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29 November 2000

Rec'd 11/30/02 \$4

Ms. Lolita Hill
U.S. Environmental Protection Agency
Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

U.S. EPA Contract No.: 68-W7-0026

Work Assignment No.: 026-RARA-05N1

Document Control No.: RFW026-2A-AGQO

Subject:

Remedial Action Report

Scrap Processing

Dear Ms. Hill:

Roy F. Weston, Inc. (WESTON<sub>®</sub>) is pleased to submit two copies of the Remedial Action Report for the Scrap Processing site in Medford, Wisconsin.

Please contact me at (847) 918-4042 if you have any comments and/or questions.

Very truly yours,

ROY F. WESTON, INC.

William F. Karlovitz, P.E.

Site Manager

WFK:kms

Enclosure

308miled 11/30/00 AM

## REMEDIAL ACTION REPORT SCRAP PROCESSING MEDFORD, WISCONSIN

#### Prepared For:

United States Environmental Protection Agency
Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

Prepared By:

**ROY F. WESTON, INC.** 750 E. Bunker Ct., Suite 500 Vernon Hills, Illinois 60061

November 2000

This document was prepared by Roy F. Weston, Inc. In accordance with the terms of the U.S. EPA Region V Contract No. 68-W7-0026.

#### TABLE OF CONTENTS

Section	<u>n</u>	<u>Title</u>	Page
1 .	INTR	ODUCTION	1-1
	1.1	Site Location and Description	1-1
	1.2	Site History	1-1
	1.3	Scope of Work	1-2
2	CHR	ONOLOGY OF EVENTS	2-1
	2.1	Preliminary Activities	2-1
	2.2	Onsite Activities	2-1
3	PERF	ORMANCE STANDARDS AND CONSTRUCTION QUALITY CONTROL	3-1
	3.1	Remedial Action Plans	3-1
	3.2	Quality Control Testing	3-1
	3.3	Confirmation Sampling	3-2
	3.4	Project Reports and Control Summary	3-3
4	CON	STRUCTION ACTIVITIES	4-1
	4.1	Mobilization and Demobilization	4-2
	4.2	Erosion and Sediment Control Structures	4-3
	4.3	Clearing and Grubbing	4-3
	4.4	Soil Excavation	4-4
	4.5	Soil Stabilization	4-4
	4.6	Soil Transportation and Disposal	4-5
	4.7	Backfilling	4-6
	4.8	Topsoil	4-6
	4.9	Fence and Gates	4-6
	4.10	Finish Grading and Seeding	4-6
	4.11	Problems Encountered	4-7
5	FINA	L INSPECTION	5-1
6	CERT	TFICATION THAT REMEDY IS OPERATIONAL AND FUNCTIONAL	6-1
7	OPER	ATION AND MAINTENANCE	7-1
8	SUMI	MARY OF PROJECT COSTS	8-1
	8.1	Soil Excavation	8-1
	8.2	Soil Stabilization	8-1
	8.3	Soil Sampling	8-2
	8.4	Surface Water Removal	8-2

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#### LIST OF FIGURES

<u>Figure</u>	<u>Title</u>
G-1	Existing Site Conditions
G-2	Site Preparation Plan
G-3	Site Excavation Plan
G-4	Site Seeding and Gravel Plan
G-5	Site Soil Stabilization Plan
G-6	Detail Sheet

#### LIST OF TABLES

<u>Table</u>	<u>Title</u>
Table 3-1	Total Lead Soil Confirmation Sampling
Table 3-2	TCLP Lead Soil Confirmation Sampling

### LIST OF APPENDICES

Appendix A	Submittal Log
Appendix B	Monitoring Well Construction Diagrams, Well Development Logs, Soil Boring Logs, and Monitoring Well Abandonment Logs
Appendix C	Figures

Section: 1 Revision: 0

Date: 30 October 2000

Page: 1 of 2

**SECTION 1** 

INTRODUCTION

This report is a summary of work performed by Roy F. Weston, Inc. (WESTON®) and its

subcontractors, for the remediation of the Scrap Processing (SP) site in Medford, Wisconsin.

1.1 SITE LOCATION AND DESCRIPTION

The Scrap Processing (SP) Site is a salvage yard and former battery cracking facility that now

operates as a scrap processing dealership and recycler. The site is located at 510 West Allman Street

in Medford, Taylor County, Wisconsin. The site covers approximately 15 acres and is located east

of the Black River and City of Medford property. The site lies within the Medford United States

Geological Survey (USGS) quadrangle. Site coordinates are latitude 45° 08.5' N and longitude 90°

21.2' W. Figure 1-1 shows the site location.

1.2 SITE HISTORY

The Scrap Processing Site is owned and operated by Mark and Pat Potaczek. They are the sons of

the deceased original scrap yard owner and operator, Julius Potaczek. In the mid-1950s, scrap yard

operations began with activities that included crushing cars and large appliances. From the 1950s

until 1974, battery cracking occurred. After that time, the battery cracking allegedly was reduced,

and finally ceased in the early 1980s. In 1984, the Scrap Processing Site was placed on the National

Priorities List (NPL) and designated a Superfund site. An existing site layout is depicted in Figure

1-2.

RFW026-2A-AGQO

Section: 1 Revision: 0

Date: 30 October 2000

Page: 2 of 2

#### 1.3 SCOPE OF WORK

Under the SOW of the ROD issued on 30 September 1997, the construction activities that took place at the Scrap Processing site included

- Excavation of lead contaminated soils exceeding 500 ppm, site restoration including backfill with clean soil, grading and revegetation to prevent erosion.
- Off-site disposal of excavated contaminated soils at a solid waste landfill determined to be operating in compliance with applicable permits and state requirements.
- Installation of a security fence along the perimeter of the site.
- Installation of groundwater monitoring wells in the source area next to the battery cracking building, and repair, as needed, of other existing wells to be included in the groundwater monitoring network.
- Development of a groundwater monitoring plan.

Additionally, lead leaching site soil identified by previous Remedial Design Sampling was required to be stabilized prior to being accepted by the solid waste landfill. Therefore, the lead leaching soil was stabilized using a phosphate reagent. Once the soil and reagent were mixed, it was stockpiled in its excavation and tested for TCLP lead. Once the soil tested below 5 mg/L, (TCLP lead limit) it was transported to the landfill.

#### TABLE 3-1 SCRAP PROCESSING SOIL REMEDIATION

#### TOTAL LEAD SOIL CONFIRMATION SAMPLING MEDFORD, WISCONSIN 3 DECEMBER 1999

DATE TAKEN	DATE RECEIVED BY	LAB SAMPLE NUMBER	PROJECT SAMPLE NUMBER	STATION NUMBER	TOTAL LEAD (MG/KG)	ACTION TAKEN	RESAMPLED STATION NUMBER
01-Nov-99	04-Nov-99	17239	2000ZG02S01	SP1-SS01-01	21	No Action Taken	
01-Nov-99	04-Nov-99	17240	2000ZG02S02	SP1-SS02-01	29	No Action Taken	
01-Nov-99	04-Nov-99	17241	2000ZG02S03	SP1-SS03-01	29	No Action Taken	-
02-Nov-99	04-Nov-99	17242	2000ZG02S04	SP1-SS04-01	43	No Action Taken	
02-Nov-99	04-Nov-99	17243	2000ZG02D04	SP1-SS04-01DP	40	No Action Taken	<del>                                     </del>
02-Nov-99	04-Nov-99	17244	2000ZG02S05	SP1-SS05-01	35	No Action Taken	<del>                                     </del>
02-Nov-99	04-Nov-99	17245	2000ZG02S06	SP1-SS06-01	18	No Action Taken	
02-Nov-99	04-Nov-99	17245	2000ZG02S07	SP1-SS07-01	67	No Action Taken	<del></del>
02-Nov-99	04-Nov-99		2000ZG02S07 2000ZG02S08			No Action Taken	
02-Nov-99		17247		SP1-SS08-01	33		<u> </u>
	04-Nov-99	17248	2000ZG02S09	SP1-SS09-01	80	No Action Taken	
03-Nov-99	04-Nov-99	17249	2000ZG02S10	SP1-SS10-01	74	No Action Taken	
03-Nov-99	04-Nov-99	17250	2000ZG02S11	SP1-SS11-01MSD	291	No Action Taken	
03-Nov-99	04-Nov-99	17251	2000ZG02S12	SP1-SS12-01	39	No Action Taken	
03-Nov-99	04-Nov-99	17252	2000ZG02S13	SP1-SS13-01	55	No Action Taken	
03-Nov-99	04-Nov-99	17253	2000ZG02D14	SP1-SS13-01DP	57	No Action Taken	<u> </u>
04-Nov-99	04-Nov-99	17255	2000ZG02S15	SP1-SS15-01	11 80C	Excavte and resample	S83
04-Nov-99	04-Nov-99	17259	2000ZG02D15	SP1-SS15-01DP	10.800	Excavte and resample	\$83
04-Nov-99	04-Nov-99	17256	2000ZG02S16	SP1-SS16-01	185	No Action Taken	
04-Nov-99	04-Nov-99	17257	2000ZG02S17	SP1-SS17-01	275	No Action Taken	
04-Nov-99	04-Nov-99	17258	2000ZG02S18	SP1-SS18-01	1 000	Excavte and resample	S70
05-Nov-99	08-Nov-99	17279	2000ZG02S19	SP1-SS19-01	17	No Action Taken	
05-Nov-99	08-Nov-99	17280	2000ZG02S20	SP1-SS20-01	13	No Action Taken	
05-Nov-99	08-Nov-99	17281	2000ZG02S21	SP1-SS21-01	19	No Action Taken	
05-Nov-99	08-Nov-99	17282	2000ZG02S22	SP1-SS22-01	21	No Action Taken	
05-Nov-99	08-Nov-99	17283	2000ZG02D22	SP1-SS22-01DP	18	No Action Taken	
05-Nov-99	08-Nov-99	17284	2000ZG02S23	SP1-SS23-01	<b>540</b>	Excavte and resample	S77
05-Nov-99	08-Nov-99	17285	2000ZG02S24	SP1-SS24-01	596	Excavte and resample	S84
08-Nov-99	08-Nov-99	17321	2000ZG02S25	SP1-SS25-01	31	No Action Taken	
08-Nov-99	08-Nov-99	17322	2000ZG02S26	SP1-SS26-01	23	No Action Taken	
08-Nov-99	08-Nov-99	17323	2000ZG02S27	SP1-SS27-01	97	No Action Taken	
08-Nov-99	08-Nov-99	17323	2000ZG02S28	SP1-SS28-01	96	No Action Taken	
09-Nov-99	10-Nov-99		2000ZG02S29			Stabilize and excavate	
		17374		SP1-SS29-01	8,470		
09-Nov-99	10-Nov-99	17375	2000ZG02S30	SP1-SS30-01	52	No Action Taken	
09-Nov-99	10-Nov-99	17376	2000ZG02S31	SP1-SS31-01	35	No Action Taken	
09-Nov-99	10-Nov-99	17377	2000ZG02S32	SP1-SS32-01	55	No Action Taken	
10-Nov-99	10-Nov-99	17387	2000ZG02S33	SP1-SS33-01	2,330	Excavte and resample	S82/S89/S81
10-Nov-99	10-Nov-99	17388	2000ZG02S34	SP1-SS34-01	7.720 7.20	Excavte and resample	S82/S89/S81
10-Nov-99	10-Nov-99	17389	2000ZG02S35	SP1-SS35-01	720	Excavte and resample	S87/S88/S86
10-Nov-99	10-Nov-99	17390	2000ZG02S36	SP1-SS36-01	978	Excavte and resample	S87/S88/S86
11-Nov-99	12-Nov-99	17459	2000ZG02S37	SP1-SS37-01	Ø19	Taken at 4.5 ft bgs	586
11-Nov-99	12-Nov-99	17460	2000ZG02S38	SP1-SS38-01	72	No Action Taken	
11-Nov-99	12-Nov-99	17461	2000ZG02S39	SP1-SS39-01	13	No Action Taken	
11-Nov-99	12-Nov-99	17462	2000ZG02S40	SP1-SS40-01	46	No Action Taken	
11-Nov-99	12-Nov-99	17463	2000ZG02S41	SP1-SS41-01	16	No Action Taken	
11-Nov-99	12-Nov-99	17464	2000ZG02S42	SP1-SS42-01	73	No Action Taken	
11-Nov-99	12-Nov-99	17465	2000ZG02S43	SP1-SS43-01	17	No Action Taken	
11-Nov-99	12-Nov-99	17466	2000ZG02S44	SP1-SS44-01	16	No Action Taken	
11-Nov-99	12-Nov-99	17467	2000ZG02S45	SP1-SS45-01MSD	18	No Action Taken	
12-Nov-99	15-Nov-99	17475	2000ZG02S46	SP1-SS46-01	140	No Action Taken	
12-Nov-99	15-Nov-99	17476	2000ZG02S47	SP1-SS47-01	234	No Action Taken	
12-Nov-99	15-Nov-99	17476	2000ZG02S47 2000ZG02S48	SP1-SS48-01	58	No Action Taken	
12-Nov-99	15-Nov-99	17478	2000ZG02S49	SP1-SS49-01	130	No Action Taken	<u> </u>
		17479				No Action Taken	
12-Nov-99	15-Nov-99		2000ZG02S50	SP1-SS50-01	314		
12-Nov-99	15-Nov-99	17480	2000ZG02D50	SP1-SS50-01DP	275	No Action Taken	
15-Nov-99	16-Nov-99	17497	2000ZG02S51	SP1-SS51-01	252	No Action Taken	
15-Nov-99	16 Nov 99	17498	20007@02552	SD1_SS52_01	336	No Action Taken	1

2000ZG02S52

2000ZG02S53

2000ZG02S54

2000ZG02S55

2000ZG02S56

SP1-SS52-01

SP1-SS53-01

SP1-SS54-01

SP1-SS55-01

SP1-SS56-01

336

840

945

1030

274

15-Nov-99

15-Nov-99

15-Nov-99

15-Nov-99

16-Nov-99

S75

S74

569

No Action Taken

Excavate 6 inches, stabilize, and

Excavate 6 inches, stabilize, and

Excavate 6 inches, stabilize, and

No Action Taken

resample

resample

resample

17498

17499

17500

17501

17502

16-Nov-99

16-Nov-99

16-Nov-99

16-Nov-99

17-Nov-99

#### TABLE 3-1 SCRAP PROCESSING

#### SOIL REMEDIATION

#### TOTAL LEAD SOIL CONFIRMATION SAMPLING MEDFORD, WISCONSIN 3 DECEMBER 1999

DATE TAKEN DATE RECEIVED BY LAB		LAB SAMPLE NUMBER	PROJECT SAMPLE NUMBER	STATION NUMBER	TOTAL LEAD (MG/KG)	ACTION TAKEN	RESAMPLED STATION NUMBE
16-Nov-99	17-Nov-99	17503	2000ZG02S57	SP1-SS57-01	943	Excavate 6 inches, stabilize, and resample	S72
16-Nov-99	17-Nov-99	17504	2000ZG02S58	SP1-SS58-01	360	No Action Taken	
16-Nov-99	17-Nov-99	17505	2000ZG02S59	SP1-SS59-01	5672	Excavate 6 inches, stabilize, and resample	S73
16-Nov-99	17-Nov-99	17506	2000ZG02D59	SP1-SS59-01-DP	752	Excavate 6 inches, stabilize, and resample	\$73
17-Nov-99	18-Nov-99	17561	2000ZG02S60	SP1-SS60-01	547	Excavate 6 inches, stabilize, and resample	S80/S87/S88
17-Nov-99	18-Nov-99	17562	2000ZG02S61	SP1-SS61-01	36	No Action Taken	
17-Nov-99	18-Nov-99	17563	2000ZG02S62	SP1-SS62-01	230	No Action Taken	
18-Nov-99	19-Nov-99	17595	2000ZG02S63	SP1-SS63-01	527	Excavate 6 inches, stabilize, and resample	S85/S87/S88
18-Nov-99	19-Nov-99	17596	2000ZG02S64	SP1-SS64-01	153	No Action Taken	
18-Nov-99	19-Nov-99	17597	2000ZG02S65	SP1-SS65-01	255	No Action Taken	
18-Nov-99	19-Nov-99	17598	2000ZG02S66	SP1-SS66-01MSD	165	No Action Taken	
18-Nov-99	19-Nov-99	17599	2000ZG02S67	SP1-SS67-01	494	No Action Taken	
18-Nov-99	19-Nov-99	17600	2000ZG02S68	SP1-SS68-01	598	Excavate 6 Inches, stabilize, and resample	S78
18-Nov-99	19-Nov-99	17601	2000ZG02S69	SP1-SS69-01	33	No Action Taken	
18-Nov-99	22-Nov-99	17617	2000ZG02S70	SP1-SS70-01	396	No Action Taken	
18-Nov-99	22-Nov-99	17618	2000ZG02S71	SP1-SS71-01	345	No Action Taken	
19-Nov-99	22-Nov-99	17619	2000ZG02S72	SP1-SS72-01	18	No Action Taken	
19-Nov-99	22-Nov-99	17620	2000ZG02S73	SP1-SS73-01	93	No Action Taken	
19-Nov-99	22-Nov-99	17621	2000ZG02S74	SP1-SS74-01	417	No Action Taken	
19-Nov-99	22-Nov-99	17622	2000ZG02S75	SP1-SS75-01	36 -	No Action Taken	<u> </u>
19-Nov-99	22-Nov-99	17623	2000ZG02S76	SP1-SS76-01	49	No Action Taken	
19-Nov-99	22-Nov-99	17624	2000ZG02D76	SP1-SS76-01DP	77	No Action Taken	<u> </u>
19-Nov-99	22-Nov-99	17625	2000ZG02S77	SP1-SS77-01	86	No Action Taken	
23-Nov-99	24-Nov-99	17657	2000ZG02S78	SP1-SS78-01	31	No Action Taken	
23-Nov-99	24-Nov-99	17658	2000ZG02S79	SP1-SS79-01	39	No Action Taken	
23-Nov-99	24-Nov-99	17659	2000ZG02S80	SP1-SS80-01	11	No Action Taken	
23-Nov-99	24-Nov-99	17660	2000ZG02D80	SP1-SS80-01DP	9.4	No Action Taken	
23-Nov-99	24-Nov-99	17661	2000ZG02S81	SP1-SS81-01	37	No Action Taken	
24-Nov-99	29-Nov-99	17667	2000ZG02S82	SP1-SS82-01	961	Excavate 6 Inches, stabilize, and resample	\$89
24-Nov-99	29-Nov-99	17668	2000ZG02S83	SP1-SS83-01	76	No Action Taken	
					A CONTRACTOR OF THE CONTRACTOR		]
24-Nov-99	29-Nov-99	17669	2000ZG02S84	SP1-SS84-01	13	No Action Taken	
30-Nov-99	01-Dec-99	17710	2000ZG02S85	SP1-SS85-01	20	No Action Taken	
30-Nov-99	01-Dec-99	17711	2000ZG02D85	SP1-SS85-01DP	54	No Action Taken	
30-Nov-99	01-Dec-99	17712	2000ZG02S86	SP1-SS86-01	42	No Action Taken	
30-Nov-99	01-Dec-99	17713	2000ZG02S87	SP1-SS87-01	27	No Action Taken	
30-Nov-99	01-Dec-99	17714	2000ZG02S88	SP1-SS88-01	27	No Action Taken	
01-Dec-99	02-Dec-99	17779	2000ZG02S89	SP1-SS89-01	19	No Action Taken	
01-Dec-99	02-Dec-99	17780	2000ZG02S90	SP1-SS90-01	69	No Action Taken	
01-Dec-99	02-Dec-99	17781	2000ZG02D90	SP1-SS90-01DP	86	No Action Taken	

# TABLE 3-2 SOIL REMEDIATION TCLP LEAD SOIL CONFIRMATION SAMPLING 3 DECEMBER 1999

ANALYTICAL ABOVE LEAD TCLP LIMIT OF 5 MG/L

DATE TAKEN	DATE RECEIVED BY LAB	LAB SAMPLE NUMBER	PROJECT SAMPLE NUMBER	STABILIZATION AREA	TCLP (MG/L)	ACTION TAKEN	Resampled Stabilization Area
11/04/1999	11/06/1999	255527	S-1	A-C	0.077	No Action Taken	
11/04/1999	11/06/1999	255528	S-2	В	9.81	Restabilize and resample	A5/A6
11/04/1999	11/06/1999	255529	S-3	D	0.002	No Action Taken	
11/08/1999	11/09/1999	255728	S-4	S-15 and S-18	235	Stabilize and sample	A2/A3
11/08/1999	11/09/1999	255729	S-5	T	0.022	No Action Taken	
11/08/1999	11/09/1999	255730	S-6	S	1.4	No Action Taken	
11/10/1999	11/11/1999	255971	S-7	Area L-1-batteries	NA	No Action Taken	
11/10/1999	11/11/1999	255972	S-8	В	<0.001	No Action Taken	
11/10/1999	11/11/1999	255973	S-9	В	0.208	No Action Taken	
11/11/1999	11/12/1999	256100	S-10	R	0.047	No Action Taken	
11/11/1999	11/12/1999	256101	S-11	Р	<0.001	No Action Taken	
11/11/1999	11/12/1999	256102	S-12	Area L-1-batteries	10.8	Excavate batteries & resample	
11/11/1999	11/12/1999	256103	S-13	· Proba	0.033	No Action Taken	
11/11/1999	11/12/1999	256104	S-14	Q	0.105	No Action Taken	
11/12/1999	11/15/1999	256169	S-15	Treatability study- untreated sample Treatability study-	129	No Action Taken	
11/12/1999	11/15/1999	256170	S-16	1.5% reagent	1.62	No Action Taken	
11/12/1999	11/15/1999	256171	S-17	Treatability study- 2% reagent Treatability study-	0.462	No Action Taken	
11/12/1999	11/15/1999	256172	S-18	2.5% reagent	0.623	No Action Taken	
11/15/1999	11/16/1999	256226	S-19		0.141	No Action Taken	
11/15/1999	11/16/1999	256227	S-20	Н	0.693	No Action Taken	
11/15/1999	11/16/1999	256228	S-21		0.002	No Action Taken	
11/15/1999	11/16/1999	256229	S-22	G	0.177	No Action Taken	
11/17/1999	11/18/1999	256630	S-23	K	2.29	No Action Taken	

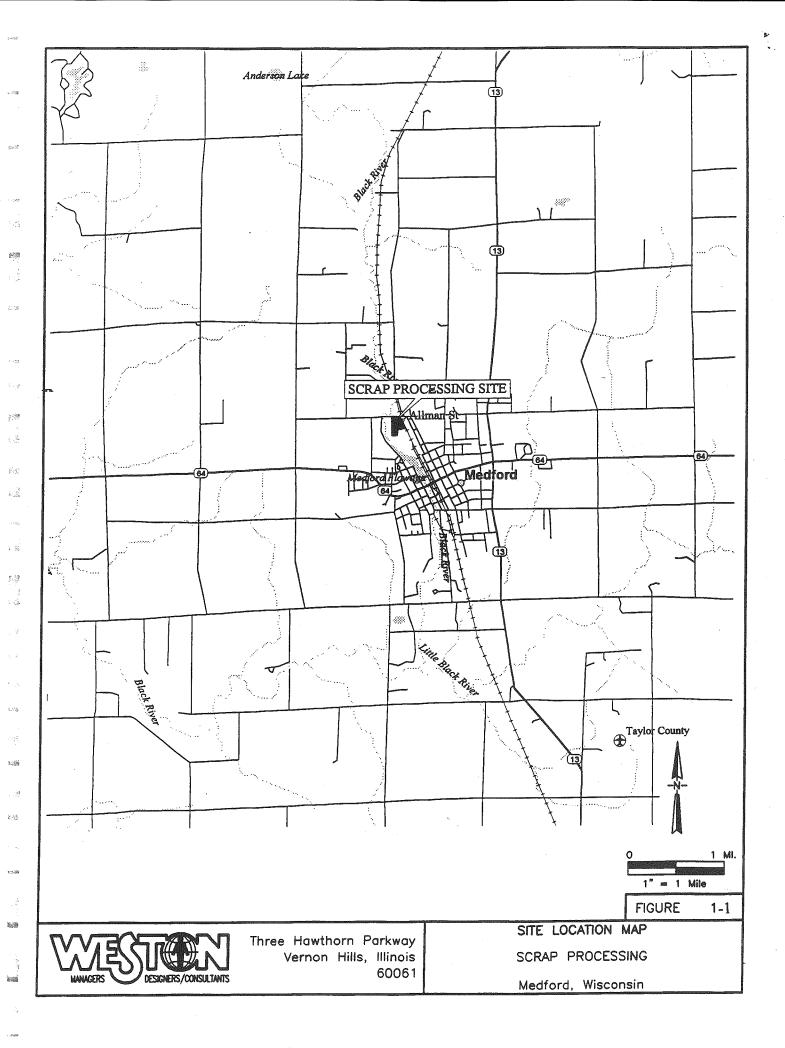
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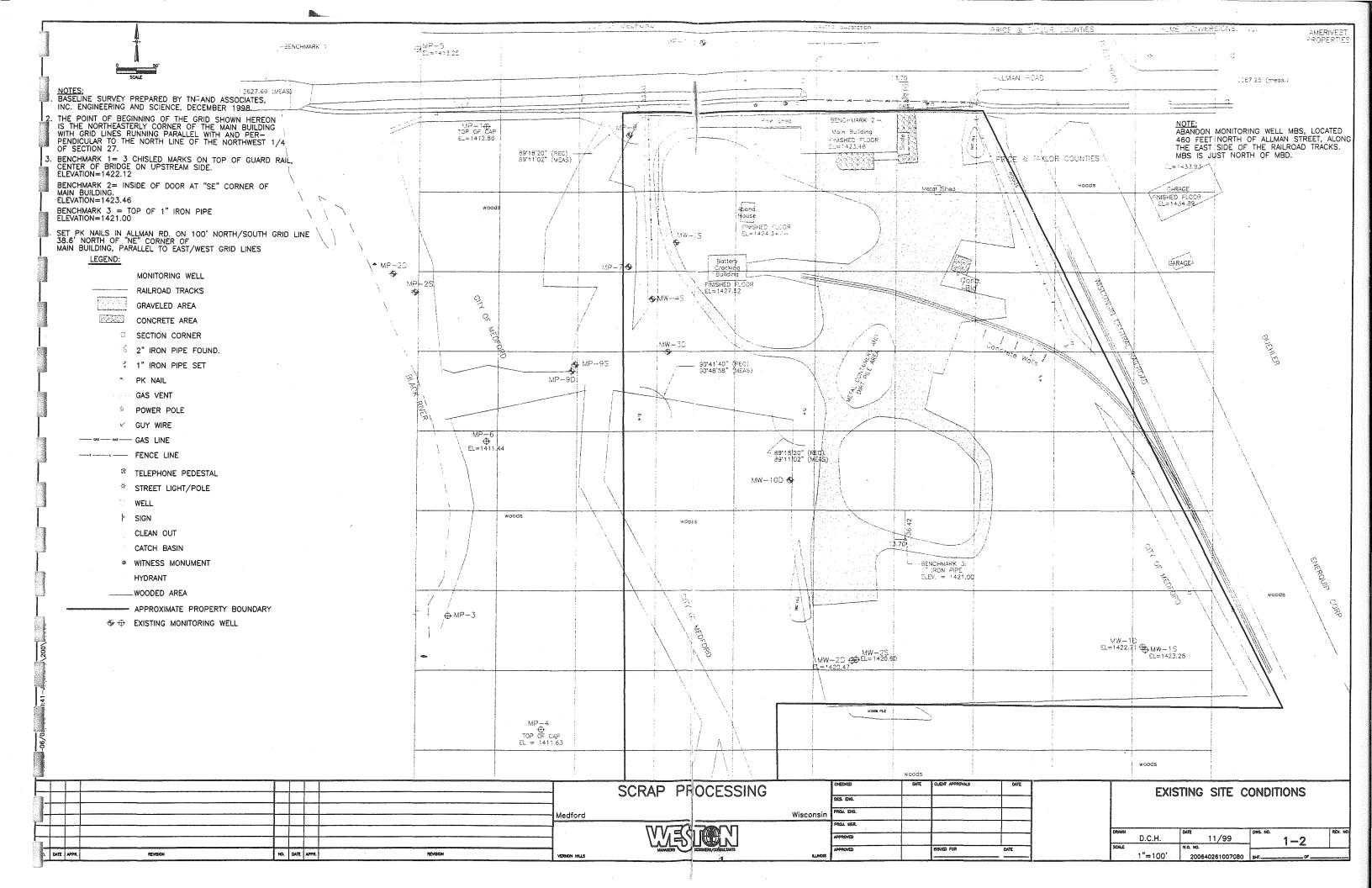
## TABLE 3-2 SOIL REMEDIATION TCLP LEAD SOIL CONFIRMATION SAMPLING 3 DECEMBER 1999

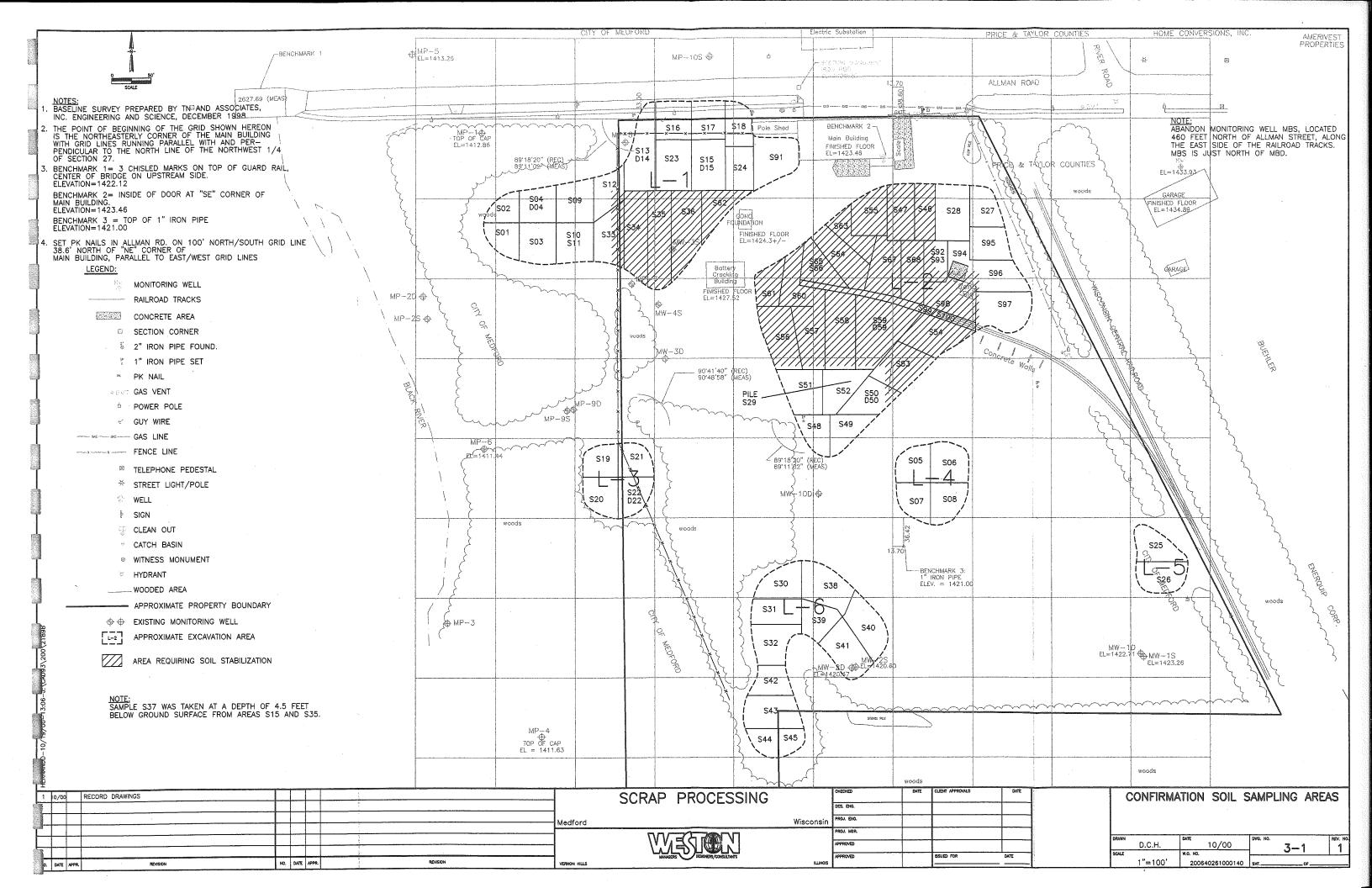
ANALYTICAL ABOVE LEAD TCLP LIMIT OF 5 MG/L

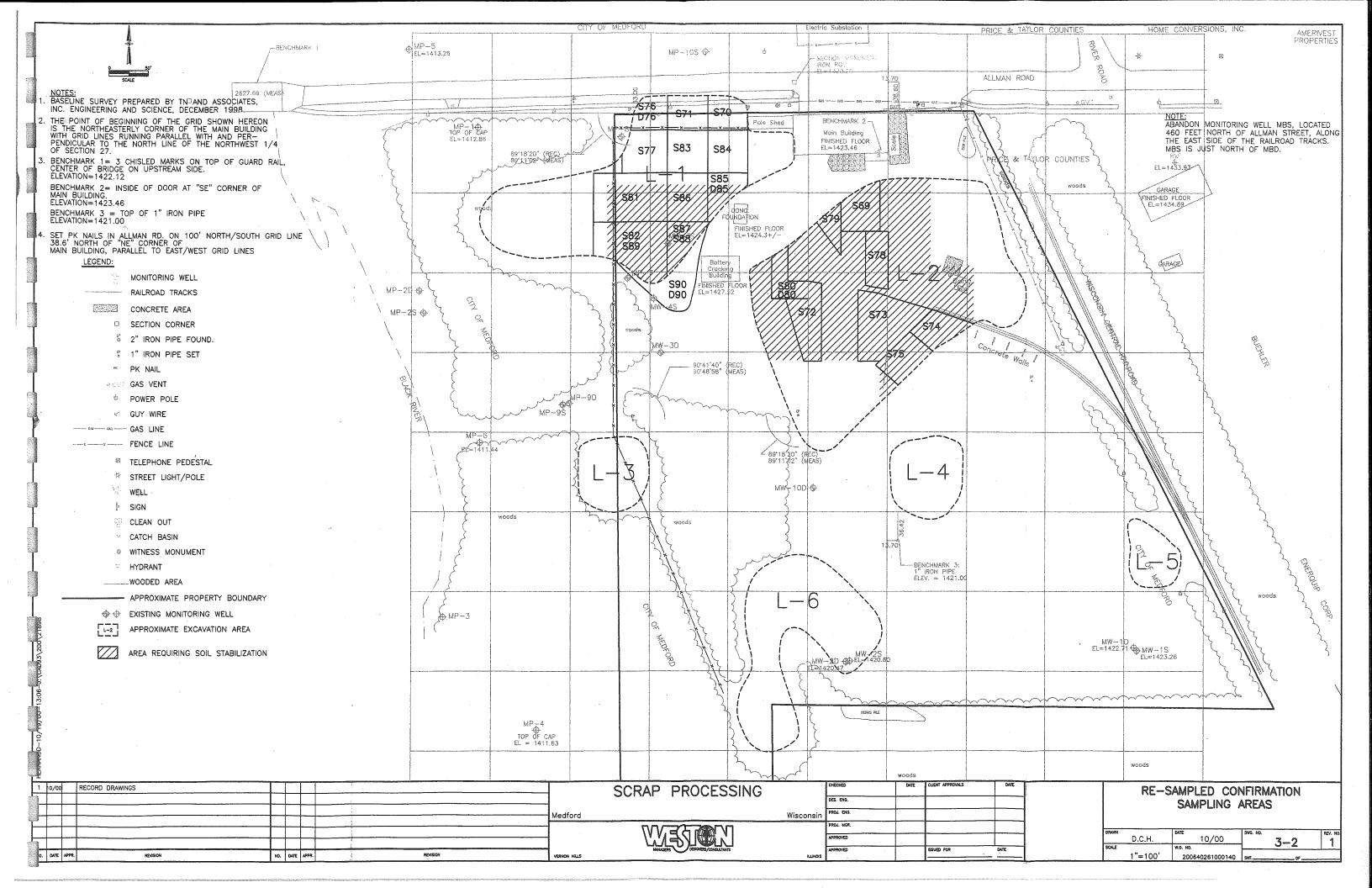
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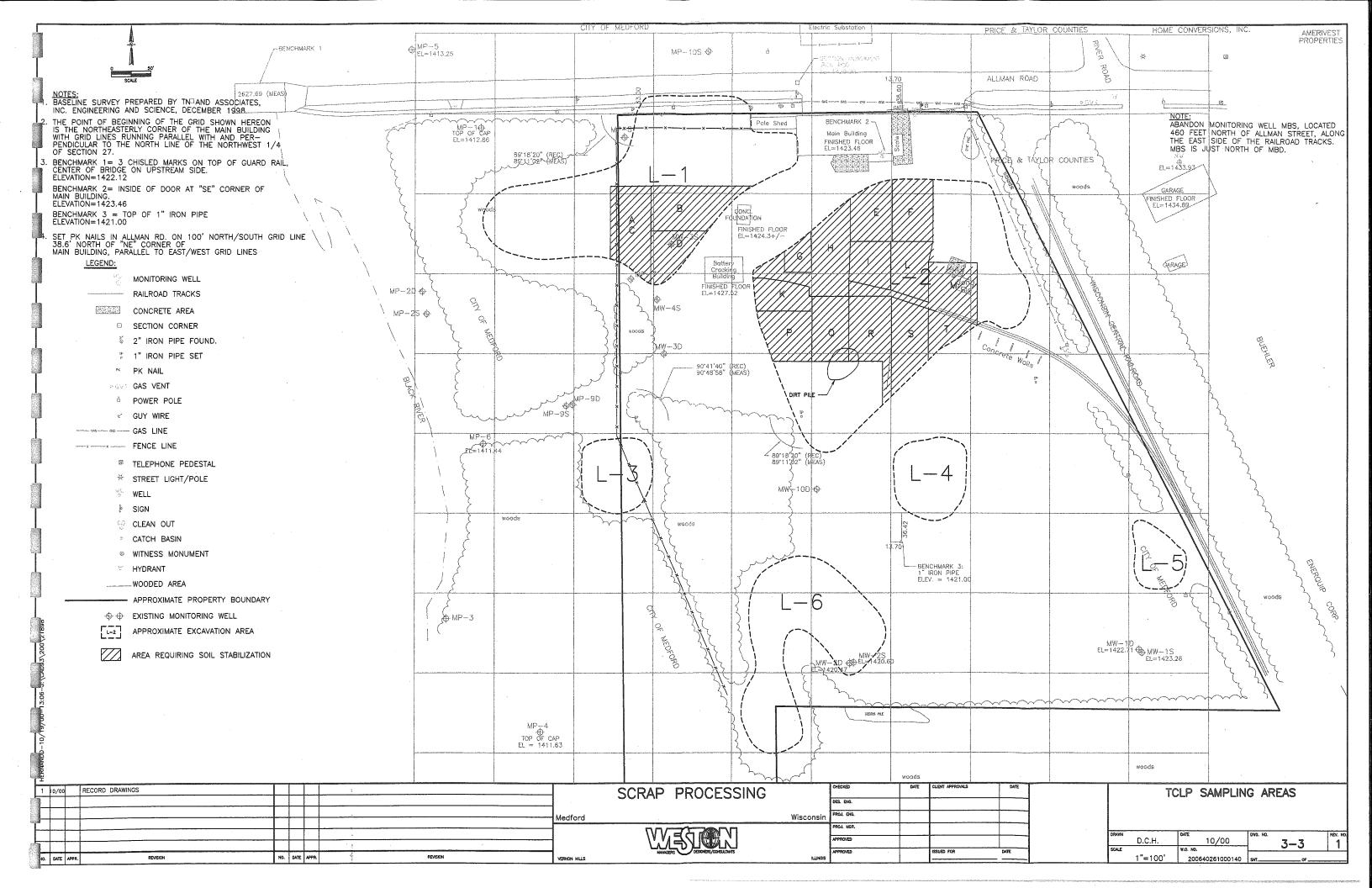
DATE	DATE RECEIVED	LAB SAMPLE	PROJECT SAMPLE	STATION	TCLP		Resampled Stabilization
TAKEN	BY LAB	NUMBER	NUMBER	NUMBER	(MG/L)	ACTION TAKEN	Area
11/18/1999	11/19/1999	256846	S-24	A1	0.147	No Action Taken	
11/18/1999	11/19/1999	256847	S-25	L-2, south of tracks	0.054	No Action Taken	
11/18/1999	11/19/1999	256848	S-26	A2	0.238	No Action Taken	
11/19/1999	11/22/1999	256857	S-27	A3	17.5	Restabilize and resample	S-33
11/19/1999	11/22/1999	256858	S-28	A4	0.873	No Action Taken	
11/19/1999	11/22/1999	256859	S-29	L-2, dirt pile	1.02	No Action Taken	
11/23/1999	11/24/1999	257092	S-30	S78,S79,S80	<0.001	No Action Taken	
11/23/1999	11/24/1999	257093	S-31	A5	0.18	No Action Taken	
11/23/1999	11/24/1999	25794	S-32	A7	<0.001	No Action Taken	
11/29/1999	11/30/1999	257338	S-33	A3 Restabilize	0.103	No Action Taken	A3
11/29/1999	11/30/1999	257339	S-34	A6	0.01	No Action Taken	
11/29/1999	11/30/1999	257340	S-35	A8	0.014	No Action Taken	

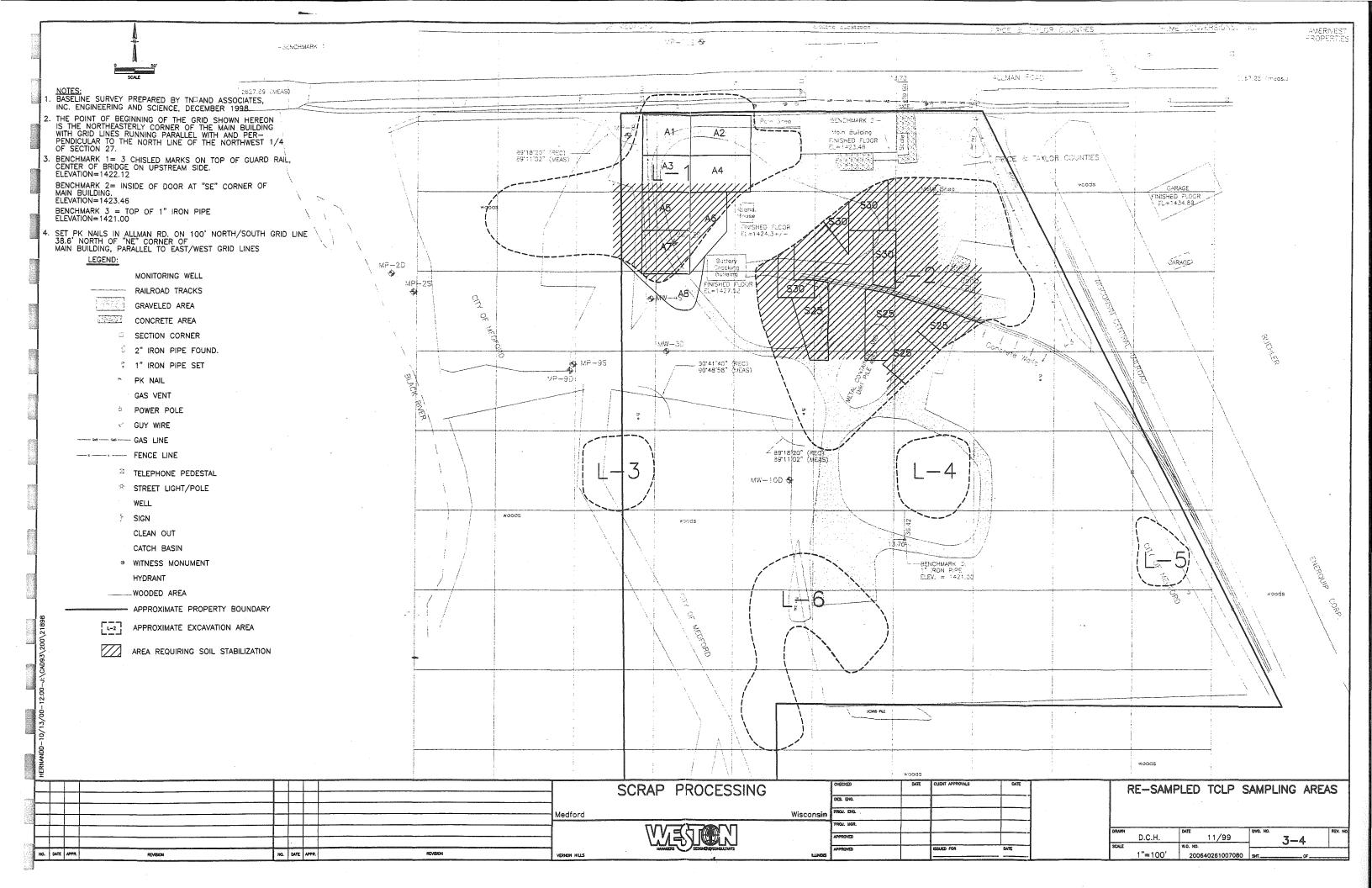












Scrap Processing Remedial Action Report Section: 2 Revision: 0

Date: November 2000

Page: 1 of 3

#### **SECTION 2**

#### **CHRONOLOGY OF EVENTS**

The following is a summary of the major events and the actual start dates associated with the remedial action, beginning with the signing of the ROD in of 1997. There are some activities that were ongoing throughout the project and the finish date coincides with project completion. The chronological events are discussed in more detail in Section Four, Construction Activities, of this document.

#### 2.1 PRELIMINARY ACTIVITIES

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A pre-construction meeting was held at the site on 7 October 1999.

WESTON issued the notice to proceed to its subcontractor, North Star Environmental Construction (NorthStar), on 13 October 1999.

Development of the Site Specific Health and Safety Plan and other pre-construction submittals and contractor pre-construction planning. Start date 18 October 1999 and completion date 5 November 1999. A submittal log is presented in Appendix A.

Pre-qualification of borrow sources started on 25 October 1999, by Ayres Associates, a subcontractor to NorthStar. Approval for the general fill material was received from the U.S. EPA on 15 November 1999.

Mobilization of construction equipment and subcontractors. Start date 26 October 1999. (This activity was ongoing throughout the project.)

The baseline survey and initial site layout and photographic documentation of conditions existing prior to construction activities. Start date was 27 October 1999 and was completed on 24 November 1999.

#### 2.2 ONSITE ACTIVITIES

Construction of temporary field support facilities, mobilization of heavy equipment, and installation of erosion and sediment control structures (silt fence) along the west side of the site was initiated on 26 October 1999 and completed on 29 October 1999.

Section: 2 Revision: 0

Date: November 2000

Page: 2 of 3

Clearing and grubbing of trees and brush within the limits of the excavation areas was started on 26 October and was completed on 5 November 1999.

Air monitoring during excavation activities began on 1 November 1999 and continued through excavation activities.

Excavation of designated contaminated areas began on 1 November 1999 and was completed on 7 December 1999.

Confirmation soil sampling of the excavated areas began on 1 November 1999 and was completed on 7 December 1999.

Installation of a decontamination pad began and was completed on 3 December 1999.

Transportation of excavated contaminated material to Cranberry Creek Landfill began 2 November 1999 and was completed on 7 December 1999.

The discovery of additional waste (battery casings) not defined in the remedial action occurred on 3 November 1999.

Stabilization of soil above the TCLP lead limit began on 3 November 1999.

TCLP sampling of stabilized soil began on 4 November 1999 and was completed on 29 November 1999.

Backfilling of excavated areas began on 17 November 1999.

Removal of surface water from Area L-1, on the west side of the site, began on 18 November 1999.

Compaction testing of backfilled areas began on 7 December 1999.

Installation of additional site monitoring wells and abandonment of existing monitoring wells began on 8 December 1999 and was completed on 15 December 1999. Monitoring well construction diagrams, monitoring well abandonment logs, monitoring well development logs, and soil boring logs are presented in Appendix B.

Baseline groundwater sampling was performed from 13 December 1999 to 17 December 1999.

A pre-final inspection of the remedial action construction activities was conducted on 21 December 1999.

North Star remobilized to the site on 1 May 2000 to finish grading and seeding activities.

Revision: 0

Date: November 2000

Page: 3 of 3

Grading and seeding activities were completed on 5 May 2000.

The site security fence was installed on 31 May 2000.

A final inspection of the remedial action construction activities was conducted on 24 August 2000.

Some of the photographs of the construction activities performed at the Scrap Processing site are displayed in chronological order on the following pages.



Photo 1: Clearing and grubbing activities prior to the start of construction.



Photo 2: Installation of silt fence and safety fence prior to soil excavation. I:\Wo\RAC\026\29245-clearandgrubpic.doc



Photo 3: Excavation of soil above the site cleanup objective of 500 mg/kg.



Photo 4: Soil above the TCLP lead limit of 5 mg/L was stabilized in-situ, stockpiled, and sampled prior to being disposed of off-site.



Photo 5: Excavated soil was transported off-site via the railroad to a solid waste landfill.



Photo 6: Buried battery casings were discovered on-site during excavation activities. Battery casings were stabilized and disposed of with excavated soil.



Photo 7: Excavated areas were backfilled with clean general fill from an off-site borrow source.



Photo 8: All backfilled areas were compacted and tested to meet the site compaction criteria.

Section: 3 Revision: 0

Date: November 2000

Page: 1 of 4

#### **SECTION 3**

## PERFORMANCE STANDARDS AND CONSTRUCTION QUALITY CONTROL

#### 3.1 REMEDIAL ACTION PLANS

A site-specific Health and Safety Plan (HASP), Environmental Protection Plan, and Mobilization Plan were developed to ensure the proper implementation of the Scrap Processing (SP) remedial action.

- A HASP was developed for all phases of the SP remedial action, and implemented prior to mobilization to the site. The principal items addressed in the HASP are site description, submittals, training requirements, air monitoring, emergency response procedures, decontamination procedures, soil and groundwater sampling procedures, inspections, record-keeping, and reporting.
- The Environmental Protection Plan was developed to establish construction methods and procedures designed to minimize adverse environmental impacts and restore the SP site to a stable natural state. The plan provides an overview of the project and includes an erosion and sediment control plan; petroleum products control plan, waste disposal plan, and noise, dust, odor, and pest control plan. The Environmental Protection Plan was approved on 29 October 1999.
- The Mobilization Plan was developed to define the activities associated with mobilization and demobilization. The plan includes the traffic control plan and temporary facilities plan. The Mobilization Plan was approved on 29 October 1999.

### 3.2 QUALITY CONTROL TESTING

Prior to importing of any general fill material and topsoil to the site, two representative samples of the general fill and topsoil borrow sources were tested for Target Analyte List (TAL) and Target Compound List (TCL) parameters. Geotechnical tests were also performed on the general fill material.

Section: 3 Revision: 0

Date: November 2000

Page: 2 of 4

The general fill layer was required to be compacted to 90% of the maximum unit weight. All tests

performed either met or exceeded this requirement. A total of 61 field density tests were taken on

the 12,840 cubic yards of general fill layer placed.

Both the surface course aggregate and the base course aggregate layers were required to be

compacted to 95% of the maximum dry density. A total of 17-field density tests were performed on

the 2,947 cubic yards of base course aggregate layer placed.

3.3 CONFIRMATION SAMPLING

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Confirmation samples were taken on the bottoms and the walls of all excavated areas to determine

if the cleanup objective for the site had been met. Five (5) samples per 2,500 square feet of excavated

soil were collected, composited and tested for total lead. Twenty-one (21) of the excavated areas

confirmation sample results exceeded the cleanup objective. These areas were re-excavated an

additional 6 inches and then re-sampled. All excavated areas eventually tested below the cleanup

objective of 500 mg/kg. Confirmation sampling data and locations can be viewed in Table 3-1 and

Drawing 3-1. Re-sampled locations can be viewed on Drawing 3-2. Sample locations on the

drawings correspond to the last three characters of the "Project Sample Number" in Table 3-1.

The landfill stipulated that every 300 cubic yards of stabilized soil be analyzed for TCLP lead. When

a TCLP lead analysis exceeded the TCLP lead limit of 5 mg/L, the stabilized soil where the sample

was taken was re-stabilized using an additional 0.5% of stabilization reagent. All the stabilized soil

on-site tested below the TCLP lead limit, and was disposed of at the landfill. TCLP sample data and

locations can be viewed in Table 3-2 and Drawing 3-3. Re-sampled locations can be viewed on

Drawing 3-4. Sample locations on the drawings correspond to the "Stabilization Area" column in

Table 3-2.

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Scrap Processing Remedial Action Report Section: 3 Revision: 0

Date: November 2000

Page: 3 of 4

#### 3.4 PROJECT REPORTS AND CONTROLS SUMMARY

The following reports were used throughout the project for communication and tracking of progress:

- Daily reports summarizing the activities of each day were submitted to the WESTON Site Manager.
- Daily verbal communications were maintained between the Weston site personnel and the WESTON Site Manager.
- Weekly reports summarizing the primary activities of the week were submitted to the WESTON Site Manager, and after review, submitted to the U.S. EPA, WDNR, and the City of Medford.
- Monthly progress reports were prepared by the WESTON Site Manager and submitted to the U.S. EPA.
- Monthly meetings were held at the project site with all interested participants.

The following project controls were implemented to ensure that work was performed in compliance with project plans and specifications:

- Submittal log detailing the status of all submittals.
- Results of daily air monitoring were recorded in the air monitoring log.
- Confirmation soil samples and TCLP soil samples were recorded on site maps to keep track of sampled areas.
- Confirmation sampling and TCLP lead sampling results were documented in a sample analysis log.
- Project photos recording conditions, progress, and changes were maintained.
- Training log with information on employee Health and Safety training was maintained to ensure each site worker's training was current.
- An employee and visitors sign-in log was kept at the site to track personnel on site.

RFW026-2A-AGQO

Scrap Processing Remedial Action Report Section: 3 Revision: 0 Date: November 2000

Page: 4 of 4

It should be noted that on 9 November 1999, Russhawn Jackson, a safety inspector for the Department of Health for the State of Wisconsin, visited the site for a routine inspection, and no health and safety violations were noted.

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Scrap Processing Remedial Action Report Section: 4 Revision: 0

Date: 30 October 2000

Page: 1 of 7

#### **SECTION 4**

#### **CONSTRUCTION ACTIVITIES**

The remediation of the SP site involved the excavation of lead contaminated soil which exceeded 500 mg/kg; stabilization of soil which exceeded the TCLP level of 5 mg/L; backfilling of excavated areas with clean fill and aggregate; transportation and disposal of excavated soil; and finish grading and seeding. Construction activities were completed on 17 December 1999 and finish grading and seeding activities were completed on 5 May 2000. The final SP site conditions are shown in Figures G-1 through G-6. The remediation effort included the following tasks:

- Construction of temporary facilities and temporary security fencing.
- Construction of a decontamination pad.
- Clearing and grubbing of trees and brush within the designated excavation areas.
- Installation of erosion control measures.
- Removal of onsite drummed waste derived from monitoring well installation activities.
- Excavation of contaminated soil in designated areas.
- Stabilization of soil, which exceeded the TCLP level of 5 mg/L.
- Transportation and disposal of excavated soil.
- Backfilling excavated areas with general fill and aggregate.
- Final grading and seeding.
- Installation of groundwater monitoring wells.
- Procuring laboratory to analyze groundwater samples.
- Sampling of groundwater monitoring wells.
- Installation of permanent site security fence.

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Section: 4 Revision: 0

Date: 30 October 2000

Page: 2 of 7

Additional contaminated soil combined with battery casings was encountered during excavation in

Area L-1, on the west side of the site. This discovery required additional excavation in this area up

to a total depth of 5 feet below ground surface, beyond the depth of excavation originally defined.

The additional 2,500 cubic yards of soil was excavated, stabilized, tested, and transported and

disposed at the landfill.

All work was carried out by North Star, a subcontractor to WESTON, and second tier

subcontractors.

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 4.1 MOBILIZATION AND DEMOBILIZATION

A pre-construction meeting was held at the site on 7 October 1999 to begin the project. Weston,

NorthStar, Ayres, Superior Special Services, Inc., and Glenn Rehbein Excavating representatives

were in attendance at the meeting. NorthStar began mobilization of job trailers to the site on 25

October 1999. Mobilization of heavy equipment and personnel began on 26 October 1999.

Mobilization and demobilization of heavy equipment and personnel was conducted throughout the

duration of the project due to the various differing activities.

A pre-final inspection was held at the site on 21 December 1999 to conclude the construction

activities until the spring, when finish grading and seeding were completed. The U.S. EPA, WDNR,

Weston, and North Star representatives were in attendance at the inspection. Upon completion of

the inspection, NorthStar demobilized all support facilities and remaining equipment.

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Scrap Processing Remedial Action Report Section: 4 Revision: 0

Date: 30 October 2000 Page: 3 of 7

Items completed as part of the mobilization/demobilization phases of the project include:

- Preparation and submission of a Health and Safety Plan.
- Mobilization and demobilization of heavy equipment and personnel.
- Topographic survey of pre-construction conditions and final conditions.
- Installation and removal of temporary field offices, temporary utilities, temporary security fence, and associated appurtenances.
- Submittals for various aspects of the project (see Appendix A for a complete list).
- Installation and removal of a decontamination pad and trailer for equipment.

The above activities were completed and met the intent of the project plans and specifications.

#### 4.2 EROSION AND SEDIMENT CONTROL STRUCTURES

Erosion and sediment control structures were installed prior to excavation activities to minimize erosion and prevent excessive sediment from entering the Black River to the west.

Silt fence was installed along the west end of the most western designated excavation areas (L-1, L-3, and L-6) onsite.

#### 4.3 CLEARING AND GRUBBING

NorthStar began clearing and grubbing trees and brush within the limits of the designated clearing and grubbing areas on 26 October 1999. Trees and brush were chipped and stockpiled onsite.

Clearing and grubbing activities were completed and met the intent of the project plans and specifications.

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Section: 4 Revision: 0

Date: 30 October 2000

Page: 4 of 7

4.4 SOIL EXCAVATION

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Soil excavation began on 1 November 1999. Prior to excavation, surveyors staked out the excavation

areas, as designated on the drawings. The six (6) designated contaminated areas were excavated to

2 feet below ground surface. Some excavation areas were excavated to depths greater than 2 feet

below ground surface in order to remove lead contaminated soil and meet the lead cleanup objective.

The soil was hauled and stockpiled in an area north of the railroad tracks prior to being loaded into

railcars for transportation and disposal at Cranberry Creek Landfill in Wisconsin Rapids.

Battery casings were found buried in excavation Area L-1. The casings were found at depths below

excavation limits and beyond the designated excavation extents. It was decided with the concurrence

of the U.S. EPA that excavation of all battery casings was necessary. Therefore, all battery casings

were removed from the area and excavation depths ranged from 2 to 5 feet below ground surface.

An additional 2,500 cubic yards of waste was removed from Area L-1.

4.5 SOIL STABILIZATION

Soil stabilization began on 3 November 1999. The soil that previously exceeded the TCLP lead limit,

as determined during the remedial design, was stabilized using the stabilization reagent EnviroBlend,

which is a patented mixture of a phosphate solid and magnesium oxide The soil that was to be

stabilized was divided into 50 feet by 50 feet grids. The reagent was then spread over these divided

areas at a 1% by weight addition and then wetted down with water. The soil and reagent were then

mixed with an excavator until homogenous. The soil was then stockpiled in place, sampled, and

analyzed for TCLP lead. TCLP samples were collected for every 300 cubic yards of stabilized soil.

Once the TCLP results for the soil pile were below the TCLP lead limit of 5 mg/L, the soil was

loaded into railcars and shipped to the landfill for final disposal.

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Section: 4 Revision: 0

Date: 30 October 2000

Page: 5 of 7

The additional soil that was excavated in Area L-1, where battery casings were found, was also

stabilized to reduce the TCLP lead levels below 5 mg/L. This resulted in an additional quantity of

soil than was originally estimated to be stabilized. Therefore, additional stabilization reagent was

required to complete stabilization at the site. Also, the soil that was filled with battery casings

required additional stabilization reagent to stabilize the soil because it had TCLP lead concentrations

higher than that of treatability study samples. Using 1 % reagent by weight on this soil did not reduce

the leaching lead concentration to below 5 mg/L. The soil in this area was then restabilized using an

additional 0.5% of reagent. Other soil in this area that had not been stabilized yet was stabilized using

1.5% reagent by weight instead of 1%.

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All soil that was stabilized and shipped to the landfill for final disposal was sampled for TCLP lead

and all sample results were below the TCLP lead limit of 5 mg/L.

4.6 SOIL TRANSPORTATION AND DISPOSAL

The excavated soil from the site was shipped to the Cranberry Creek Landfill in Wisconsin Rapids

via the Wisconsin Central Railroad. Soil from the site was loaded into railcars using heavy

equipment. Transportation and disposal of the site soil began on 2 November 1999 and the last

shipment of soil was on 7 December 1999.

Before any soil could be shipped to the landfill, a multi-compound analysis of the site soil was

submitted to the landfill for approval. Soil that had concentrations above the lead cleanup objective

of 500 mg/kg, and met the TCLP lead levels, was allowed to be disposed of at the landfill with this

analysis submittal. The landfill required that every 300 cubic yards of soil that was stabilized must

be tested for TCLP lead.

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Section: 4 Revision: 0

Date: 30 October 2000

Page: 6 of 7

4.7 BACKFILLING

Backfill material was imported to the site on 17 November 1999. Excavated areas that were to be

revegetated were backfilled with general fill material to within 4 inches of ground surface. Excavated

areas that were backfilled with gravel received general fill, geotextile road fabric, 6 inches of base

coarse aggregate, and 4 inches of surface coarse aggregate. Different areas onsite were excavated

to various depths in order to remove all lead contamination. While excavation areas were being

backfilled, the fill materials were being compacted using heavy equipment. The general fill material

was placed in 8-inch lifts and compacted to 90% of maximum unit weight and the aggregate materials

were compacted to 95% of the maximum dry density.

4.8 TOPSOIL

Topsoil placement began on 2 May 2000. Excavated areas that required revegetation received 4

inches of topsoil. Topsoil was installed to a uniform grade and then raked. All topsoiled areas were

seeded.

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4.9 FENCE AND GATES

Installation of the permanent chain link fence and gate began on 25 May 2000 and was completed on

31 May 2000. The chain link fence was installed on the west and north sides of the site. It was not

necessary to install fence along the south and east sides of the site due to the fact that these areas

were heavily wooded. The main purpose of the chain link fence is to deny easy access to the site.

4.10 FINISH GRADING AND SEEDING

Finish grading and seeding began on 1 May 2000. All areas requiring revegetation were fertilized at

a rate of 350 lbs/acre. The seed was uniformly sown with a spreader and watered. Mulch, consisting

Section: 4 Revision: 0

Date: 30 October 2000

Page: 7 of 7

mainly of straw, was evenly distributed over the entire seeded areas. Slopes in Areas L-1 and L-3

where slopes were greater than 1:2 required erosion control and were covered with an erosion control

blanket. The western portion of Area L-1 adjacent to the river was sown with a wetland seed mixture.

4.11 PROBLEMS ENCOUNTERED

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Problems encountered were mainly associated with discovery of the buried battery casings.

The discovery of the battery casings caused the need for additional excavation, stabilization,

transportation, and disposal activities. The soil with the battery casings had to be stabilized with a

higher percentage of stabilization reagent than all other stabilized soil. The landfill also required that

this soil be analyzed for additional parameters according to the Wisconsin Department of Natural

Resources "Contaminated Soil Analytical Requirements Protocol T2" in order to be accepted at the

landfill for final disposal. Despite the additional activities and additional testing, quantity of material

stabilized, excavated and disposed of at the SP site, the project was completed within the timeframe

of the original schedule.

Scrap Processing Remedial Action Report Section: 5 Revision: 0 Date: November 2000 Page: 1 of 1

#### **SECTION 5**

#### FINAL INSPECTION

A pre-final inspection was conducted at the site on 21 December 1999. The inspection was attended by Lolita Hill, U.S. EPA, Remedial Project Manager; William Schultz, WDNR; Bill Karlovitz, WESTON; Becky Kusek, WESTON; Fran and Rob Siemers, NorthStar. The purpose of the inspection was to document any unfinished construction items, deficiencies, and method of corrective action. In May 2000, Weston and NorthStar returned to the site to topsoil and finish grading and seeding.

The final inspection was conducted on 24 August 2000. The inspection was attended by Lolita Hill (U.S. EPA) and Becky Kusek (WESTON), Vicki Kedrowski (NorthStar), Tom Kendrzierski (WNDR), John Neubauer (City of Medford), John Fales (City of Medford), and Mike Brandner (City of Medford). The purpose of the inspection was to document any unfinished construction items, deficiencies, and method of corrective action. No deficiencies were found.

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Scrap Processing Remedial Action Report Section: 6 Revision: 0

Date: November 2000

Page: 1 of 1

#### **SECTION 6**

## CERTIFICATION THAT REMEDY IS OPERATIONAL AND FUNCTIONAL

This section does not pertain to the Scrap Processing site because the remedy for this site did not contain operational and functional equipment.

Scrap Processing Remedial Action Report

Section: 7 Revision: 0

Date: November 2000

Page: 1 of 1

### **SECTION 7**

### **OPERATION AND MAINTENANCE**

There are no operation and maintenance issues associated with the SP site.

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Scrap Processing Remedial Action Report Section: 8

Revision: 0

Date: November 2000

Page: 1 of 4

#### **SECTION 8**

#### **SUMMARY OF PROJECT COSTS**

The total cost for construction of soil remediation was \$1,272,656.20, which was based on the Final Design Report dated 11 August 1999.

These three change orders increased the total cost from the original bid amount of \$841,084.50 to the final cost of:

Original bi	d amount	\$841,054.50
Change Or	ders	
- - -	Change Order No. 1 Change Order No. 2 Change Order No. 3	\$223,875.00 \$194,267.41 <u>\$ 13,459.33</u>
ACTUAL '	ГОТАL	\$1,272,656.20

#### 8.1 CHANGES IN WORK

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The changes made to the Scrap Processing (SP) site scope of work have occurred in four areas: soil excavation, soil stabilization, soil sampling, and surface water removal.

#### 8.2 SOIL EXCAVATION

Battery casings were found buried in Area L-1, at and below the depth of excavation (2 feet), and at and beyond the initial designated limits of excavation. It was decided, with the concurrence of the U.S. EPA, that all battery casings would be removed from the site. Therefore, all battery casings were removed from this area to a maximum depth of 5 feet below ground surface. An additional 2,500 cubic yards of soil and battery casings were excavated.

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Scrap Processing Remedial Action Report Section: 8

Revision: 0

Date: November 2000

Page: 2 of 4

Seventeen (17) 2,500 square foot areas were excavated an additional 6 inches because the confirmation samples were above the lead cleanup objective. These additional excavation areas

totaled 788 cubic yards of soil.

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8.3 SOIL STABILIZATION

All the additional soil and battery casings excavated in and around Area L-1 were stabilized. This soil

was stabilized with 1.5 % EnviroBlend, because the TCLP lead concentrations of the soil were much

greater than that of the soil used in the treatability study. Without the addition of 1.5% stabilizing

reagent the soil would not have met the required TCLP levels. All of the areas in Area L-1 that were

excavated an additional 6 inches were stabilized, as well, due to the presence of battery casings.

8.4 SOIL SAMPLING

Since areas onsite had to be re-excavated and some stabilized soil piles had to be restabilized,

additional confirmation sampling and TCLP lead sampling was required in order to meet the cleanup

objective and dispose the soil at the landfill. An additional TCLP lead sample was collected at 6

inches below the depth of the buried battery casings in Area L-1 to determine the depth of

contamination, and therefore, excavation. The landfill required that soil with battery casings be

analyzed for additional parameters prior to disposal at the landfill. Also, two TCLP lead samples

were collected for additional treatability testing.

8.5 SURFACE WATER REMOVAL

The groundwater level on the west side of the site in the lowland area was high, about 0 to 0.5 feet

below ground surface. When excavating in this area, the water filled the excavation areas. Also,

there was much groundwater from the highland area in Area L-1. Once this soil was excavated, the

water flowed from the highland to the lowland in Area L-1. A water quality analysis was performed

Scrap Processing Remedial Action Report

Section: 8 Revision: 0

Date: November 2000

Page: 3 of 4

on the water for disposal purposes. Before backfill could be brought into this excavated area, the

surface water was removed via a sump and centrifugal pump. The water was pumped into a

polyethylene tank and then transferred to a tanker truck. The water was then transported by truck

to the Bloomer Wastewater Treatment Plant.

8.6 CHANGE ORDERS

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Change Order No. 1:

Change Order No. 1 includes all labor, equipment, and material to modify the contract for the

excavation, stabilization, transportation, and disposal of soil from Area L-1, which included

significant quantities of shredded and chopped battery casings. The estimated volume of material to

be removed was 2,500 cubic yards. This change order also included the removal and disposal of

surface and groundwater from the excavated Area L-1, additional general fill required to backfill the

additional excavation areas, and additional laboratory testing. The additional laboratory testing was

for parameters required by the landfill to determine if the battery casings and soil could be disposed

of at the landfill, additional TCLP lead analysis for test sample at approximately 6 inches below limits

of the battery casings, two TCLP lead analyses for additional treatability testing, and water quality

parameters for groundwater disposal.

The cost associated with Change Order No. 1 was \$223,875.00.

Change Order No. 2:

Change Order No. 2 includes all labor, equipment, and material to modify the contract for the

excavation, stabilization, transportation, and disposal of soil from Areas L-1 and L-2. Area L-1

contained quantities of shredded and chopped battery casings. Change order No. 1 consisted of an

estimated volume of additional material in Area L-1 to be removed. Change order No. 2 includes the

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Scrap Processing Remedial Action Report

Section: 8 Revision: 0

Date: November 2000

Page: 4 of 4

removal of soil in Area A-1 that was beyond the initial estimated volume. This change order also

includes additional general fill required to backfill the additional excavation areas, and additional base

course aggregate. The volume of additional excavated soil was 546 cubic yards.

The cost associated with Change Order No. 2 was \$194,267.41.

Change Order No. 3:

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Change Order No. 3 includes all labor, equipment, and material to modify the contract for the clearing

and grubbing of the west side of the site in order to install the site security fence. This change order

also includes additional quantities of base coarse aggregate to backfill the additional excavation areas

included in Change Order No. 2. The volume of additional base coarse aggregate was 60 cubic yards.

The cost associated with Change Order No. 3 was \$13,459.33.

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### APPENDIX A

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#### SUBMITTAL LOG SCRAP PROCESSING -NORTH STAR ENV. CONST.

Section	Submittal	Number	Submittal Date	Return Date	Approval Date	Status	Notes
1050	Site Survey						
	Clear and Grub Survey	D-01050-002-B	12/14/99	12/29/99	12/29/99	1	
	Waste Excavation and Stabilization Map	D-01050-004-A	2/2/00	2/4/00	2/4/00		
	General Fill Survey Map	D-01050-005-A	1/7/00	1/12/99	1/12/99	1	
	Top of gravel Survey Map	D-01050-006-A				1 1	
	Final Cover Survey		1/7/00	1/12/99	1/12/99	1	
		D-01050-009-B	7/31/00	8/4/00	8/4/00	1	
	Monitoring Well Survey	D-01050-007-A	1/21/00	1/26/00	1/26/00	1	
	Monitoring Well Locations and Elev. Table	D-01050-008-A	1/21/00	1/26/00	1/26/00	1	
1100	Environmental Protection						
1100	Env. Protection Plan	M-01100-001-A	10/18/99	10/21/99	400000	Ι.	
	PreCon Walkthrough Photos	01100-001-71	10/10/22	10/21/88	10/29/99	1	
	Transaction of the control of the co						
1300	Submittals				·	·	
	Submittal Log		10/18/99		ļ	1 1	
	Construction Schedule	M-01300-001-A	10/18/99	10\21\99	10\21\99	l i	i
	Subcontractor List		10/10/00	104.1100	102155	'	
	Material/Equipment List	S-01300-001-A	10/18/99	10\21\99	10\21\99	1	
	, , , , , , , , , , , , , , , , , , ,			102,05	102103	'	
1390	Health and Safety						
	Health & Safety Plan	M-01390-001-A	10/18/99	10/25/99	11/5/99	1	İ
	Hazwoper Certifications	M-01390-001-A	10/18/99	10\21\99	10\21\99	i	]
					<u> </u>	L	
1400	Contractors Quality Control	0.04400.005	44				
	General Fill TAL/TCL	S-01400-002-A	11/2/99	11/5/99	11/5/99	1	I
	General Fill Geotechnical	S-02200-001-A,	10/25/99	10\21\99	10/29/99	1	l
		S-02200-002-A,			1		l
		S-02200-005-A,			i	1	l
		S-02200-006-A			1		1
	Base Course Geotechnical	S-02200-003-A,	10/25/99	10\21\99	10/29/99	1	i
		S-02200-007-A		1 1,00	10/20/00	1 '	1
	Surface Course Geotechnical	S-02200-004-A,	10/25/99	10\21\99	10/29/99	1	
		S-02200-008-A	10120183	10121100	10/28/88	[ '	1
	Topsoil TAL/TCL	S-01400-003-A	1/21/00	2/2/00	2/2/00	١.	I
	Topsoil Chemical- Nutrient	S-01400-003-A	2/15/00			1	i
	Form Collinger Hadight	C-51400-004-X	2/10/00	2/24/00	2/24/00	1	Į.
	Contractor's Quality Control Plan	M-01400-001-A	10/18/99	10\21\99	40)24)00		i
	Nuclear Compaction Tests	S-01400-004-A	10/16/00	10/17/00	10\21\99	1	l
	Tradical Compaction lests	3-01400-004-A	10/16/00	10/17/00	10/17/00	1	
1505	Mobilization/Demobilization			<del> </del> -		<u> </u>	
	Truck Hauling Routes	M-01505-002-A	10/25/99	10/29/99	400000	١	<u> </u>
	Mobilization Plan	M-01505-002-A			10/29/99	1	j
	INCOMERCIAL FIRM	M-1005-001-A	10/18/99	10/21/99	10/29/99	1	l
2080	Decontamination		<del></del>				
	Decon pad geomembrane	D-2080-001-A	10/18/99	10\21\99	10\21\99	١ ،	l
	Decon pad construction	D-02080-002-A	11/1/99	11/5/99		1	
					11/5/99	1	
	Decon pad geotextile	D-02200-009-A	10/25/99	10/29/99	10/29/99	1	
2200	Earthwork						
	Polypropylene fabric - Roadway	D-02080-001-A	10/18/99	10/21/99	10/29/99	1	
	Compaction Tests - General Fill		, 0, 00	]	10/23/35	j '	J
	Compaction Tests - Aggregates				1	1	i
	, , 55.5 , 1991-598103						
	Gravel Base Course Moisture Density Test	S-02220-009-A	1/7/00	1/12/00	1/12/00	1	
						<u></u>	
2210	Soil Excavation					T .	
	Stockpile pad - geotextile	D-02210-001-A	10/18/99	10\21\99	10\21\99	1 1	1
	Treatability Study	D-02210-002-A	10/25/99	10/29/99	11/5/99	1 1	l
	TCLP Tests (new)	S-02210-003-A	11/22/99	11/29/99	11/29/99	1	l
2540	Erosion & Sediment Control			12000	11120133	<del>'</del>	
/- }	Silt Fence	D-02540-001-A	10/18/99	10/21/99	10/29/99	1	ĺ
		_ 525,5-001-7	10/10/33	10121133	10/28/89	l '	i
2831	Fences and Gates			l	<del> </del>	<del>                                     </del>	<del></del>
	Chain Link Security Fence	D-02831-001-A	5/17/00	5/23/00	5/23/00	1 1	l
						l '	
2930	Finish Grading and Seeding		,			<del> </del>	
	Wetland Seed	D-02930-002-A	4/26/00		4/26/00	l 1	l
1	Other Seed	D-02930-001-A	4/26/00		4/26/00	l i	l
	Fertilizer	D-02930-003-A	4/26/00		4/26/00		l
	Miscellaneous	2 32300-005-A	7/20/00		4/20/00	<del> '</del>	ļ
1							
	Lab Qualifications	1	10/18/99	10/21/99			
	Lab Qualifications		10/18/99	10/21/99	10/21/99	1	
	Lab Qualifications	-	10/18/99	10/21/99	10/21/99	1	

### APPENDIX B

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Department of Natural Resources Route To:	Watershed/Wastewater  Remediation/Redevelopment	Waste Management $\square$ Other $\square$	Form 4400-113A Rev. 6-97
acility/Project Name	Local Grid Location of Well	Π'F	Well Name
Scrap Site	ft. 🛗 S	ft. 🗒 📆	MP-8
acility License, Permit or Monitoring No.	Grid Origin Location LatLc	(Check if estimated: [])	MP-8 ) Wis. Unique Well No DNR Well Numb
acility ID	Lat " Lo St. Plane ft. N, _ Section Location of Waste/Source	ing or	Date Well Installed
34101632	St. Plane II. N, _	п. Е. S/C/N	12/14/1999
Well Code 12/pz	1/4 of1/4 of Sec Location of Well Relative to Was	, T N, R D W	M. Mueller
Distance Well Is From Waste/Source	u □ Upgradient s □ S	Sidegradient	D
Boundary ft.	d □ Downgradient n □ 1	Not Known	Boart Longyear  ⊠ Yes □ 1
A. Protective pipe, top elevation  B. Well casing, top elevation	ft. MSL	2. Protective cover	
B. Well casing, top elevation	1.50 ft. MSL	a. Inside diamet	ter: 4.0
C. Land surface elevation	ft. MSL \	b. Length:	7.0
D. Surface seal, bottom ft. MSL	\ \sigma_{\cdot \cdot \c	c. Material:	Steel 🖾 (
			Other ☐ _ rotection? ⊠ Yes ☐ 1
12. USC classification of soil near screen:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	d. Additional pr	
GP□ GM□ GC□ GW□ SV SM□ SC□ ML□ MH□ CI	V SP CH CH		Bentonite
Bedrock □		3. Surface seal:  4. Material betwee  5. Annular space s bLbs/gal cSgal d% Bento eFt f. How installe  6. Bentonite seal: b. □ 1/4 in. □ c	Concrete ⋈ (
13. Sieve analysis attached?   Yes	□No	<b>■</b> \	Other 🗆
14. Drilling method used: Rotar	y □ 5 0	4. Material betwee	en well casing and protective pipe:
Hollow Stem Auge	r ⊠41		#30 Sand Bentonite ☐ 3
Othe	r 🗆 🔛 💮	<b>———</b>	
16 D '''		5. Annular space s	seal: a. Granular Bentonite 🛛 🕻
15. Drilling fluid used: Water □ 0 2 A: Drilling Mud □ 0 3 Non	r 🗆 0 1	bLbs/gal	mud weight . Bentonite-sand slurry
Diffing Mud 🗆 03 Non	E 1199	cLbs/gal	mud weight Bentonite slurry
16. Drilling additives used? ☐ Yes	⊠ No	0% Bento	onite Bentonite-cement grout $\square$ :
		f. How installe	•
Describe		×	Tremie pumped 🗆 (
17. Source of water (attach analysis):			Gravity ⊠ 0
		6. Bentonite seal:	
·		b. □ 1/4 in. □	3/8 in. □ 1/2 in. Bentonite pellets □
. Bentonite seal, top ft. MSL	or1.0 ft. \	& / c	Other
			rial: Manufacturer, product name and mes
. Fine sand, top ft. MSL	or6.0 ft.	ab. Volume adde	#7 Badger
i. Filter pack, top ft. MSL	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	b. Volume adde	erial: Manufacturer, product name and me
i. I file pack, top it. Wist	01 11.	<u> </u>	#30 American Materials
I. Screen joint, top ft. MSL	or10.0 ft.	b. Volume adde	
		9. Well casing:	Flush threaded PVC schedule 40 🗵
Well bottom ft. MSL	or	1/	Flush threaded PVC schedule 80
	or	<del> </del>	Other 🗆
Filter pack, bottom ft. MSL	or <u>20.5</u> ft.	l .	
D . I I I	20.5 0	a. Screen Type:	
Borehole, bottom ft. MSL	or tt.		Continuous slot ⊠ (
. Borehole, diameter8.0 in.		b. Manufacture	Other 🗆 Boart Longyear
. Dorenoie, diameter in.		c. Slot size:	0.010
1. O.D. well casing <u>2.37</u> in.		d. Slotted lengt	
		(	al (below filter pack): None 🖾
I. I.D. well casing 2.06 in.			Other 🗆
hereby certify that the information on this f	orm is true and correct to the best	of my knowledge.	•
ignature / A	Firm Boart Long		Tel: (715)359-7

Please complete both Forms 4400-113A and 4400-113B and return 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 condut involved. Personnally 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.

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#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

			Ro		Wastewater   n/Redevelopment	Waste Other	_	gement								•
Facilit	/Droin	ot Non	10			License	/Parmit	/Monito	ring N	umber	······································	Roring	Paş Numb		of	2
-	ap Site		10			License	1 CHIIII	JIVIOIIIC	nnig iv	umoci		Boring	; ivuino		P-8	
			irm nan	ne and name of crew cl	nief)	Date Dr	illing S	Started		D.	ate Drill	ing Cor	npleted			ling Method
				Mueller				4/1999				12/14/	1999			1/4 HSA
WI Un	ique W	ell No		DNR Well ID No.	Common Well Name	Final St			el	Surfa	ce Eleva		_	В		Diameter
<del></del>			1.0		MP-8		Feet	MSL		<u> </u>		et MS		(16 1		Inches
State 1		on or i	Local Gr	rid Origin (Chec	k if estimated: ( ) S/C/N	Lat.		0	1	11	Local	JNG LO	cation (		ncable)	
State	1/4	of	1.	/4 of Section ,	T N, R	Lon	g	•	<u> </u>	"		Fee	1 □ 1 □ S			☐ E Feet ☐ W
Facility	/ ID			County	and the second s	County C		1		ity/ or	Village					
	01632	2		Taylor		61		Med	ford							
San												Soil	Prop	erties	T	_
	رin)	ts	et		Rock Description						l e					
r pe	Att. red	luno	In Fe		Geologic Origin For		S	ွ	E	Ω	essi h	le t		Ţ.		ents
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	. E	ach Major Unit		SC	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	200	RQD/ Comments
Z ug	<u> </u>	BI	De	CLAY			D	53	<u>≽</u> <u>⊆</u>	<u> </u>	ပြင် အ	žΰ	<u> </u>	E E	Ä	<u> </u>
1 SS	24 12	6 10 5 5	-1 -2 -3 -4 -5 -7 -7	Brn. M-F SAND Very Fine SANI					. ▼			W		·		
SS V	24 16	1 6 12 18	-10 -11 -12	M-F SAND								W				
		y that t	he infor	mation on this form is	true and correct to the be	est of my kı	nowled	ge.								
Signatu	re j		Te	ll	Firm Bo	art Longy Alderson S	year	-6-11-3	VIII C 4 4	7(						715)359-709( 715)355-5715

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions 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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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# **SOIL BORING LOG INFORMATION SUPPLEMENT** Form 4400-122A Rev. 5-97

Boring Numb	er	MP-	8 Use only as an attachment to Form 4400-	122.				I	Sail	Pa Prop		of	2
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	Compressive Strength	Moisture Content		sity	P 200	RQD/ Comments
3 24 5 5	5 12 4 3	-13 -14 -15 -16 -17 -18 -19 -20	EOB @ 20.5' Well Set @ 20.0'						W				

100

\$135

 $7/(\sqrt{s_s^2})$ 

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## MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 6-97

	d/Wastewate			ste Management	]		
	ion/Redevelo		Oth	ner 🗆			
Facility/Project Name		County			Well N		
Scrap Site				ylor			P-8
Facility License, Permit or Monitoring Number		County Co	ode Wi	s. Unique Well Nur	nber	DNR Well	Number
1. Can this well be purged dry?	⊠ Yes	s □ No		Depth to Water	Before	Development	After Development
2. Well development method:				(from top of	a.	1.38 ft.	2.10 ft.
surged with bailer and bailed	□ 4	1		well casing)			
surged with bailer and pumped	⊠ 6	1					
surged with block and bailed	□ 4	2		Date	b. 1	2/15/1999	12/15/1999
surged with block and pumped	□ 6	2		•			
surged with block, bailed, and pumped	□ 7	0		4			
compressed air	□ 2	0 .		Time	c.	01:45 pm	02:35 pm
bailed only	□ 1	0					
pumped only	□ 5	1	12.	Sediment in well		.010 inches	0.0 inches
pumped slowly	□ 5	0		bottom			
other	_ 0 _	_	13.	. Water clarity	Clear	□ 10	Clear   20
					Turbid	⊠ 15	Turbid ⊠ 25
3. Time spent developing well		50 min.			(Describ	e)	(Describe)
					Brn.	Silty	Cloudy
4. Depth of well (from top of well casing)	2	1.5 ft.					
		•					
5. Inside diameter of well	2	.06 in.					Anadomic and the state of the s
( Value of control of Change to the state of					-		*
Volume of water in filter pack and well casing		gal.			No. 10		
casing		gai.	F2.11	11 16 1 111			January Carillian
			Fill	l in if drilling fluids	were used	and well is at soil	a waste facility:
7. Volume of water removed from well	30 g	als. gal.		T . 1		4	a
			14.	Total suspended solids		mg/l	mg/l
8. Volume of water added (if any)		gal.		Solids			
9. Source of water added			15.	COD		mg/l	mg/l
			and desired the second				
			16.	Well developed by:	Person's l	Name and Firm	
10. Analysis performed on water added? (If yes, attach results)	∐ Yes	□ No		G. Jones	S		
(II yes, attach results)				Boart Lo	ongyear		
17. Additional comments on development:							
•							
To The Addition of the Control of th							
Facility Address or Owner/Responsible Party Add	iress		I he	ereby certify that the	e above inf	ormation is true as	nd correct to the best of my
Name:			kno	owledge.			
Trans.				1		- 9 A	
Firm:			Sig	nature:	/	un	
		,	Sig		_ ,		
Street:	<del> </del>		Pri	nt Name; <u> </u>	nTh	ralack	٧٢
O'. (0 /7.)				D 43			
City/State/Zip:			Fir	m: Boart	Longyea		

NOTE: See instructions for more information including a list of county codes and well type codes.

jela.	State of Wisconsin Department of Natural Resources Route To:	Watershed/Wastewar		aste Management	MONITORIN	NG WELL CONSTF 13A Rev. 6-9	
	Facility/Project Name	Remediation/Redeve	*.	ther 🗌	Well Name	13A Kev. 0-9	
	• •	t.	or well □N.	ρ □ E.	Well Name	MP-7	
g (20)	Scrap Site Facility License, Permit or Monitoring No.	Grid Origin Location	n	(Check if estimate		Well No DNR Well 1	Number
	Facility ID					stelled	
	•	St. PlaneSection Location of	ft. N,	ft. E.	5/C/N		
	34101632 Type of Well	Section Location of	Waste/Source		□ E Well Installed	12/15/1999	a and Eira
	• •	1/4 of1	1/4 of Sec	Г N, R		a by: (Ferson's Name	e and rim
	Well Code 12/pz Distance Well Is From Waste/Source		lative to Waste/So	urce		M. Mueller	
	Boundary	u □ Upgradient d □ Downgradien	s □ Sidegr nt n □ Not Kı	nown		Boart Longyear	
	A. Protective pipe, top elevation	ft. MSL		1. Cap and		⊠ Yes	i □ No
3.7%f	B. Well casing, top elevation	1.50 ft. MSL		a. Inside	ve cover pipe: diameter:	_	4.0 in.
	C. Land surface elevation	ft. MSL <		b. Lengt			7.0 ft.
	D. Surface seal, bottom ft. MS.	ior 1.0 e 726		c. Mater			⊠ 04
j. "[v							
	12. USC classification of soil near screen:	27/2		d. riddie	ional protection?	Bumper Post	□ No
	GP□ GM□ GC□ GW□ S SM□ SC□ ML□ MH□ C	W SP CH		If yes,	, describe: 4"		
	Bedrock	Lu Cnu		3. Surface	seal:	Bentonite	
	13. Sieve analysis attached?   Yes	□No			_	Concrete	Da Titos
	•	į-		\		Other	U ==
	14. Drilling method used: Rota			4. Material	between well casing a		<b>-</b> 30
E Cap	Hollow Stem Aug				#30 Sand	Bentonite Other	
	Oth	er 🗆					
	15 Duilling fluid used, Water 57.0.2	:- D01			•	Granular Bentonite	
1684	15. Drilling fluid used: Water □ 0 2 A  Drilling Mud □ 0 3 No	<b>!</b>			Lbs/gal mud weight. E		
i de	Drilling Mud 🗆 0 3 Noi	le □99			_bs/gal mud weight		
er00	16. Drilling additives used? ☐ Yes	⊠ No			% Bentonite Ben		
					Ft <sup>3</sup> volume added	-	
	Describe			I. How	installed:		□ 01 □ 03
* *:	17. Source of water (attach analysis):					Tremie pumped Gravity	
				( D		•	
रण्यु					e seal: a. 4 in. □ 3/8 in. □ 1/2	. Bentonite granules	
5 55	E. Bentonite seal, top ft. MSL	ء 10 م		0. 🗆 1/4	+ III. U 3/6 III. U 1/2	III. Demonite penets	
	E. Bentonite seai, top n. MSL	, or n.		7 Fine san	d material: Manufactu	rer product name an	d mech civ
1.15	F. Fine sand, top ft. MSL	or <u>6.0</u> ft.		a	uan i		
	T. Tille saile, top It. MSL	, or n.		/	ne added		
	G. Filter pack, top ft. MSL	or 8.0 A	$\searrow 0 \ \text{M} \nearrow$	,	ck material: Manufact		nd mesh si
	C. The pack, top			a	//20 4	•	gat.
	H. Screen joint, top ft. MSL	or 10.0 ft -	A II		ne added	ft <sup>3</sup>	
2 4	11.11.00		<b>─</b> ↓ -  /	9. Well cas		ed PVC schedule 40	⊠ 23
	I. Well bottom ft. MSL	or 20.0 ft		y. Wen eas	-	ed PVC schedule 80	
						Other	per 2011
132	J. Filter pack, bottom ft. MSL	or 20.5 ft.		10 Screen m	naterial:	PVC	Spires.
			777777	a. Scree		Factory cut	
	K. Borehole, bottom ft. MSL	or20.5 ft. \		u. Street	туро.	Continuous slot	
東海	,						
	L. Borehole, diameter8.0 in.			b. Manu	ıfacturer Boart	Longyear	
				c. Slot s	ize:	_	0.010 in
	M. O.D. well casing 2.37 in.			d. Slotte	ed length:	_	10.0 ft
1.068F	-				material (below filter p	pack): None	⊠ 14
	N. I.D. well casing 2.06 in.					Other	
N99	I hereby certify that the information on this		ct to the best of my	knowledge.	-	`	
	Signature	Firm	Boart Longyear		-	Tel: (715)	359-7090
	my in		101 Alderson St. Sci			Fax: (715)	

Please complete both Forms 4400-113A and 4400-113B and return 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 condut involved. Personnally 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.

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#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

			Ro	ute To:	Watershed/W Remediation/	astewater   Redevelopment		Waste Other		gement								
						•									Pa	ge 1	of	2
	y/Proje ap Site		ie			The state of the s		License/	Permit	/Monito	ring N	umber		Boring	Numb	er MI	D_7	
			irm nar	ne and na	ame of crew chi	ef)		Date Dr	illing S	tarted		Da	ate Drill	ing Cor	npleted			ling Method
Roa	rt I or	าดงคว	r M	Muelle	ar.				12/1	5/1999	<b>)</b>			12/15/	/1999		1	1/4 HSA
	ique W				Well ID No.	Common Well		Final Sta	atic Wa	iter Lev		Surfac	e Eleva	tion		Вс	rehole	Diameter
Boring	Locati	on or I	ocal G	rid Origir	ı (Check	MP-7		<u> </u>	Feet	MSL				et MS		If appli		Inches
State 1				ilu oligii	. (0	S/C/N	,	Lat.		<u> </u>	1	11				1		□Е
Facility	1/4 v ID	of	1	/4 of Sec	ction , County	T N, R	1	Long County Co		Civil 7	own/C	ity/ or	Village	Fee	t 🗌 S			Feet W
	01632	2			Taylor			61		Med		11,7 01	· mage					
San	ple													Soil	Prop	erties		
	t. & 1 (in)	ınts	Geet			ock Description ologic Origin Fo	т						ive					S
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet			h Major Unit	•		CS	hic	ram	FID	Compressive Strength	Moisture Content	E T	Plasticity Index	0	)/ ment
Num and	Leng	Blov	Dept						SO	Graphic Log	Well Diagram	PID/FID	Compress Strength	Mois	Liquid Limit	Plastic Index	P 200	RQD/ Comments
			E	Brn.	M-F SAND													
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				Brn.	SAND & GF	RAVEL				) (								
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2 SS	24 15	16 16	-							o . (\)				W				
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hereb	y certif	y that t		mation o	n this form is tr	ue and correct to	the bes	t of my kr	nowled	ge.			L					
Signatu				R		Firm	Boar	rt Longy	/ear					······		····	Tel: (	715)359-709(
			1 L					Alderson S		ofield,	WI 544	76						715)355-5715

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions 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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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#### SOIL BORING LOG INFORMATION SUPPLEMENT Rev. 5-97

Form 4400-122A

MP-7 2 2 Use only as an attachment to Form 4400-122. Page of Boring Number Soil Properties Sample Length Att. & Recovered (in) Soil/Rock Description Compressive Strength Depth In Feet Blow Counts RQD/ Comments And Geologic Origin For Number and Type Moisture Content Liquid Limit Plasticity Index OSCS Diagram Graphic Log PID/FID Each Major Unit P 200 Well - 13 - 14 3 SS 24 2 W 50/4 - 15 -16 18 -20 EOB @ 20.5' Well Set @ 20.0'

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## MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 6-97

Route To: Watershed	/Wastewater		Waste Management				
	on/Redevelop	ment 🗌	Other 🗆				
Facility/Project Name	C	County		Well Name			
Scrap Site			Taylor		M	P-7	
Facility License, Permit or Monitoring Number	C	County Code 61	Wis. Unique Well Nu	mber	DNR Well	Number	
1. Can this well be purged dry?	⊠ Yes	□ No	11. Depth to Water	Before Deve	elopment	After Developmen	<u>nt</u>
Well development method:     surged with bailer and bailed	□ 41		(from top of well casing)	a.	5.43 ft.	5.80	ft.
surged with bailer and pumped surged with block and bailed	<ul><li>  6 1</li><li>  □ 4 2</li></ul>		Date	b. 12/15	/1999	12/15/1999	
surged with block and pumped surged with block, bailed, and pumped	□ 62 □ 70		Time	02:0	)0 pm	04:00 pm	
compressed air bailed only pumped only	□ 20 □ 10 □ 51		Time 12. Sediment in well		0 inches	0.0 inch	ec
pumped only  pumped slowly  other	□ 51 □ 50 □ □ □		bottom  13. Water clarity		0	Clear 20	03
3. Time spent developing well		0 min.	,		5	Turbid ⊠ 25 (Describe)	
4. Depth of well (from top of well casing)	21	.5 ft.		Dk. Brown	<u>n</u>	Lt. Brown	_
Inside diameter of well		6 in.					_
	2.0	O III.					<u> </u>
Volume of water in filter pack and well casing		gal.	Fill in if drilling fluids	were used and w	vell is at soli	d waste facility:	-
7. Volume of water removed from well	40 gals	S. gal.	14. Total suspended		mg/l	mg	<i>z/</i> I
8. Volume of water added (if any)		gal.	solids				
9. Source of water added			15. COD		mg/l	mg	yΊ
10. Analysis performed on water added?	☐ Yes	□ No	16. Well developed by:		and Firm		
(If yes, attach results)			G. Jone Boart L	s ongyear			
17. Additional comments on development:							
Facility Address or Owner/Responsible Party Addr	ress		I hereby certify that th	e ahove informat	ion is true a	nd correct to the best of the	— mv
Name:			knowledge.				
Firm:			Signature:	nTha	<i>N</i> (_		-
Street:			Print Name: Ro	nTha	lack	er	-
City/State/Zip:			Firm: Boart	Longyear			-

, =03	State of Wisconsin Department of Natural Resources Route To:	Watershed/Wa	astewater   Redevelopment	Waste Man		MONITORING WELL Form 4400-113A		
3.5	Facility/Project Name	Local Grid Lo	ration of Well			Well Name		
	Scrap Site		_ft. 🗆 N	ft.	□ E. □ W	MP-2	2D	
; 50.65	Scrap Site Facility License, Permit or Monitoring No.	Grid Origin Lo	ocation " I	(Check to ong.	or	MP-2 Wis. Unique Well No	NR Well N	Number
	Facility ID	<b>⊣</b>				Date Well Installed		
经现	34101632	St. Plane	on of Waste/Sour		ft. E. S/C/N	12/10/1	999	
	Type of Well				□E	Well Installed By: (Per		and Firm
	Well Code 12/pz	1/4 of_	1/4 of Sec.	, T	N, R 🗖 W	M. Mue	eller	
	Distance Well Is From Waste/Source	Location of W	ell Relative to W	aste/Source		171. 17100	31101	
5.0		u 🗆 Upgrad		Sidegradient Not Known		Boart Lor	ngyear	
社論	A. Protective pipe, top elevation  B. Well casing, top elevation	ft. MSL	gradient ii 🗆	Not Known	. Cap and lock?		⊠ Yes	□ No
a:4 <b>2</b> %	D. Well assing top slavation	2.50 A MSI		$\neg \mathbb{R} $ $\nearrow^2$	Protective cover	• •		4.0 in.
p Fig.			i i			r:	_	$\frac{4.0}{7.0}$ in.
	C. Land surface elevation	ft. MSL			b. Length:			
	D. Surface seal, bottom ft. MS	10 H	326.36	15.25.21	c. Material:			⊠ 04
和神		L 01 11						
	12. USC classification of soil near screen:		THE THE PARTY OF T	- EXCENCENC	d. Additional pro			s □ No
		W SP D	\)		If yes, describ	·		
146		CL CH C			. Surface seal:		Bentonite	
11.5	Bedrock□				. Burrace Bear.	-	Concrete	⊠ 01
+ 4	13. Sieve analysis attached? ☐ Yes	□ No						
	14. Drilling method used: Rota	ry □50		₩ `4	. Material between	n well casing and protect		
伊爾	Hollow Stem Aug	ger ⊠ 4 1				#30 Sand	Bentonite	□ <u>3</u> 0
3	Oth	er 🗆 💶		₩		#30 Sand	_ Other	⊠ =_
5.478				5	. Annular space se	al: a. Granular	Bentonite	⊠ 33
在鄉	15. Drilling fluid used: Water □ 0 2	Air 🗆 0 1		₩ t		nud weight . Bentonite-s	and slurry	□ 35
V 13	Drilling Mud □ 0 3 No	ne 🗆 9 9			cLbs/gal r	nud weight Bento	nite slurry	□ 31
戶海				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		nite Bentonite-cer		
	16. Drilling additives used? ☐ Yes	⊠ No	ft.	3 4 4	eFt³	volume added for any of	f the above	
* 1				- ₩ :	f. How installed			□ 01
34,54	Describe					Tremi	ie pumped	□ 02
* 41.	17. Source of water (attach analysis):						Gravity	⊠ 08
6-3 <b>1</b>	•			₿ 6	. Bentonite seal:	a. Bentonit	e granules	⊠ 33
			, 🔉	<b>×</b>	b. □ 1/4 in. □	3/8 in. □ 1/2 in. Bentor	nite pellets	□ 32
1432	E. Bentonite seal, top ft. MSI	or 1.0	ft		c		Other	
	2. 20			1004 / 7	. Fine sand materi	al: Manufacturer, produc	ct name an	d mesh siz
645 4	F. Fine sand, top ft. MSI	or <u>NA</u>	ft.		a	NA		
1926 1936					b. Volume added	ft <sup>3</sup>		
	G. Filter pack, top ft. MSI	or40.0	ft. \	8	. Filter pack mater	rial: Manufacturer, produ	uct name a	nd mesh si
e* +,	, , , , , , , , , , , , , , , , , , ,		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		•	rePack Screen & Native		N. 1
	H. Screen joint, top ft. MSI	or45.0	ft		b. Volume added			
Vest3	11. 50.00m johns, top 10.11.52			<b>Ⅎ</b> Ϳ/ 9	. Well casing:	Flush threaded PVC so	chedule 40	⊠ 23
	I. Well bottom ft. MSI	or 55.0	ft. \			Flush threaded PVC so		
. 4								
1	J. Filter pack, bottom ft. MSI	or 55.0	ft.	引	. Screen material:	PVC		ger sylvactric Sec. 7 (4)
			7777	7777	a. Screen Type:		actory cut	
	K. Borehole, bottom ft. MSI	or 55.0	ft. \				nuous slot	
				<b>X</b>				
198	L. Borehole, diameter in.		V///	////	b. Manufacturer	Boart Longyear		
4.5	****				c. Slot size:		_	0.012 in.
* *	M. O.D. well casing 2.37 in.				d. Slotted length	1:	_	10.0 ft.
1/3026				11	. Backfill material	(below filter pack):	None	⊠ 14
	N. I.D. well casing 2.06 in.					· ′		<b>-</b>
i)	m.							
night.	I hereby certify that the information on this	form is true and	correct to the be	st of my knowle	edge.			
1.(454	Signature / //		Firm Boart Lor		<u>.</u>		Tel: (715)	350-7000
10015	and in		Dourt Lor	ngyear on St. Schofield, V	WI 54476		Tei: (715) Fax: (715)	
1.4	Please complete both Forms 4400-113A and 4400-11	3B and return to th						

Please complete both Forms 4400-113A and 4400-113B and return 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 condut involved. Personnally 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.

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#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

			Ro	oute To:			astewater [				gement								
					Rem	ediation/l	Redevelopme	ent 🗀	Other										
	/D	4 3 7					nuce of the second seco	· · · · · · · · · · · · · · · · · · ·	- IT :	- /D	· // / · ·	NT	L.	105	D	Pa		of	4
	y/Proje ap Site		ne						Licens	e/Permi	vMonit	oring N	umber		Boring	Numb		P-2D	ı
			irm nar	ne and n	ame of	стеw chie	<u>f</u> )		Date D	rilling	Started		Da	ate Drill	ing Cor	npleted			ling Method
Boa	ırt Loı	ngyea	ır - M.	Muelle	er					12/	8/1999	9			12/8/	1999		4	1/4 HSA
WI Ur	nique W	ell No	•	DNR '	Well ID	No.	Common W		Final S		ater Le	vel	Surfa	ce Eleva			Bo		Diameter
Boring	Locati	on or I	ocal G	rid Origii	n	(Check i	f estimated:	-2D		Feet	MSL				et MS		(If appli		Inches
State		011 01 1	Docum G	iiu Oiigii		(Check I	S/C		Lat		<u> </u>			Local	Jilu Lo	1	-	·	□Е
	1/4	of	1	/4 of Sec			T N,	R	Loi		<u> </u>	<u> </u>							Feet W
Facilit	-				County				County (	Code	i i		ity/ or	Village		***************************************		·	
-	01632	<u> </u>	T	T	Taylo	or		<del>,, ,, ,, , , , , , , , , , , , , , , ,</del>	61	7	Med	lford	T	<u> </u>	C - :1	D	4:		T :
San	nple					Soil/Ra	ock Descript	ion							5011	Prop	erties		
	tt. & d (in	ınts	Feet				ologic Origin							ive					s
ber Sype	th A	Q	n In				n Major Unit			S	hic	l ma	E	oress gth	in tire	<b>.</b> . 0	city		nent
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet							USC	Graphic	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			<del>                                     </del>	Brn.	Sandy	SILT	(F, 95 4			+-	ŤΠĪ			0 07	20			<u> </u>	
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I hereb	v certifi	v that t		mation o	n this f	orm is tru	e and correc	et to the he	est of my 1	(noveled	loe			<u> </u>	- ]				
Signatu		,		Ø A					art Long		igu.								
_		_	/ L	N				200	Alderson	syear St. Scl	nofield,	WI 544	76						715)359-7090 715)355-5715

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions 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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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Form 4400-122A

Boring Number	MP-2I	Use only as an attachment to Form 44	00-122.			C = 21		ge 2	of	4
Number and Type Length Att. & ald Recovered (in) Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log Well Diagram	Compressive Strength		Liquid Limit	Plasticity Index	P 200	RQD/ Comments
3 24 50/6 SS 6	15	ern. Silty CLAY w/Sand & Gravel				W				
4 24 18 SS 16 12 20 25	-17 -18 -19 -20					w				
5 24 18 SS 14 12 18 22	-22 -23 -24 -25 -26					w				
6 SS 0 50/2	30	k. Brn. CLAY TILL				w				

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### SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

STATE OF THE PERSON NAMED IN COLUMN	g Numl	er	MP-	Use only as an attachment to Form 4400-	122.	T			I	G 11		ge 3	of	4
Number and Type	t. &   (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity soll Index	P 200	RQD/ Comments
7 SS	24 18	22 20 33 30	-33 -34 -35 -36 -37							W				
8 SS	24 0	50/2	-40 -41 -42 -43	Brn. SAND & GRAVEL						W				
9 SS	24	12 30 40 50	45							W				
SS SS	24 6	15 20 50/6								W				

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### SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring	g Numb	er	MP-	Use only as an attachment to Form 4400-	122.					Pa		of	4
Number and Type	Length Att. & ਰੁੱ Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	sive	Content Liquid Limit	Plasticity and Index solution	P 200	RQD/ Comments
II SSS	24 4	15 50/4		EOB @ 55.0' Well Set @ 55.0'	2		N I	d	W			4	H C

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## MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 6-97

Route To:	Watershed/Wastewate	r 🗆	Waste Management				
	Remediation/Redevelo	opment 🗆	Other				
Facility/Project Name		County		Well Name			
Scrap Site			Taylor			P-2D	
Facility License, Permit or Monitoring	Number	County Code	Wis. Unique Well Nur	nber	DNR Well	Number	
		61					
1. Can this well be purged dry?	⊠ Yes	□ No	11. Depth to Water	Before Dev	elopment	After Devel	opment
2. Well development method:	•		(from top of	a.	ft.		ft.
surged with bailer and bailed	□ 4	1	well casing)				
surged with bailer and pumped	⊠ 6	1					
surged with block and bailed	□ 4	2	Date	b. 12/16	/1999	12/16/	1999
surged with block and pumped	□ 6	2					
surged with block, bailed, and p	umped 🛭 7	0					
compressed air	□ 2	0	Time	c. 07:	55 am	08:5	0 am
bailed only	□ 1	0					
pumped only	□ 5	1	12. Sediment in well	.01	0 inches	0.0	) inches
pumped slowly	□ 5	0	bottom		_		
other		<u> </u>	13. Water clarity	Clear ⊠ Turbid □	10	Clear ⊠ 2.0 Turbid □ 2.5	
3. Time spent developing well		55 min.		(Describe) Clear		(Describe) Clear	,
4. Depth of well (from top of well casin	g) 5	8.5 ft.		Cicui		- Cicui	
5. Inside diameter of well	2	.06 in.			-		
6. Volume of water in filter pack and we	all		,				*****
casing	CII	gal.		-			
		<i>5</i>	Fill in if drilling fluids	were used and v	vell is at soli	d waste facility:	
7. Volume of water removed from well	15 ga	als. gal.	14. Total suspended		mg/l		mg/l
8. Volume of water added (if any)		gal.	solids				
9. Source of water added			15. COD		mg/l		mg/l
			16. Well developed by:	Person's Name	and Firm		
10. Analysis performed on water added	? \( \sum \text{Yes}	· 🗆 No	G. Jone				
(If yes, attach results)			Boart L	ongyear			
17. Additional comments on developme	nt:		200.72	o.18, va.			
Facility Address or Owner/Responsible	Party Address		71. 1	1			
Name:			I hereby certify that th knowledge.				best of my
Firm:			Signature:	n Thal	M		
Street:			Print Name: Ro	n Thal	acke	$\cap$	
City/State/Zip:				Longyear			
			I IIII.				

,come	State of Wisconsin Department of Natural Resources Route To:	Watershed/Wastewater		1anagement	MONITORING WELL CON Form 4400-113A Rev.	ISTRUCTIO
		Remediation/Redevelopm			Well Name	. 0-97
	Facility/Project Name	Local Grid Location of W	/eii	. □ E.	well Name	
影響	Scrap Site	ft.		ft. DW.	MP-2S, Wis. Unique Well No DNR W	Iall Number
	Facility License, Permit or Monitoring No.	Grid Origin Location	(Cne	ck if estimated: or	wis. Unique well No DNR w	en Number
	E W ID	Lat				
ACTUAL .	Facility ID	St. Plane Section Location of Wast	ft. N,	ft. E. S/C/N	Date well histaried	
	34101632	Section Location of Wast	e/Source	ΠE	Well Installed By: (Person's N	Name and Fir
	Type of Well	1/4 of 1/4 of	f Sec, T	N, R 🗒 ẅ́	71	vanie and i ii.
1-059	Well Code 11/mw Distance Well Is From Waste/Source	Location of Well Relative	e to Waste/Source		M. Mueller	
		u ☐ Upgradient	s 🗆 Sidegradient		Boart Longyear	
1.44	A. Protective pipe, top elevation  B. Well casing top elevation	d Downgradient	n ⊔ Not Known	-1. Cap and lock?		Yes □ No
	A. Protective pipe, top elevation	ft. MSL		<ul><li>2. Protective cover</li></ul>		103 🗀 110
	B. Well casing, top elevation	2.50 ft. MSL		a. Inside diamete		4.0_ ir
Y		ft. MSL <		b. Length:		7.0 f
	C. Land surface elevation	II. WISL		c. Material:	S	steel ⊠ 04
\$ 38g	D. Surface seal, bottom ft. MSl	_ or6.0 ft.	· 1000	र्था %	Oi	94.
	12. USC classification of soil near screen:	5)153(15)	A A CONCO	عر ه d. Additional pro	otection?	Yes □ No
	i e	W D SP D	YII     X \	If yes, describ	e: 4" Bumper Post	
24.2		L CH CH C		\	Bento	nite 🛭 30
	Bedrock □	; !		3. Surface seal:		rete 🗆 01
118	13. Sieve analysis attached?   Yes	□ No			Ot	ther 🗆 💶
	14. Drilling method used: Rota	rv = 50	`	4. Material between	n well casing and protective pip	e:
83 4	Hollow Stem Aug			•	Benton	nite 🗆 30
- 44	Oth			***************************************	#30 Sand Ot	ther 🖾 🔔
		İ	₩ ₩	- 5. Annular space se	eal: a. Granular Bentor	nite ⊠ 33
ř.	15. Drilling fluid used: Water □ 0 2 A	ir □ 0 1			mud weight. Bentonite-sand slu	
1 36	Drilling Mud □ 0 3 Nor	ıe □99 .			nud weight Bentonite slu	
tigra					nite Bentonite-cement gr	
. 54	16. Drilling additives used? ☐ Yes	⊠ No			volume added for any of the ab	
1				f. How installed	d: Tre	mie 🗆 01
€ cSgs	Describe				Tremie pum	ped □ 02
	17. Source of water (attach analysis):				Gra	vity 🖾 08
4. 医				6. Bentonite seal:	a. Bentonite granı	ules 🖾 33
€.₫				′ b. □ 1/4 in. □.	3/8 in. □ 1/2 in. Bentonite pel	lets 🗆 32
	E. Bentonite seal, top ft. MSL	or $\phantom{00000000000000000000000000000000000$		c	Ot	ther 🗆 🗀
. 3	·			7. Fine sand materi	al: Manufacturer, product name	e and mesh s
	F. Fine sand, top ft. MSL	or <u>6.0</u> ft.		a	#7 Badger	
\$ 36.		\ '			d ft <sup>3</sup>	
	G. Filter pack, top ft. MSL	or8.0 ft.			rial: Manufacturer, product nan	ne and mesh
			]  1 /	a#	#30 American Materials	- 135
2015	H. Screen joint, top ft. MSL	or10.0 ft		b. Volume added		
		20.0		9. Well casing:	Flush threaded PVC schedule	
1 1	I. Well bottom ft. MSL	or $\frac{20.0}{}$ ft.			Flush threaded PVC schedule	
23		~				ther 🗆 💶
	J. Filter pack, bottom ft. MSL	or $\underline{22.0}$ ft.	/国 / _	10. Screen material:		
J		22.0		a. Screen Type:		cut 🗆 11
3	K. Borehole, bottom ft. MSL	or22.0 ft.			Continuous	
1.64 1.64			\ <i>\\\\</i>	1 3 4 5		ther 🗆 🔔
٠.,	L. Borehole, diameter8.0 in.			b. Manufacturer	Doan Longyear	0.010 ir
	227			c. Slot size:		10.0 f
k kayari	M. O.D. well casing $\frac{2.37}{}$ in.		\	<ul><li>d. Slotted length</li><li>11. Backfill material</li></ul>		
	N. I.D. well casing 2.06 in.			i i. Dackini material	• •	one ⊠ 14 ther □
Š	N. I.D. well casing $\frac{2.06}{}$ in.			THE STATE OF	Oi	U
4250	I hereby certify that the information on this t	orm is true and correct to	the hest of my limited	vledge		
	Signature 6	Tes:		vicuge.		71.5\2.50 500
· .	KILL	Doar	t Longyear Alderson St. Schofield	I. WI 54476		715)359-709( 715)355-5715
	Y /			·	\ / '	- / 1

Please complete both Forms 4400-113A and 4400-113B and return 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 condut involved. Personnally 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.

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## MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 6-97

Route To: Watershed			Waste Management			
	on/Redeve	lopment	Other 🗌	Well Name		
Facility/Project Name		County	Tr I	well Name	M	P-2S
Scrap Site Facility License, Permit or Monitoring Number		County Code	Taylor Wis. Unique Well Nur	mber	DNR Well	
Facility Electise, Ferrint of Monitoring Number		61	Wis. Offique Well Iva	noci	BIVIC WELL	ramber
		, 01			1	
1. Can this well be purged dry?	□ Ye	s 🛭 No	11. Depth to Water	Before Dev	elopment	After Development
2. Wall dayslamment mathed:			(from top of		6.60 ft.	8.30 ft.
Well development method:     surged with bailer and bailed		11	well casing)	a.	<b>0.0</b> 0 π.	δ.30 π.
surged with bailer and pumped		, i 5 1				
surged with block and bailed		12	Date	b. 12/16	/1999	12/16/1999
surged with block and pumped		5 2	•			
surged with block, bailed, and pumped		7 0				
compressed air		2.0	Time	c. 09:	20 am	10:30 am
bailed only		0				
pumped only	□ 5	5 1	12. Sediment in well	.01	0 inches	0.0 inches
pumped slowly		5 0	bottom			
other		<del></del>	13. Water clarity	Clear 🗆	1 0	Clear 🗆 20
				Turbid 🖾	1 5	Turbid ⊠ 25
3. Time spent developing well		70 min.		(Describe)		(Describe)
3. Time spent developing wen		, , , , , , , , , , , , , , , , , , , ,		Brown		Cloudy Brown
4. Depth of well (from top of well casing)	2	22.5 ft.				
of or ( on ook or on one of						
5. Inside diameter of well	2	2.06 in				
6. Volume of water in filter pack and well						
casing		gal.				
			Fill in if drilling fluids	were used and v	vell is at soli	d waste facility:
7. Volume of water removed from well	125 g	gals. gal.				
			14. Total suspended		mg/l	mg/l
8. Volume of water added (if any)		gal.	solids			
9. Source of water added			15. COD .	4	mg/l	mg/l
9. Source of water added					_	· ·
			16. Well developed by:	Person's Name	and Firm	
10. Analysis performed on water added?	☐ Yes	s 🗆 No	G. Jones	,		
(If yes, attach results)						
			Boart Lo	ongyear		
17. Additional comments on development:						
					•	
Facility Address or Owner/Responsible Party Address	ess		I hereby certify that the	above informat	ion is true ar	nd correct to the best of my
Name:			knowledge.			•
ivalite.	1		· ·		9 1	
Firm:			Signature:	-/ L	N	tone.
				<del></del>	, ,	
Street:			Print Name: Kor	Thale	acker	<u> </u>
			D			
City/State/Zip:			Firm: Boart I	ongyear		

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#### SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 5-97

Fax: (715)355-571:

•			<u>Rc</u>	oute To:		astewater  Redevelopment	Waste Other		gement								
												•		Pa	ge 1	of	2
	ty/Proje		ne				License	/Permi	/Monit	oring N	lumbe	Γ	Boring	Numb	er		
	ap Sit		<b>.</b>		name of crew chi		Date Dr	:::: C	· · · · · ·		l r	ate Drill				2-2S	ling Method
DOIM	g Dillie	и Бу (	riini nai	ne and i	name of crew cm		Date Di	minig S	naneu			ate Dim	ing Coi	npicica			mig Mediod
Bo	art Lo	ngyea	ar - M.	Muell	ler				9/199				12/9/	1999			1/4 HSA
WI U	nique V	Vell No	<b>)</b> .	DNR	Well ID No.	Common Well Name MP-2S	Final St		ater Le <sup>.</sup> MSL		Surfa	ice Eleva	ition et MS	т	Bo		Diameter Inches
Borin	g Locat	ion or	Local G	rid Orig	in (Check	if estimated: ( )		rect	o o						If appli		
State	Plane					S/C/N	Lat.		<del>"</del> —			-		□ N			□ E
Facili		of	1	/4 of Se	County	T N, R	Long County C			Toum/C		-   r Village		t 🗆 S			Feet W
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	s (ii	, s	et		Soil/R	ock Description						0					]
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		Eac	h Major Unit		scs	Graphic	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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		that t			on this form is tru	e and correct to the be	st of my kn	owled	ge,			44-0					
Signatu	ire /		TL	R	~		art Longy		. C I . I		<b></b>					Tel: (7	715)359-709

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions 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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

101 Alderson St. Schofield, WI 54476

Form 4400-122A

###### *	Dori-	. Maren	,	MP-	-2S Use only as an attachment to Form	4400-122						Pag	ge 2	of	2
	Contract of the Contract of th	g Numb	CI	IVII -	OSC UNITY AS AN ARRACHMENT TO FORM	. 100-122.					Soil	Prope			
影響			ι.	#	Soil/Rock Description					စ္					
	. v	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	And Geologic Origin For		ပ	E	Q	Compressive Strength	r e		ity		RQD/ Comments
6,5%	Number and Type	Length Att. Recovered (	» C	pth I	Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	ompr	Moisture Content	Liquid Limit	Plasticity Index	P 200	QD/ omm
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<b>6</b> %	State of Wisconsin Department of Natural Resources Route To:		Wastewater   n/Redevelopment [		nagement 🗆	MONITORING WEL Form 4400-113A	L CONSTE Rev. 6-9		ΓΙΟΝ
3	Facility/Project Name	Local Grid I	ocation of Well			Well Name			—
goa	Same Site	Docum Grid 2	₽ □N.	A	□ E.	MP	<b>-9</b> S		
	Scrap Site Facility License, Permit or Monitoring No.	Grid Origin	Location	(Check	if estimated: ( )	MP Wis. Unique Well No	DNR Well	Numt	oer
		Lat 0	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Long.	or		i		
						Date Well Installed			
\$*1650	1.	St. Plane	ation of Waste/So	,	_ ft. E. S/C/N	12/14	/1999		
	Type of Well	Section Loc	ation of waste/so	· · ·	ΘE	Well Installed By: (Pe	erson's Nam	e and	Firm
	Well Code 12/pz	1/4 of	1/4 of Sec	C T	. N, R LJ W	Well Installed By: (Po	ueller		
F3783	Distance Well Is From Waste/Source	Location of u	Well Relative to	Waste/Source □ Sidegradient					
	Boundary ft.			_		Boart Le	ongyear		
2.48	A. Protective pipe, top elevation	n MS	Ι		. Cap and lock?		⊠ Yes	; D	No
FA.S.	7. I foldetive pipe, top elevation	10. 1410			2. Protective cover	pipe:			
7.7	B. Well casing, top elevation	<u>.50</u> ਜਿ. MS	L -	HI'Y	a. Inside diamete	r:		4.0	<u>0</u> in.
1.4	C. Land surface elevation	ft. MS	L		b. Length:		_	7.0	<u>)</u> ft.
				Transferred of the same	c. Material:		Steel	$\boxtimes$	0 4
東州衛	D. Surface seal, bottom ft. MSL	or	ft.	1000			Other		<u>- :-</u>
	12. USC classification of soil near screen:		2012 (C) P	· AKOKOK	d. Additional pro		⊠ Yes	; 🗆 `	No
	GP□ GM□ GC□ GW□ SW	/□ SP □	1/		If yes, describe	e: 4" Bumper l	Post	_	
	SM SC ML MH CL	□ CH□			S. Surface seal:		Bentonite		3 0
	Bedrock □		- ;		o. Surface Sear.	_	Concrete	$\boxtimes$	0 1
4	13. Sieve analysis attached?	$\square$ No	×		****		Other		
	14. Drilling method used: Rotary	√ □ 5 0		]	. Material betweer	well casing and protect	tive pipe:		
\$1500	Hollow Stem Auger		-				Bentonite		30
1.0	Other		₿	ŀ <b>⊠</b>		#30 Sand	Other	$\boxtimes$	
	:			3	. Annular space se	al: a. Granula	r Bentonite	Ø	3 3
के प्रश्ले क	15. Drilling fluid used: Water	□01	· :			nud weight . Bentonite-			
	Drilling Mud □ 0 3 None	□99				nud weight Bent			
100	_			l		nite Bentonite-ce			
	16. Drilling additives used? ☐ Yes	⊠ No				volume added for any			
í					f. How installed	•	Tremie		0 1
VSCS.	Describe		- : 💥				nie pumped		02
	17. Source of water (attach analysis):						Gravity		
<b>企</b>				₩ 6	. Bentonite seal:	a Benton:	ite granules		
- ( <del>7</del>			<del>-</del>	│ 👹   / ઁ		3/8 in. □ 1/2 in. Bento			
મું કે	E. Bentonite seal, top ft. MSL of	2.0	- ₩		c				
	E. Bentonne sear, top 1t. WSL C	n <u></u>	\ 600			il: Manufacturer, produ	uct name an	d mes	sh siz
4 83	F. Fine sand, top ft. MSL o	6.0	ft.		a	#7 Badger			
513	r. rine sand, top it. MSL C	)ı <u> </u>	n. \		b. Volume added		3		
	G. Filter pack, top ft. MSL o	8.0	ft.	.8		ial: Manufacturer, proc		nd me	esh si
1000	G. Filter pack, top ft. MSL of	,,	11.	P}/ _ /°	٠ .	30 American Materials			- O.1 Old
	H. Screen joint, top ft. MSL o	or10.0	ft.	<u>   </u>	a# b. Volume added				_ <u>-</u>
5.09	ii. sereen jount, top it. MSL (	)ı <u> </u>			. Well casing:	Flush threaded PVC s		[2]	23
e	I. Well bottom ft. MSL o	or20.0		圉 化二二二甲二二二甲二二二甲二二二二二二二二二二二二二二二二二二二二二二二二二	. Wen casing.	Flush threaded PVC s			
ě	i. wen bonom ii. WISE (	n	16.	10		Trush inteaucu į VC s	Other		
E iii	J. Filter pack, bottom ft. MSL c	or20.5	# _ \	舅	. Screen material:	PVC	Oniei	<u>.</u>	12.17
	J. Fritei pack, bottom II. MSL (	1	11.	~10			Factory cut		 1 1
行實	K. Borehole, bottom ft. MSL c	20.5			a. Screen Type:		tinuous slot		
	K. Borenoie, bottom it. MSL (	or	11.			Com			
Vill.	L. Borehole, diameter 8.0 in.				b. Manufacturer	Boart Longyear	Other	. <i>ت</i>	
7.4	L. Borehole, diameter8.0 in.				c. Slot size:	. Dourt Bong, cui		0.010	) : <u>.</u>
1 15	M O D and large 2 27				d. Slotted length	,	<u> </u>	10.0	in. )ft.
1 7.80	M. O.D. well casing in.			11		(below filter pack):	None		
	N. I.D. well casing 2.06 in			11	. Dackilli iliateliai	(octow fitter pack).	Other		
	N. I.D. well casing 2.06 in.		,				Oner	۔ لیا	
£29	I haraby cartify that the information and information	man in tour	d coment to the !	agt of mar 1 1	daa				
wheeler .	I hereby certify that the information on this for Signature		C:		uge.				
A	Signature of the same of the s		Doante		VI 54476		Tel: (715)3		
4			101 Aiders	son St. Schofield, V	v1 344 /0		Fax: (715)3	222-2	1/15

Please complete both Forms 4400-113A and 4400-113B and return 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 condut involved. Personnally 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.

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### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

			Ro	ute To:		astewater   Redevelopment		Waste Other	_	geme	ent									
						•											Pa	ge 1	of	2
•	/Projec		ie					License	/Permit	t/Mc	nito	oring N	umb	er		Boring	Numb	er		
	p Site		irm nar	ne and r	name of crew chie	ef)		Date Dr	illing S	Starte	ed			Date I	rilli	ng Cor	npleted		P-2S Drill	ling Method
_		•																		
Boa WI Un	rt Lor	igyea 'ell No.	r - M.	Muell	ler Well ID No.	Common Well Name	e	Final St	12/9 atic Wa				Sur	face El		12/9/ tion	1999	Bo		1/4 HSA Diameter
	•					MP-2S	,		Feet						Fee	et MS			8.0	Inches
Boring State 1		on or I	ocal G	rid Orig	in (Check	f estimated: ( ) S/C/N		Lat.		•				" Loc	al (	Grid Lo		(If appl	icable)	□Е
	1/4	of	1	/4 of Se		T N, R		Long		<u> </u>		<u> </u>		<u></u>		Fee	1 □ 2 □ 1	N		Feet W
-	Facility ID County 34101632 Taylor							ounty Co	ode			own/C ford	City/	or Vill	age					
	iple	: 	T		Taylor		10	) 1		IV.	iea	lora	T			Soil	Prop	erties		
			-		Soil/Re	ock Description														
ے اور	Att. , red (i	ount	n Fee			ologic Origin For			70				ے	ssive	ų.	8		<u> </u>		ints
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	ŧ	Eacl	n Major Unit			scs	Graphic	, ნი	Well Diagram	PID/EID	Compressive	Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions 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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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#### SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Samı		CI	MP-	-2S Use only as an attachment to Form 4400	1		Ī			Soil	Pag Prope		of	2
	Length Att. & Secovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content		Plasticity Index	P 200	RQD/ Comments
3 SS V	24 10	6 12 25 25	-13 14 15 16 17 18 20 21	EOB @ 22.0' Well Set @ 20.0'						W				

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## MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 6-97

Route To: Watershed			Waste Management ☐	)			
Facility/Project Name	on/Redevei	opment  County	Other 🗆	Well Name			
		County	Taulor	Well Ivallie	M	P-9S	
Scrap Site Facility License, Permit or Monitoring Number		County Code	Taylor Wis. Unique Well Nur	nber .	DNR Well		
racinty License, Fermit of Monitoring Number		61	Wis. Oinque Wen Ivan	11001		rumoer	
No. of the second secon		01					
1. Can this well be purged dry?	☐ Ye	s 🗆 No	11. Depth to Water	Before Dev	elopment	After Devel	opment
6 W 11 1			(from top of		2.40 ft.		2.60 ft.
2. Well development method:		•	well casing)	a.	2.40 ft.		2.00 It.
surged with bailer and bailed		1	, , , , , , , , , , , , , , , , , , ,				
surged with bailer and pumped		1	Date	ь. 12/1:	5/1999	12/15/	000
surged with block and bailed		2	Date .	0. 12/1.	7/1/7/	12/13/	()))
surged with block and pumped		2					
surged with block, bailed, and pumped	_	0		05.	00	06.1	
compressed air		0	Time	c. 05:	00 pm	06:1:	pm
bailed only		0	1	0	10	0.0	
pumped only		1	12. Sediment in well	.0	10 inches	0.0	inches
pumped slowly	□ 5	0	bottom				
other	_		13. Water clarity	Clear □ Turbid ⊠	1 0 1 5	Clear □ 20 Turbid ☑ 25	
3. Time spent developing well		75 min.		(Describe)		(Describe)	
			+	Brown		Cloudy	
4. Depth of well (from top of well casing)	. 2	22.0 ft.					
					····		
5. Inside diameter of well	2	2.06 in.					<del></del>
C XI I a see C and a last City and a see H			,				
6. Volume of water in filter pack and well		gal					
casing		gal.					
			Fill in if drilling fluids	were used and	well is at soil	d waste facility:	
7. Volume of water removed from well	125 g	als. gal.			_		_
			14. Total suspended		mg/l		mg/l
8. Volume of water added (if any)		gal.	solids				
			15. COD		mg/l		mg/l
9. Source of water added			15. COD		mg/i		mg/1
· ·			16. Well developed by:	Person's Name	and Firm		
10. Analysis performed on water added?	□ Yes	□ No			and I mm		
(If yes, attach results)	_ 103	2 1.0	G. Jones	5			
			Boart Lo	ongyear			
17. Additional comments on development:							
-							
					*		
			8				
C 22 All O 20 21 D (All			<u> </u>			·	
Facility Address or Owner/Responsible Party Addr	ess		I hereby certify that the	above informa	tion is true a	nd correct to the b	est of my
Name:			knowledge.				
Name.			,	,	PA		
Firm:			Signature:	-/ 1	NU		
HIII,			Signature.				
Street:	-		Print Name: Ro	n Tha	lack	er.	
City/State/Zip:			Firm: Boart I	Longyear			

	State of Wisconsin Department of Natural Resources Route To:		Vastewater		<u> </u>	MONITORING WELL CON Form 4400-113A Rev.	STRU-	CTION
•	E-Way/Design Norms	Taral Cald I	/Redevelopment  ocation of Well	Other 🗌		Wall Nama		
	Facility/Project Name	Local Orld Lo	ocation of well N.	0	□ E.	MP-9D Wis. Unique Well No DNR W		
€r.xee	Scrap Site Facility License, Permit or Monitoring No.	Caid Oaisia I	tS	II.	□ W.	Wis Unique Well No DNP W	all Nu	mber
	Facility License, Permit or Monitoring No.	Grid Origin L	Location Lo	(Check	r estimated.			
	EIEID	<del>-</del>				Date Well Installed		
ಭಾವಧಾ	Facility ID	St. Plane	ft. N, _		_ n. e. 5/C/N	1		
	34101632	Section Loca	tion of Waste/Source	e	ΠЕ	Hell Installed By: (Person's N M. Mueller	Jame a	nd Firm
	Type of Well	1/4 of	1/4 of Sec	T	N, R 🗒 W	well histalled by. (Ferson's I	vallic a	nu run
action 200	Well Code 12/pz	Location of V	Well Relative to Was	ste/Source		M. Mueller		
1.00	Distance Well Is From Waste/Source Boundary	u 🗆 Upgra		Sidegradient		Boart Longyear		
, d	11.	d   Down	ngradient n 🗆 N	Not Known	C 111-0		Yes ⊠	
	A. Protective pipe, top elevation  B. Well casing, top elevation	ft. MSI		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. Cap and lock?  Protective cover		res 🗵	1 NO
6349	B. Well casing, top elevation	1.50 ft. MSI	,	H 2	a. Inside diamete			4.0 in.
÷			11 1		a. morae aramete	r:		7.0 ft.
	C. Land surface elevation	ft. MSI			b. Length: c. Material:	S	—— teel ⊠	
j. j. 200	D. Surface seal, bottom ft. MS	L or1.01	ft.	17. 31. 31	c. Material.	O		* 4.5
					d. Additional pro		Yes [	
•	12. USC classification of soil near screen:	w = 0 = =		X	If yes, describe		165	J NO
	GP GM GC GW S SM SC ML MH G	W SP CH C	<b>\ \}</b>   1			Bento		7 20
1	Bedrock	L CHL			. Surface seal:			
	13. Sieve analysis attached?	□No		₩ \		_ Conc		
				3 4 5. b c d d e f				1
12		ry 🗔 5 0		₩ 4	. Material between	well casing and protective pip		
1972; 3	Hollow Stem Aug			ቖ		#30 Sand Benton		
(e-g	Oth	er 🗆		$ \otimes $		#30 Salid Of	.her ⊠	]
				5.		al: a. Granular Benton		
1 - 12	. 3	.ir □01		<b>⊗</b> b		nud weight. Bentonite-sand slu		
1.44	Drilling Mud □ 0 3 Nor	1e □99		<b>⊗</b> c		nud weight Bentonite slu		
540349	16 Datting addition and 10 Days	⊠ No	;	<b>⊠</b> d		nite Bentonite-cement gr		1 50
	16. Drilling additives used? ☐ Yes	⊠ N0		<b>⊗</b> e		volume added for any of the ab	ove	
i	Describe			<b>⊗</b> f	How installed		mie 🗆	
- 45				ቖ		Tremie pum	ped 🗵	102
	17. Source of water (attach analysis):			ቖ		Grav	vity 🗆	1 0 8
F) 3				₿ 6.	Bentonite seal:	a. Bentonite granu	ıles 🛭	33
ë si				፠ /	b. □ 1/4 in. □ 3	3/8 in. □ 1/2 in. Bentonite pel	lets 🗆	3 2
Parks.	E. Bentonite seal, top ft. MSL	or1.0	ft.	፠ /	c	Ot	her 🗆	1
y 194				XXI / 7	Fine sand materia	al: Manufacturer, product name	e and n	nesh siz
	F. Fine sand, top ft. MSL	or NA	ft.	$\otimes$ / /	a	NA		
5, 1				፠/ /	b. Volume added	ft³		
	G. Filter pack, top ft. MSL	or Prepack	ft.	.8.		ial: Manufacturer, product nam	ne and	mesh si
12.1	p			7	a,	PrePack		117
4-25	H. Screen joint, top ft. MSL	or 48.5	ft.	_  /	b. Volume added			
	solven jonni, top	<u> </u>	<b></b>	9	Well casing:	Flush threaded PVC schedule	40 ⊠	1 2 3
	I. Well bottom ft. MSL	or 58.8	ft. \	1 "	wen casing.	Flush threaded PVC schedule		
	i. Well bottom	01	ft.			Ot		
1系数	J. Filter pack, bottom ft. MSL	or 59.0	4. []	10	Screen material:		iici 🗀	
	J. Finel pack, bottom n. WSL	01	11.	_10.		Factory		1 1 1
1, 1	K. Borehole, bottom ft. MSL	-59.0	a /////		a. Screen Type:	•		
	K. Borenoie, bottom it. MSL	or	11.			Continuous		
13				$\mathbb{X}$	1. Manuscont		her 🗆	·
	L. Borehole, diameter 8.0 in.				b. Manufacturer	Don't Dongyear	ሰ ባ	12 in.
	2.27				c. Slot size:		1/	0.0 ft.
estatus.	M. O.D. well casing $\frac{2.37}{}$ in.			\	d. Slotted length:			
	200			11.	Backilli material	· · ·	one 🛭	
$\leq A$	N. I.D. well casing $2.06$ in.					Ot	her 🗆	
1								
No.A	I hereby certify that the information on this f		r.		dge.			
	Signature	1	Firm Boart Long			Tel: (7		
3			101 Alderson S	St. Schofield, W	/I 54476	Fax: (7		

Please complete both Forms 4400-113A and 4400-113B and return 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 conduit involved. Personnally 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.

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#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

			<u>R</u> c	oute To:		Wastewater   n/Redevelopment	7	Waste Other	Manag	geme	nt										
					Komodiano	site do relopinem 🗀	<b>-</b> .	onici	_					•			· p <sub>2</sub>	ige 1	of	4	
Facility/Project Name								License/Permit/Monitoring Number Boring Number													
	ap Sit g Drille		irm na	ne and r	name of crew ch	nief)		Date Drilling Started   Date Drilling Completed   Drilling Meth													
D	T		M	N 4=11	l				10/1	2/10	00	0			1,	2/12	/1000		1	1 /4 LIC A	
WIU	nique V	Vell No	1F - IVI.	Muell  DNR	Well ID No.	Common Well N	ame	Final St	12/1 atic W				Sur	face Ele			/1999		4 1/4 HSA Borehole Diameter		
Borin	n l ocat	ion or	Local G	rid Orig	in (Checl	MP-9D	1	<u>L</u>	Feet	MS	L					t MS		(lf appl		Inches	
	Plane	iloii oi i	Local O	ild Olig	in (Check	S/C/N	,	Lat.		<u> </u>		<del>'</del> –		_	ц О.			1	icaoic,	□ E	
Facilit		of of	_	/4 of Se	County ,	T N, R	10	Lon County C		Civ	ril T	own/		"_ or Villa	Je	Fee	t 🗆 S	3		Feet W	
	0163	2	***************************************		Taylor			61	000	1		ford	City, .	71 V III.	50					·	
Sar	nple															Soil	Prop	erties	1		
	it. &	ints	Feet			Rock Description eologic Origin For								ive						s	
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet			ch Major Unit			CS	hic		Well	PID/FID	Compressive	ığı	Moisture Content	bi T	Plasticity Index	0	RQD/ Comments	
Nun	Leng	Blov	Dept						n s	Graphic	Log	Well	PID (	Com	Strength	Cont	Liquid Limit	Plastic Index	P 200	RQL Com	
			E	Fine	SAND & S	ILT															
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			<u>-2</u>			•									;						
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			-	Fine	SAND & G	RAVEL				o (											
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			-11	Brn.	Fine SAND					C	•										
			—11 —12	Brn.	Fine SAND														ļ		
I hereby Signatu		y that th		······································		ue and correct to the	e best	of my kn	owledg	ge.											

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions 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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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Boring Number	MP-9D	Use only as an attachment to Form 4400-	122.		 		Pag		of	4
Sample						Soil	Prope	erties.		
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	Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
3 SS 24 18 18 34 50		n. Fine SAND w/Silty Clay				w				
4 SS 24 12 29 50/4	- 20	ay TILL	-			w				
5 SS 24 6 21 50/5	- 25	ndy CLAY				w				
6 SS 24 6 12 50/5	- 30	n. TILL				W				

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3oring Sam	g Numb	er	MP-	Use only as an attachment to Form 4400	-144.					Soil	Prop	ge 3 erties		
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	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/
7 SS	24 20	12 21 25 41	-33 -34 -35 -36 -37							W				
8 SS \	24 18	4 14 21 35	38 - 39 - 40 - 41 - 41							W				
9 SS \	24 12	12 18 50/4	45	Brn. CLAY SAND						W				
io SS	24	12 15 50/4	49	WEATHERED ROCK						w				

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## **SOIL BORING LOG INFORMATION SUPPLEMENT** Form 4400-122A Rev. 5-97

Form 4400-122A

Sam	ple										Soil	Prope	erties		
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	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/
			- - - - - - - - - - -												
SS V	24	12 50/3	-54 55						·		W				
			-56 57						,						
12 \ SS \	24	50/2	-58 - - - -59	EOB @ 59.0' Well Set @ 58.8'				-			W				
														٠	
-															
	v.														
					`										

## **WELL/DRILLHOLE/BOREHOLE ABANDONMENT** Form 3300-5B Rev. 4-97

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 Scrap Site								
Well/Drillhole/Borehole County	Original Well Owner (If Known)								
Location MP-2 Taylor									
E	Present Well Owner								
1/4 of 1/4 of Sec ; T N; R \bigcup W	Scrap Site								
(If Applicable)	Street or Route								
Grid Location Grid Number	City, State, Zip Code								
<u> </u>									
ft. N. S.,ft. E. W.	Medford, WI								
Civil Town Name	Facility Well No. and/or Name (If Applicable) WI Unique Well No.								
	MP-2								
Street Address of Well	Reason For Abandonment								
	Broke								
City, Village	Date of Abandonment								
Medford	12/16/99								
WELL/DRILLHOLE/BOREHOLE INFORMATION									
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet)								
	Pump & Piping Removed?  Yes No Not Applicable								
(Date)	Liner(s) Removed?  Yes No Not Applicable								
Monitoring Well Construction Report Available?									
☐ Water Well ☐ Yes ☐ No	Casing Left in Place?								
	If No, Explain Pulled								
Borehole									
	Was Casing Cut Off Below Surface?  Yes  No								
Construction Type:	Did Sealing Material Rise to Surface? Yes No								
☐ Driven (Sandpoint) ☐ Dug	Did Material Settle After 24 Hours?								
Other (Specify)	If Yes, Was Hole Retopped?								
Formation Type:	(5) Required Method of Placing Sealing Material								
Unconsolidated Formation Bedrock	Conductor Pipe - Gravity Conductor Pipe - Pumped								
	☐ Dump Bailer ☐ Other (Explain)								
Total Well Depth (ft) $2.5$ Casing Diameter (in.) $2.00$	(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.)	Concrete Bentonite Pellets								
· · · · · · · · · · · · · · · · · · ·	Clay-Sand Slurry Granular Bentonite								
Was Well Annular Space Grouted? Yes No Unknown									
If Yes, To What Depth? Feet									
11 Tes, 10 what Depth:	☐ Chipped Bentonite								
(7)									
Sealing Material Used	From (Ft.) To (Ft.) Mix Ratio or Mud Weight								
Bentonite Chips	Surface 2.5 1/4 bag								
3									
9									
(8) Comments									
	parameter and a second								
(9) Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY								
Boart Longyear	Date Received/Inspected District/County								
Signature of Person Doing Work / Date Signed									
pm/ in 12/28/99	Reviewer/Inspector Complying Work								
Street or Route Telephone Number	Noncomplying Work								
101 Alderson St. (715)359-7090	Follow-up Necessary								
City, State, Zip Code	1 onow-up 14cccsomy								
Schofield, WI 54476									
SCHOHEIT WI 344/b									

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# MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 6-97

Route To: Watershed	l/Wastewat	er 🗌	Waste Management			
Remediati	on/Redevel	lopment 🗌	Other			
Facility/Project Name		County		Well N	lame	
Scrap Site		·	Taylor			P-9D
Facility License, Permit or Monitoring Number		County Code	Wis. Unique Well Nur	mber	DNR Well	Number
		61				
1. Can this well be purged dry?	□ Ye	s 🛭 No	11. Depth to Water	Before	Development	After Development
2. Well development method:			(from top of	a.	ft.	ft.
surged with bailer and bailed	□ 4	1	well casing)			
surged with bailer and pumped	⊠ 6	51				
surged with block and bailed	□ 4	12	Date	b. 1	12/15/1999	12/15/1999
surged with block and pumped		5 2				
surged with block, bailed, and pumped	D 7	7 0			•	
compressed air		2.0	Time	C.	04:30 pm	04:55 pm
bailed only		0	:		•	•
pumped only		5 1	12. Sediment in well		.010 inches	0.0 inches
pumped slowly	_	50	bottom		-	0.0
other	_ 🗆 _	, 0	13. Water clarity	Clear	⊠ 10	Clear ⊠ 20
outer	_ U _		15. Water clarity		□ 15	Turbid  25
•		2.5		(Descrit		(Describe)
3. Time spent developing well		25 min.				,
			·	Clear	<u>r                                      </u>	Clear
4. Depth of well (from top of well casing)	2	59.0 ft.				
5. Inside diameter of well	2	2.06 in.				
6. Volume of water in filter pack and well						
casing		gal.				
			Fill in if drilling fluids	were used	l and well is at soli	d waste facility:
7. Volume of water removed from well	40 g	als. gal.				
		,	14. Total suspended		mg/l	mg/l
8. Volume of water added (if any)		gal.	solids			
			16 000		<b>n</b>	а
9. Source of water added			15. COD		mg/l	mg/l
			16. Well developed by:	Person's	Name and Firm	
10. Analysis performed on water added?	☐ Yes	s 🗆 No			Name and I mm	
(If yes, attach results)			G. Jones	S		
			Boart Lo	ongyear		
17. Additional comments on development:						
				,		
						•
Facility Address or Owner/Responsible Party Add						
racinty Address of Owner/Responsible Faity Add	1035			e above in	formation is true as	nd correct to the best of my
Name:			knowledge.		•	
			1	, ,	- 01	
Firm:			Signature:			
•			D.	71	alacke	
Street:	***		Print Name:	\	alacke	
City/State/Zip:			Firm: Boart	Longyea	r	

NOTE: See instructions for more information including a list of county codes and well type codes.

### WELL/DRILLHOLE/BOREHOLE ABANDONMENT

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. Scrap Site (1) GENERAL INFORMATION (2) FACILITY NAME County Original Well Owner (If Known) Well/Drillhole/Borehole Location **Taylor** MB-S Present Well Owner Е W Scrap Site Street or Route (If Applicable) Grid Number City, State, Zip Code Grid Location Medford, WI Civil Town Name Facility Well No. and/or Name (If Applicable) WI Unique Well No. Street Address of Well Reason For Abandonment Out of Service City, Village Date of Abandonment Medford 12/14/99 WELL/DRILLHOLE/BOREHOLE INFORMATION Depth to Water (Feet) (3) Original Well/Drillhole/Borehole Construction Completed On Yes □ No Not Applicable Pump & Piping Removed? Not Applicable Yes No Liner(s) Removed? Yes 🛛 No ☐ Not Applicable Screen Removed? Monitoring Well Construction Report Available? 🛛 Yes 🗌 No Yes Water Well ☐ No Casing Left in Place? Drillhole If No, Explain Borehole Yes Was Casing Cut Off Below Surface? ⊠ Yes No Construction Type: Did Sealing Material Rise to Surface? 100  $\boxtimes$ Yes No Drilled Driven (Sandpoint) ☐ Dug Did Material Settle After 24 Hours? Other (Specify) Yes If Yes, Was Hole Retopped? Required Method of Placing Sealing Material Formation Type: Conductor Pipe - Gravity Conductor Pipe - Pumped □ Unconsolidated Formation ☐ Bedrock ☐ Dump Bailer Other (Explain) 20.5 Total Well Depth (ft) Casing Diameter (in.) 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.) Concrete Bentonite Pellets Granular Bentonite Clay-Sand Slurry Unknown Was Well Annular Space Grouted? ☐ Yes ☐ No Bentonite-Sand Slurry Bentonite-Cement Grout If Yes, To What Depth? Feet From (Ft.) To (Ft.) Sealing Material Used Mix Ratio or Mud Weight Surface Native 0.50.5 Bentonite Chips 20.5 1 bag Comments Name of Person or Firm Doing Sealing Work FOR DNR OR COUNTY USE ONLY Date Received/Inspected District/County Boart Longyear Date Signed 12/281 Reviewer/Inspector Complying Work Street or Route Telephone Number Noncomplying Work (715)359-7090 Follow-up Necessary 101 Alderson St. City, State, Zip Code Schofield, WI 54476

## **WELL/DRILLHOLE/BOREHOLE ABANDONMENT** Form 3300-5B Rev. 4-97

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 Scrap Site
Well/Drillhole/Borehole County	Original Well Owner (If Known)
Location MP-2 Taylor	
E	Present Well Owner
1/4 of 1/4 of Sec ; T N; R \[ \] W	Scrap Site
(If Applicable)	Street or Route
Gov't Lot Grid Number	
Grid Location	City, State, Zip Code
ft.  \[ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Medford, WI
Civil Town Name	Facility Well No. and/or Name (If Applicable) WI Unique Well No.
	MP-2
Street Address of Well	Reason For Abandonment
	Broke
City, Village	Date of Abandonment
Medford	12/16/99
WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet)
(Date)	Pump & Piping Removed?
	Liner(s) Removed?
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 Pulled
Borehole	
	Was Casing Cut Off Below Surface? Yes No
Construction Type:	Did Sealing Material Rise to Surface? Yes No
☐ Driven (Sandpoint) ☐ Dug	Did Material Settle After 24 Hours?  Yes No
Other (Specify)	If Yes, Was Hole Retopped?
— Onici (Specify)	
Formation Type:	(5) Required Method of Placing Sealing Material
Unconsolidated Formation Bedrock	Conductor Pipe - Gravity Conductor Pipe - Pumped
2.00	Dump Bailer Uther (Explain)
Total Well Depth (It) Casing Diameter (III.)	(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.)	Concrete Bentonite Pellets
	Clay-Sand Slurry Granular Bentonite
Was Well Annular Space Grouted?	Bentonite-Sand Slurry Bentonite-Cement Grout
If Yes, To What Depth?	Chipped Bentonite
(7) Seeling Material Lload	
Sealing Material Used	From (Ft.) To (Ft.) Mix Ratio or Mud Weight
Bentonite Chips	Surface 2.5 1/4 bag
(8) Comments	
(9) Name of Person or Firm Doing Sealing Work	(10) EOD DAID OD COUNTRY LIED ONE V
	(10) FOR DNR OR COUNTY USE ONLY
Boart Longyear Signature of Person Doing Work  Date Signed	Date Received/Inspected District/County
	Paviaus-ff
	Reviewer/Inspector Complying Work
Street or Route Telephone Number	Noncomplying Work
101 Alderson St. (715)359-7090	Follow-up Necessary
City, State, Zip Code	
Schofield, WI 54476	

State of Wisconsin Department of Natural Resources Route To:	Watershed/Wastewater  Remediation/Redevelopment	Waste Management ☐ Other ☐	MONITORING WELL CONSTRUCTION 4400-113A Rev. 6-97
Facility/Project Name	Local Grid Location of Well	ΠF	Well Name
Scrap Site Facility License, Permit or Monitoring No.	ft. N.	(Check if estimated: \( \)	MW-3S Wis. Unique Well No DNR Well Number
t active Electise, Ferritt of Worthorning 110.	Lat L	ong or	Wis. Offique Well (18) Brite Well Humbe
Facility ID			
34101632	St. Plane ft. N, Section Location of Waste/Source	ce tt. E. 37C714	08/02/1999
Type of Well	1/4 of 1/4 of Sec	111-	Well Installed By: (Person's Name and F
Well Code 11/mw	Location of Well Relative to Wa	ste/Source	L. Erdman
Boundary ft.		Sidegradient Not Known	Boart Longyear
A. Protective pipe, top elevation		1. Cap and lock?	⊠ Yes □ N
• • •	1.50 ft. MSL	2. Protective cover	· ·
		a. Inside diamete	er: 4.0 7.0
	ft. MSL	b. Length:	Steel 🛭 0
D. Surface seal, bottom ft. MSI	or 4.0 ft.		Other = _
12. USC classification of soil near screen:	A. A. C. A.	d. Additional pro	
	W G SP G	If yes, describ	
SM□ SC□ MD□ MH□ C Bedrock□	E G CH G	3. Surface seal:	Bentonite □ 3 Concrete ⊠ 0
13. Sieve analysis attached?   Yes	□No		Other 🗆
· ·	ry □ 5 0	4. Material between	well casing and protective pipe:
Hollow Stem Aug	er ⊠ 4 l		Bentonite 🗆 3
Oth	er 🗆 🕮	₩	#30 Sand Other 🛛 🖺
15 Deillies Stuid wood, Water DO2 A	ir □01	5. Annular space se	
15. Drilling fluid used: Water □ 0 2 A  Drilling Mud □ 0 3 Nor	100 to 100 to		nud weight . Bentonite-sand slurry 3
			nud weight Bentonite slurry  3 anite Bentonite-cement grout  5
16. Drilling additives used? ☐ Yes	⊠ No		volume added for any of the above
Describe		f. How installed	
17. Source of water (attach analysis):			Tremie pumped ⊠ 0
(		6. Bentonite seal:	Gravity □ 0 a. Bentonite granules ⊠ 3 d
		, , , , , , , , , , , , , , , , , , , ,	a. Bentonite granutes $\boxtimes 3$ : 3/8 in. $\square$ 1/2 in. Bentonite pellets $\square$ 3:
E. Bentonite seal, top ft. MSL	or 4.0 ft.	₿ / c	Other 🗆 🍒
	\	7. Fine sand materia	al: Manufacturer, product name and mesh
F. Fine sand, top ft. MSL	or <u>6.0</u> ft.	ab. Volume added	#7 Badger
S. Eller J. J.	80 0	b. Volume added	ft <sup>3</sup> ial: Manufacturer, product name and mesl
G. Filter pack, top ft. MSL	or n.	o. The pack mater	30 American Materials
H. Screen joint, top ft. MSL	or 10.0 ft.	b. Volume added	
		9. Well casing:	Flush threaded PVC schedule 40 ⊠ 2
. Well bottom ft. MSL	or20.0 ft	1	Flush threaded PVC schedule 80 🔲 2
DU	22.0 .		PVC Other
. Filter pack, bottom ft. MSL	or ft.	10. Screen material:	Factory cut 1
K. Borehole, bottom ft. MSL	or 22.0 ft \	a. Screen Type:	Continuous slot 🖾 0
			Other 🗆 _
Borehole, diameter in.		b. Manufacturer	
2.27		c. Slot size:	. 0.010
M. O.D. well casing 2.37 in.		d. Slotted length	• ———
N. I.D. well casing 2.06 in.			Other ==
well easing m.			
	orm is true and correct to the hest	of my knowledge.	
I hereby certify that the information on this f	form is true and correct to the best		Tel: (715)359-70

Please complete both Forms 4400-113A and 4400-113B and return 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 condut involved. Personnally 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.

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State of Wisconsin	
Department of Natural Resources	

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### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

<i></i>	•		<u>Ro</u>	ute To:			stewater   Redevelopment		Waste Other		gement								
								_								Pa	ge l	of	2
Facil	ity/Proje	ct Nam	е	سستنديج والخميس					License	Permi	√Monit	oring N	ımber	100 Tabania Transport	Boring	g Numl	er		
	rap Site								1		<del></del>	****C*********************************						W-3	
Borir	ng Drille	d By (F	irm nan	ne and r	name of crew	/ chief	1)		Date Dr	illing S	started		D	ate Drill	ing Co	mpleted	i	Dni	lling Method
	art Lor										/1999			***************************************	8/2/1	1999	often William - v		1/4 HSA
WIL	Inique W	ell No.		DNR	Well ID No.		Common Well MW-3		Final St		ater Lev MSL	/el	Surfa	ce Eleva	tion et MS	т.	В		Diameter Inches
Borir	ng Locati	on or L	ocal Gr	id Origi	in (Ch	eck if	f estimated:			reet	MSL		······································				If appl		
	e Plane			Ū	•		S/C/N		Lat.		<del>-</del>	<u>'</u> —					_	•	□ E
	1/4	of	1	/4 of Se			T N, R		Long		<u> </u>	<u> </u>	"	1/31		t 🗆 S	· )		Feet 🗌 W
	ity ID 101632	,			County Taylor				County Co	oae	1	lown/C	ity/ or	Village					
Co-1-1	mple	- 	1		Taylor	-			101	T	IVICC	lord		T	Soi	Pron	erties		1
					Se	oil/Ro	ck Description										1		1
4	d (ir &	unts	Fee		An	d Geo	logic Origin Fo	or						sive		1			ıts
Tvo.	yere	Blow Counts	Depth In Feet			Each	Major Unit			CS	ohic	l mar	PID/FID	ngth	sture	يد. <u>ق</u>	ticity	0	)/
Number and Type	Length Att. & Recovered (in)	Blov	Dep							n s	Graphic Log	Well Diagram	PID	Compressive Strength	Moisture Content	Liquic	Plasticity Index	P 200	RQD/ Comments
			_	GR.	ASS/TOPS	SOIL		-			175 7								
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			E'	Eart	h Drill														
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I SS	24 12	2 4	-5 -	Brn.	CLAY										W				
33	VI '2 I	4	-																
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1	1		- ,																
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2 SS \	24 20	!	-10	Gray	Silty CL.	ΑY									W				
3.5	20	1	- ,,																
	\	1	-																
L	1	ŀ	-12																-
[ here	by certif	v that th		mation	on this form	is tru	e and correct to	the be	est of my ki	nowled	lge	<u>.                                    </u>		I		L		ļ	<u></u>
Signa		مار مار			1/	.5 44	Firm		art Long		-0-							Tal. 4	715)359-70
<b>3</b> ····		1	~/	L	~ C			200	Alderson S		notield,	WI 544	76						715)355-57

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions 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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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Form 4400-122A

Rev. 5-97

Borin	g Numb	er	MW	V-3S Use only as an attachment to Form 440	0-122.		_				ge 2	of	2
Number and Type	Length Att. & dd Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	ssive	Liquid Limit	ity	P 200	RQD/ Comments
3 SS	24 17	4 5 4 4 5 6 6 6 6	-13 -14 -15 -16 -17 -18 -20 -21 -22	EOB @ 22.0' Well Set @ 20.0'					W				

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Fig.

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### MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 6-97

Route To: Watershed				Waste Man	agement [						
Remediation	on/Redev			Other 🗌							
Facility/Project Name		Cou	inty			Wel	l Name				
Scrap Site			inty Code	Taylor Wis. Uniqu	- 11/-11 N/		. <del></del>		W-3S		
Facility License, Permit or Monitoring Number		Cou	-	wis. Omqu	e well Nu	moer		DNR Wel	i Number		
			61	<del></del>							<del></del>
1. Can this well be purged dry?	⊠ Y	Yes □	No	11. Depth	to Water	Befo	re Dev	elopment	After D	)evelop	oment
2 Well development mathed:				(from				4.00 0		17	70 0
2. Well development method:		4 1		well ca		a.		4.89 ft.		1 /	.70 ft.
surged with bailer and bailed	— ⊠	61			•						
surged with bailer and pumped		4 2		Date		b.	08/04	5/1999	O.	8/05/19	000
surged with block and bailed		62		Bate		U.	00/02	,, (),,,	0.	3/03/12	,,,
surged with block and pumped		70			•						
surged with block, bailed, and pumped				Time		_	11.	30 am		01.00	<b>n</b> .m
compressed air		2 0		Time		C.	11.	JU alli		01:00	piii
bailed only		10		12 6 4			•	10		0.0	
pumped only		51		12. Sedimo			.0	10 inches		0.0	inches
pumped slowly		50					_				
other				13. Water	clarity	Turb	r □ oid ⊠		Clear E Turbid [	25	
3. Time spent developing well		90	min.			•	cribe) uddy		(Describe) Clear	ı	
4. Depth of well (from top of well casing)		21.5	ft.								
5. Inside diameter of well		2.06	in.								
6 Values of water in filter most and wall											
Volume of water in filter pack and well casing			gal.								<del></del> ·
casing			gai.	T:01 := :6.4=:	n: a:				: a c		
				Fill in it an	iiing iiuias	were u	sed and	well is at sol	id waste fac	mity:	
7. Volume of water removed from well	20	gals.	gal.	l				_			_
				14. Total s	uspended			mg/l			mg/l
8. Volume of water added (if any)			gal.	solids							
9. Source of water added				15. COD				mg/l			mg/l
				16. Well de	eloped by	Persor	's Name	and Firm			
10. Analysis performed on water added?	□ Y	es □	No		L. Erdn						
(If yes, attach results)					Boart L	ongve	ar				
17. Additional comments on development:											
Pumped dry 8 times.											
i amped dry o times.											
6 77 4 11 9 79				· · · · · · · · · · · · · · · · · · ·							
Facility Address or Owner/Responsible Party Addr	ess				tify that th	e above	informa	tion is true a	ınd correct t	o the be	st of my
Name:				knowledge.				_			
Ivanic.					ia	•		IA			
Firm:				Signature:	K				Stee-		
t HIII.				Signature.				· ·			<del></del>
Street:				Print Name	Ro	1th	ala	eker		<del>,</del>	<del></del>
City/State/Zip:		•		Firm:	Boart	Longy	ear				
				1							

NOTE: See instructions for more information including a list of county codes and well type codes.

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#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

			<u>Ro</u>	ute To:		d/Wastewater ion/Redevelor	_	Waste Other		ement								
					Remediat	ion Kedeverof	oment 🗀	Outer	ч									
Facility	/Proied	t Name	e			the Control of the Co		License	/Permit	/Monito	oring Ni	ımber		Boring	Pa Numb		of	5
Scra	p Site	;														M	W-3I	
Boring	Drille	l By (F	irm nar	ne and r	name of crew	chief)		Date Di	rilling S	tarted		Da	ate Drill	ing Co	npleted		Dril	ling Method
				Erdma	n				8/2	/1999				8/2/1	999		4	1/4 HSA
WI Un	ique W	ell No.		DNR	Well ID No.	<b>I</b>	Well Name	Final St			el	Surfa	ce Eleva		т	Bo		Diameter
Boring	Locati	on or L	ocal G	rid Origi	in (Ch	eck if estimate	[W-3D ed: □ )		reet	MSL		Delican dell'Olym		et MS Grid Lo		(If appl		Inches
State F				8			/C/N	Lat.		<u> </u>	<del>'</del> —				□ 1			□E
	1/4	of	1	/4 of Se	and the same of th	T	N, R	Lon		<u> </u>		"	17:11		t 🗆 S	)		Feet 🗌 W
Facility 341(	7 ID 01632	,			County Taylor			County C	ode	Med		ity/ or	Village					
Sam		, , , , , , , , , , , , , , , , , , , ,	İ		Taylor			101	T	Ivica	loid		***************************************	Soil	Prop	erties		
					So	il/Rock Descr	ription											
ا به	λπ. δ ed (i	ounts	Fee		And	l Geologic Ori	igin For				_	_	ssive			>		l str
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet			Each Major U	Jnit		CS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	nid it	Plasticity Index	8	RQD/ Comments
S Nur	Rec	Blo	Dep						ΩS	5 3	We	PIE	Str	\$ 3	Liquid Limit	Plastic Index	P 200	83
			-	TOP	SOIL/Mai	rsh GRASS	3			2 24								
			_,						<u> </u>	14.14								
			-	Eart	h Drill						<u> </u>							
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2 SS	24 23	5	- '	Gray	Silty CLA	ΑY								w.				
IYI		5	- -11															
$ \Lambda $			-															
4			- 12															
I hereby	certify	that th	ne infor	mation	on this form	is true and co	rect to the be	est of my k	nowled	ge.								
Signatu	re	K	- 7	-	11		Firm Bo	art Long	year					-				715)359-709
		/		<u> </u>			101	Alderson	St. Sch	ofield,	WI 544	76					Fax: (	715)355-571

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions 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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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Company of the last	ng Numl	er	MW	V-3D Use only as an attachment to Form 4400-	122.	and the second second second second	<del></del>	•		Pag		oť	5
Number and Type	Length Att. & ald Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log Well Diagram	PID/FID	Compressive Strength		Liquid Limit	Plasticity single ludex	P 200	RQD/ Comments
3 SS	24 23	2 3 5 6 7	- 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20						w				
5 SS	24 23	10 12 13 15	-22 -23 -24 -25 -26 -27	Blue Green CLAY					w				
6 SS	24 21	15 17 18 16	-30 -31 -32	Gray Silty CLAY					w				

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Form 4400-122A

Rev. 5-97

	g Numt	oer	MW	Use only as an attachment to Form 4400	-122.	<del> </del>		Time		~		ge 3	of	5
Number and Type gr	Length Att. & decovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic	Well	PID/FID	Compressive Strength		Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7 SS	24 23	12 14 16 18	-33 -34 -35 -36 -37 -38							W				
8 SS	24 10	115 16 17 15	41 -42 -43 -44							w				
9 SS	24 20	17 20 21 22	-45 -46 -47 -48	Weathered ROCK						w				
SS W	24 21	20 22 23 23	50 -51 -52	Weathered ROCK, Gray CLAY						w				

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	g Numi	er	MW	Use only as an attachment to Form 4400-	122.			Ī	Tanica and the same of the sam	Sail		ige 4 erties	of	5
	Length Att. & dd Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	S	<u>i.</u>	E	۵	Compressive Strength					ients
Number and Type	Length Recove	Blow (	Depth	Each Major Onk	USCS	Graphic Log	Well Diagram	PID/FID	Compress Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			- - -53											
			54 							- Comment				77.4
SS	24 4	50/.4	56							W				
			_ _57	-										
		-	- - 58 - -											
	24		-59 - -60	Gray Med. SAND						w				
SS S	24 21	4 7 23 12	-61	Weathered ROCK, Gray CLAY										
			-62 -63		:									
			64							Make the second				
SS V	24 9	10 50/.4	65  66							w	The state of the s			
			67							:				
			68 69										a de la constanta de la consta	
14 SS [/	18 8	10 12 50/.3	- - 70							w				
<u> </u>		50/.3	71	EOB @ 71.3'							,			

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## SOIL BORING LOG INFORMATION SUPPLEMENT Form 4400-122A Rev. 5-97

-	g Numb nple		MW	Use only as an attachment to Form 440	1			<del>, A. A </del>		Soil	Prop	ge 5 erties	of	
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	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/
				Well Set @ 70.0'										
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<b>M</b>	State of Wisconsin Department of Natural Resources Route To:	Watershed/Wastewater Remediation/Redevelopment	Waste Management C	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 6-97
	Facility/Project Name	Local Grid Location of Well	□ €	Well Name
	Scrap Site Facility License, Permit or Monitoring No.		Charles forting and	MW-3D Wis. Unique Well No DNR Well Number
· · · · · ·	Facility License, Permit or Monitoring No.	Grid Origin Location	Long or	wis. Unique well NolDink well number
	Facility ID	=		Date Well Installed
Finding.	•	St. Plane ft. N. Section Location of Waste/Sou	ft. E. S/C/N	08/03/1999
	34101632 Type of Well	<b></b>	ПЕ	Well Installed By: (Person's Name and Fig
	Well Code 12/pz	1/4 of 1/4 of Sec.	, T N, R 🗆 W	·
£1:291	Distance Well Is From Waste/Source	Location of Well Relative to Wullet u Upgradient s	/aste/Source Sidegradient	L. Erdman
	Davindani	1 -	_	Boart Longyear
0.4	A. Protective pipe, top elevation	ft. MSL	1. Cap and lock?	⊠ Yes □ No
pag.	7. Protective pipe, top elevation	150	2. Protective cover	pipe:
	B. Well casing, top elevation	1.50 ft. MSL	a. Inside diamete	
k ry	C. Land surface elevation	ft. MSL <	b. Length:	7.0
		50 0 335.34	c. Material:	Steel ⊠ 04
o da	D. Surface seal, bottom ft. MS	L UI II.		Other =
	12. USC classification of soil near screen:	with the same of t	d. Additional pro	
		W O SP O	If yes, describ	Bumper Post
766	SM □ SC □ ML □ MH□ C Bedrock □	L CH CH	3. Surface seal:	Bentonite   30
x 50	13. Sieve analysis attached?	□ No  ry □ 5 0  er ⋈ 4 1  er □ ☑  sir □ 0 1  ne □ 9 9  ⋈ No	3. Surface seal:  4. Material between	Concrete ⊠ 0 1
* 5-	•		<b>X</b>	
部署	,	ry □ 5 0	₩ 4. Material between	well casing and protective pipe:
	Hollow Stem Aug	er 🖂 4 1		Bentonite □ 3 0 Grout Other ☑ 💆
f +30	Oth	er 🗆 🚟	₩	
	16 Dellie - Guid-sed Water Flog	:- C01	5. Annular space se	
产得	15. Drilling fluid used: Water □ 0 2 A  Drilling Mud □ 0 3 No	20 CI 0 0		nud weight. Bentonite-sand slurry   3 5
( ( <u>)</u>	Diffillig Mud (103 Not	Ne □ 9 9		nud weight Bentonite slurry   3 1
	16. Drilling additives used? ☐ Yes	⊠ No		nite Bentonite-cement grout \( \sigma \) 5 0 volume added for any of the above
r - qr			f. How installed	
isa.	Describe		i. Now instance	Tremie pumped ⊠ 02
-365	17. Source of water (attach analysis):	i		Gravity 🗆 08
િક			6. Bentonite seal:	a. Bentonite granules   3 3
25		<del></del> -	DOI	3/8 in. 1/2 in. Bentonite pellets 3 2
reg.	E. Bentonite seal, top ft. MSL	or 5.0 ft	S	Other 🗆 🧏
	E. Bentonite seat, top it. Wise	′ 5/	8 7 Fine sand materia	al: Manufacturer, product name and mesh
1	F. Fine sand, top ft. MSL	or55.0 ft.	a. b. Volume added	#7 Badger
FS.			b. Volume added	ft <sup>3</sup>
	G. Filter pack, top ft. MSL	or <u>57.0</u> ft.	8. Filter pack mater	ial: Manufacturer, product name and mesh
* **		$\setminus \Box$	a#	30 American Materials
k-14#	H. Screen joint, top ft. MSL	or <u>60.0</u> ft.	b. Volume added	ft³
		<del></del>	9 Well casing:	Flush threaded PVC schedule 40 🖾 2 3
n Ng	I. Well bottom ft. MSL	or <u>70.0</u> ft.	<b>計</b>	Flush threaded PVC schedule 80 🗆 2 4
			10. Screen material:	Other 🗆
	J. Filter pack, bottom ft. MSL	or <u>71.3</u> ft.	10. Screen material:	PVC
in a section			a. Screen Type:	Factory cut 🗆 1 1
## -)	K. Borehole, bottom ft. MSL	or <u>71.3</u> ft.		Continuous slot ⊠ 0 1
ws/			<b>/</b> ///	Other 🗆
	L. Borehole, diameter 8.0 in.		b. Manufacturer	
٠.,			c. Slot size:	<u>0.010</u> i
: Sear	M. O.D. well casing $\frac{2.37}{}$ in.		d. Slotted length	
			`11. Backfill material	(below filter pack): None ⊠ 1.4
· 5-	N. I.D. well casing $\frac{2.06}{}$ in.			Other 🗆
E res	I hereby certify that the information on this	Tra-		
	Signature 2 7	Firm Boart Lo		Tel: (715)359-709
	Physics complete both Forms 1400 1134 and 4400 11		on St. Schofield, WI 54476	Fax: (715)355-571
	Please complete both Forms 4400-113A and 4400-11			

Please complete both Forms 4400-113A and 4400-113B and return 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 condut involved. Personnally 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.

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City/State/Zip:

### MONITORING WELL DEVELOPMENT

Department of Natural Resources				rom 4400		Rev. 0-97
Route To: Watershed/W			Waste Management			
Remediation/	Redevel		Other 🗆			
Facility/Project Name		County		Well Nan		T. AD
Scrap Site		County Code	Taylor			W-3D
Facility License, Permit or Monitoring Number		1 -	Wis. Unique Well Nu	mber	DNR Well	Number
		61				·
1. Can this well be purged dry?	☐ Yes	s 🛭 No	11. Depth to Water	Before D	evelopment	After Development
2. Well development method:			(from top of	<b>a</b>	0.00 ft.	15.67 թ.
surged with bailer and bailed	_ 4	1	well casing)	a.	0.00 11.	13.07 R.
surged with bailer and pumped		1				
surged with block and bailed	_	2	Date	b. 08/	05/1999	08/05/1999
surged with block and pumped	_	2				
surged with block, bailed, and pumped		0				
compressed air	_	0	Time	c. C	2:30 pm	03:30 pm
bailed only		0		•		03.20 p
	□ 5		12. Sediment in well		.010_ inches	0.0 inches
pumped slowly		0	bottom		.oro_ menes	0.0 menes
other			13. Water clarity	Clear □ Turbid ⊠		Clear ⊠ 20 Turbid □ 25
2. Time sport developing well		60 min.		(Describe)		(Describe)
3. Time spent developing well		oo mii.		Muddy		Cloudy Clear
4. Depth of well (from top of well casing)	7	1.5 ft.		Winday		Cloudy Clear
5. Inside diameter of well	2	.06 in.				
6. Volume of water in filter pack and well						,
casing		gal.				
casing		gui.	Fin in it deline outle			Carrier Control
			Fill in if drilling fluids	were used ar	id well is at soll	d waste facility:
7. Volume of water removed from well	100 g	als. gal.				
			14. Total suspended		mg/l	mg/l
8. Volume of water added (if any)		gal.	solids			
9. Source of water added			15. COD		mg/l	mg/l
			16 17 11 1 11	D 1 11	1	
10 Application of Company 11, 10	_ ·/		16. Well developed by	rerson's Na	me and rim	
• •	⊔ Yes	□ No	L. Erdn	ian		
(If yes, attach results)			D			
17. Additional comments on development:			Boart L	ongyear		

Boart Longyear

Firm:

NOTE: See instructions for more information including a list of county codes and well type codes.

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#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Fax: (715)355-57

			<u>Ro</u>	ute To:		Wastewater □		ste Manag er 🗌	gement								
														Pa	ge	l of	1
	y/Proje		e				Licen	se/Permi	t/Monite	oring N	umbe	τ	Boring	Numb		(XX / A	C -
	ap Site		irm nar	ne and na	ame of crew ch	ief)	Date	Drilling S	Started		ΤĒ	ate Drill	ing Co	mpleted		IW-4	Sa illing Method
	<b>9</b>	, (-											Ç				-
	art Lor			Erdman	n Well ID No.	Common Well Nam	a Final	8/2 Static W	/1999		CE	ice Eleva	8/2/1	999	T i		1/4 HSA e Diameter
WIUI	nique w	en No.		DINK	Well ID No.	MW-4Sa	e Fillat		MSL	/EI	Suria		aion et MS	L	ľ		0 Inches
•	-	on or L	ocal G	rid Origin	n (Check	(if estimated: )	1.	<del></del>	0	ı		Local (		_	(If app		
State		c			A*	S/C/N	La		<del></del>		"	<b>-</b> i	r	1 🗔 t	N.		D E
Facilit	1/4 ty ID	or	<u></u>	/4 of Sec	County	T N, R	County	ong Code	Civil	Fown/C	ity/ o	- r Village			) 		Feet W
341	01632	2		;	Taylor	SIS-01-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1	61		Med	lford	-			<u> </u>			
San	nple											<b> </b>	Soil	Prop	ertie	s	_
	જ (દા	ıts	eet			Rock Description						وا					
r Sc	Att	Cour	In F			eologic Origin For ch Major Unit		S	.2	5	le	ressi th	힐물		ij		lents
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		La	on Major Omi		sc	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity	P 200	RQD/ Comments
ZS	7 %	В		Farth	n Drill		appanglisma di farona di camandi di	⊃	19 7	N D	<u> </u>	၂၁ က	<u>≥ 0</u>	111	<u>a.</u> .	<u> </u>	& O
			- 10	EOB Backi	@ 10.0' (At	uger Refusal) Itonite Chips Irilled MW-4S											
	•	that th	ne infor	mation o	n this form is t	rue and correct to the l	est of my	knowled	lge.					-			
Signatu	ire	K		Tu	M		oart Lon		ofield.	WI 544	76						(715)359-70°

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions 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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

101 Alderson St. Schofield, WI 54476

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 4-97

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.

FI		<del></del>				
(1) GENERAL INFORMATION			TY NAME	Scrap Site		
" CID DI IIIIOIC/ DOICHOIC	County	Original We	ell Owner (If Kr	iown)		
Location MW-4Sa	Taylor	·				
	ΞE	Present Wel	ll Owner			
1/4 of 1/4 of Sec	; T N; R 🗆 W	Scrap S	ite			
(If Applicable)		Street or Ro				
• •	Cald Marsh					
Gov't Lot	Grid Number	City Share	7:- C- I-			
Grid Location		City, State,	-			
ft. \[ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ft.	Medfor			_	
Civil Town Name		Facility We	ll No. and/or Na	me (If Applicab	ole)	WI Unique Well No.
		MW-4S	Sa			
Street Address of Well			Abandonment			<u> </u>
5.550 ( 1.25.55		1				
C. Vill		Auger I Date of Aba				
City, Village		]				
Medford		08/02/9	9			
WELL/DRILLHOLE/BOREHOLE IN	FORMATION					
(3) Original Well/Drillhole/Borehole	Construction Completed On	(4) Depth to	Water (Feet)			
_	Construction Completed On	1.	Piping Remov	2 D	res 🗌 N	o 🛛 Not Applicabl
(Date)						
	1	1	Removed?		′es ∐ No	
Monitoring Well	Construction Report Available?	1	Removed?		′es ∐ No	• •
☐ Water Well	Yes No	Casing 1	Left in Place?	⊠ Y	es 🗌 No	0
□ Drillhole		If No, E				
Borehole	1	1	р.ш.			
□ Borenole						
		l .	sing Cut Off Be		∐ Ye	
Construction Type:	_	Did Sea	ling Material Ri	se to Surface?		es 🔲 No
☐ Drilled ☐ Dri	ven (Sandpoint) Dug	Did Ma	terial Settle Afte	r 24 Hours?	Y₁	es 🛛 No
Other (Specify)	,	If Yes V	Was Hole Retop	ned?	$\square_{\mathbf{Y}_{i}}$	es 🛛 No
Calci (Specify)						C5 E3 110
		(5) Require	d Method of Pla	cing Sealing Ma	aterial	
Formation Type:		☐ ☐ Con	ductor Pipe - G	ravity 🔲	Conductor	Pipe - Pumped
Unconsolidated Formation	☐ Bedrock		np Bailer	. —	Other (Exp	
Total Well Depth (ft)	_ Casing Diameter (in.)		Materials		For mon	nitoring wells and
(From groundsurface)	Casing Depth (ft.)	☐ Nea	t Cement Grout		monitor	ing well boreholes only
		☐ San	d-Cement (Con-	crete) Grout		•
Lower Drillhole Diameter (in.)	8.0	1	crete	,	☐ Bent	onite Pellets
Bower Braniole Blancter (iii.)		1 =			1	
			y-Sand Slurry		. —	ular Bentonite
Was Well Annular Space Grouted			tonite-Sand Slu	пу	☐ Bent	onite-Cement Grout
If Yes, To What Depth?	Feet	☐ ☐ Chi	pped Bentonite		1	
(7)		<del>                                     </del>	<del></del>			
(7) Sealing	Material Used	From (Ft.)	To (Ft.)		Mix F	Ratio or Mud Weight
		110 (14.)	. ()			
Bentonite Chips		Surface	10.0	4 bags		
					<del> </del>	
	·					
			1		1	
		]	. ]			
		<u> </u>			<u></u>	
(8) Comments						
					***************************************	
(9) Name of Person or Firm Doing Se	aling Work	(10)	FOR	DNR OR COL	INTY USE	ONLY
Boart Longyear		1	ecelyed/Inspec			VCounty areas
Signature of Person Doing Work	Date Signed	1 5.	· 1.11.11.11.11.11.11.11.11.11.11.11.11.1		36 40 1 14 46 90	
orginature of reison family work	1 .=			MERCHANICAL CONTRACTOR	W. 3-402	
	8/13/99	Review	ver/Inspector			Complying Mails 27
Street or Route	Telephone Number	1	**************************************	1 1 1 1 1		Rosemply in West
101 Alderson St.	(715)359-7090	Follow	-up Necessary	THE STATE OF THE		
City, State, Zip Code	(713)337-7070					
· ·			。	<b>第一个人的人</b>	THE STATE	THE RESIDENCE OF THE PARTY OF T
Schofield, WI 54476		1				

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#### SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 5-97

Fax: (715)355-57

										Pa	ge 1	of	2
facility/Project Name			License/	Permit	/Monito	ring Nu	mber		Boring	Numb	ег		\$4.50° 000° 000° 000° 000° 000° 000° 00° 00
Scrap Site			Date Dri	Hima C		000-m200-management	15.	4- D-ill	Ca			W-45	
Boring Drilled By (Firm nam	ne and name of crew chie	:i) ·	Date Di	uing 3	tarted		Da	ite Drilli	ing Cor	mpieted	l	ווחטן	ling Metho
Boart Longyear - L. E					/1999				8/2/1	999	Oliver Office and		1/4 HSA
VI Unique Well No.	DNR Well ID No.	Common Well Name MW-4S	Final Sta		ater Levi MSL	el	Surfac	e Eleva	tion et MS	T	В		Diameter Inches
Boring Location or Local Gr	id Origin (Check)	f estimated: ( )	<u> </u>	rect	***************************************			Local (			(If appl		menes
State Plane		S/C/N	Lat.		<u> </u>	<u> </u>				□ 1	1		□ E
1/4 of 1/ Facility ID	/4 of Section ,  County	T N, R	Long County Co		°	oum/Ci		Village	Fee	t 🗆 S	)		Feet 🗆 \
34101632	Taylor		61	Jue	Med		ity/ Ol	v mage					
Sample		<u></u>							Soil	Prop	erties	- continue de la continue de la continue de la continue de la continue de la continue de la continue de la cont	
<del></del>	Soil/Re	ock Description						a)					
Att. ounts		ologic Origin For				_	$\sim$	SSive	. e		25		nts
Number and Type Length Att. & Recovered (in) Blow Counts Depth In Feet	Eacl	h Major Unit	-	SCS	aphic g	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
De Bic Re Le	Earth Drill	م <del>ا جيسادان سادان آ</del> مين <i>ان جي</i> روروسادان سادان المشعوب		Ö	5 3	ΣĶ	II I	<u>S</u> ₹	<u>೫ ८</u>	<u> </u>	문로	P 2	88
24 2 2 3 4 5 6 6 5 6 6 7 7 6 7 6 7 6 7 6 7 6 7 6 7	Brn. Silty CLAY  Gray Silty SAND					▼			w				

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions 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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

101 Alderson St. Schofield, WI 54476

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Form 4400-122A

Rev. 5-97

oring Sam	Numb	er	MW	V-4S Use only as an attachment to Form 440	0-122.	T T	ſ			Soil	Pag Prope		of	
	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	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/
335	<b>24</b> 0	10 15 16 18	13 - 14 - 15 - 16 - 17 - 18 - 19	No Recovery						W				
4 \$ \$	24 21	6 5 4 5	20 -21 -22	Gray Silty CLAY  EOB @ 22.0' Well Set @ 20.0'						w				

State of Wisconsin Department of Natural Resources Route To:	Watershed/Wastewater	Waste Management ☐ Other ☐	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 6-97
Facility/Project Name	Local Grid Location of Well		Well Name
Scrap Site	t. S.	<u>n. 🗋 w</u>	MW-4S Wis. Unique Well No DNR Well Number
Facility License, Permit or Monitoring No.	Grid Origin Location	(Check if estimated:)	Wis. Unique Well No DNR Well Number
	<b>→</b>	ong or	
facility ID	St. Plane ft. N section Location of Waste/Source	ft. E. S/C/N	Date Well Installed
34101632	Section Location of Waste/Source	ce	08/02/1999
ype of Well	1/4 of 1/4 of Sec	T NR □W	08/02/1999 Well Installed By: (Person's Name and Fir  L. Erdman
Well Code 11/mw	Location of Well Relative to Wa	ste/Source	L. Erdman
	d Downgradient n	Sidegradient Not Known	Boart Longyear
. Protective pipe, top elevation	ft. MSL	1. Cap and lock?	Yes □ No
	1.50 ft. MSL	2. Protective cover	• •
1		a. Inside diamete	r: 4.0 ir 7.0 t
Land surface elevation	n. MSL	b. Length:	
D. Surface seal, bottom ft. MSI	or 3.0 ft. 37.37	c. Material:	Steel ⊠ 0.4
		VERNING A Additional	Other
12. USC classification of soil near screen:	W.C. CD.C.	d. Additional pro	
	W SP CH CH CH CH		Bentonite  30
Bedrock		3. Surface seal:	Concrete 🖾 0 1
13. Sieve analysis attached? ☐ Yes	□No		Other 🗆 💆
•	=, □50	4 Material hetager	well casing and protective pipe:
	ry □ 5 0	4. Iviateriai between	Bentonite  30
Hollow Stem Aug Oth	c: M41		#30 Sand Other 🗵 🕏
Oth	or □ 3543	<b>***</b>	
15. Drilling fluid used: Water □ 0 2 A	□ No  ry □ 5 0  er ⋈ 4 1  er □ ⋈ □  .ir □ 0 1  ne □ 9 9  ⋈ No  .or <u>3.0</u> ft.	5. Annular space se	
Drilling Mud 03 Nor	ne □99		nud weight . Bentonite-sand slurry 3 5
Diming Mad G 0 3 1401			nud weight Bentonite slurry  3 1 nite Bentonite-cement grout  3 5 0
16. Drilling additives used? ☐ Yes	⊠ No 🐰		volume added for any of the above
		f. How installed	•
Describe	🐰	i. How instance	Tremie pumped 🗵 02
17. Source of water (attach analysis):			Gravity 0 0 8
		6. Bentonite seal:	a. Bentonite granules 🖾 33
		DOI .	a. Bentomic granules $\triangle 33$
E. Bentonite seal, top ft. MSL	or 3.0 e	0. U 1/4 III. U.	Other 🗆 💆
Demonite sear, top n. MSL	, or II. \	Ø / 7 Fine and anatonic	al: Manufacturer, product name and mesh s
F. Fine sand, top ft. MSL	or <u>5.0</u> ft.	a b. Volume added	#7 Badger
Fine sand, top ft. MSL	11.	b. Volume added	
Filter pack, top ft. MSL	or	8 Filter nack mater	ial: Manufacturer, product name and mesh
i. i mei pack, top it. MSL		O. Tiner puck mater	30 American Materials
I. Screen joint, top ft. MSL	or 10.0 ft.	a# b. Volume added	
i. dereen joint, top it. MSE		9. Well casing:	Flush threaded PVC schedule 40 🗵 2 3
. Well bottom ft. MSL	or <u>20.0</u> ft.	7. Well casing.	Flush threaded PVC schedule 80  24
Tt. IVISL			Other $\Box$
Filter pack, bottom ft. MSL	or <u>20.0</u> ft.	10. Screen material:	
Times pack, bottom		a. Screen Type:	Factory cut   1
C. Borehole, bottom ft. MSL	or 22.0 ft >	a. Screen type.	Continuous slot ⊠ 0 1
t. Dorenoic, bottom	··· — ··· \		Other 🗆
Borehole, diameter8.0 in.		b. Manufacturer	
Describe, diameter III.		c. Slot size:	0.010 is
M. O.D. well easing $\frac{2.37}{}$ in.		d. Slotted length	
ii. O.D. well cashing III.		11. Backfill material	
N. I.D. well easing 2.06 in.		***************************************	Other 🗆
wen easing III.			
I hereby certify that the information on this	form is true and correct to the best	t of my knowledge.	
Signature / A	Firm Boart Long	······································	Tel: (715)359-709
and when	Dourt Cong	gyear St. Schofield, WI 54476	Fax: (715)355-571
	1017114613011		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Please complete both Forms 4400-113A and 4400-113B and return 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 condut involved. Personnally 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.

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### MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 6-97

Route To: Watershed	/Wastewate	er 🔲	Wa	aste Management	]				
Remediation	on/Redevel	opment 🗆	Oth	her 🗆					
Facility/Project Name		County			Well 1	Vame			
Scrap Site				ylor				V-4S	
Facility License, Permit or Monitoring Number		County Code 61	Wı	s. Unique Well Nur	mber		DNR Well	Number	
1. Can this well be purged dry?	⊠ Ye:	s 🗆 No	11.	. Depth to Water	Before	Dev	velopment	After D	evelopment
2. Well development method:				(from top of	a.		3.63 ft.		18.10 a.
surged with bailer and bailed	_ 4	1		well casing)					
surged with bailer and pumped	⊠ 6	1		-					
surged with block and bailed	□ 4	2		Date	b.	08/0:	5/1999	08	3/05/1999
surged with block and pumped		2							
surged with block, bailed, and pumped	_	0		•••		0.1	.00		00.00
compressed air		0		Time	C.	UI	:00 pm	•	02:30 pm
bailed only		0	1,2	. Sediment in well		٥	10_ inches		0.0 inches
pumped only		0	112.	bottom		.0	IO_ menes		0.0 inches
pumped slowly other			13.	. Water clarity	Clear Turbid		1 0 1 5	Clear ⊠ Turbid □	-
3. Time spent developing well		90 min.			(Descri	be)		(Describe)	:
4. Depth of well (from top of well casing)	2	21.5 ft.			Mud	ay		Cloudy	Clear
5. Inside diameter of well	2	2.06 in.							
6. Volume of water in filter pack and well									
casing		gal.							
		_	Fill	in if drilling fluids	were use	d and	well is at soli	d waste fac	ility:
7. Volume of water removed from well	30 g	als. gal.		Total suspended			mg/l		mg/l
8. Volume of water added (if any)		gal.		solids			J		J
9. Source of water added		· · · · · · · · · · · · · · · · · · ·	15.	COD			mg/l		mg/l
		<del></del>	16.	Well developed by:	Person's	Name	e and Firm		
10. Analysis performed on water added? (If yes, attach results)	☐ Yes	□ No		L. Erdm					
				Boart Lo	ongyear				
17. Additional comments on development: Pumped dry 5 times.									
Facility Address or Owner/Responsible Party Address	ess			ereby certify that the	e above in	forma	ntion is true as	nd correct to	the best of my
Name:			kno	owledge.	·		. 11		· · · · · · · · · · · · · · · · · · ·
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City/State/Zip:			Firm	n: Boart I	Longyea	ar			

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#### SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 5-97

			<u>Ro</u>	ute To:			astewater [ Redevelopm		Waste Other		gement								
					Ken	icuiation	Kedevelopili	iem 🗀	Oulei	J						n-	1	. c	2
Facilit	y/Proje	ct Nam	ne				ect operations <u>mesop</u> operation man	West Control of the C	License	/Permi	/Monito	oring N	umbe	r	Boring	Pa <sub>s</sub> Numb		of	<u> </u>
Scr	ap Site	2																W-10	
Boring	g Drille	d By (F	irm nar	ne and r	name of	crew chi	ef)		Date Di	rilling S	started		D	ate Drill	ing Co	npleted		Dril	ling Method
				Erdma		-					/1999				8/4/1	999			1/4 HSA
WI Ur	iique W	ell No		DNR	Well ID	No.	Common V	Vell Name V-10S	Final St			el	Surfa	ce Eleva	ition et MS	τ	В		Diameter
Boring	Locati	on or L	_ocal G	rid Origi	in	(Check	if estimated:			reet	MSL					cation (	If appl		Inches
State	Plane						S/C		Lat.	Lat N						□ E			
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34101632 Taylor							61	oue	Med		ity/ Oi	v mage							
Sample								Ī					Soil	Prop	erties				
	ay (îi	S	#			Soil/R	ock Descript	tion						43					
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet			Eac	h Major Uni	t		SCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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		uiat (i	ne muor	ation (	A dus t	orni is ift			rt Long		ьс.	<del></del>				·		Tel: /	715)359-70
J	Signature KTM Firm								irt Longy Alderson S		ofield, \	WI 544	76						715)355-57

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions 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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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ALL DESCRIPTION OF THE PARTY OF	g Numb	er	MW	V-10S Use only as an attachment to Form 4400	-122.	7	1				Pa Prop		of	2
San	nple			Soil/Pack Description	Soil/Rock Description									
	1. & 1 (in)	ınts	Feet	And Geologic Origin For					ive					S
<u>۲</u> و	th At	Cou	l ll l	Each Major Unit	CS	hic	la mar	FID	press	ent ent	.g	Plasticity Index	0	)/ men
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		O S	Graphic	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid	Plastic Index	P 200	RQD/ Comments
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<b>69</b>	State of Wisconsin Department of Natural Resources Route To:	Watershed/Wastewater  Remediation/Redevelopment	Waste Management  Other	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 6-97
	Facility/Project Name	Level Crid Location of Wall	0.5	Well Name
<b>K</b> esa	Scrap Site		ft. 🖂 W.	MW-10S
長星	Facility License, Permit or Monitoring No.	Grid Origin Location	(Check if estimated: )	Wis. Unique Well No DNR Well Number
	Parities ID	Lat Lon		Date Well Installed
F-1200	Facility ID	St. Plane ft. N	ft. E. S/C/N	
	34101632 Type of Well	Section Location of Waste/Source	□Е	08/04/1999 Well Installed By: (Person's Name and Fix
	Well Code 11/mw	1/4 of 1/4 of Sec Location of Well Relative to Waste	, T N, R 🗖 W	L. Erdman
6 % PP	Distance Well Is From Waste/Source		e/Source degradient	L. Erdman
t.Ž	Boundary ft.	,	-	Boart Longyear
	A. Protective pipe, top elevation			⊠ Yes □ No
\$ *** } <sub>4</sub>	A. Protective pipe, top elevation  B. Well casing, top elevation	1.50 ft. MSL	2. Protective cover	· ·
	B. Well casing, top elevation	1.30 It. MSL	a. Hiside diamete	
	C. Land surface elevation	ft. MSL	b. Length:	7.0
\$ : A-	D. Surface seal, bottom ft. MS	L or3.0 ft.	c. Material:	Steel ⊠ 0.4  Other □ □
4	12. USC classification of soil near screen:		प्राचित्रकार्थः d. Additional pro	•
		W D SP D	If yes, describ	
. 4144		re cuel Milli	1 \ \	Bentonite   30
	Bedrock □		3. Surface seal:	Concrete ⊠ 01
1 12	13. Sieve analysis attached? ☐ Yes	□ No		Other 🛘 📆
fra arms	14. Drilling method used: Rota	ry □50   👹 🧱	4. Material between	n well casing and protective pipe:
(19)	Hollow Stem Aug	er ⊠ 4 1		Bentonite 30
李逵	Oth	er □ 🎒 💮 🧱		Grout Other ⊠ 💆
	15 Deitties Suid and Water CO.2	:- 501	5. Annular space so	
<b>F</b> 3	15. Drilling fluid used: Water □ 0 2 A  Drilling Mud □ 0 3 Nor	7e □00	bLbs/gal r	nud weight. Bentonite-sand slurry   3 5
110	Diming Wild 10 5 140		cLos/gair	nud weight Bentonite slurry ☐ 3 ! nite Bentonite-cement grout ☒ 5 0
	16. Drilling additives used? ☐ Yes	⊠ No	e Ft <sup>3</sup>	volume added for any of the above
2000 3			f. How installed	•
ting.	Describe			Tremie pumped ⊠ 02
	17. Source of water (attach analysis):			Gravity 🗆 08
綿		□ No  ry □ 5 0  er ⋈ 4 1  er □ □ □  dir □ 0 1  ne □ 9 9  ⋈ No  or □ 3.0 ft.	6. Bentonite seal:	= 6
to a	-		b. □1/4 in. □	3/8 in. □ 1/2 in. Bentonite pellets □ 3.2
	E. Bentonite seal, top ft. MSL			Other 🗆 🗏
¢≥ J		or5.0 ft.	7. Fine sand materi	al: Manufacturer, product name and mesh s #7 Badger
to:	F. Fine sand, top ft. MSL	or ft. \	a b. Volume added	
	G. Filter pack, top ft. MSL	or5.0 ft.	8. Filter pack mater	rial: Manufacturer, product name and mesh
tate.	G. Filter pack, top It. MSL	10 - No 11 - No 10 - N	-	30 American Materials
N. 196	H. Screen joint, top ft. MSL	or10.0 ft.	b. Volume added	
	in serion joint, top	1	9. Well casing:	Flush threaded PVC schedule 40 ⋈ 23
÷ At	I. Well bottom ft. MSL	or <u>20.0</u> ft. or <u>22.0</u> ft.		Flush threaded PVC schedule 80   2 4
(SE)				Other 🗆
Care	J. Filter pack, bottom ft. MSL	or22.0 ft.	10. Screen material:	
) 潤		22.0	a. Screen Type:	Factory cut 🗆 11
1.9	K. Borehole, bottom ft. MSL	or <u>22.0</u> ft.		Continuous slot ☑ 01
£35.	1.5 1.1 1		- Manufacturar	Other
.14	L. Borehole, diameter 8.0 in.		b. Manufacturer c. Slot size:	0.010
	M. O.D. well casing 2.37 in.		d. Slotted length	
Militaria	J.D. Well casing III.			(below filter pack): None ⊠ 1 4
<b>.</b>	N. I.D. well casing <u>2.06</u> in.			Other 🗆
4.4	I hereby certify that the information on this		f my knowledge.	
	Signature ;	Firm Boart Longy		Tel: (715)359-70°
7 19	Please complete both Forms 4400-113A and 4400-11.		t. Schofield, WI 54476	Fax: (715)355-57
超过時		so and return to the appropriate DIAK Office	. and oureau. Completion of these re	porto la requireu oy eria. 100, 201, 203, 203, 271,

Please complete both Forms 4400-113A and 4400-113B and return 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 condut involved. Personnally 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.

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# MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 6-97

Route To:	Watershed/Wastewate	er 🗆	Waste Manager	nent 🗌						
	Remediation/Redevel	opment 🔲	Other 🗌							
Facility/Project Name		County			Well N	ame				
Scrap Site			Taylor				MW	V-10S		
Facility License, Permit or Monitoring N	Vumber	County Code	Wis. Unique W	ell Numl	ber		DNR Well	Number		
		61								
1. Can this well be purged dry?	☐ Yes	s ⊠ No			Before	Deve	lopment	After D	evelo	ment
. 5			11. Depth to V							
2. Well development method:			(from top o		a.		0.43 ft.		12	.34 ft.
surged with bailer and bailed	□ 4	1	well casing	g)						
surged with bailer and pumped	⊠ 6	1								
surged with block and bailed	□ 4	2	Date	1	ь. О	8/05/	1999	08	/05/19	99
surged with block and pumped	□ 6	2		•						
surged with block, bailed, and p		0					_			
compressed air	□ 2	O <sub>.</sub>	Time	•	C.	05:3	0 pm	(	06:30	pm
bailed only	. 🗆 1	0								
pumped only	□ 5	1	12. Sediment i	n well		.010	o inches		0.0	inches
pumped slowly		0	bottom							
other			13. Water clar	ity	Clear Turbid			Clear ⊠ Turbid □		
3. Time spent developing well		60 min.			(Describ	e)		(Describe)		
3. Time spent developing wen		OU MMI.	· ·		Mude	dv		Cloudy	Clear	
4. Depth of well (from top of well casin	g) 2	21.5 ft.								<del></del> ,
4. Deput of wen (from top of wen cash)	<i>-</i>									
5. Inside diameter of well	2	2.06 in.								
6. Volume of water in filter pack and we	ell ·									
casing		gal.								
			Fill in if drilling	g fluids v	vere used	and w	ell is at soli	id waste faci	lity:	
7. Volume of water removed from well	50 g	als. gal.								
7. Volume of Water removed from Wen	** 5	B	14. Total suspe	ended			mg/l			mg/l
8. Volume of water added (if any)		gal.	solids							
,		J								_
9. Source of water added			15. COD				mg/l			mg/l
			16. Well develo	ped by: 1	Person's l	Name a	nd Firm			
10. Analysis performed on water added?	? 🗆 Yes	□ No	L.	Erdma	n					
(If yes, attach results)										
	<del> </del>		Bo	part Loi	ngyear					
17. Additional comments on developme	nt:									
Facility Address or Owner/Responsible	Party Address		I hereby certify	that the	above inf	ormati	on is true a	nd correct to	the be	st of my
			knowledge.							
Name:					1,		O A			
F:			Signature:	/		1 6				
Firm:			Signature	_						
Street:			Print Name:	Ron	,Th	ala	M Ker	^		
	A TOTAL CONTRACTOR OF THE PARTY				i	7.				
City/State/Zip:			Firm: <u>F</u>	Boart L	ongyea	<u>r</u>				
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#### SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 5-97

Fax: (715)355-57

			<u>Ro</u>	ute To: Watershed/W Remediation/	astewater   Redevelopment	Waste Other		gement										
					_									Pa	_	l of	5	
Facility	-		ie			License/Permit/Monitoring Number Be								Boring Number				
	p Site		irm nar	ne and name of crew chie	<b>∘</b> ∩	Date Dr	illing S	tarted		Īī	Date Dr	illing Completed				/IW-10D  Drilling Method		
Doring	Dime	2 Dy (1	iiiii iiai	ne and name of the cont	,								ing completed				rining wediod	
				Erdman		8/3/1999						8/3/1999				4 1/4 HSA		
WI Uni	ique W	ell No		DNR Well ID No.	Common Well Name	Final St			el	Surf	ace Ele					Borehole Diameter		
Boring	Locati	on or i	ocal Gr	rid Origin (Check	MW-10D		Feet	MSL				eet MSL Grid Location (If app				8.0 Inches		
State P		011 01 1	Journ G.	(Onder	S/C/N	Lat.		<u> </u>	<u> </u>	•	-			/o	•	Jiicao	.e) □ E	
	1/4	of	1	/4 of Section ,	T N, R	Long		<u> </u>					eet				Feet W	
Facility				County		County Co	ode	1		ity/ c	or Villag	e						
	1632	<u>'</u>		Taylor	,	61	Γ	Med	ford	1	<u> </u>		-:1	D				
Sam	•			Soil/D	ock Description							<u></u>	011	Prop	ente	s T		
	t. & (in)	nts	ig i		ologic Origin For						Š	ŀ						
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		a major om		usc	Graphic Log	Well Diagram	PID/FID	Compressive	Moisture	Content	Liquid Limit	Plasticity	D 200	RQD/ Comments	
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l SS V	24 4	21 10 13 12	-1 -2 -3 -4 -5 -6 -7 -8 -10	Brn. SAND & GR	AVEL							W						
l hereby	certify	that t	⊢12 he infor	mation on this form is tru	ue and correct to the be	st of my kr	nowled	ge.	L						L			
Signatur				M	Firm Boa	urt Longy	/ear										: (715)359-70	

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions 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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

101 Alderson St. Schofield, WI 54476

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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	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	ROD/
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s V	24 13	3 4 6 6	-19 -20 -21	Gray Sandy CLAY	``					w				
55 S	24 11	4 5 5 6	-23 -24 -25 -26 -27 -28							w				
s V	24 6	4 6 6 7	-30 -31 -32					The state of the s		w				

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	g Number MW-10D Use only as an attachment to Form 4400-122.  Page 3 of 5  nple Soil Properties														5
Sar	_	1		Soil/Rock Description							5011				
	n. & d (in	unts	Depth In Feet	And Geologic Origin For	, 1,					sive					sts
Type Type	gth A	Blow Counts	di Ti	Each Major Unit		uscs	phic	l gram	PID/FID	Compressive Strength	Moisture Content	ig ig	Plasticity Index	2	D/ nmer
Number and Type	Length Att. & Recovered (in)	Blov	Dep			s n	Graphic Log	Wel Dia	ara	St S	S C	Liquid Limit	Plastic Index	P 200	RQD/ Comments
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10 SS	24 18	6 8	- 50 -	Brn. Silty CLAY w/Gravel							W				
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Borin	g Numl	ber	MW	V-10D Use only as an attachment to Form 4400-		Page 4 of 5									
	nple								Soil Properties						
	Length Att. & Recovered (in)	nts	eet	Soil/Rock Description  And Geologic Origin For					i ve					80	
ype	h Att	Com	In F	Each Major Unit	S	hic	8		oress gth	in the	<b>.</b>	city		/ nent	
Number and Type	engt	Blow Counts	Depth In Feet		nscs	Graphic Log	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
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# SOIL BORING LOG INFORMATION SUPPLEMENT Form 4400-122A Rev. 5-97

Boring San	g Numt	er	MW	Use only as an attachment to Form 4400	-122.		Page 5 of 5 Soil Properties							
Number and Type	Length Att. & G	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log Well Diagram	PID/FID Compressive Strength			Plasticity Index	P 200	RQD/ Comments		
				EOB @ 72.0' Well Set @ 70.0'										
:					-									
				• •										
	-													

-m	State of Wisconsin Department of Natural Resources Route To:		Vastewater ☐  I/Redevelopment ☐	Waste Man	agement 🗀	MONITORING WEI Form 4400-113A	LL CONSTI Rev. 6-9	
	Facility/Project Name		ocation of Well	Outer 🗀		Well Name	1(0), ()0)	
cate.	Scrap Site		tt. 🗆 N.	ft.	□ E.	MW	-10D	
	Facility License, Permit or Monitoring No.	Grid Origin I	Location Lo	(Check	if estimated: 🔲 )	Wis. Unique Well No	DNR Well	Number
	Facility ID	1		-		Date Well Installed		
da.	34101632	St. Plane	ft. N		_ H. E. S/C/N		/1999	
	Type of Well	Section Loca	ation of wastersourc		ΠE			e and Fir
	Well Code 12/pz	1/4 of	1/4 of Sec	T	N, R W		dman	
es.	Distance Well Is From Waste/Source	u 🗆 Upgr	adient s $\square$ S	Sidegradient				
i.	ft.	d Down	ngradient n 🗆 1	Not Known	. Cap and lock?	Boart L	ongvear	s 🗆 No
N.	A. Protective pipe, top elevation  B. Well casing, top elevation	1.50 ft. MSI		2	Protective cover a. Inside diamete	• •	23 103	4.0 j
	C. Land surface elevation	ft. MSI			b. Length:	•	_	7.0 t
h	D. Surface seal, bottom ft. MSI	or5.0	ft. 37.37	13.53	c. Material:		5	⊠ 04
	12. USC classification of soil near screen:			200 310 31 200 200 200	d. Additional pro			□ □ □ No
	GP□ GM□ GC□ GW□ S	W SP CH C			If yes, describ		ost	
	SM □ SC □ ML □ MH□ C Bedrock □	L CH C		3. 4. 5. b. c. d.	. Surface seal:		Bentonite Concrete	
	13. Sieve analysis attached?   Yes	□ No					Other	
		ry 🗆 5 0		<b>\</b> 4.	. Material betweer	well casing and prote		
	Hollow Stem Aug					Grout	BentoniteOther	b
				5.	Annular space se	al: a. Granula	ar Bentonite	
	5	ir 🗆 0 1	₩	₿ ь	-	nud weight . Bentonite	-sand slurry	□ 35
	Drilling Mud □ 0 3 Non	ne 🗆 9 9		<b>⊠</b> °	Lbs/gal n	nud weight Ben	tonite slurry	□ 31
	16 Dailling additions used?	⊠ No		₩ d		nite Bentonite-c		
	16. Drilling additives used? ☐ Yes	M NO				volume added for any		
	Describe			<b>⊗</b> ¹	. How installed	-		□ 01 □ 01
	17. Source of water (attach analysis):					Trei	mie pumped Gravity	
			╛	<b>,</b> 6.	Bentonite seal:		ite granules	
				₩ /	b. □ 1/4 in. □ 3	3/8 in. 🗆 1/2 in. Bente		
	E. Bentonite seal, top ft. MSL	or5.0		\	C.	al. Manufactura and	Other	
	F. Fine sand, top ft. MSL	or <u>55.0</u>	ft.	.8.	a	al: Manufacturer, prod #7 Badger		a mesn∙s <u>₹</u>
	G. Filter pack, top ft. MSL	or <u>57.0</u>	ft.	X / R		ial: Manufacturer, pro		nd mesh
			$\sim$ $\cap$ $\mid$	7	-	30 American Materials	5	
	H. Screen joint, top ft. MSL	or <u>60.0</u>	ft.		b. Volume added			D 2.
	I. Well bottom ft. MSL	or70.0	ft	9.	Well casing:	Flush threaded PVC		
	I Filter mode hottom	72.0	ft.	<b>\</b>	Canada and 111	PVC	Other	□
	J. Filter pack, bottom ft. MSL	or		<b>~</b> 10.	Screen material: . a. Screen Type:	1 4 C	Factory cut	
	K. Borehole, bottom ft. MSL	or72.0	ft.		) <u>F</u>	Con	tinuous slot Other	⊠ 01
	L. Borehole, diameter in.			<b>X</b>	b. Manufacturer	Boart Longyea	<u>r</u>	
	M. O.D. well casing 2.37 in.				<ul><li>c. Slot size:</li><li>d. Slotted length</li></ul>	:	<u>-'</u>	0.010 i: 10.0 i
				<u>\</u> 11.	•	(below filter pack):		⊠ 14
	N. I.D. well casing 2.06 in.						Other	O
	I hereby certify that the information on this f	orm is true an	d correct to the best	of my knowled	dge.			
	Signature		Firm Boart Long				Tel: (715):	359-709
		•	101 Alderson	St. Schofield, V			Fax: (715).	355-571
	Please complete both forms 4400-1134 and 4400-113	D I t - t	La annone de la la la la la la la la la la la la la		'a alution of those ro		201 201 200	201

Please complete both Forms 4400-113A and 4400-113B and return 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., 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 condut involved. Personnally 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.

ma 11.32

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k Si

7:3**3** 

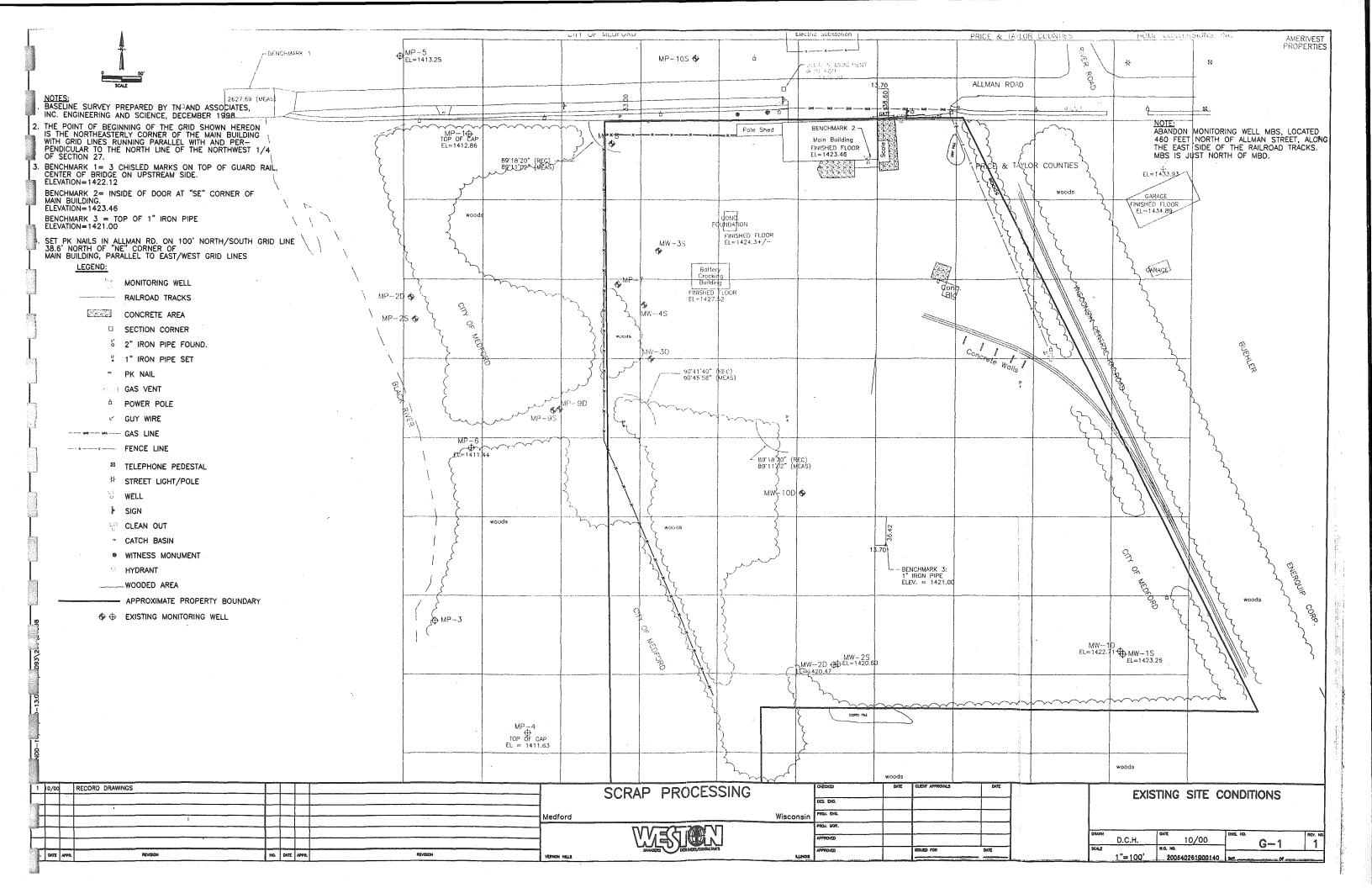
## MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 6-97

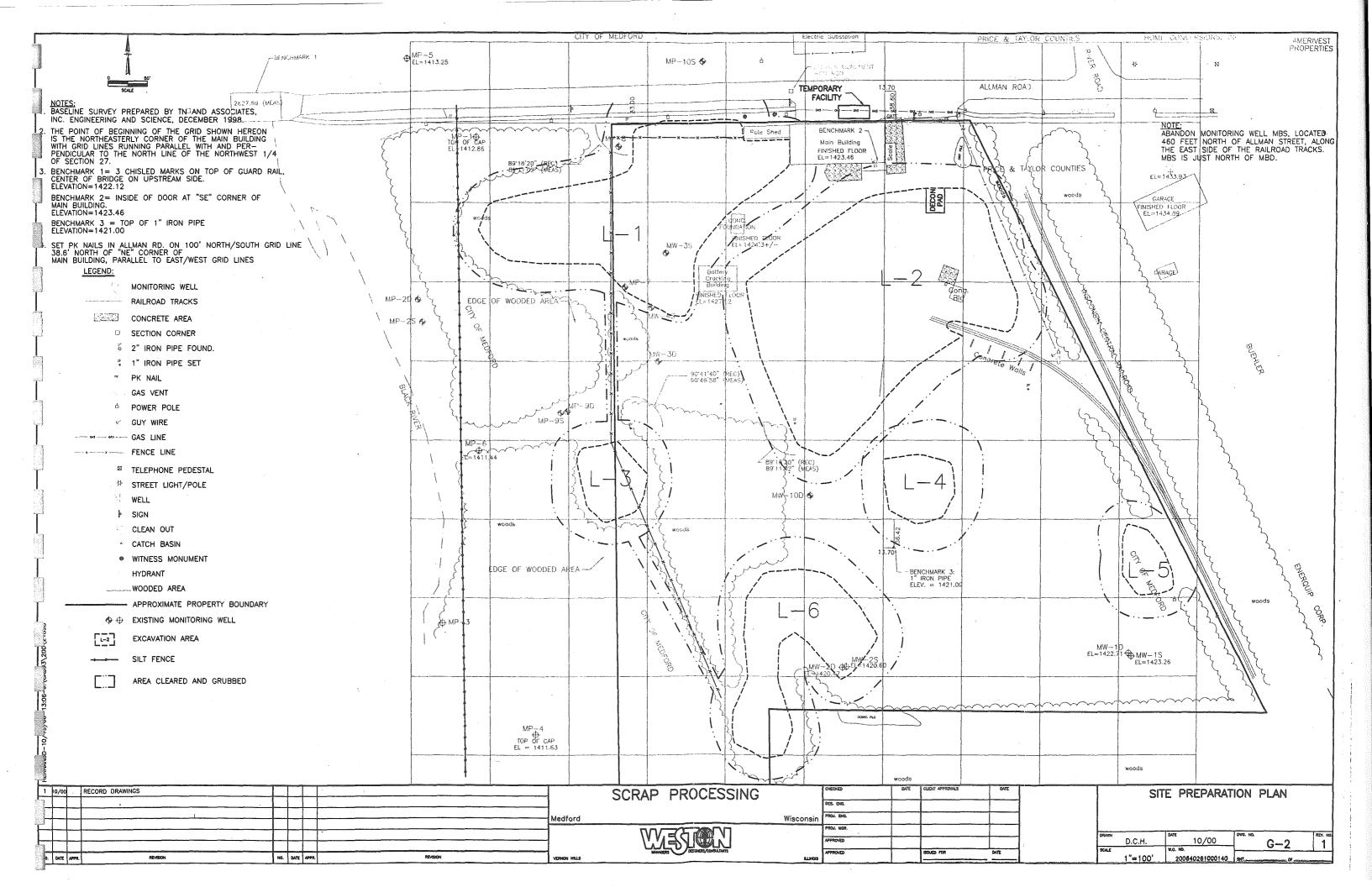
Route To: Watershed/Wa	astewate	er 🗆		aste Managen	nent 🗀	]					
Remediation/E	Redevelo		Ot	her 🗆							
Facility/Project Name		County				Well	Name				
Scrap Site				ylor				MW	<i>V</i> -10D		
Facility License, Permit or Monitoring Number		County Co	de W	Wis. Unique Well N		nber		DNR Wel	l Number		
		01									
1. Can this well be purged dry?	⊠ Yes	□ No	11	. Depth to W	'ater	Befor	e De	velopment	After I	Develo	oment
2. Well development method:				(from top o		a.		0.83 ft.		60	.12 ft.
surged with bailer and bailed	□ 4	i		well casing)	)						
surged with bailer and pumped	⊠ 6	l .									
surged with block and bailed	□ 4	2		Date		b.	08/0:	5/1999	0	8/05/19	99
surged with block and pumped	□ 6	2			•						
surged with block, bailed, and pumped	□ 7	0									
compressed air	□ 2	0		Time		c.	03	:30 pm		05:30	pm
bailed only		0									
pumped only	□ 5	i	12	. Sediment in	ı well		.0	10 inches		0.0	inches
	□ 5			bottom							
		<u> </u>	13	. Water clarit	ty	Clear Turbio	_	1 0 1 5	Clear Darbid C		
3. Time spent developing well	1	120 min.				(Descri	-		(Describe) Cloudy		
4. Depth of well (from top of well casing)	7	1.5 ft.									
5. Inside diameter of well	2	.06 in.									
6. Volume of water in filter pack and well			i	•							<del></del>
casing		gal.	-								
			Fil	l in if drilling	fluids	were use	d and	well is at soli	d waste fac	ility:	
7. Volume of water removed from well	25 ga	als. gal.		Total susper				mg/l			mg/l
8. Volume of water added (if any)		gal.		solids							
9. Source of water added		<del></del>	15	COD				mg/l			mg/l
			16	Well develop	ed by:	Person's	Name	and Firm			
10. Analysis performed on water added?	□ Yes	☐ No	1.0.	-	•			, w			
(If yes, attach results)				,L. I	Erdma	an					
(** ) ** ( ******* ********************				Boa	art Lo	ngyear					
17. Additional comments on development: Pumped dry 5 times.				×							
Facility Address or Owner/Responsible Party Address			I h	ereby certify t	hat the	above in		ition is true a	nd correct t	o the bes	t of my
Name:			1	owledge.						o die oes	
Firm:			Sig	nature:		<u></u>	T	M uKer			
Street:			_ Prii	nt Name:	Ro	n Th	ala	uker			
City/State/Zip:			_ Fin	n: <u>B</u>	oart L	ongyea	ar		. 1 <i>0</i> 3. 1,11	·	<del></del>

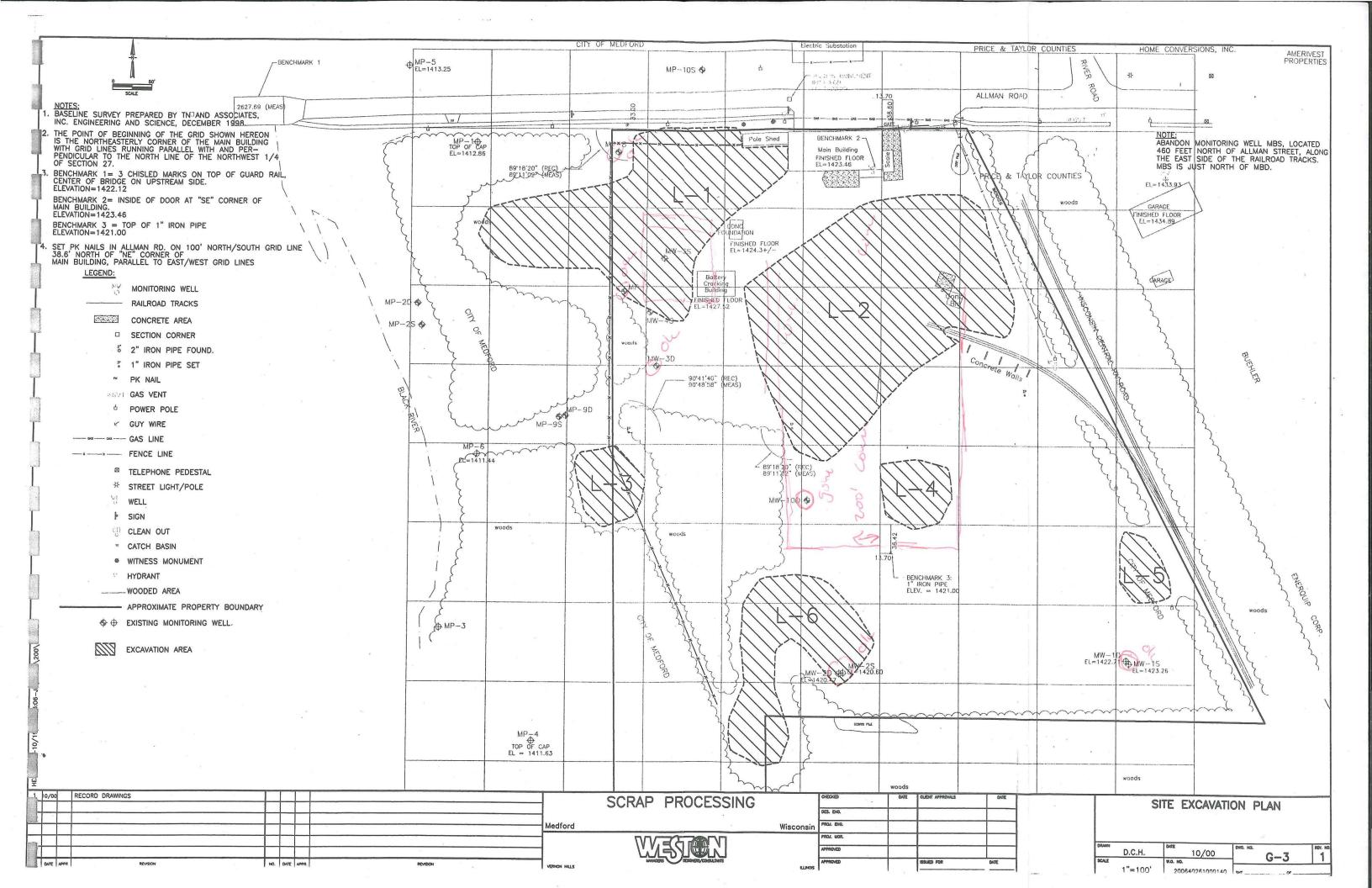
### APPENDIX C

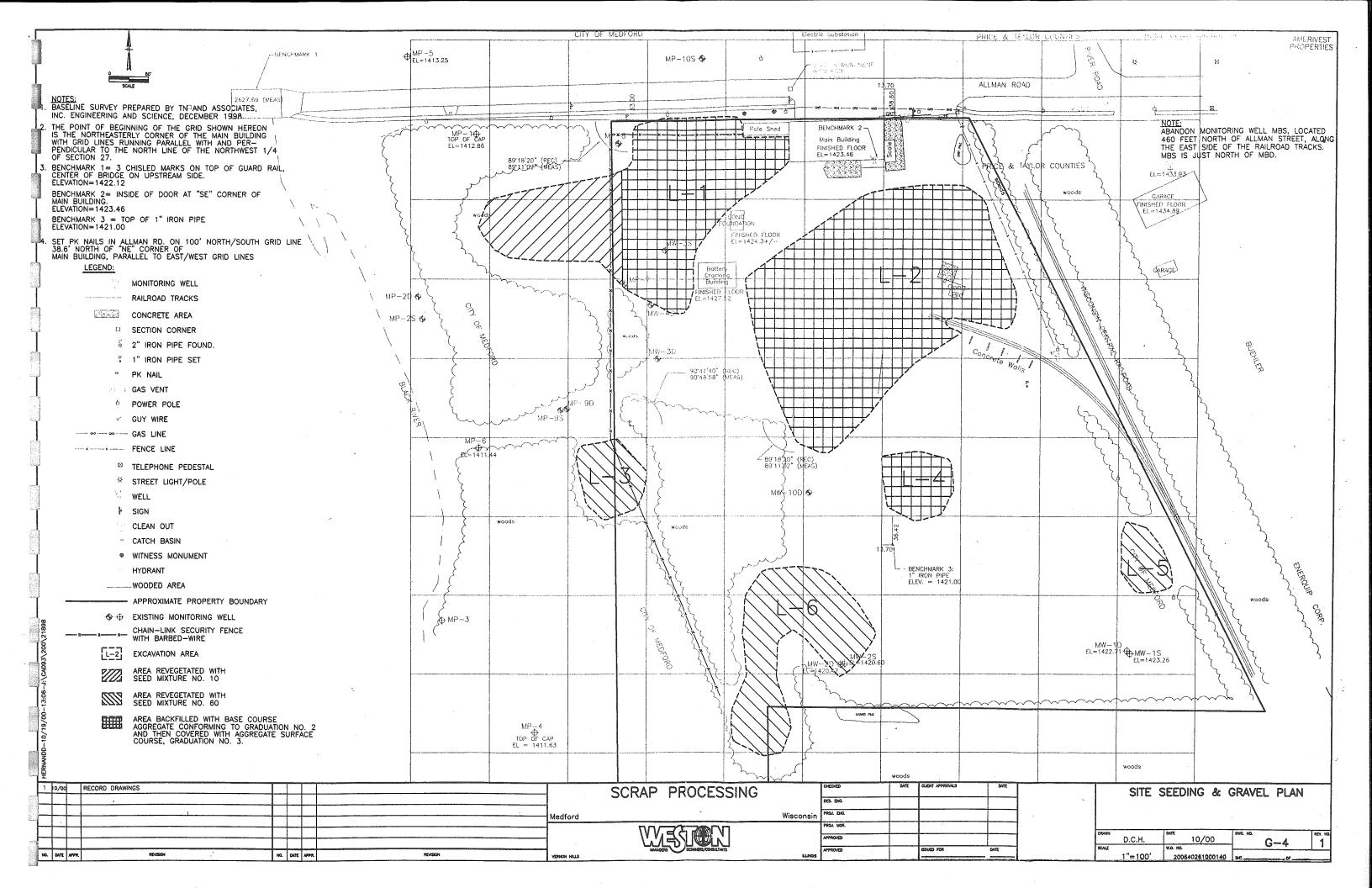
gC-504

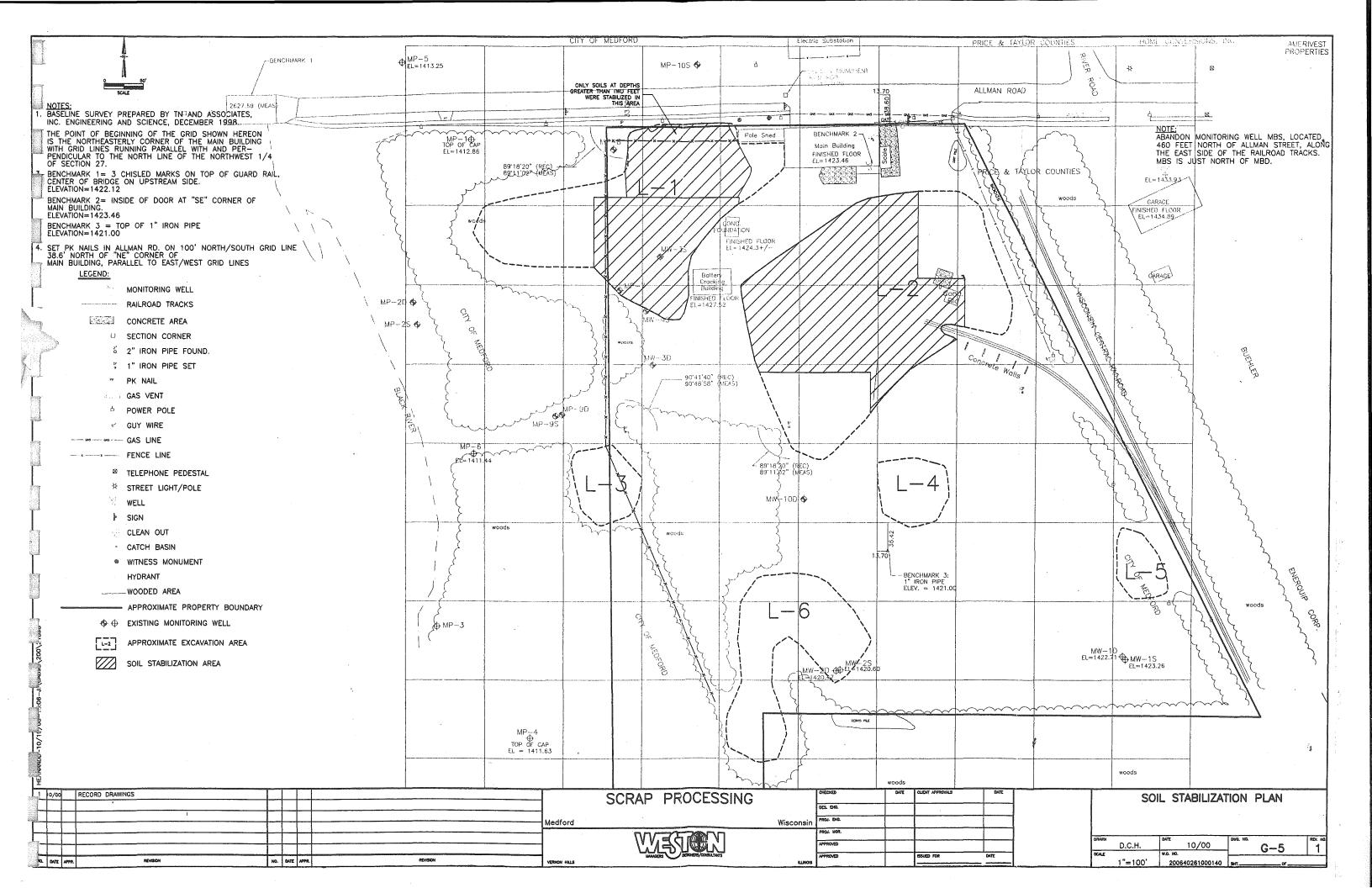
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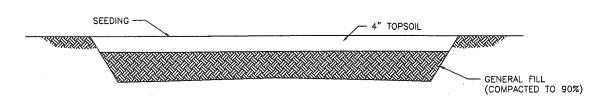




4" AGGREGATE SURFACE COURSE (GRADATION NO.3) (COMPACTED TO 95%) 6" BASE COURSE AGGREGATE (GRADATION NO.2) GEOTEXTILE FABRIC

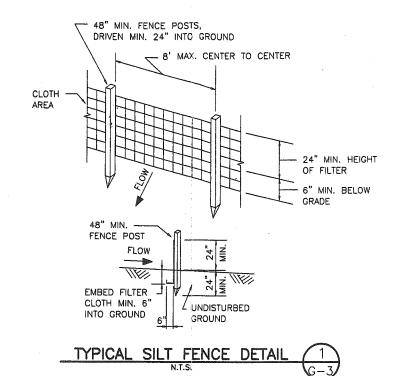
### GRAVELED AREAS

NTS



### REVEGETATED AREAS

NTS



### TYPICAL SILT FENCE

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

  1. THE TOE ANCHOR WILL BE BACKFILLED AND COMPACTED TO
  A DENSITY EQUAL TO SURROUNDING SOILS.

  2. FILTER CLOTH TO BE FASTENED SECURELY TO UPSLOPE SIDE
  OF FENCE POSTS.

  3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER
  THEY SHALL BE OVERLAPPED BY 6" AND STAPLED.

  4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL
  REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

  5. INSTALL SILT FENCE AND EROSION CONTROL MEASURES AROUND
  STOCKPILE(S) TO HINDER SEDIMENT RUNOFF.

<u></u>										5574 W. A. W. A. W. A. W. A. W. A. W. A. W. A. W. A. W. A. W. A. W. A. W. A. W. A. W. A. W. A. W. A. W. A. W.					
	0/00	RECORD DRAWINGS			S	SCRAP PROCESSING	CHECKED	DATE	CLENT APPROVALS	DATE			DETAILS		
<u>'l</u>		,			_		DES. ENO.				<b>-</b>		DLIMILO		
Ш					edford	Wisconsin	PROJ. ENG.	a.			1				
							PROJ. MOR.	or.			-				
							APPROVED				-	D.C.H.	10/00 D	/S. NO.	REV. NO.
						LAVED DESCRIPTIONS	APPROVID		ESUED FOR	DATE	_  ·	SCALE	W.O. NO.	<u>G-6</u>	
<b>o</b> .	DATE APPR	REVISION	NO. DATE A	APPR. REVISION V	ERNON HILLS	RLINOIS						NONE	200840201001120	47OF	

, Max.