- file

CORRESPONDENCE/NENORANDUN _____ STATE OF WISCONSIN

File Ref: 4440 Date: June 8, 1989

Mr. Robert Hunter - DOJ To:

James Reyburn - Lake Michigan District, DNR From:

Subject: Better Brite - Zinc Shop Facility Inspection

On Wednesday, May 31, 1989, I inspected the Zinc Shop located at 315 S. 6th Street, De Pere, WI. I met with Mr. David Gunns, the plant manager, who provided the following information:

John Zenner had instructed Mr. Gunns to consolidate all pretreatment and cooker sludge waste on site into a maximum of 28 55-gallon drums. Mr. Gunns was in the process of doing this at the time of the inspection and expected the consolidation to be completed by the following week. When I asked him what would happen if there were more than 28 drums of waste, he replied that there would not be. When pressed, he said that he was not going to put any waste on his pickup truck. Apparently this magical number of 28 drums of waste was the amount on site when John Zenner took over operation of the facility.

Mr. Gunns said they had not generated any waste at this facility since my last visit. He went on to explain that the only tanks ever cleaned were the rinse water tanks, which was done when the sludge in the bottom of the tank accumulated to the point of touching the parts. The liquid fraction would then be pumped off, the sludge removed, and the rinse water returned. The sludge was then added to the cooker soap tank. By adding the rinse sludge to the cooker tank, he claimed that the sludge was not a waste, but was a part of the process stream. Mr. Gunns stated that the cooker tank had not been cleaned since he had been there. He did say that rinse water was added to the cooker tank for evaporation purposes. I have spoken to other platers who indicate that it is possible to operate the plating tanks indefinitely without removing spent plating solution. By adding additional new plating solution the tank can continue to operate.

When I inspected the facility, I found all the tanks to be inactive and no plating production taking place. Mr. Gunns said that the only employees at the facility at this time were himself and one other worker. Business was poor because the customers were concerned about losing parts if the facility were to suddenly close down. There was waste in containers and waste spilled on the floor over a large majority of the

facility, but I did not observe any liquid leading outside the building.

The following is my best attempt to inventory the waste on site at this time:

On the production floor, I observed 9 elongated plating tanks; 8 of which were full of liquid and 1 which was empty. At the end of these tanks was a square, smaller tank used for the cooker soap which was full of liquid and sludge. Across the aisle from these tanks were 2 elongated tanks (1 400-gallon tank and 1 800-gallon tank), both of which contained untreated wastewater and/or plating solution. Next to this was 1 (white plastic 1500-gallon) tank of untreated rinse water and 1 (green plastic 1500-gallon) tank of treated wastewater. Tn the southeast corner of the facility is the automatic plating line which was full of plating liquid and plating salt. The wastewater pretreatment system tanks included the 2 overhead tanks; 1 square tank on the ground; and 1 low, round, white plastic tank. All of these pretreatment tanks were full of liquid/sludge waste. Scattered around the pretreatment system were 4 blue plastic 55-gallon drums that I was told contained unused chlorine product. The lab room associated with the pretreatment system had an assortment of 1-gallon containers of sodium cyanide, sulfuric acid, silver nitrate, and ammonium hydroxide. Scattered around the main floor, I found the following 55-gallon containers: 9 full, 5 half-full, and 4 $\frac{1}{4}$ -full. There were also 2 new, full plastic 55-gallon drums labeled "Muriatic Acid" that I was told were also product.

In the back room, I counted the following full 55-gallon drums: 8 of the original gray tomato paste drums and 8 red plastic drums into which waste had been recontainerized. There were 2 open-head drums that contained filter bags, and 29 empty drums that had previously contained waste. There were approximately 12 red, empty 55-gallon plastic containers into which additional waste was to be repackaged.

Also in the back room, there were 2 full 55-gallon plastic drums containing unknown material. One of these unknowns was a black plastic drum referred to as Everett's mixture into which Everett Hintz poured a variety of chemicals, and the other drum was a cardboard drum that had been damaged by water. The two 500-gallon plastic tanks above the filter-bag rack were also full of liquid. In one corner of the back room, there were 12 drums that I was told contained product. This product included detergent (cooker) soap, sodium nitrate, oils, and sodium cyanide.

If you have any questions regarding this inspection, please contact me at (414) 497-4397.

JR:cm

CC. Pflug



Site Inspection Report

United States Environment: ection Agency Office of Emergency and Remedial Response Washington, DC 20460 EPA Form 2070-13 July, 1981



Potential Hazardous Waste Site

Site Inspection Report

\$€PA	POTE PART 1 - SITE	ENTIAL HAZARD SITE INSPECTI LOCATION AND I	OUS WASTE SITE ON REPORT INSPECTION INFORM		IFICATION 02 SITE NUMBER 006 32088
II. SITE NAME AND LOCATI	ON			and the second of the state of the second	·····
OI SITE NAME (Legal, common, or desc The Cheter	Bute Zine	Shop Menc.	35 STREET, ROUTE NO., OR SP 35 S. S.	PECIFIC LOCATION IDENTIFIER	
DEPEKE			W1 54115	Brown	DD1 08
442038_	880531	A. PRIVATE D	B. FEDERAL	C. STATE D. COUNT	Y 🗆 E. MUNICIPAL WN
01 DATE OF INSPECTION	O2 SITE STATUS	03 YEARS OF OPERATIO)N		
07 , 24, 88 MONTH DAY YEAR		BEGIN	103 1 DRSCH	<u>+</u> UNKNOWN	
	TION (Check all that apply)				
E. STATE D F. STATE CO		ame of lirm)		(Specify)	(Name of firm)
Annette WEISS	sbach	Hydrog	relogist	07 ORGANIZATION	08 TELEPHONE NO. 1414 4977-3151
OP OTHER INSPECTORS JUNE REYAU	m	Nydroge	iologist	11 ORGANIZATION	12 TELEPHONE NO. (4)4)497.4397
al hass		Gnu. Spe	cialist	WDUR	1414 497-3589
Temy llegt	man	Safety	Officer	WONR	(414) 497-3053
Raytickni	ey,	Hydrog	edogist	WDDR	1608267-246
Tom Stur	m	Gru. Sp	cialist	WINR	1414497-4061
13 SITE REPRESENTATIVES INTERV	VIEWED	14 TITLE U	15ADDRESS	1	16 TELEPHONE NO
					()
					()
-					()
					()
				15	()
17 ACCESS GAINED BY (Check one) A PERMISSION WARRANT	1 TIME OF INSPECTION 6 July 88 8-10 AM 17 July 83 8-1400	26 July S 27 July C	Why 75° Z-3r and 70° 0-3r	npH winds, variable,	atole It rain
IV. INFORMATION AVAILAB	BLE FROM	Jacob			
Annelte W.	eissbach	U2 OF (Agency/Organizat	n-DNR Lake	e Michigan Dist	14)4)497-3151
04 PERSON RESPONSIBLE FOR SI	ITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE DZ 20,89 MONTH DAY YEAR

EPA FORM 2070-13 (7-81)

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€E	PA	PO.	FENTIAL HAZAN SITE INSPEC PART 2 - WAST	RDOUS WASTE TION REPORT E INFORMATION	SITE	I. IDENTIFICATI	on 1UMBER 132088
II. WASTE S	TATES, QUANTITIES, AN	D CHARACTER	ISTICS				
01 PHYSICAL S A. SOLID B. POWDE C. SLUDG D. OTHER	ETATES (Check all that apply) □ E. SLURRY E. FINES X F. LIQUID E □ G. GAS (Specify)	02 WASTE QUANT (Measures of must be TONS CUBIC YARDS NO. OF DRUMS	ITY AT SITE I waste quantities independenti 30-50 plat	OS WASTE CHARACT X.A. TOXIC X.B. CORRC U.C. RADIO/ X.D. PERSIS UQ SULACZ	ERISTICS (Check all that ap E. SOLUE SIVE F. INFEC ACTIVE G. FLAMM TENT H. IGNITA	INFINI BLE II. HIGHLY V TIOUS I. J. EXPLOS MABLE I. K. REACTI IBLE I. N.COMF I. M. NOT AP	VOLATILE IVE VE PATIBLE PLICABLE
III. WASTET	YPE		and the second second second second			l and a second	
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		dent a select of the second
SLU	SLUDGE		30-50	drums	Elect to D	lating sinda	0
OLW	OILY WASTE						
SOL	SOLVENTS		Introvon		Inaking Floor	od Hours / Aum	bing
PSD	PESTICIDES		innenour		2	or the proof	<u>}</u>
occ	OTHER ORGANIC CH	EMICALS	unknown		n .	n ⁿ	
IOC	INORGANIC CHEMIC	ALS					
ACD	ACIDS						
BAS	BASES						
MES	HEAVY METALS		inuknown		IPA king floor	r diams law	ubing
IV. HAZARD	OUS SUBSTANCES (See Ap	pendix for most frequen	ly cited CAS Numbers)		1.11000 1.1100	- converte for	
01 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	chromium		1738-94-5	spillage]]	Leakage	295,000	ug lliter
"	NI .		ч			Z,910	malky
MES	Barium		1440-39-3	ч	٩	2,970	malka
MES	Leaid		7439-92-1	o	*	1,500	malka
MES	mercury		7439-97-6	и	4	1.2	malka
MES	Zinc		7440-66-6			13,600	malka
.,	N			э	h	158	un liter
occ	Cuarile			1	¥	227.9	ug/liter
occ				•	ĸ	P, ODoj	malka
		-					00
SOL	1,1,1.Tuchloroe	ethane	25323-89-1	•	ч	pst. 500.0	ug/liter
SOL	1.1 DICHLOFDE	thane	75-34-3	۹.	7	37.0	na leiter
SOL	1,1 Dichloroe	thene_				29.0	la leiter
SOL	Cathentetrach	londe	56-23-5			62.0	ug/liter
PSD	4,4-DDT					420.0	malka
PSD	4.4- DDE					190.0	malka
V. FEEDSTO	CKS (See Appendix for CAS Numbe	ers)	L	L			
CATEGORY	01 FEEDSTOC	NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTC	OCK NAME	02 CAS NUMBER
FDS				FDS			
FDS				FDS			
FDS				FDS			
FDS				FDS			
VI. SOURCE		pecific references. e.o.	State liles, sample analysis i		· · · · · · · · · · · · · · · · · · ·	······································	
vy ASD	4,4 DDD					55 _	mglkg
Si	te Schenne	inspectio	n-prepared	6 GUINDINR	Feb89		

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORTI. IDENTIFICATION01 STATE DO 6 13208.00 6 13208.	38
II. HAZARDOUS CONDITIONS AND INCIDENTS 01 □ A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: <u>Ub.,400</u> 02,20 OBSERVED (DATE: <u>6(87 × 7/83)</u>) □ POTENTIAL □ ALLEGED 04 NARRATIVE DESCRIPTION 04 NARRATIVE DESCRIPTION C(NOMIUM, ZINC, WANIAE, VOLAT, les, antimony (?) 295,000 Studies wallede upper and lower aguifers are wher- connected. All population veltes on groundwater for us of population potentially affected: <u>D</u> 01 □ B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: <u>D</u> 02,20 OBSERVED (DATE: <u>483</u>) X POTENTIAL Values on groundwater for us of NARRATIVE DESCRIPTION 01 □ B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: <u>D</u> 02,20 OBSERVED (DATE: <u>483</u>) X POTENTIAL Values on groundwater for us of NARRATIVE DESCRIPTION 01 □ B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: <u>D</u> 04 NARRATIVE DESCRIPTION 04 NARRATIVE DESCRIPTION X POTENTIAL □ ALLEGED 04 NARRATIVE DESCRIPTION 56 DO ugiliter zunc in a Sample of Spill waters in storm server what (4/83), X	se.
01 C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: 02 OBSERVED (DATE:) & POTENTIAL alleged 04 NARRATIVE DESCRIPTION THERE are residences immediately adjacent to the site. I leavy metals observed at sufface on eastside of Building (see section 4.3.1 m SSI)	
01 □ D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: <u>~50</u> , 04 NARRATIVE DESCRIPTION good potential for five or explosion. Electrical system is very old and extensively LOITISTICAL. 3 huge transformiets on power pole directly outside of Building. [Jigh power dirt in button line connected to shop serves entire southwest area of Defere 01 □ E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: <u>~50</u> 04 NARRATIVE DESCRIPTION 02 □ OBSERVED (DATE:) Ø POTENTIAL □ ALLEGED 04 NARRATIVE DESCRIPTION 04 NARRATIVE DESCRIPTION 05 POPULATION POTENTIALLY AFFECTED: <u>~50</u> 06 DOBSERVED (DATE:) Ø POTENTIAL □ ALLEGED 04 NARRATIVE DESCRIPTION The site is not penced, heavy in stalls observed at Sufficial Souls, Site Operation IS Still active	~ ~
01] F. CONTAMINATION OF SOIL 1/2 to 1 Acre 02 2008SERVED (DATE: 4183, 9185, 2180 POTENTIAL alleged 03 AREA POTENTIALLY AFFECTED: 1/2 to 1 Acre 04 NARRATIVE DESCRIPTION 10/86, 6/87, 7/88 incress inc	
02 LI OBSERVED (DATE:) & POTENTIAL I ALLEGED 03 WORKERS POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION WORKING CONDITIONS MUST be atrocionisi	
01 □ I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:02 □ OBSERVED (DATE:) Ø POTENTIAL □ ALLEGED 04 NARRATIVE DESCRIPTION	

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS	I. IDENTIFICATION 01 STATE 02 SITE NUMBER W V 006132088
II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)	
01 J. DAMAGE TO FLORA 02 OBSERVED (DATE: _7/1988)	POTENTIAL DALLEGED
stressed vegetation Observed around perimeter of binding Igrasses mainly)	
01 C K. DAMAGE TO FAUNA 02 C OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION (Include name(s) of species)	XPOTENTIAL 🗆 ALLEGED
01 1. CONTAMINATION OF FOOD CHAIN 02 02 03 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION SWFALL WATCH FUNDER READING FOX REVEN	D ALLEGED
01 □ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoll/Standing liquids, Leaking drums) 03 POPULATION POTENTIALLY AFFECTED: <u>50</u> 04 NARRATIVE DESCRIPTION 10/86, 2/87 Difetage of plating studge inside Bruedung opentopped 55 gallendrun	D POTENTIAL D ALLEGED
01 [] N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION Soll COntamination on two adjacent properties see SSI for more details	D POTENTIAL D ALLEGED
01 [] O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS 02 & OBSERVED (DATE: 4183) 04 NARRATIVE DESCRIPTION Spill seponted to DNR, MUNOIF to storm sever, (see Wastewater tradment Plant selfued to take a Fluent from Operations (ment and poonly functioning pretreatment once witalised.	Depotential Dalleged SSI) due to lack of prefical-
01 [] P. ILLEGALUNAUTHORIZED DUMPING 02 \$ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION Samples taken revealed high zinc and Chromium entrance door, worker claimed Boller failure but looked like dump (see ss, for details	D POTENTIAL DALLEGED Concentrations near vingsf plating wastes.
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS Please read SSI for complete details	
	,
III. TOTAL POPULATION POTENTIALLY AFFECTED:	-
please read SSI for complete defails	
V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)	
Screening Site Muspection, see also list of references in ssi	

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	POTENTIAL SI PART 4 - PERMIT A	HAZARDO	JS WASTE SITE TION PTIVE INFORMAT	ION	I. IDENTIFICATION 01.STATE 02 SITE NUMBER WI 006 132088
II. PERMIT INFORMATION					
01 TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS	
(Check all that apply)		· · ·			
			+		
			+		
LI. UTHER (Specify)					
			1	J	
01 STORAGE/DISPOSAL (Check all that apply) 00		AFASURE 041	REATMENT (Chack all that	200/41	05 OTHER
		[[A	INCENERATION)	A. BUILDINGS ON SITE
C. DRUMS, ABOVE GROUND	30-50 55gal		CHEMICAL/PHYSIC/		1
A D. TANK, ABOVE GROUND	11 500-30	oogal. DD	. BIOLOGICAL		I I
E. TANK, BELOW GROUND	lledged ?	D E	WASTE OIL PROCES	SING	06 AREA OF SITE
F. LANDFILL		UF	SOLVENT RECOVER	Y -	
	Ø. OTHER RECYCLING/RECOVERY				
		U H	. OTHER(Sp	ecify)	
(Specify)					
			LATE POOR		
L A ADECOATE, SECONE	LI B. MODERATE		DATE, FOOR	A D. INSECO	IRE, UNSOUND, DANGEROUS
OZ DESCRIPTION OF DRUMS, DIKING, LINERS, BA 55gal. Drums at stored u The tank are vots and con Muse water, CN w/spease and treated effluent	tain= caustic, CN, -, soap solution; ac	acid id, CN	olid plating c withow solid Na OCL	ludg 26- 5 5	-30 10/86 Weston
V. ACCESSIBILITY					
01 WASTE EASILY ACCESSIBLE: I YES 02 COMMENTS and V	ats are unside l	owlding,	probably 2	ocked at.	inght?
VI. SOURCES OF INFORMATION (Cite spec	ific references, e.g. state files, sample a	analysis, reports)			
Scieening Sute	e conspection,	JUDNE	2/89		

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	POTE PART 5 - WATER	NTIAL HAZAF SITE INSPEC	SITE	I. IDENTIFICATION 01,STATE 02 SITE NUMBER 1)1 006132088	
II. DRINKING WATER SUPPLY			-		
01 TYPE OF DRINKING SUPPLY		02 STATUS	le:		03 DISTANCE TO SITE
COMMUNITY A. NON-COMMUNITY C.	CE WELL B. Ø	ENDANGERE A. 🕅 D. 🗙	AFFECTED B. 🗆 E. 🗆	MONITORED C.X F. 🗆	A. <u>1057</u> (n) B. <u>112-1</u> (mi)
III. GROUNDWATER					and an
01 GROUNDWATER USE IN VICINITY (CA	eck one) B. DRINKING (Other sources availa COMMERCIAL, IN (No other water source)	ble) DUSTRIAL, IRRIGATIO es available)	C. COMMERC (Limited other	IAL, INDUSTRIAL, IRRIGA sources available)	TION 🛛 D. NOT USED, UNUSEABLE
02 POPULATION SERVED BY GROUND	WATER 46,400	-	03 DISTANCE TO NEA	REST DRINKING WATER	WELL057(mi)
04 DEPTH TO GROUNDWATER $4-5$ (ft)	05 DIRECTION OF GROUNDWATER FLOW 06 DEPTH TO AQUIFER 07 POT Shallow - northwest OF CONCERN OF, deeper - northeast 230 (tt) 4			R 07 POTENTIAL YIEL OF AQUIFER ft) 4-15	LD 08 SOLE SOURCE AQUIFER
09 DESCRIPTION OF WELLS (Including use Prwate wells tend mwni upal wells Distribute to all <u>Mterconneuted</u> 10 RECHARGE AREA Study YES COMMENTS, Tothe	age, depth, and location relative to, to be called to a draw from sa (onumenties c ci undicate. rec west of the si	population and buildings) del Omute aq ndstone, mi Win three harae occurs te as well	WEET W/ BOI Micypal WS Miles. Upp 11 DISCHARGE AREA	endes extend ills in vicinit er and Lower ENTS Surficiall	ug to sand stone. iy mix water and aquifers are
NO as vertically	hrough overbu	urden		VICCOIDIN	
OI SUBFACE WATER USE (Check and					
A. RESERVOIR, RECREATION DRINKING WATER SOURCE PROPER M. NS REQUIRE	B. IRRIGATIO IMPORTAN P TOLESS WELKER	N, ECONOMICALLY	C. COMMER	RCIAL, INDUSTRIAL	D. NOT CURRENTLY USED
02 AFFECTED POTENTIALLY AFFECTED	BODIES OF WATER				
NAME: Fox River				AFFECTED	DISTANCE TO SITE
				0	(mi)
V. DEMOGRAPHIC AND PROPER	RTY INFORMATION				
01 TOTAL POPULATION WITHIN ONE (1) MILE OF SITE A. <u>ULOUD</u> NO. OF PERSONS	TWO (2) MILES OF SITE B NO. OF PERSONS	THREE (3 C	B) MILES OF SITE 山し イロフ O. OF PERSONS	02 DISTANCE TO NEAR	-D14 (mi)
OS NUMBER OF BUILDINGS WITHIN TWO The Site is in an Who	and residential (irea	04 DISTANCE TO NEA		з 14_ _(mi)
05 POPULATION WITHIN VICINITY OF SIT The site is in with light in activity abou	TE (Provide narralive description of a promarile duritical activ unds, (west)	nature of population within I Rident Uty ,	ricinity of site, e.g., rural, villa Ial area Within	ge, densely populated urban ar SWTOUNDOD 1 1/2 Miles C	L'or murd zgorcuetural
DA FORM 0070 40 47 040		the state of the same for a structure of the	an design and the second second		

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VI. ENVIRONMENTAL INFORMATION 01 PERMEABILITY OF UNSATURATED ZONE (Check one)
01 PERMEABILITY OF UNSATURATED ZONE (Check one)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
02 PERMEABLE Image: Description of the second s
Image: Independence of the sector of the
03 DEPTH TO BEDROCK 04 DEPTH OF CONTAMINATED SOIL ZONE 05 SOILDH (J)
OG NET PRECIPITATION 07 ONE YEAR 24 HOUR HAINFALL Discord Stope Direction OF Site SLOPE TERRAIN AVERAGE SLOPE SITE IS IN 09 FLOOD POTENTIAL 10 N <td< td=""></td<>
OP FLOOD POTENTIAL 10 1
09 FLOOD POTENTIAL 10 SITE IS IN 10 N A I1 DISTANCE TO WETLANDS (5 acre minimum) 12 DISTANCE TO CRITICAL HABITAT (of endangered species) ESTUARINE OTHER
11 DISTANCE TO WETLANDS (5 acre minimum) ESTUARINE OTHER (mi)
ESTUARINE OTHER(mi)
A. NIA (mi) B. N/A (mi) ENDANGERED SPECIES: SEC 551 10017 SEC 5,3
13 LAND USE IN VICINITY
DISTANCE TO:
HESIDENTIAL AREAS; NATIONAL/STATE PARKS, AGRICULTURAL LANDS COMMERCIAL/INDUSTRIAL FORESTS, OR WILDLIFE RESERVES PRIME AG LAND
628
A. <u>1070 (mi)</u> B. <u>055 (mi)</u> C. (mi) D. <u>d</u> (mi)
14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY please see description in SSI report (section 3.5.1) (section 2.1)
· · · · · · · · · · · · · · · · · · ·
VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
Screening sterluspection kepott 2/89

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION 01 STATE 02 SITE NUMBER 006132008 • :

		r	ART 0- SAMPLE AND FILLD INFORMATION	
II. SAMPLES TAK	EN		·	
SAMPLE TYPE		01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER		6		551
SURFACE WATER	۶.		Organis:	
WASTE			O PEI Associates, Inc.	
AIR			Cincinnati, Ohio	
RUNOFF			Inorganics:	
SPILL			Environmental Pootection Systems	
SOIL		5	Pensacola, Florida	551
VEGETATION				
OTHER				
III. FIELD MEASUF	REMENTS TA	KEN		
01 TYPE		02 COMMENTS	8	
HnuPI	101			
Quypen, H	zS		,* *	
methane	, pH			
temp, spr	CIFIL			
conductanc	e			
IV. PHOTOGRAPH	S AND MAPS	5		,
01 TYPE GROUN			02 IN CUSTODY OF UDNR-SGI KOPAH A, WCISSBAC. (Name of organization or individual)	h
OS MAPS	04 LOCATION	OF MAPS		
	ATA COLLE	CTED (Provide parceline de	serintina)	
do no.	ralweath	ver conditu	MS	
see	551			
×				
VI. SOURCES OF I		N (Cite specific references.	e.g., state files, sample analysis, reports)	
5	site Sch	eening senj	peawn rebriet	

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\$EPA	P	OTENTIAL HAZAI SITE INSPEC PART 7 - OWNE	RDOUS WASTE SITE TION REPORT R INFORMATION	I. IDENTIFIC 01 STATE 02 W1	CATION SITE NUMBER 006 132088
II. CURRENT OWNER(S) BUILDIN	26/P	ROPERTY	LEASEE (Il applicable)		
OT NAME EVENEH HUNTZ		02 D+B NUMBER	John Zenner		09 D+B NUMBER
03 STREET ADDRESS (P.O. Bbx, RFD , OC.) 519 LANDE St	reet	04 SIC CODE	10 STREET ADDRESS (P.O. BOX RFD elc. DH	WP,	11 SIC CODE
ONCON BUY		54115	12 CITY CONCER BAY	13 STATE	54311
		02 D+B NUMBER	OB NAME		39 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		1 1 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	l	11SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	, 13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	1	1 1 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (List most recent first) -			IV. REALTY OWNER(S) (If applicable; list most re	ecent first)	
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	OBSTATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
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WDNR Distri	ct Fi	185			

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SEPA	POT	ENTIAL HAZA SITE INSPEC ART 8 - OPERA	RDOUS WASTE SITE CTION REPORT TOR INFORMATION	I. IDENTIF	ICATION 2 SITE NUMBER 006132088
II. CURRENT OPERATOR (Provide if different from	mowner)	en africa e a la construcción de la construcción de	OPERATOR'S PARENT COMPANY	f applicable)	
OI NAME John Zenner	02	D+BNUMBER	10 NAME		11 D+BNUMBER
35 S, SIXTA SAN	eet	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
De Pere		5 UNS	14 CITY	15 STATE	16 ZIP CODE
86 to present Same					
III. PREVIOUS OPERATOR(S) (List most recent fil	rst; provide only if	different from owner)	PREVIOUS OPERATORS' PARENT C	OMPANIES (#	applicable)
John Zenner	02	D+BNUMBER	10 NAME		11 D+B NUMBER
315 S. Slyth S	street	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	•	13 SIC CODE
De Pere	OB STATE 07	54115	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 09 NAME OF OWNER OF	Fetter	Inte			
French Huntz	02	D+B NUMBER	10 NAME		11 D+B NUMBER
315 SIXHAS	Street	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
DE Pete	W C	ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
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08 YEARS OF OPERATION 09 NAME OF OWNER	DURING THIS P	ERIOD			-
IV. SOURCES OF INFORMATION (Cite specific	c references, e.g.,	state llies, sample analysis	s, reports)		
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₽EPA	F	POTENTIAL HAZ SITE INSPE 9 - GENERATOR/T	I. IDENTIFICATION O1 STATE O2 SITE NUMBER WI 006132088		
II. ON-SITE GENERATOR		,			
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IV. TRANSPORTER(S)					
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EPA FORM 2070-13 (7-81)

	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES		I. IDENTIFICATION 01 STATE 02 SITE NUMBER 006 32088
II. PAST RESPONSE ACTIVITIES			
01	02 DATE	03 AGENCY	
01 D B. TEMPORARY WATER SUPPLY PRO 04 DESCRIPTION	02 DATE	03 AGENCY	
01 C. PERMANENT WATER SUPPLY PRO 04 DESCRIPTION	02 DATE	03 AGENCY	
01 D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE 1989	03 AGENCY	
01	02 DATE	03 AGENCY	
01 F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY	
01	02 DATE	03 AGENCY	
01 D H. ON SITE BURIAL 04 DESCRIPTION	02 DATE	03 AGENCY	
01	02 DATE	03 AGENCY	<u> </u>
01	02 DATE	03 AGENCY	
01 K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 L. ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY	
01	02 DATE	03 AGENCY	
01	02 DATE	03 AGENCY	~
01 O. EMERGENCY DIKING/SURFACE WA 04 DESCRIPTION	ATER DIVERSION 02 DATE	03 AGENCY	
01 P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY	
01	02 DATE	03 AGENCY	

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₽EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	I. IDENTIFICATION 01 STATE 02 SITE NUMBER
II PAST RESPONSE ACTIVITIES (Continued)		
01	02 DATE	03 AGENCY
01 D S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY
01 T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY
01 D U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 [] V. BOTTOM SEALED ? 04 DESCRIPTION I' Westallation of made by Joh	02 DATE <u>5-1986</u> un-ground server lines that don't-l n Zenner	os AGENCY Lak_" statement (in aleffer)
01 D W. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01	02 DATE	03 AGENCY
01 D Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 🗆 Z. AREA EVACUATED 04 DESCRIPTION	02 DATE	03 AGENCY
01	02 DATE	03 AGENCY
01	02 DATE	03 AGENCY
01	02 DATE	03 AGENCY
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III. SOURCES OF INFORMATION (Cite specific refe	orences, e.g., state liles, sample analysis, reports)	
WDNR District File	ک	

€PA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION	I. IDENTIFICATION 01) STATE 02 SITE, NUMBER W 1 006 132088
II. ENFORCEMENT INFORMATION		
Please refer to Si There is also a length availab	derenspection Report chronicle of events (several g ie at the District Office	rages) in
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SUPERFUND SITE INSPECTION SITE AND SAFETY PLAN

3 1988 MANAGEMENT

<u>Site:</u> Better-Brite Zinc Shop

<u>WID#:</u> 006132088

Location: NW, NE Section 28, T23R, R20E, City of De Pere, Brown County, Wisconsin. The street address is 315 S. Sixth Street.

Date of Inspection: July 26-27, 1988

Inspection Leader:

Annette Weissbach, Lake Michigan District, Department of Natural Resources

Other Site Personnel:

Jim Reyburn Al Nass Tom Sturm Terry Hegeman



Approvals:

Pre Approved by

Authority: Employees of the State of Wisconsin, under a cooperative agreement with the Environmental Protection Agency, are authorized to take action for the purpose of determining the need for a response (see section 14(e)(1), SARA of 1986).

* Initials indicate Site and Safety Plan has been read and will be abided by.

Attach: Heat Stress Monitoring Information

ADDENDUM

BETTER-BRITE ZINC SHOP SAMPLING PLAN

PROCEDURES FOR SOIL SAMPLING

Four soil samples will be analyzed for metals, cyanide and semi volatiles. This will consist of one 8 oz. wide-mouth jar for metals, one 8 oz. wide-mouth jar for cyanide, and one 8 oz. wide-mouth jar for semi volatiles. One additional sample (three 8 oz. jars) will be taken as a duplicate. The samples will be taken between 0 and 6 inches below the surface. The locations will be as follows:

- 1. The east side of the building, near Wells #2 and #2A
- 2. The south side of the building, near Wells #1 and #1A
- 3. The west side of the building between the side door and the side walk
- 4. A background sample will be taken near the garage of the Smet property
- 5. The duplicate will be taken at the south side of the building, near Wells #1 and #1A

Jim Reyburn will be taking the samples using a spade shovel. Between samples the spade will be decontaminated following the standard procedure described elsewhere in this sampling plan.

Thus, there will be a total of fifteen 8 oz. wide mouth jars containing soil samples.

CORRESPONDENCE/MEMORANDUM-

Date: June 20, 1988

(AD-75)

File Ref: 4430

To: Kim McCutcheon - SW/3

From: Annette Weissbach - LMD

Subject: Site Sampling and Safety Plan for the <u>Better-Brite Zinc Shop</u> Superfund Site Inspection WID#006132088

INTRODUCTION

This plan is being developed to finalize procedures used in obtaining environmental samples from the Better-brite Zinc Shop. A Preliminary Assessment (PA) was completed for this site on March 30, 1988 by WDNR. The site obtained a high priority assessment. Sites with medium or high priority assessments require a site inspection.

The inspection will be conducted under CERCLA Section 104(e)(i) as amended by Section 104(m) or SARA under Section 144.442(a), Wisconsin State Statutes.

BACKGROUND

The facility began operation in 1963, and expanded its operation to another site in the early 1970's. The site was added to CERCLIS in September 1981. Under the Wisconsin Environmental Repair Fund a study was conducted in June 1987 to determine the extent of contamination at the site. The study concluded "some form of remedial action ... is strongly recommended." The facility has a lengthy record of violations both in WDNR Hazardous Waste and Wastewater Management. Currently state enforcement action is underway regarding the improper storage of hazardous waste.

At one time, while using pretreatment, the facility discharged to the sanitary sewer but discontinued because of high levels of contamination in the effluent. An underground holding tank of questionable integrity was used to collect any waste or drainage waters created during the process. This was piped to the sanitary sewer; but often the line was clogged and flooded the loading dock. Huge puddles of wastewater formed in the yard and eventually flowed to the storm sewer. They have no authorized transporter of hazardous waste. DISPOSAL METHOD UNKNOWN.

The facility is leased for \$1 and is currently involved in zinc plating. The property owner is bankrupt and 30-50 drums are stored on site. The leasee claims the drums belong to the owner.

The following chemicals have been found in groundwater and soil samples:

Chromium, Zinc, Lead, Cyanide, Cadmium, 1,1,1 Dichloroethane, 1,1 Dichloroethylene, 1,1,1 Trichloroethane, Trichloroethylene, and Tetrachloroethylene.

TOPOGRAPHY

In general, the site is relatively flat with elevations ranging from 601.9 ft to 603 ft MSL. Practically the entire property is black topped. The site is bounded to the west by Sixth Street, to the south by the Smet Property, and to the east the Progressive Farmers Cooperative. The area is primarily residential with light industry. The Fox River is located approximately 1/2 mile to the north and east.

GEOLOGY AND HYDROGEOLOGY

The site is underlain primarily by Lacustrine - Silty Clay (CL) with lenses and seams consisting of silts, silty sands, Dolomite bedrock with some clayey sands, and gravels. limestone and shale (Ordovician-Sinnepee Group), can be surface. found approximately 30 feet from the The piezometric surface of the bedrock aquifer dips about 5 feet across the site to the northeast. The water table surface has a slight slope to the northwest. There appear to be strong downward gradients in the silty clay. Also, even though the permeabilities of the soils are low (1.9×10^{-8}) to 9.0 x 10^{-9} cm/sec), the clays are fractured and probably provide for secondary permeability. Significant chrome contamination was detected in both shallow and deep wells at the Zinc Shop.

SITE USE

The facility has been in operation since 1963 and continues to be active today. Work involves the zinc plating of metal objects. It is likely that chrome was plated in the early part of the operation.

OBJECTIVES

The objective of this operation is to collect groundwater and soil samples to verify releases of hazardous substances through the Contract Lab Program. The site may effect a potential population of 46,400 through a release to the groundwater.

PROCEDURES

Groundwater samples will be taken from four (4) monitoring wells, one house sump, and one municipal well . Sampling will be performed in the following order (representing least to most Chromium and VOC contaminated from sampling round in summer 1987):

	Location	Total VOC	Cr (ug/l)	Zn (ug/l)
1.	Well #2	-	< 3 (Jan 87)	< 20
2.	Smet sump	-	5800 (Jun 86) 80
3.	W-3	ND	2,300	68
4.	W-3A	789	40,000	< 20
5.	W-1A	183.5	180,000	120
6.	W-2A	10.2	310,000	31

The following field measurements will also be taken and recorded: pH, specific conductance, water elevation, and water temperature.

The monitoring wells will be purged using a 1.66 inch O.D. teflon or stainless steel bailer. Groundwater elevations will be taken prior to bailing as will a reading with the HNU meter of head space in the well. The volume of water in the well will be computed using table 5 of WDNR groundwater sampling procedures outlines PUBL WR-168 87. Most wells are screened into the relatively impermeable clays and may be bailed dry. Purged water will be collected and contained in the calibrated 5-gallon plastic pail and contents discarded into the approved sanitary sewer inlet. The teflon bailer is being used to minimize absorption of the VOCs and reduce introduction of contaminants. 1/8" 4SB Nylon rope (nonreuseable) will be used to lower the bailer. The bailers are not dedicated and, between wells, will be triple rinsed with distilled water, acetone and 10% nitric acid rinse.

One field blank of distilled water, one rinse blank and one field duplicate sample will be taken along with appropriate matrix duplicates for QA/QC purposes. All samples will be analyzed for volatiles, semi-volatiles, and metals.

EQUIPMENT AND SUPPLIES

The following equipment will be used:

Have Packed

Safety Equipment

have pailed

Air Escape Masks First-Aid Kit Oxygen

Fire Extinguishers Portable Eye/Face Wash Unit two-way communication system Exotox Model 40 Tri-gas Meter Hydrogen Sulfide Flammable gas (LEL methane) HNU meter, model PI 101

-4-

Personnel Clothing and Equipment -- LEVEL D --

Aprons (for Post-SI lab work) Boots (neoprene safety/steel toe and shank) Tyvek Suits (one piece/disposable) Gloves (neoprene or suitable composition) Hard Hats Latex Gloves (disposable) Outer Boot Covers Safety Glasses Tool Kit Masking tape

Sampling Equipment

0.45 micron Filters and Prefilters Bailer Cord (nylon) Bailers (teflon, stainless steel) Calibrated Buckets Easy troll down rigger/step ladder Geofilter Apparatus Peristaltic Pump pH Meter and Buffers (4, 7, and 10) Plastic Sheeting (for ground cover) Rinse Bottles Silicone Tubing Transfer Bottles YSI Model 3000 T-L-C Meter Temperature water level self-correcting conductivity

Support Equipment and Office Supplies



Air Bills Chain-of-Custody Forms Field Book Camera Calculator Coolers Drinking Water Dispenser

Sampling Van



Ice Indelible markers, pens, and pencils Overhead Tarp (with rope and stakes) Polyethylene Bags (various sizes for bottles) Receipts for Samples Sample Label Tags Tape (masking, cellophane, and strapping) Traffic Reports Vermiculite

Decontamination Equipment

Aluminum Foil Brushes Edit (detergent) Garbage Cans Hand and Face Soap Hudson Sprayer Paper Toweling Trash Bags Wash Tubs Acetone Rinse 10% Nitric Acid Rinse Carboys (distilled-quantity 4, tap-quantity)

All monitoring wells will be bailed and sampled using teflon and stainless steel bailers. The bailer will be cleaned prior to use, using acetone as described on page 51 of publication 168. In the field it will be decontaminated using methods specified in the same section. In the lab after sampling is completed, the bailers will also be rinsed with a 10% nitric acid solution. A 6 x 6 piece of 4-mill plastic will be centered around the well to reduce introduction of contaminants. The bailer is bottom loading; a specially designed bottom-emptying-device will be inserted in the bottom to transfer the sample to containers and therefore minimize volatilization of contaminants.

Sampling will comply with Chapter 1, Sections C-J, of the ground-water monitoring procedures guidelines and Chapter 2, Sections C-I, for private water supply wells. The sample containers are provided by the contract laboratory. We will expect that they will comply with exhibit F of the QAPP. Likewise, chain of custody in document control will be according to exhibit G of this reference.

Equipment will be cleaned in the decontamination area where practical. Rinse water will be emptied into the sanitary sewer inlet at a nearby site. Discarded items (ie. Tyvek

suits, masking tape, etc..) will be placed in plastic trash bags, removed from the site and disposed of in a dumpster at the office. After sample bottles are filled, they will be preserved (if necessary per the groundwater sampling procedure guidelines), sealed, rinsed to clean them, labeled, tagged, and placed on ice. All appropriate information such as field measurements, sample I.D. numbers, person obtaining and handling samples, etc., will be recorded in the sampling field notebook or other documents.

LOGISTICS

Equipment and personnel will be transported to the site from LMD HQ in a state-owned, full-sized station wagon. Personnel and equipment from the Central Office will be transported to the site in a state-owned, full sized station wagon. Samples will be taken to Appleton and sent via federal express to the contract laboratory. The federal express office is located in the Outagamie County Airport, telephone number 414-738-7010. This office is open until 7:30 p.m.

SAMPLING REPORT

A sampling report will be prepared by Annette Weissbach after completion of sampling. This report will summarize personnel present, equipment used, problems encountered, deviations from the sampling plan, and other appropriate information. Two copies will be sent to Robin Schmidt-SW/3. The original will be kept in the District Superfund Inspection File.

SITE SAFETY:

Inspection Leader

Annette Weissbach, Superfund Hydrogeologist, Lake Michigan District

Planned Site Activities

Department employees have been granted access to the site by the Trustee. The owners of adjacent properties containing monitoring wells have also granted access. The site is well known and all members of the site inspection team are familiar with it. The Department has received permission from the City of De Pere Wastewater Treatment Plant to dispose of bail and rinse waters into the sanitary inlet on a nearby site. SI personnel will not enter any on-site buildings.

Logistics

A Central Office station wagon and a LMD station wagon will be used to transport equipment to the site.

A meeting will be held prior to the site inspection to discuss among all personnel the following:

- 1. Assignment of duties
- 2. Inspection procedures
- 3. The nearest medical facilities
- 4. Emergency procedures
- 5. Restriction, hygiene

Safety

All people entering the exclusion zone or contaminant reduction zone will wear Level D.

Level D was chosen based on the following rationale:

- 1. The Site is known to all SI personnel
- 2. Groundwater and soil samples have been taken over the past several years
- 3. Contaminant concentrations are documented

Protective Equipment

At a minimum the following will be worn:

Boots (neoprene safety/steel toe and shank) Tyvek Suits (one piece/disposable) Gloves (neoprene or suitable composition) Hard Hats Latex Inner Gloves (disposable) Outer Boot Covers (disposable) Safety Glasses Full Face Shields for personnel involved in groundwater sampling

Anticipated Hazards

-risk of splash when taking samples
-slip, trip, and fall are most likely
-risk of acid burns from preserving samples
-heat exhaustion if temperatures are very hot

Monitoring Requirements

A Hnu PID with 11.7 eV probe will be used for ambient air monitoring for organics.

A Exotox Model 40 Tri gas meter will be used for oxygen, combustible gases, and hydrogen sulfide (not expected to be found).

Readings will be taken from ambient air every hour and from head space in each monitoring well immediately after cap removal.

If Hnu readings 5 ppm above background are encountered in ambient air at breathing level, work will cease. Likewise, if combustible gas levels of 25% LEL are encountered, work will cease. If levels are between 10% to 25% caution will be exercised.

Due to the anticipated hot weather, SI personnel will be instructed to be aware of heart rate and body temperature. The safety officer will be instructed to recognize signs associated with heat rash, heat cramps, heat exhaustion, and heat stroke. Rest breaks will be taken whenever necessary to assure the well being of all personnel. Gator aid and water will be available at all times. Arrangements will be made to offer shade and an air conditioned car will also be available.

Team Organization

Team member	<u>Responsibilities</u>	
Annette Weissbach	Site manager gw sampling	
Jim Reyburn	soil sampling gw sampling	
Al Nass	gw sampling photo documentation	
Terry Hegeman	air sampling safety officer* back up	off-site
Tom Sturm	sample preservation and packing decontamination	off-site
C.O. staff	to be determined	

*The safety officer is not permitted in the exclusion zone since he did not have the opportunity to take the required 8 hour refresher course. However, he can serve as safety officer for the following reasons:

- 1. All monitoring wells are within 50 feet of the exclusion boundary
- On-site personnel can easily be observed from an off-site location

<u>Initial Procedure</u>

- locate nearest telephone
- confirm location of emergency numbers and route to hospital
- designate vehicle for emergency use
- determine prevailing wind direction and establish support zone, contaminant reduction zone, and exclusion zone
- zero monitoring instruments up wind off site
- perform site inspection

<u>Work Limitations</u>

- no eating, drinking, or smoking on site
- no ignition sources
- buddy system in effect at all times in exclusion zone
- no entry into confined spaces
- no drugs or alcohol during or prior to work
- gloves must be worn until sample bottles thoroughly decontaminated
- work restricted to daylight hours
- no working if thunder or lightning observed
- continuous air monitoring to occur while in exclusion zone

Decontamination Procedures

- wash and rinse outer gloves (repeat as necessary)
- tear away tyvek suit (place in plastic garbage bag)
- wash and rinse boots
- remove latex inner gloves and place in garbage bag
- wash hands and face thoroughly

Disposal Practices

- all wash and rinse water will be disposed of in the designated sanitary sewer inlet
- garbage will be wrapped and disposed of in dumpster at LMD HQ

Emergency Information

a. St. Vincent Hospital - Emergency Center (433-8383) located at 835 S. Van Buren Street, Green Bay

- b. City of De Pere Fire Department and Emergency Rescue Squad can be contacted by dialing 911
- c. The Poison Control Center is also located at 835 S. Van Buren Street and can be contacted by dialing (433-8100)

Emergency Routes

See attached map

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Prepared by

Date



State of Wisconsin Department of Natural Resources

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GROUNDWATER MONITORING WELL INFORMATION FORM Chapter 144, Wis. Stats. Form 4400-89 2-84

Facility Name		Z	inc	;	F	acility ID Number	Date			Completed	By (Name a	nd Firm	n)								
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	Well ID						Well (Casing		Elevations		Refer	Site	Scr	cen		<u> </u>	Туре	of W	ell (~	•)
Well Name	Number (DNR No.)	Well Location	N	s	EW	Date Established	Diam.	Type	Top of Well Casing	Ground Surface	Screen Top	MSL ()	Datum	Length	Material	Well Depth	PIEZ	ow	PW	LYS	Other
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C. Heat Stress Monitoring

2.1

For monitoring the body's recuperative ability to excess heat, one or more of the following techniques should be used as a screening mechanism. Monitoring of personnel wearing protective clothing should commence when the ambient temperature is 70 degrees Fahrenheit or above. Frequency of monitoring should increase as the ambient temperature increases or if slow recover rates are indicated. When temperatures exceed 80 degrees F workers must be monitored for heat stress after every work period.

- Heart rate (HR) should be measured by the radial pulse for 30 seconds as early as possible in the resting period. The HR at the beginning of the rest period should not exceed 110 beats per minute. If the HR is higher, the next work period should be shortened by 10 minutes (or 33%), while the length of the rest period stays the same. If the pulse rate is 100 beats per minute at the beginning of the next rest period, the following work cycle should be shortened by 33%.
- Body temperature should be measured orally with a clinical thermometer as early as possible in the resting period. Oral temperature (OT) at the beginning of the rest period should not exceed 99 degrees Fahrenheit. If it does, the next work period should be shortened by 10 minutes (or 33%), while the length of the rest period stays the same. However, if the OT exceeds 99.7 degrees Fahrenheit at the beginning of the next period, the following work cycle should be further shortened by 33%. OT should be measured again at the end of the rest period to make sure that it has dropped below 99 degrees Fahrenheit.
- Body water loss (BWL) due to sweating should be measured by weighing the worker in the morning and in the evening. The clothing worn should be similar at both weighings; preferably the worker should be nude. The scale should be accurate to plus or minus 1/4 lb. BWL should not exceed 1.5% of the total body weight. If it does, workers should dbe instructed to increase their daily intake of fluids by the weight lost.

Ideally, body fluids should be maintained at a constant level during the work day. This requires replacement of salt lost in sweat as well.

Good hygienic standards must be maintained by frequent change of clothing and daily showering. Clothing should be permitted to dry during rest periods. Persons who notice skin problems should immediately consult medical personnel.

D. Effects of Heat Stress

If the body's physiological processes fail to maintain a normal body temperature because of excessive heat, a number of physical reactions can occur ranging from mild (such as fatigue, irritability, anxiety, and decreased concentration, dexterity, or movement) to fatal. Standard reference books should be consulted for specific first aid treatment. Medical help must be obtained for the more serious conditions.

Heat-related problems are:

- Heat rash: caused by continuous exposure to heat and humid air and aggravated by chafing clothes. Decreases ability to tolerate heat as well as being a nuisance.
- <u>Heat cramps</u>: caused by profuse perspiration with inadequate fluid intake and chemical replacement (especially salts). Signs: muscle spasm and pain in the extremities and abdomen.
- Heat exhaustion: caused by increased stress on various organs to meet increased demands to cool the body. Signs: shallow breathing; pale; cool; moist skin; profuse sweating; dizziness and lassitude.
- Heat stroke: the most severe form of heat stress. Body must be cooled immediately to prevent severe injury and/or death. Signs: red, hot, dry skin; no perspiration; nausea; dizziness and confusion; strong, rapid pulse; coma. Medical help must be obtained immediately.