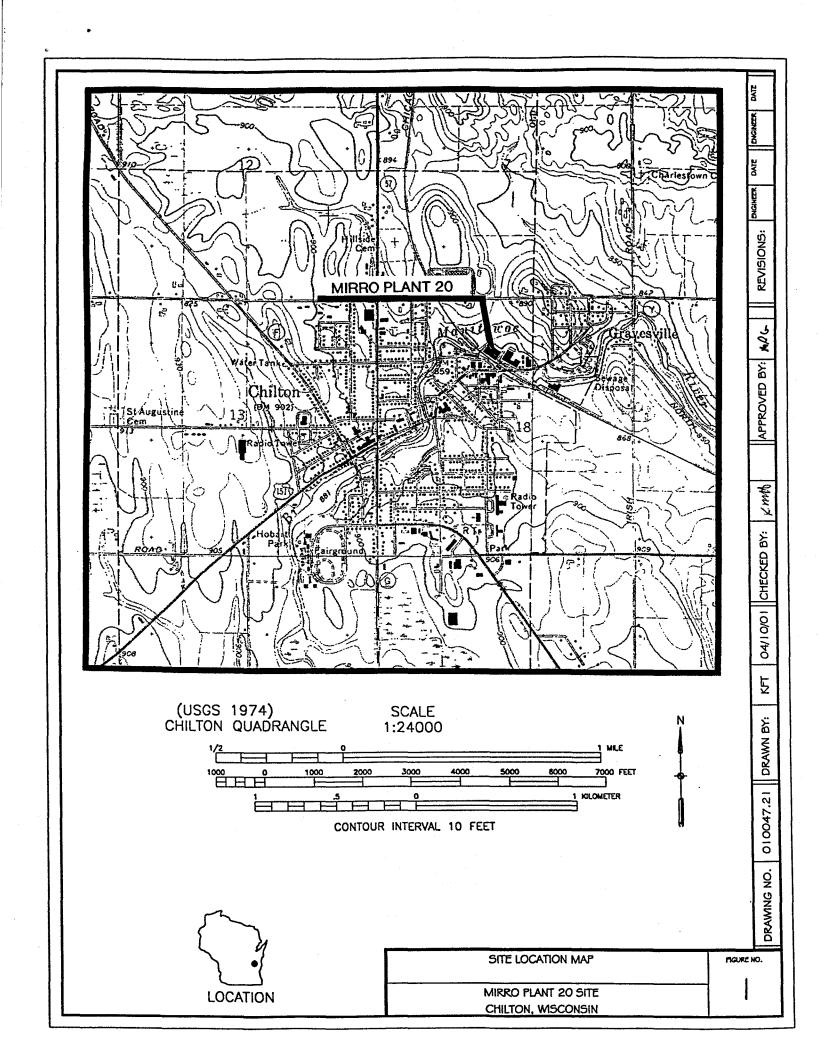
- Similar levels of soil contamination derived from petroleum hydrocarbons were detected in samples collected from soil borings SB-7 (6'-7'bgs, 10'-11'bgs) and SB-12 (5'-8'bgs). SB-7 is located at the site of two former mineral spirits UST's adjacent to the north exterior wall of the building near the northwest corner. SB-12 is located down gradient of SB-7 on the east bank of the Manitowoc River.
  - Low level detections of two chlorinated VOC occurred in soil samples collected from the borings adjacent to the southwestern exterior wall of the building:
    - Dibromochloromethane was detected at 0.25 mg/kg in the 4'-7' bgs soil sample collected from boring SB-4.
    - Trichloroethene was detected at 0.034 mg/kg in the 0'-4' bgs soil sample collected from boring SB-3.
  - PCB was not detected in the analysis of the soil sample collected from boring SB-5 (0'-4'bgs) adjacent to the three electrical transformers located adjacent to the west exterior wall of the building near the northwest corner.
  - Generally, levels of RCRA metals detected in soil samples collected and analyzed from the borings located outside the former tin and chrome plating area were elevated above apparent background levels. Levels of chromium two orders of magnitude above apparent background were detected in the two upper soil samples collected from boring SB-4 (0'-4'bgs, 4'-7'bgs).

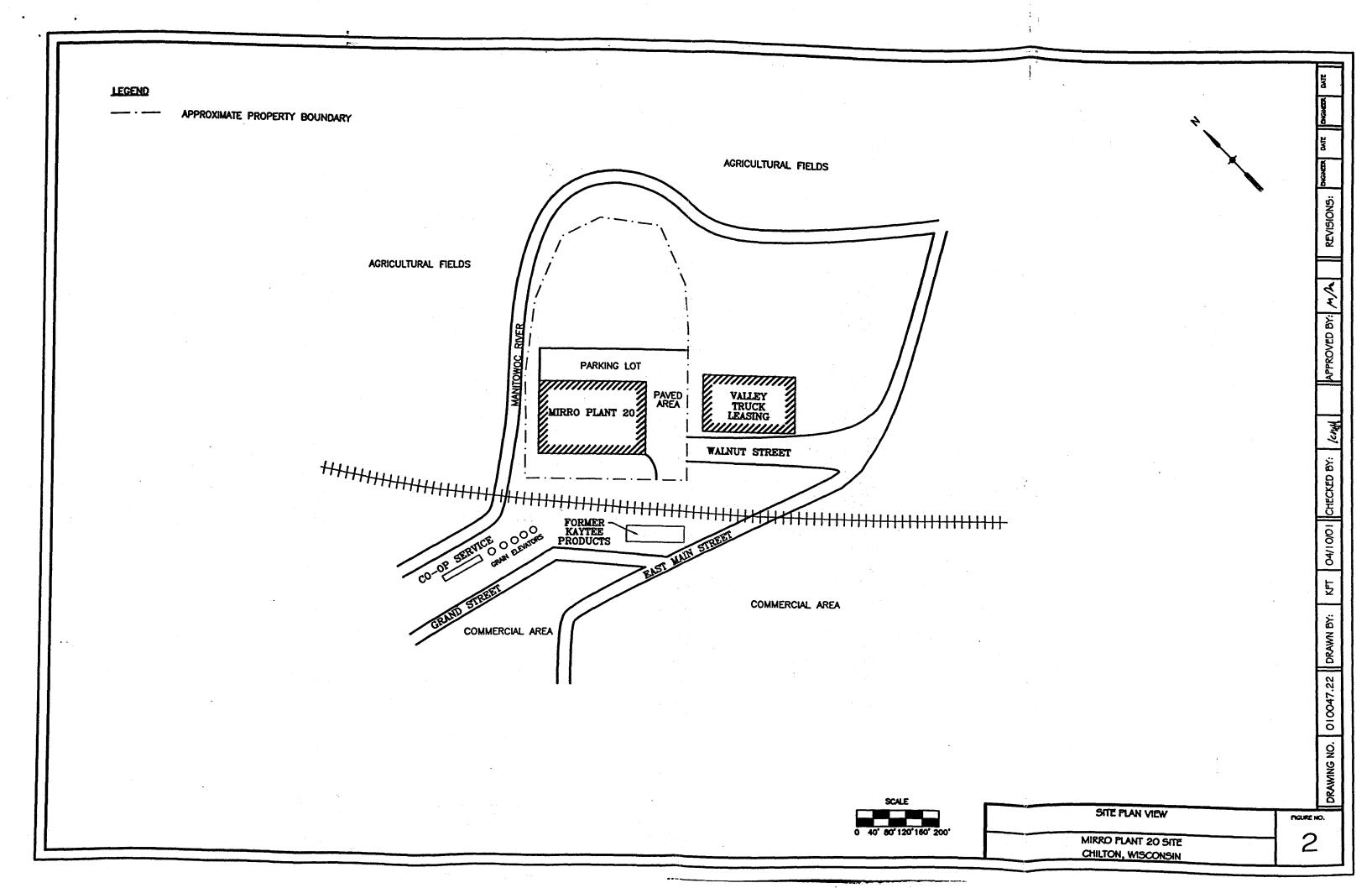
season western which indicat River.

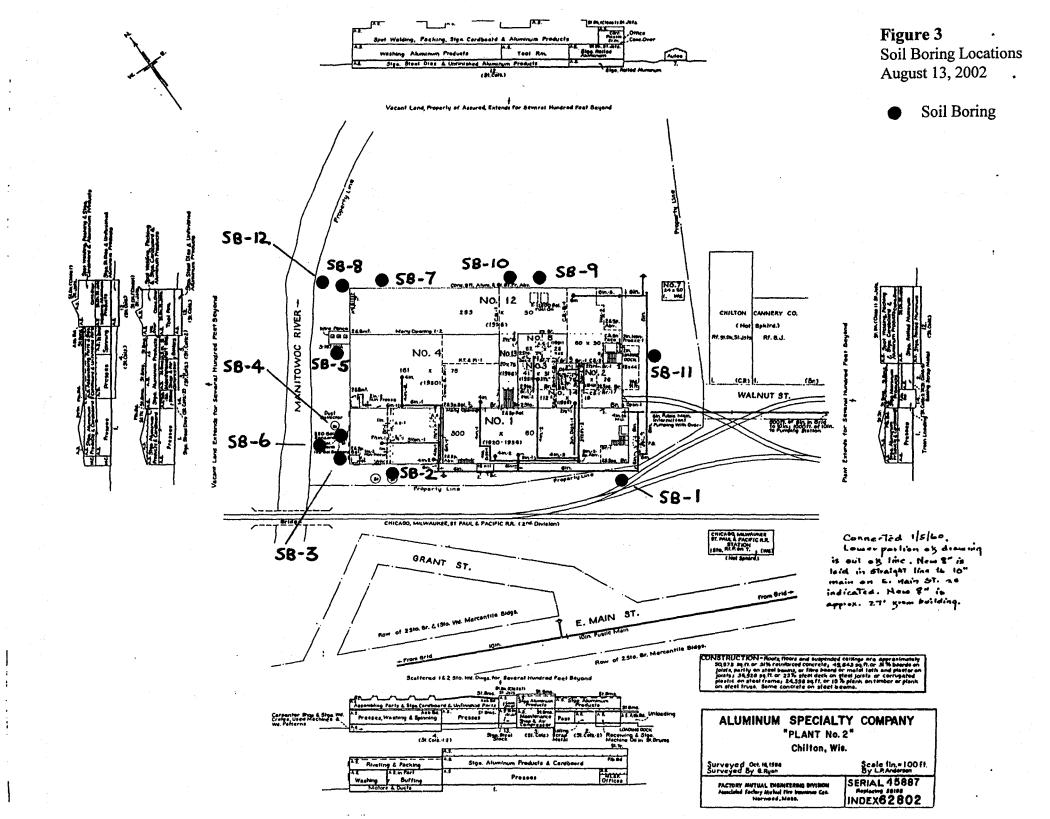
Low le western to the stored

Barium, chromium, and lead concentrations are elevated above apparent background in the surficial soil sample collected and analyzed from boring SB-3 (0'-4'bgs). Similar elevation of the chromium concentration was detected in the surficial soil sample collected and analyzed from boring SB-5 (0'-4'bgs).

- Several attempts were made during completion of the soil boring program to install small diameter temporary groundwater monitoring wells to provide a preliminary assessment of groundwater quality in the contaminant source areas. Severe caving of the saturated granular soils encountered in this area prevented installation of temporary wells. Assessment of groundwater contamination in this area is required to address the following issues:
  - determination of groundwater contaminant levels compared to Preventive Action Levels (PAL) and Enforcement Standards (ES).
  - estimation of the rate of contaminant mass discharge to the Manitowoc River.
  - evaluation of the requirements for site remediation, the most appropriate and cost effective remedial methods, and cost estimates for site remediation.







# TABLES SOIL SAMPLE ANALYTICAL RESULTS

#### TABLE 1

#### SOIL SAMPLE ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS (VOC)

#### NEWELL RUBBERMAID - MIRRO PLANT #20 CHILTON, WISCONSIN

All Contaminants Shown In mg/kg • Only Contaminants With Detects Shown

			ingreen St.				- A		4	•	2		8.48			MIRES VIII.										u	
Sample ID	Sample Date	Feet (bgs)	Benz ene	tert- Butyl benzene	sec- Butyl benzene	n-Butyl benzene	1,2- DCA	1,1 - DCA	1,1- DCE	cis-1,2- DCE	trans- 1,2- DCE	Ethyl benzene	Isopropyl benzene	p- Isopropyl toluene	DB CM	Methylene chloride	Naph thalene	n- Propyl benzene	1,1,2,2- Tetrachlo roethane	Tolue ne	1,1, 1- TCA	PCE	1,2,4- TMB	1,3,5- TMB	Chloro meth ane	Vinyl Chloride	Xylenes
SB-1	07/15/02	0 - 4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND .	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-2	07/15/02	0 - 4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.057
SB-3	07/15/02	0 - 4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.070	ND	ND	ND	ND	ND	ND	ND	0.034	ND	ND	ND	ND	0.059
SB-4	07/15/02	0 - 4	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.160	ND	ND	ND	ND	ND	0.025 <sup>J</sup>	ND	0.15	ND	ND	0.095	0.061	ND	ND	1.970
SB-4	07/15/02	4 - 7	ND	0.046	0.410	0.083	ND	ND	ND	ND	ND	0.076	2.700	0.200	0.25	ND	0.061	2.000	ND	ND	ND	ND	3.900	ND	ND	ND	0.800
SB-4	07/15/02	8 - 12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.120	ND	ND	ND	ND	0.066	ND	0.0251	ND	ND	0.130	ND	ND	ND	0.184
SB-6	07/15/02	6 - 7	ND	ND	0.140	0.060	ND	ND	ND	ND	ND	0.051	0.250	0.170	ND	ND	ND	0.200	ND	ND	ND	ND	0.460	ND	ND	ND	0.220
SB-7	07/15/02	6 - 7	ND	ND	0.180	0.130	ND	ND	ND	ND	ND	ND	0.063	ND	ND	ND	ND	0.100	ND	ND	ND	ND	0.170	ND	ND	ND	ND
SB-7	07/15/02	10 - 11	ND	ND	0.086	0.074	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.045	ND	ND	ND	ND	0.056	ND	ND	ND	ND
SB-8	07/15/02	6 - 7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-8	07/15/02	11 - 12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-9	07/15/02	7 - 8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-10	07/15/02	5 - 6	ND	ND	ND	ND .	ND	ND	ND	ND .	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-11	07/15/02	6 - 7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-12	07/15/02	5 - 8	ND	0.090	0.570	0.790	ND	ND	ND	ND .	ND	ND	0.150	0.130	ND	ND	0.089	0.350	ND	ND	ND	ND	4.100	0.094	ND	ND	ND
Residual	Contaminan	t Levels	0.00 55	-	-	_	0.0049		-	-	-	2.9	-		-	-	0.4†	• .	-	1.5	-	-	-	_	_	-	4.1

= Not Detected ND DCE = Dichloroethene

mg/kg = milligrams per kilogram

= Dichloroethane

= recommended RCL TCA

= Trichloroethane

shaded = exceeds RCL = Tetrachloroethene **TMB** 

= Trimethylbenzene

DBCM = Dibromochloromethane

= Analyte detected between LOD and LOQ

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# Table 2 SOIL SAMPLE ANALYTICAL RESULTS POLYAROMATIC HYDROCARBONS (PAH) NEWELL RUBBERMAID - MIRRO PLANT #20 CHILTON, WISCONSIN

All Contaminants Shown In (mg/kg)

Sample ID	SB-1 0' - 4' 07/15/02	SB-6 6' - 7' 07/15/02	SB-7 6' - 7' 07/15/02	Suggested Generic RCI (1)
Acenaphthene	ND	ND	ND	38
Acenaphthylene	ND	ND	ND	0.7
Anthracene	ND	ND	ND	3000
Benzo (a) anthracene	ND	ND	ND	17
Benz (a) pyrene	ND	ND	ND	48
Benzo (b) fluoranthene	ND	ND	ND	360
Benzo (ghi) perylene	ND	ND	ND	6800
Benzo (k) fluoranthene	ND	ND	ND	870
Chrysene	ND	ND	ND	37
Dibenz (a,h) anthracene	ND	ND	ND	38
Fluoranthene	ND	ND	ND	500
Fluorene	ND	ND	ND	100
Indeno (1,2,3-cd) pyrene	ND	ND	ND	680
1-Methyl naphthalene	ND	ND	ND	23
2-Methyl naphthalene	ND	ND	ND	20
Naphthalene	ND	ND	ND	0.4
Phenanthrene	ND	0.042 <sup>J</sup>	0.055 <sup>J</sup>	1.8
Pyrene	ND	ND	ND	8700

DC-I 60,000 360 300,000 3.9 0.39 3.9 39 39 390 0.39 40,000 40,000 20,000 40,000 30,000

ND

= no detect

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mg/kg

= milligrams per kilogram

Po Nev	I al SOIL SAMPLE ANA LYAROMATIC HY VELL RUBBERMAI GUILTON: All Contaminants	drocarbons (P d - Mirro Plan Visconsin	AH) 〒#20	
Sample ID	SB-8 6' - 7' 07/15/02	SB-12 5' - 8' 07/15/02		Suggested Generic RCL (1)
Acenaphthene	ND	ND		38
Acenaphthylene	ND	ND .		0.7
Anthracene	ND	ND		3000
Benzo (a) anthracene	ND	ND		17
Benz (a) pyrene	ND	ND		. 48
Benzo (b) fluoranthene	ND	ND		360
Benzo (ghi) perylene	ND	ND		6800
Benzo (k) fluoranthene	ND	ND		870
Chrysene	ND	ND		37
Dibenz (a,h) anthracene	ND	ND		38
Fluoranthene	ND	ND		500
Fluorene	ND	ND		100
Indeno (1,2,3-cd) pyrene	ND	ND		680
1-Methyl naphthalene	ND	0.080 <sup>J</sup>		23
2-Methyl naphthalene	ND	ND .		20
Naphthalene	ND	0.010 <sup>j</sup>		0.4
Phenanthrene	ND	0.038 <sup>J</sup>		1.8
Pyrene	ND	ND	!	8700
(1) = for protection of mg/kg = milligrams per l			etected between	en LOD & LOQ

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## TABLE 3 NEWELL RUBBERMAID - MIRRO PLANT #20

#### CHILTON, WISCONSIN

#### SOIL ANALYTICAL RESULTS TABLE: METALS

All contaminants shown in mg/kg

Sample ID	Sample Date	Depth (feet bgs)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
SB-2	07/15/02	0 - 4	6.0	79	1.0 <sup>J</sup>	29	97	0.28	17	4.1
SB-3	07/15/02	0 - 4	2.5	112	1.1 <sup>J</sup>	123	201	0.20	5.0 <sup>J</sup>	2.2 <sup>J</sup>
SB-3	07/15/02	6 - 7	1.1 <sup>J</sup>	40	ND	92	6.2 <sup>J</sup>	0.016 <sup>J</sup>	ND	ND
SB-4	07/15/02	0 - 4	32	52	ND	2100	65	0.11	39	22
SB-4	07/15/02	4 - 7	10 <sup>J</sup>	29	ND	1770	20	0.13	ND	12 <sup>J</sup>
SB-4	07/15/02	8 - 12	10	21	ND	168	6.7 <sup>J</sup>	0.12	15	2.1 <sup>J</sup>
SB-5	07/15/02	0 - 4	4.6	67	ND	156	88	0.37	5.4 <sup>J</sup>	4.7
SB-6	07/15/02	6 - 7	2.0	58	ND	20	19	0.024	7.3 <sup>J</sup>	3.9
	Contaminant evels	NI I	0.039 1.6	-	8 510	7 16000	50 500	-	-	-

ND = No Detect mg/kg = milligrams per kilogram NI shaded = Industrial Exceedance

= non-industrial

= industrial

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Hexavalent 19 200

## TABLE 4 SOIL SAMPLE ANALYTICAL RESULTS DIESEL RANGE ORGANICS (DRO) NEWELL RUBBERMAID - MIRRO PLANT #20 CHILTON, WISCONSIN

Sample ID	Sample Date	Feet (bgs)	DRO (mg/kg)								
SB-1	07/15/02	0 - 4	ND								
SB-2	SB-2 07/15/02 0 - 4										
SB-3	07/15/02	0 - 4	10								
SB-6	SB-6 07/15/02 6 - 7										
SB-10	07/15/02	5 - 6	ND								
SB-11	SB-11 07/15/02 6 - 7										
Resid	Residual Contaminant Level (RCL)										

ND = No Detect

mg/kg

= milligrams per kilogram

= below ground surface bgs

shaded

= exceeds RCL

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#### TABLE 5

#### SOIL ANALYTICAL RESULTS TABLE: PCB NEWELL RUBBERMAID - MIRRO PLANT #20

#### CHILTON, WISCONSIN

#### All Contaminants Shown in µg/kg

Sample ID	Sample Date	Depth (feet bgs)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
SB-5	07/15/02	0 - 4	ND						
Resid	ual Contamina	nt Levels							

ND = No Detect

μg/kg = micrograms per kilogram

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# APPENDIX A LABORATORY ANALYTICAL REPORTS

# APPENDIX B SOIL BORING LOGS

#### SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

			Rou	te To:		-	ewater [_ velopment			_									
					21441144			-		•						Page	1	of	1
Facilit	y/Proje	ct Na	me	00.	Y PLA	MT	20	SITE	Licens	se/Pern	nit/Mo	nitorii	ig Num	ber	Boring	Numi	er S	B	- 1
Borin	Drille	d By:	Nam	e of cr	ew chief (fir:	t, last	and Firm	1		Drilling			Date I	_	-		Drillin	g Met	hod
First N		OR	тн		Name: ORE D	RILL	146	INC.	07 ===	<u>, 15</u>	<u>20</u>	ᅌᇴᅐᆂ	<u>07</u>	, <u>15</u> ,	20	<u> </u>		re. Us i	
	ique V				Well ID No.		ell Name		Final :		Valer I Feet M		Surfac	æ Elev	ation Feet l		Boreho	_	ameter nches
Local State I	Grid O	rigin	<u> </u>	stimated	i: D ) or .	Boring	Location	S/C/N	<u> </u>		0 1		Local	Grid L	ocation	n.			
		Nh	1/4 o	f Section	m 18 T	18			Lor	1g	0 '				et 🗆	N S _			□ E □ W
Facili	y ID				County C	466	MET	C	Onty C	8	Civil	Town	City/ o	r Villaş	ge (	CHIL	-T0	M	
Sam	ple		(9)		<u> </u>									3.1	Soil I	Prope	rties		
. 0	Att. & ed (in	ounts	Feet word sur				Description c Origin F					_		sive	43		_		នួ
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet				jor Unit			scs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Ž Ş	7 %	BI	L A E	<del> </del>						ם	উ এ	≥ ⊠	Ā	ටුන්	ຂີວິ	22	E u	<u>```</u>	<u>≅</u> 8
			Ė,		1988 - 6 Angin				0										
<b>—</b>			E'		DWH F					CL									No
7			<del> -2</del>		LIST, S LACE S			44 4	) 13 14										ODOR
0			Ez																
			E																
···			E																
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#### SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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#### SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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#### SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater Waste Management	
Remediation/Revelopment  Other	1
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MIRRO COMPANY PLANT 20 SITE 3B	
Boring Drilled By: Name of crew chief (first, last) and Firm  Date Drilling Started  Date Drilling Completed Drilling Met  On 15, 2002  On 15, 2002  On 15, 2002  Date Drilling Completed Drilling Met	
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I hereby certify that the information on this form is true and correct to the best of my knowledge.	

#### SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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#### SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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#### SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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#### SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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#### SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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#### SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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# APPENDIX C SOIL BORING ABANDONMENT FORMS

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 3-95

(1) GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole 5B-1 County CALUMET	Original Well Owner (If Known) HEWELL RUBBERM/10
ME 1/4 of MW 1/4 of Sec. 18; T. 18 N; R. 20 W	Present Well Owner  SAME
Gov't Lot Grid Number	Street or Route 29 EAST STEPHENSON
Grid Location ft. ☐ N. ☐ S., ft. ☐ E. ☐ W.	City, State, Zip Code FREEPORT IL 61032
Civil Town Name	Facility Well No. and/or Name (If Applicable) WI Unique Well No.
Street Address of Well 44 WALHUT STREET	Reason For Abandonment SOIL COMTAMINATION ASSESSMENT BORING
City, Village CHILTON	Date of Abandonment 15 JUL02
WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet)
(Date) 15 JUL 02	Pump & Piping Removed?
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☐ Borehole ☐ Construction Report Available? ☐ Yes ☐ No	Screen Removed?  Yes No Not Applicable Casing Left in Place?  Yes Pro  Yes Pro  If No, Explain SOIL BORING - NO (ASIME USED)
Construction Type:  Drilled Driven (Sandpoint) Dug  Other (Specify) DIRECT PUSH	Was Casing Cut Off Below Surface?  Did Sealing Material Rise to Surface?  Did Material Settle After 24 Hours?  If Yes, Was Hole Retopped?  Yes No  Yes No
Formation Type:  Unconsolidated Formation  Total Well Depth (ft.) 12 (From groundsurface)  Casing Diameter (in.) 14  Casing Depth (ft.) 14  Lower Drillhole Diameter (in.) 2.0  Was Well Annular Space Grouted?  Yes No Unknown  If Yes, To What Depth?	Conductor Pipe-Gravity
(7) Material Used To Fill Well/Drillhole	From (Ft.)  To (Ft.)  No. Yards, (Circle One)  Sacks Sealant One)  or Volume  Mix Ratio or Mud Weight
GRANULAR BENTONITE	Surface 12 LISACK
(8) Comments:	
(9) Name of Person or Firm Doing Sealing Work  NORTH SHORE DRILLING INC.  Signature of Person Doing Work  Date Signed  Street or Route  P.O. COX Z 55  Telephone Number (262) 375-8121  City, State, Zip Code  GRAFTON WI 53024	(10) FOR DNR OR COUNTY USE ONLY  Date Received/Inspected District/County  Reviewer/Inspector Complying Work Noncomptying Work Follow-up Necessary

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 3-95

(1) GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole SB-Z County CALUMET	Original Well Owner (If Known) HEWELL RUBBERMAIO
NE 1/4 of HW 1/4 of Sec. 18; T. 18 N; R. 20 W	Present Well Owner SAME
(If applicable)  Gov't Lot Grid Number	Street or Route 29 EAST STEPHENSON
Grid Location ft. ☐ N. ☐ S., ft. ☐ E. ☐ W.	City, State, Zip Code FREEPORT IL 61032
Civil Town Name	Facility Well No. and/or Name (If Applicable) WI Unique Well No.
Street Address of Well 44 WALNUT STREET	Reason For Abandonment SOIL COMTAMINATION ASSESSMENT BORING
City, Village CHILTON	Date of Abandonment 15 JUL02
WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet)
(Date) 15 JUL 02	Pump & Piping Removed? Yes No Not Applicable
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☐ Borehole ☐ Construction Report Available? ☐ Yes ☐ No	Liner(s) Removed?  Screen Removed?  Casing Left in Place?  If No, Explain  SOIL  BORING  Yes  No  No  Not Applicable  Yes  No  Not Applicable  Yes  O  Not Applicable  Yes  O  Not Applicable  O  Not Applicable  O  O  O  O  O  O  O  O  O  O  O  O  O
Construction Type:  Driven (Sandpoint)  Dug  Other (Specify)  OIRECT PUSH	Was Casing Cut Off Below Surface?  Did Sealing Material Rise to Surface?  Did Material Settle After 24 Hours?  If Yes, Was Hole Retopped?  Yes No  Yes No
Formation Type: Unconsolidated Formation  Total Well Depth (ft.) 12 (From groundsurface)  Casing Diameter (in.) 12 Casing Depth (ft.) 12  Lower Drillhole Diameter (in.) 2.0  Was Well Annular Space Grouted? Yes, No Unknown	(5) Required Method of Placing Sealing Material  Conductor Pipe-Gravity Dump Bailer Other (Explain) GRAVIT  (6) Sealing Materials For monitoring wells and monitoring well boreholes only Sand-Cement (Concrete) Grout Concrete Clay-Sand Slurry Bentonite-Sand Slurry Bentonite - Cement Grout Bentonite - Cement Grout
If Yes, To What Depth? Feet	Chipped Bentonite
7) Material Used To Fill Well/Drillhole	From (Ft.)  To (Ft.)  No. Yards, (Circle Mix Ratio or Volume One)  Or Mud Weight
GRANULAR BENTONITE	Surface 12 LISACK
·	
(8) Comments:	
(9) Name of Person or Firm Doing Sealing Work  NORTH SHORE DRILLIMG INC.  Signature of Person Doing Work  Date Signed	(10) FOR DNR OR COUNTY USE ONLY  Data Received/Inspected District/County  Reviewer/Inspector Complying Work
Street or Route P.O. COX Z 55 Telephone Number (262) 375-8121	Follow-up Necessary
City, State, Zip Code (TRACTON W) 7 5302.4	

## WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 3-95

(1) GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole SB-3 County CALUMET	Original Well Owner (If Known) ドロロン RUBBERM AIO
NE 1/4 of HW 1/4 of Sec. 18; T. 18 N; R. 20 W	Present Well Owner SAME
(If applicable)  Gov't Lot Grid Number	Street or Route 29 EAST STEPHENSON
Grid Location	City, State, Zip Code FREEPORT IL 61032
ft. N. S., ft. E. W.	Facility Well No. and/or Name (If Applicable) WI Unique Well No.
Street Address of Well 44 WALNUT STREET	Reason For Abandonment  SOIL COMTAMIMATION ASSESSMENT BORING
City, Village CHILTON	Date of Abandonment 15 JUL02
WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet) 5
(Date) 15 JUL 02	Pump & Piping Removed? Yes No No Applicable
	Liner(s) Removed? Yes No P Not Applicable
Monitoring Well Construction Report Available?	Screen Removed? Yes No No Not Applicable
Water Well Yes No	Casing Left in Place? Yes No
Drillhole	If No, Explain SOIL BORING - NO (ASIME USED
Borehole	Was Casing Cut Off Below Surface? Yes No
Construction Type:	Was Casing Cut Off Below Surface? Yes No Did Sealing Material Rise to Surface? Yes No
Drilled Driven (Sandpoint) Dug	Did Material Settle After 24 Hours? Yes 1-No
Other (Specify)OIRECT PUSH	If Yes, Was Hole Retopped? Yes No
	(5) Required Method of Placing Sealing Material
Formation Type:	Conductor Pipe-Gravity Conductor Pipe-Pumped
Unconsolidated Formation Bedrock	Dump Bailer Duher (Explain) GRAVIT
Total Well Depth (ft.) 12 Casing Diameter (in.)	(6) Sealing Materials For monitoring wells and
(From groundsurface) Casing Depth (ft.)	☐ Neat Cernent Grout monitoring well boreholes only
7 ^	Sand-Cement (Concrete) Grout
Lower Drillhole Diameter (in.) 2.0	Concrete Bentonite Pellets
Was Wall Associated as to the transfer of the same	Clay-Sand Slurry Granular Bentonite  Bentonite-Sand Slurry Bentonite - Cement Grout
Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet	Bentonite-Sand Slurry Bentonite - Cement Grout Chipped Bentonite
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(7) Material Used To Fill Well/Drillhole	From (Ft.) To (Ft.) Sacks Sealant (Circle Mix Ratio
Material Osed To Fill Well/Diffinois	rrom (rt.) 10 (rt.) or Volume One) or Mud Weight
GRANULAR BENTONITE	Surface 12 LISACK
(8) Comments:	
(9) Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY
MORTH SHORE DRILLING INC.	Date Received/Inspected District/County
Signature of Person Doing Work Date Signed	
	Reviewer/Inspector Complying Work
Street or Route P. O. COX Z 55 Telephone Number (262) 375 - 8121	Noncomplying Work
F. U. DOX 255 (262) 375-8121	Follow-up Necessary
City, State, Zip Code GRAFTON WI 53024	

## WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 3-95

(1) OBSIDE AT VALVOORS AND ONE	(2) FACILITY NAME
(1) GENERAL INFORMATION	Original Well Owner (If Known)
Well/Drillhole/Borehole 58-4 County CALUMET	HEWELL RUBBERMAID
ME 1/4 of HW 1/4 of Sec. 18; T. 18 N; R. 20 W	Present Well Owner  SAME
Gov't Lot Grid Number	Street or Route 29 EAST STEPHENSON
Grid Location ft. ☐ N. ☐ S., ft. ☐ E. ☐ W.	City, State, Zip Code FREEPORT IL 61032
Civil Town Name	Facility Well No. and/or Name (If Applicable) WI Unique Well No.
Street Address of Well 44 WALNUT STREET	Reason For Abandonment  SOIL COMTAMINATION ASSESSMENT BORING
City, Village CHILTON	Date of Abandonment 15 JUL02
WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet) 7
(Date) 15 JUL 02	Pump & Piping Removed? Yes No Not Applicable Liner(s) Removed? Yes No Not Applicable
☐ Monitoring Well ☐ Water Well ☐ Drillhole ☐ Borehole ☐ Construction Report Available? ☐ Yes ☐ No	Liner(s) Removed?  Screen Removed?  Yes No Not Applicable  Yes No Not Applicable  Casing Left in Place?  Yes No Not Applicable  Yes No Not Applicable  Yes No Not Applicable  Yes No Not Applicable  Casing Left in Place?  Yes No Not Applicable  Yes No Not Applicable  Yes No Not Applicable  Yes No Not Applicable  Yes No Not Applicable  Yes No Not Applicable
Construction Type:  Drilled Driven (Sandpoint) Dug  Other (Specify) OIRECT PUSH	Was Casing Cut Off Below Surface?  Did Sealing Material Rise to Surface?  Did Material Settle After 24 Hours?  If Yes, Was Hole Retopped?  Yes No  Yes No
Formation Type:  Unconsolidated Formation  Total Well Depth (ft.) 12 Casing Diameter (in.)  (From groundsurface)  Casing Depth (ft.)	(5) Required Method of Placing Sealing Material  Conductor Pipe-Gravity Dump Bailer Cother (Explain) For monitoring wells and monitoring well boreholes only Sand-Cement (Concrete) Grout Concrete Clay-Sand Slurry Bentonite-Sand Slurry Chipped Bentonite  Conductor Pipe-Pumped For monitoring wells and monitoring wells and monitoring well boreholes only Bentonite Pellets Cranular Bentonite Bentonite - Cement Grout
(7) Material Used To Fill Well/Drillhole	From (Ft.)  To (Ft.)  No. Yards, (Circle Sacks Sealant One)  or Volume  Mix Ratio or Mud Weight
GRANULAR BENTONITE	Surface 12 41 SACK
(8) Comments:	
(9) Name of Person or Firm Doing Sealing Work  NORTH SHORE DRILLIMG INC.  Signature of Person Doing Work  Date Signed  Street or Route  P.O. COX Z 55 Telephone Number (262) 375-8121  City, State, Zip Code  GRAFTON WI 53024	(10) FOR DNR OR COUNTY USE ONLY  Date Received/Inspected District/County  Reviewer/Inspector Complying Work Noncomplying Work Follow-up Necessary

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 3-95

(1) GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole 56-5 County CALUMET	Original Well Owner (If Known) HEWELL RUBBERMAIO
ME 1/4 of HW 1/4 of Sec. 18; T. 18 N; R. 20 W	Present Well Owner  SAME
Gov't Lot Grid Number	Street or Route 29 EAST STEPHENSON
Grid Location         ft. □ N. □ S.,ft. □ E. □ W.	City, State, Zip Code FREEPORT IL 61032
Civil Town Name	Facility Well No. and/or Name (If Applicable) WI Unique Well No.
Street Address of Well 44 WALNUT STREET	Reason For Abandonment  SOIL COMTAMINATION ASSESSMENT BORING
City, Village CHILTON	Date of Abandonment 15 JUL02
WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet)
(Date) 15 JUL 02	Pump & Piping Removed?
	Liner(s) Removed? Yes No Not Applicable
☐ Monitoring Well Construction Report Available?	Screen Removed? Yes No Not Applicable
☐ Water Well ☐ Yes ☐ No	Casing Left in Place? Yes No
☐ Drillhole	If No, Explain SOIL BORING - NO (ASIMO USED
Borehole	
	Was Casing Cut Off Below Surface? Yes No
Construction Type:	Did Sealing Material Rise to Surface?  Yes No
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug	Did Material Settle After 24 Hours? Yes TA
Other (Specify) DIRECT PUSH	If Yes, Was Hole Retopped? Yes No
	(5) Required Method of Placing Sealing Material
Formation Type:	Conductor Pipe-Gravity Conductor Pipe-Pumped
Unconsolidated Formation Bedrock	Dump Bailer Duher (Explain) GRAVIT
Total Well Depth (ft.) 12 Casing Diameter (in.) N/A	(6) Sealing Materials For monitoring wells and
(From groundsurface) Casing Depth (ft.)	Neat Cement Grout monitoring well boreholes only
, and a second s	Sand-Cement (Concrete) Grout
Lower Drillhole Diameter (in.) $2.0$	Concrete Bentonite Pellets
	Clay-Sand Slurry Granular Bentonite
Was Well Annular Space Grouted? Yes, No Unknown	
If Yes, To What Depth?	Chipped Bentonite
(7) Material Used To Fill Well/Drillhole	From (Ft.) To (Ft.) Sacks Sealant One) Mix Ratio or Wolves
	or Volume One) or Mud Weight
GRANULAR BENTONITE	Surface 12 41 SACK
010/100/10	
(8) Comments:	
(0) N	
(9) Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY
MORTHSHORE DRILLING INC.	Date Received/Inspected District/County
Signature of Person Doing Work Date Signed	
	Reviewer/Inspector Complying Work
Street or Route P.O. COX Z 55 Telephone Number (262) 375 - 8121	Noncomplying Work
Circle 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Follow-up Necessary
City, State, Zip Code GRAFTON WI 53024	

## WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 3-95

(1) GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole 56-6 County CALUMET	Original Well Owner (If Known) HEWELL RUBBERM分10
ME 1/4 of MW 1/4 of Sec. 18; T. 18 N; R. 20 W	Present Well Owner SAME
Gov't Lot Grid Number	Street or Route 29 EAST STEPHENSON
Grid Location ft.	City, State, Zip Code FREEPORT IL 61032
Civil Town Name	Facility Well No. and/or Name (If Applicable) WI Unique Well No.
Street Address of Well 44 WALHUT STREET	Reason For Abandonment  SOIL COMTAMINATION ASSESSMENT BORING
City, Village CHILTON	Date of Abandonment 15 JULO 2
WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet)
(Date) 15 JUL 02	Pump & Piping Removed? Yes No Not Applicable  Liner(s) Removed? Yes No Not Applicable
Monitoring Well Construction Report Available?	Screen Removed? Yes No Not Applicable
☐ Water Well	Casing Left in Place? Yes No
Drillhole	If No, Explain SOIL BORING - NO (ASIMO USED
Borehole	Was Casing Cut Off Below Surface? Yes No
Construction Type:	Did Sealing Material Rise to Surface? Yes No
Drilled Driven (Sandpoint) Dug	Did Material Settle After 24 Hours? Yes Tho
Other (Specify) OIRECT PUSH	If Yes, Was Hole Retopped? Yes No
	(5) Required Method of Placing Sealing Material
Formation Type:	Conductor Pipe-Gravity Conductor Pipe-Pumped
Unconsolidated Formation Bedrock	Dump Bailer Dther (Explain) GRAVIT
Total Well Depth (ft.) 12 Casing Diameter (in.) N/A	(6) Sealing Materials For monitoring wells and
(From groundsurface) Casing Depth (ft.)	Neat Cement Grout monitoring well boreholes only
Lamas Datilla da Diamasa (L.) 2 A	Sand-Cement (Concrete) Grout
Lower Drillhole Diameter (in.) 2.0	Concrete Bentonite Pellets  Clay-Sand Slurry Granular Bentonite
Was Well Annular Space Grouted? Yes, No Unknown If Yes, To What Depth? Feet	
(7) Material Used To Fill Well/Drillhole	From (Ft.)  To (Ft.)  No. Yards, (Circle Mix Ratio or Volume One)  or Mud Weight
GRANULAR BENTONITE	Surface 12 LISACK
(8) Comments:	
Conditions.	
(9) Name of Person or Firm Doing Sealing Work	(10) FOR DAR OR COUNTY USE ONLY
MORTHSHORE DRILLING INC.	Date Received/Inspected District/County
Signature of Person Doing Work Date Signed	
Samuel Barrier and	Reviewer/Inspector Complying Work
Street or Route P.O. Cox 255 Telephone Number (262) 375-8121	Follow-up Necessary
City, State, Zip Code GRAFTON WI 53024	

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 3-95

(1) GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole SB-7 County CALUMET	Original Well Owner (If Known) ドロンドル RUBBERM/10
ME 1/4 of MW 1/4 of Sec. 18; T. 18 N; R. 20 W	Present Well Owner  SAME
(If applicable) Gov't Lot Grid Number	Street or Route 29 EAST STEPHENSON
Grid Location ft. ☐ N. ☐ S., ft. ☐ E. ☐ W.	City, State, Zip Code FREEPORT IL 61032
Civil Town Name	Facility Well No. and/or Name (If Applicable) WI Unique Well No.
Street Address of Well 44 WALNUT STREET	Reason For Abandonment SOIL COMTAMINATION ASSESSMENT BORING
City, Village CHILTON	Date of Abandonment 15 JUL02
WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet) 5
(Date) /5 JUL 02	
	Liner(s) Removed? Yes No No Not Applicable
Monitoring Well Construction Report Available?	Screen Removed? Yes No Not Applicable
Water Well Yes No	Casing Left in Place? Yes ANO
Drillhole	If No, Explain SOIL BORING - HO (ASIMG USEO
Borehole	
	Was Casing Cut Off Below Surface? Yes No
Construction Type:	Did Sealing Material Rise to Surface? Yes No
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug	Did Material Settle After 24 Hours? Yes Tho
Other (Specify) OIRECT PUSH	If Yes, Was Hole Retopped? Yes No
	(5) Required Method of Placing Sealing Material
Formation Type:	· · · <u> </u>
Unconsolidated Formation Bedrock	Conductor Pipe-Gravity Conductor Pipe-Pumped
- ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Dump Bailer Other (Explain) GRAVITY
rotal well Depth (IL) Cashig Diameter (III.)	(6) Sealing Materials For monitoring wells and
(From groundsurface) Casing Depth (ft.)	Neat Cement Grout monitoring well boreholes only
2 ^	Sand-Cement (Concrete) Grout
Lower Drillhole Diameter (in.) 2.0	☐ Concrete ☐ Bentonite Pellets
	Clay-Sand Slurry Granular Bentonite
Was Well Annular Space Grouted?  Yes, No Unknown	Bentonite-Sand Slurry Bentonite - Cement Grout
If Yes, To What Depth? Feet	Chipped Bentonite
(7) Material Used To Fill Well/Drillhole	From (Ft.) To (Ft.) Sacks Sealant (One) Or Mud Weight
Waterial Osed To Fill Well/Diffinole	From (Ft.) 10 (Ft.) Sacks Sealant One) or Mud Weight
( 0 - 0	Surface 17 / 15Ack
GRANULAR BENTONITE	Surface 12 41 SACK
(8) Comments:	
/A. N.	
(9) Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY
MORTHSHORE DRILLING INC.	Date Received/Inspected District/County
Signature of Person Doing Work Date Signed	
	Reviewer/Inspector Complying Work
Street or Route O O O O Telephone Number	Noncomplying Work
Street or Route P.O. COX ZS5 Telephone Number (262) 375-8121	Follow-up Necessary
City Stone 7:- Cod	
GRAFTON WI 53024	

### WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5B

(1) GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole SB-8 County CALUMET	Original Well Owner (If Known) HEWELL RUBBERMAIO
ME 1/4 of MW 1/4 of Sec. 18; T. 18 N; R. 20 W	Present Well Owner  SAME
(If applicable) Gov't Lot Grid Number	Street or Route 29 EAST STEPHENSON
Grid Location ft.	City, State, Zip Code FREEPORT IL 61032
Civil Town Name	Facility Well No. and/or Name (If Applicable)  WI Unique Well No.
Street Address of Well 44 WALHUT STREET	Reason For Abandonment SOIL COMTAMINATION ASSESSMENT BORING
City, Village CHILTON	Date of Abandonment 15 JUL0 2
WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet)
(Date) /5 JUL 02	Pump & Piping Removed?  Yes No Not Applicable  Liner(s) Removed?  Yes No Not Applicable
Monitoring Well Construction Report Available?	Screen Removed? Yes No No Not Applicable
☐ Water Well ☐ Yes ☐ No	Casing Left in Place? Yes 4 No
Drillhole Drillhole	If No, Explain SOIL BORING - NO (ASIME USED
Borehole	Was Casing Cut Off Below Surface? Yes No
Construction Type:	Was Casing Cut Off Below Surface? Yes No Did Sealing Material Rise to Surface? Yes No
Drilled Driven (Sandpoint) Dug	Did Material Settle After 24 Hours? Yes T-No
Other (Specify) ORECT PUSH	If Yes, Was Hole Retopped? Yes No
	(5) Required Method of Placing Sealing Material
Formation Type:	Conductor Pipe-Gravity Conductor Pipe-Pumped
Unconsolidated Formation Bedrock	Dump Bailer Dother (Explain) GRAVIT
Total Well Depth (ft.) 12 Casing Diameter (in.)	(6) Sealing Materials For monitoring wells and
(From groundsurface) Casing Depth (ft.)	☐ Neat Cement Grout monitoring well boreholes only
7 ^	Sand-Cement (Concrete) Grout
Lower Drillhole Diameter (in.) 2.0	Concrete Bentonite Pellets
Was Well Annular Space Grouted? Yes, No Unknown If Yes, To What Depth? Feet	Clay-Sand Slurry Bentonite-Sand Slurry Chipped Bentonite  Granular Bentonite  Bentonite - Cement Grout
(7) Material Used To Fill Well/Drillhole	From (Ft.)  To (Ft.)  No. Yards, (Circle Sacks Sealant One)  Or Volume  One  Mix Ratio or Mud Weight
GRANULAR BENTONITE	Surface 12 LISACK
(8) Comments:	
(9) Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY
MORTHSHORE DRILLING INC.	Date Received/Inspected District/County
Signature of Person Doing Work Date Signed	Parisment Secretary Secretary
Street or Route O a Telephone Number	Reviewer/Inspector Complying Work
P.O. BOX 255 (262) 375-8121	Follow-up Necessary  Noncomplying Work
City, State, Zip Code GRAFTON WT 53024	

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 3-95

(1) GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole SB-9 County CALUMET	Original Well Owner (If Known)  HEWELL RUBBERM/10
ME 1/4 of MW 1/4 of Sec. 18; T. 18 N; R. 20 W	Present Well Owner  SAME
(If applicable)  Gov't Lot Grid Number	Street or Route 29 EAST STEPHENSON
Grid Location	City, State, Zip Code FREEPORT IL 61032
ft. N. S., ft. E. W.	Facility Well No. and/or Name (If Applicable) WI Unique Well No.
Street Address of Well 44 WALNUT STREET	Reason For Abandonment  SOIL COMTAMINATION ASSESSMENT BORING
City, Village CHILTON	Date of Abandonment 15 JUL02
WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet)
(Date) /5 JUL 02    Monitoring Well   Construction Report Available?   Yes   No	Pump & Piping Removed? Yes No Not Applicable Liner(s) Removed? Yes No Not Applicable Screen Removed? Yes No Not Applicable Casing Left in Place? Yes No If No, Explain SOIL BORING NO ASIMU USEO
Construction Type:  Drilled  Driven (Sandpoint)  Dug  Other (Specify)  DIRECT PUSH	Was Casing Cut Off Below Surface? Yes No Did Sealing Material Rise to Surface? Yes No Did Material Settle After 24 Hours? Yes No If Yes, Was Hole Retopped? Yes No
Formation Type:  Unconsolidated Formation  Total Well Depth (ft.)  (From groundsurface)  Lower Drillhole Diameter (in.)  Was Well Annular Space Grouted?  If Yes, To What Depth?  Bedrock  Casing Diameter (in.)  Casing Depth (ft.)  WIA  Unknown  Feet	(5) Required Method of Placing Sealing Material  Conductor Pipe-Gravity Dump Bailer Cother (Explain) For monitoring wells and monitoring well boreholes only Sand-Cement (Concrete) Grout Concrete Clay-Sand Slurry Bentonite-Sand Slurry Chipped Bentonite  Conductor Pipe-Pumped For monitoring wells and monitoring wells and monitoring well boreholes only For monitoring well boreholes only
(7) Material Used To Fill Well/Drillhole	From (Ft.)  To (Ft.)  No. Yards, (Circle Sacks Sealant One)  or Volume  One)  Mix Ratio or Mud Weight
GRANULAR BENTONITE	Surface 8 41 SACK
(8) Comments:	
(9) Name of Person or Firm Doing Sealing Work  NORTH SHORE ORILLIMG INC.  Signature of Person Doing Work  Street or Route  P.O. COX Z 55  Telephone Number (262) 375-8121  City, State, Zip Code  GRAFTON WI 53024	(10) FOR DNR OR COUNTY USE ONLY  Date Received/Inspected District/County  Reviewer/Inspector Complying Work Noncomplying Work Follow-up Necessary
GRAFTON WI 53024	

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 3-95

(1) GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole SB-10 County CALUMET	Original Well Owner (If Known) HEWELL RUBBERMAIO
NE 1/4 of HW 1/4 of Sec. 18; T. 18 N; R. 20 W	Present Well Owner SAME
(If applicable)  Gov't Lot Grid Number	Street or Route 29 EAST STEPHENSON
Grid Location ft. N. S., ft. E. W.	City, State, Zip Code FREEPORT IL 61032
Civil Town Name	Facility Well No. and/or Name (If Applicable) WI Unique Well No.
Street Address of Well 44 WALHUT STREET	Reason For Abandonment SOIL COMTAMINATION ASSESSMENT BORING
City, Village CHILTON	Date of Abandonment 15 JULO 2
WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet) 5
(Date) 15 JUL 02	Pump & Piping Removed? Yes No Not Applicable
(Date)	Liner(s) Removed? Yes No Not Applicable
Monitoring Well Construction Report Available?	Screen Removed? Yes No Not Applicable
Water Well Yes No	Casing Left in Place? Yes No
Drillhole I es I No	If No, Explain SOIL BORING - NO CASIMO USED
Borehole	
Dorenoke	Was Casing Cut Off Below Surface? Yes No
Construction Type:	Did Sealing Material Rise to Surface? Yes No
	Did Material Settle After 24 Hours? Yes Wo
in Direct (Sandpoint)	If Yes, Was Hole Retopped? Yes No
Other (Specify) OIRECT PUSH	
Formation Type:	(5) Required Method of Placing Sealing Material
Unconsolidated Formation Bedrock	Conductor Pipe-Gravity Conductor Pipe-Pumped
$\sim$ $\sim$ $\sim$ $\sim$ $\sim$ $\sim$ $\sim$ $\sim$ $\sim$ $\sim$	Dump Bailer Other (Explain) 6RAVIT
Total Well Depth (ft.) 8 Casing Diameter (in.)	(6) Sealing Materials For monitoring wells and
(From groundsurface) Casing Depth (ft.)	Neat Cement Grout monitoring well boreholes only
	Sand-Cement (Concrete) Grout
Lower Drillhole Diameter (in.) 2.0	☐ Concrete ☐ Bentonite Pellets
<del></del>	Clay-Sand Slurry Granular Bentonite
Was Well Annular Space Grouted? Yes, No Unknown	☐ Bentonite-Sand Slurry ☐ Bentonite - Cement Grout
If Yes, To What Depth? Feet	Chipped Bentonite
(7) Material Head To Fill Well (Dellihole	From (Ft.) To (Ft.) Sacks Sealant (Circle Mix Ratio
Material Used To Fill Well/Drillhole	or Volume One) or Mud Weight
GRANULAR BENTONITE	Surface 8 LISACK
(8) Comments:	
(9) Name of Person or Firm Doing Sealing Work	(410)
	(10) FOR DNR OR COUNTY USE ONLY
	Date Received/Inspected District/County
Signature of Person Doing Work Date Signed	Parisandamentos D. C. L. W.
Street or Route O O O Telephone Number	Reviewer/Inspector Complying Work
Street or Route P. O. Cox 255 Telephone Number (262) 375-8121	Noncomplying Work
City State 7in Code	Follow-up Necessary
City, State, Zip Code GRAFTON WI 53024	

hichever is applicable. Also, see instructions on back.

### WELL/DRILLHOLE/BOREHOLE ABANDONMENT

abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or NR 141, Wis. Adm. Code,

(1) GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole SB-12 County CALUMET	Original Well Owner (If Known) HEWELL RUBBERMAIO
NE 1/4 of <u>HW</u> 1/4 of Sec. <u>18</u> ; T. <u>18</u> N; R. <u>20</u> W	Present Well Owner  SAME
Gov't Lot Grid Number	Street or Route 29 EAST STEPHENSON
Grid Location ft. N. S., ft. E. W.	City, State, Zip Code FREEPORT IL 61032
Civil Town Name	Facility Well No. and/or Name (If Applicable) WI Unique Well No.
Street Address of Well 44 WALHUT STREET	Reason For Abandonment SOIL COMTAMINATION ASSESSMENT BORING
City, Village CHILTON	Date of Abandonment 15 JULO 2
WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet)
(Date) /5 JUL 02	Pump & Piping Removed? Yes No No Not Applicable
Monitoring Well  Water Well Drillhole Borehole  Construction Report Available?  Yes No	Liner(s) Removed?  Screen Removed?  Casing Left in Place?  If No, Explain  Soil  Boriel-No (ASIME USEO)
Construction Type:  Drilled Driven (Sandpoint) Dug  Other (Specify) OIRECT PUSH	Was Casing Cut Off Below Surface? Yes No Did Sealing Material Rise to Surface? Yes No Did Material Settle After 24 Hours? Yes No If Yes, Was Hole Retopped? Yes No  (5) Required Method of Placing Sealing Material
Formation Type:  Unconsolidated Formation  Total Well Depth (ft.) 8 Casing Diameter (in.) (From groundsurface) Casing Depth (ft.) 1/1/2  Lower Drillhole Diameter (in.) 2.0  Was Well Annular Space Grouted? Yes, No Unknown If Yes, To What Depth?	Conductor Pipe-Gravity Dump Bailer Cother (Explain) GRAVIT  (6) Sealing Materials Neat Cement Grout Sand-Cement (Concrete) Grout Concrete Clay-Sand Slurry Conductor Pipe-Pumped For monitoring wells and monitoring well boreholes only Bentonite Pellets Cranular Bentonite
(7) Material Used To Fill Well/Drillhole	From (Ft.)  To (Ft.)  No. Yards, (Circle Mix Ratio or Volume One)  One or Mud Weight
GRANULAR BENTONITE	Surface 8 41 SACK
·	
(8) Comments:	
(9) Name of Person or Firm Doing Sealing Work  NORTH SHORE DRILLIMG INC.  Signature of Person Doing Work  Date Signed  Street or Route DO RAM 755 Telephone Number	(10) FOR DNR OR COUNTY USE ONLY  Date Received/Inspected District/County  Reviewer/Inspector Complying Work  Noncomplying Work
Street or Route P.O. COX Z 55 Telephone Number (262) 375-8121  City, State, Zip Code GRAFTON WI 53024	Folkiw-up Necessary