JUN 28 1988

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# Preliminary Assessment Narrative

BUREAU OF SOLID .
HAZARDOUS WASTE MANAGEMENT

Site Name: Debeck Refuse Hideaway Landfill

Site Location: SW4, NW4, Section 8, T7N, R8E, Town of Middleton, Dane County

Site Geology and Hydrogeology: Unconsolidated materials across the facility range from less than 5 feet northwest of the site to greater than 100 feet south of the fill area. In the southern areas of the property on site unconsolidated materials consist of up to 31 feet of layered silt and clay with some sand layers. These materials are likely lake deposits and are overlying a fine silty sand with gravel. This material is either glacial or alluvial in nature. Beneath this material is a fine silty sand with some gravel interpreted as a glacial till layer.

Bedrock is at the surface to the north of the site and drops steeply to the south. Boring logs north of the site show approximately 105 feet of dolomite overlying cambrian age sandstone. The dolomite on site is likely Prairie du Chien Formation while the sandstone consists of both Tunnel City and Wonewoc units. The contact between units is gradational and all units appear to be fractured. The dolomite unit pinches out quickly to the south.

Regional groundwater flow on site appears to be generally to the south. However, leachate levels built up on the site appear to have distorted local groundwater flow paths. Locally it appears now that groundwater moves somewhat radially away from the facility and only at some unknown distance from the site do natural flow conditions again prevail.

Physical Conditions of the Site - This site is a municipal refuse landfill that recently ceased operation on May 16, 1988. The site sits on a 40-acre parcel of which approximately 20 acres is filled. In some locations the fill is over 100 feet thick. The total fill volume is approximately 1.3 million cubic yards. Prior to closure the site was operated as a natural attenuation landfill. Because of serious groundwater contamination problems, the state ordered the facility closed on May 16, 1988. In response the operators have closed the site, and are in the process of capping the landfill. Further remedial actions by the operators are being investigated.

Groundwater around the facility is contaminated with heavy metals and volatile organic chemicals. This contamination is attributed to the facility. Also, three private water supply wells are contaminated with volatile organic chemicals. Concern exists over the potential for additional public and private wells in the area to become contaminated. The water supply contamination is suspected of coming from the facility. In addition, concern exists for contamination of Black Earth Creek. The creek is a state class I trout stream. Tributaries to the creek run adjacent to the landfill site and the facility is located in the headwaters area of the creek.

Preliminary results of samples taken from the sedimentation basin and a drainage ditch show contamination of surface water. These results are:

## Sedimentation Basin

# Drainage Ditch

Acetone 220 ug/l 1,2-Dichloroethylene 9 ug/l (estimated) 2-Butanone 290 ug/l Methylene Chloride (estimated) 14 ug/l 1,2-Dichloroethylene (estimated) 11 ug/l Bromoform (estimated) 12 ug/l Toluene (estimated) 9 ug/l

<u>Substances of Concern</u>: Groundwater contamination by volatile organic chemicals are the substances of greatest concern at this time. Maximum concentrations of some of these materials in groundwater are:

		Well
1,1,1-Trichloroethane Trichloroethylene Tetrachloroethylene Vinyl Chloride Trans and Cis 1,2-Dichloroethylene 1,1-Dichloroethane Xylenes Ethyl Benzene	5.8 parts per billion (ppb) 180 ppb 530 ppb 200 ppb 600 ppb 32 480 ppb 95 ppb	P-16S P-8S P-8S P-9S P-9S P-9S P-8D P-8D

In addition, there is heavy metal groundwater contamination present particularly from the substance manganese.

<u>Site Status</u>: The site was closed by state administrative order on May 16, 1988. Remedial actions have been initiated by the site owner. A site inspection will likely be done within the next twelve months.

Negotiation Status: The site operator has been required by the Department to investigate the extent of contamination. Future remedial actions may be required by the Department.

Date Prepared: June 17, 1988.

MS:ct

JUN 28 1988



# **Potential Hazardous Waste Site**

**Preliminary Assessment** 





# **Preliminary Assessment**

# **\$EPA**

## POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION					
	02 SITE NUMBER				
WI	4020190860IM				

II. SITE NAME AND LOCATION					
01 SITE NAME (Legal, common, or descriptive name of site)	10	2 STREE	T, ROUTE NO., OR SP	PECIFIC LOCATION IDENTIFIER	
DEBECK REFUSE HIDEAWAY LANDFI	//	141	WY 14		
O3 CITY	10	4 STATE	05 ZIP CODE 06	COUNTY	07COUNTY 08 CONG
0	1				CODE DIST
MIDDLETON		N.L.	53562	DANE	25 2
09 COORDINATES LATITUDE LONGITUDE			•		
43°05'53".0 089 34 40	2.⊆			r e	
10 DIRECTIONS TO SITE (Starting from nearest public road)			'	A 0	. 4
Take US 14 west from Mades approximately 1.5 miles west	on zh	ough	- Middle	lan, proceed.	west
approximately 1.5 miles west	of mid	de	son to th	e site on the	e north
side of the Righway					
III. RESPONSIBLE PARTIES					
01 OWNER (If known)	10	2 STREE	T (Business, mailing, resid	antinii.	
	1				
John DeBeck		480	18 HWY	06 TELEPHONE NUMBER	
03 CITY					
MIDDLETON	t.	UT	53562	1608 836-328	d and a second
07 OPERATOR (If known and different from owner)			(Business, making, resid		1
	10	SINCE	i (Dustress, Mamng, resid	···········	
SAME AS OWNER					
09 CITY	1	OSTATE	11 ZIP CODE	12 TELEPHONE NUMBER	
	İ			( )	
	1				
13 TYPE OF OWNERSHIP (Check one)			C C STATE	DD COUNTY DE MU	NICIDAL
A. PRIVATE B. FEDERAL:	ency name:		L C. SIAIE	□D.COUNTY □ E. MU	NICIPAL
☐ F. OTHER(Specify)			G. UNKNO	WN	
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)					
	NCONTROLLE	D WAST	E SITE ASSOCIATION	DATE DECEMED 6	1 81 TIC NONE
A RCRA 3001 DATE RECEIVED: MONTH DAY YEAR X B UI	NCONTROLLE	U WASII	E SITE ICENCLA 103 c)	DATE RECEIVED. MONTH D	AY YEAR
IV. CHARACTERIZATION OF POTENTIAL HAZARD					
01 ON SITE INSPECTION BY (Check all that ag	opiy)			***************************************	
X YES DATE 3/8/88 C A. EPA  NO MONTH DAY YEAR C E. LOCAL H	B. EPA C	CONTRA	CTOR A C.	STATE D. OTHER	CONTRACTOR
			F. OTHER.	(Specify)	
weth many previous ingest CONTRACTOR	NAME(S):				
02 SITE STATUS (Check the. 03 YEAR	ARS OF OPERAT	ION			
□ A ACTIVE ★ B INACTIVE □ C UNKNOWN	1	974	1988 AR ENDING YE	. D NKNOM	N
		GINNING YE	AR ENDING YE	AP	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLE	GED .	low.	ieals in e	weline 1,1,1-triell	southane.
1,1-dishlowethare trans and is 1,2	- dello	well	plene, the	Mosthylene	tetracklerest
groundwater contenination by or 1,1-disclorathare, trans and cis 1,2 and rungl chloride has been confi	I a bem	Et wo	susperto	el that organice	contamination
of surplus water may exist. Neal	y privat	te u	rater succe	le an contem	instel pressill
from the landfill.			7		
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND OR POPU				0	
The site represents a curent heya					wels in the
area entluding a class I trout at	near ,	1 he	representa		regard to
those water uses in the area with	to rely o	on g	roudwat	en as their of	renkey water
supply.	0	0		1	0
V. PRIORITY ASSESSMENT				(	
01 PRIORITY FOR INSPECTION (Check one II high or medium is checked complete Pa	n 2 - Waste mformat	tion and Pan	3 Description of Hazardo	ous Conditions and Incidents!	
	LOW		D NONE	есин к ка коло 4 до 15	
(Inspection required promptly) (Inspection required)	(Inspect on time ava	BEAD+6 DASIS		ection needed complete current dispos	tion form:
VI. INFORMATION AVAILABLE FROM				14	
	Agens - Organizatio	.,			03 TELEPHONE NUMBER
MIKE SCHMOLLER W	DNR				(608) 275-3303
04 PERSON RESPONSIBLE FOR ASSESSMENT 05 AGE	ENC *	06 ORGA	NIZATION	07 TELEPHONE NUMBER	OB DATE
MIKE SCHMOLLER WI	DNR	W	DNR	16081275-3303	6 27.88
					MUNIH DAY YEAR

# **\$EPA**

### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

I. ID	ENT	IFICA	TION
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01 STATE 02 SITE NUMBER WID980610604

II WASTES	TATES, QUANTITIES, AN	D CHARACTER	ISTICS				
	TATES (Check all that apply)	02 WASTE QUANT		03 WASTE CHARACT	FRISTICS (Check at that a	inn/s :	
A SOLID E SLURRY B POWDER FINES F LIQUID TONS C SLUDGE G GAS CUBIC YARDS		(Measures of must be TONS _ CUBIC YARDS &	waste quantities independent;	O3 WASTE CHARACTERISTICS (Check all that apply)  X A TOXIC E SOLUBLE X I HIGHLY VOLA  B CORROSIVE F INFECTIOUS J EXPLOSIVE C RADIOACTIVE E G FLAMMABLE K REACTIVE X D PERSISTENT H IGNITABLE L INCOMPATIE M NOT APPLIC		SIVE IVE PATIBLE	
(Specify) NO OF DRUMS		NO OF DRUMS					
III. WASTE T	YPE		*				
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE						
OLW	OILY WASTE						
SOL	SOLVENTS		Un	known	laser at	tackment)	
PSD	PESTICIDES						
осс	OTHER ORGANIC CH	IEMICALS					
юс	INORGANIC CHEMIC	ALS					
ACD	ACIDS						
BAS	BASES						
MES	HEAVY METALS						
IV. HAZARD	OUS SUBSTANCES (See A)	pendix for most frequent	ly cited CAS Numbers)		<u> </u>		
01 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	1,1,1- Trullowe	thane	25323-89-1	Landfill	0	5.8	pob
SOL	1,1- dullorse	4		Landfil	00	32	pph
SOL		ether lene		1 and si	0	600	ppb
SOL	Trisklange the	2000	79-01-6	1 amli	00	180	pob
SOL	Tetra Rlove	+2.2000	127-18-4	1 and 1	:00	530	oob
SOL	vinul all	200		1 1/2:	00	200	peb
SOL	estile len	2 2 2	100-41-4	1 and	1:00	95	oph
SOL	Xulene	9	/330-20-7	1	1:00	480	Reb
SOL	1.7 - Die Re	reetRane		Land	1:00	100	BOB
SOL		llorandh	emo	Land	1:00		pph
MES	Margareso			10.1	1:00		00
	70.00			anay			
	The co	mentre	tion les	tool and	masime		
	concentr	*	sound i	n aroun	elwater	rear the	
	Jaili	Q.		0			
	V	1					
V. FEEDSTO	CKS (See Appendix for CAS Number	751					
CATEGORY	01 FEEDSTOCK		02 CAS NUMBER	CATEGORY	01 FEEDSTO	OCK NAME	02 CAS NUMBER
FDS	11 1			FDS			
FDS	07.501.000	<u>~</u>		FDS	<del>-</del>		
FDS	000			FDS			
FDS				FDS			
	OF INFORMATION (Cate )	pacific references a n	Atale (des. samole engluss :	S 42000F			
Z. DNA	2 Water Supp 2 Solid Waste	Files					
3. USG	2 Sold Waste S 7.5 menut	e topog	rophie mo	ps			

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# POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

1. IDENTIFICATION

01 STATE 02 SITE NUMBER

WID 980610 604

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 MA. GROUNDWATER CONTAMINATION	02 DOBSERVED (DATE: 3/18/87)	□ POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 15,500		0	4 -4
groundwater contamination &	as been confirmed on site	for several	olatis,
VOC' and heavy metals are in	The groundwater in and	around the.	Saulity
The in action to O to mide	The state of the s	· A	-
There is potential for wide a country the aguinge:	as the carte	miranto mig	ale
V	02 GBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
01 🖾 B. SURFACE WATER CONTAMINATION	02 GOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	L ALLEGED
		from The seedin	entation
Tentative analytical results pord and a drawge ditch slow	for samples town of	4	-0
port and a counge after stone	ogane chement container	atten ( see no	nature
sor paraneters and concentrations). 7	the change ditch so in de	rect correct	to-
with Black Eart Creek,			
01 C. CONTAMINATION OF AIR	02 COBSERVED (DATE:)	□ POTENTIAL	ALLEGED
03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		
		*	
none detected to date			
more deterred to date			
01 3 D FIRE/EXPLOSIVE CONDITIONS	02 C OBSERVED (DATE)	POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		
none known on site			
01 VE DIRECT CONTACT	02 C OBSERVED (DATE:	E POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED /20	04 NARRATIVE DESCRIPTION	A POTENTIAL	C ALLEGED
site access is not str	retly controlled that	ugh fene	ing,
potentially individuals a			
	outer warn on site		
- W		V	
01 X F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	M POTENTIAL	C ALLEGED
(Acres)	OF MANAGEME DESCRIPTION		- 1
it is someble - il 7	The shirt of	0 - 10	
	ameranon esses re		1:00
		recow the.	fiel
it is possible soil contains.		ielow the	fiel
area.		retor the	fiel
01 × G DRINKING WATER CONTAMINATION	02 (:: OBSERVED (DATE		Jiel Balleged
01 X G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED. 15,500	02 L: OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	X POTENTIAL	C ALLEGED
01 × G DRINKING WATER CONTAMINATION	02 L: OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	X POTENTIAL	C ALLEGED
01 & G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED. 15,500 groundwater contamination	02 L. OBSERVED (DATE) 04 NARRATIVE DESCRIPTION (as been detected in 3,	X POTENTIAL	C ALLEGED
01 & G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED. 15,500 groundwater contamination	02 : OBSERVED (DATE) 04 NARRATIVE DESCRIPTION  Las been detected in 3,  wee of this contamination	X: POTENTIAL  private well  in . It app	C ALLEGED
01 & G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED. 15,500 groundwater contamination	02 L. OBSERVED (DATE) 04 NARRATIVE DESCRIPTION (as been detected in 3,	X: POTENTIAL  private well  in . It app	C ALLEGED
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01 X G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED. 15,500  groundwater contamination  landfill is the prospected so there is potential for further printe wells around the fair 01 H WORKER EXPOSURE/INJURY	02 - OBSERVED (DATE) 04 NARRATIVE DESCRIPTION  (as been detected in 3,  wee of this contamination  further contamination  Oct.  OBSERVED (DATE)	X: POTENTIAL  private well  in . It appy of additional	Calleged Ds. The sears that public and
01 & G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED. 15,500  groundwater contamination  landfill is the prospected so there is potentially for further private wells around the fair 01 H WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED.	02 - OBSERVED (DATE) 04 NARRATIVE DESCRIPTION  (as been detected in 3,  wee of this contamination  further contamination  Oct.  OBSERVED (DATE)	X: POTENTIAL  private well  in . It appy of additional	Calleged Ds. The sears that public and
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01 & G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED. 15,500  groundwater contamination  landfill to the suspected so  stere is potential for further private used around the fair 01 H WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED.	02 _ OBSERVED (DATE) 04 NARRATIVE DESCRIPTION  Las been detected in 3,  wee of this contamination  further contamination  02 _ OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	X: POTENTIAL  private melo  . It appropriate adultional	E ALLEGED  Os. The  ears that  public and  E ALLEGED
01 & G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED. 15,500  groundwater contamination  landfill is the prospected so there is potentially for further private wells around the fair 01 H WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED.	02 - OBSERVED (DATE) 04 NARRATIVE DESCRIPTION  (as been detected in 3,  wee of this contamination  further contamination  Oct.  OBSERVED (DATE)	X: POTENTIAL  private mel	Calleged Ds. The sears that public and
01 & G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED. 15,500  groundwater contamination  landfill so the puspected so  sleve is potiented for further  private used anomal she fair 01 H WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED.  none brown to date  01 I POPULATION EXPOSURE INJURY	02 _ OBSERVED (DATE) 04 NARRATIVE DESCRIPTION  Les been detected in 3  Les contamination  O2 _ OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	X: POTENTIAL  private melo  . It appropriate adultional	E ALLEGED  Os. The  ears that  public and  E ALLEGED
01 & G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED. 15,500  groundwater contamination  landfill to the puspected so there is potentially for further private used around the fair  01 H WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED.   01 I POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED	02 _ OBSERVED (DATE) 04 NARRATIVE DESCRIPTION  Les been detected in 3  Les contamination  O2 _ OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	X: POTENTIAL  private melo  . It appropriate adultional	E ALLEGED  Os. The  ears that  public and  E ALLEGED
01 & G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED. 15,500  groundwater contamination  landfill so the puspected so  sleve is potiented for further  private used anomal she fair 01 H WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED.  none brown to date  01 I POPULATION EXPOSURE INJURY	02 _ OBSERVED (DATE) 04 NARRATIVE DESCRIPTION  Les been detected in 3  Les contamination  O2 _ OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	X: POTENTIAL  private melo  . It appred adultional	E ALLEGED  Os. The  ears that  public and  E ALLEGED

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# POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDEN	TIFICATION
01 STAT	02 SITE NUMBER
WIT	409 01 908 6 DIW

TAIT OLOGIA TOTO TAI			
H. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
01 🔀 J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE: 5/88 )	D POTENTIAL	ALLEGED
there is dead grass on site fo	m leachate seeps and pa	souble gas -	stress
01 🕱 K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02 C OBSERVED (DATE:)	☑ POTENTIAL	□ ALLEGED
the potential for discharge of .	hayardous substances to trout population in the	the week -	leads to
01 ☐ L CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 G OBSERVED (DATE)	D POTENTIAL	□ ALLEGED
nore expected			
01 🗵 M. UNSTABLE CONTAINMENT OF WASTES	02 - OBSERVED (DATE: 3/18/88 and)	D POTENTIAL	□ ALLEGED
(Spiles: runoff: standing boulds/leaking drums) 03 POPULATION POTENTIALLY AFFECTED: 15,500 (in thee mile			
groundwater myration of wastes documented on site	and levelate seeps ha	ue been	
01 □ N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 G OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
none known			
01 □ 0. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION	02 GOBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
krone known			
01 □ P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02	D POTENTIAL	□ ALLEGED
more known			
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEG	GED HAZARDS		
	en en		
_			
HI. TOTAL POPULATION POTENTIALLY AFFECTED; 15	500		
IV. COMMENTS			
The site appears to represe	It a serious threat	to The	
surface water all grounder			
V. SOURCES OF INFORMATION (Cité apecific references, e.g., state fines, a	sample analysis, reports)		
1. DNR Sobel Waste Files			
2. DNR Water Supply Files			

# POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

#### General Information

The Potential Hazardous Waste Site, Preliminary Assessment form is used to record information necessary to make an initial evaluation of the potential risk posed by a site and to recommend further action.

The Preliminary Assessment form contains three parts:

- Part 1 Site Information and Assessment
- Part 2 Waste Information
- Part 3 Description of Hazardous Conditions and Incidents
- Part 1 Site Information and Assessment contains all of the data elements also contained on the Site Identification form required to add a site to the automated Site Tracking System (STS). It is therefore possible to add a site to STS at the Preliminary Assessment stage. Instructions are given below.
- Part 2 Waste Information and Part 3 Description of Hazardous Conditions and Incidents are used to record specific information about substances, amounts, hazards, and targets, e.g., population potentially affected, that are used in determining the priority for further action. Parts 2 and 3 are also contained in the Potential Hazardous Waste Site, Site Inspection Report form where they may be used to update, add, delete, or correct information supplied on the Preliminary Assessment.

An Appendix with feedstock names and CAS Numbers and the most frequently cited hazardous substances and CAS Numbers is located behind the instructions for the Preliminary sessment.

#### General Instructions

- 1. Complete the Preliminary Assessment form as completely as possible.
- 2. Starred items (\*) are required before assessment information can be added to STS. The system will not accept incomplete assessment information.
- 3. To add a site to STS at the Preliminary Assessment stage, write "New" across the top of the form and complete items II-01, 02, 03, 04, and 06, Site Name and Location, and item III-13, Type of Ownership.
- 4. Data items carried in STS, which are identical to those on the Site Identification form and which can be added, deleted, or changed using the Preliminary Assessment form, are indicated with a pound sign (#). To ensure that the proper action is taken, outline the item(s) to be added, deleted, or changed with a bright color and indicate the proper action with "A" (add), "D" (delete), or "C" (change).
- 5. There are two options available for adding, deleting, or changing information supplied on the Preliminary Assessment form. The first is to use a new Preliminary Assessment form, completing only those items to be added, deleted, or changed. Mark the form clearly, using "A", "D", or "C", to indicate the action to be taken. If only data carried in STS are to be altered, the Site Source Data Report may be used. Using

report, mark clearly the items to be changed and the action to be taken.

#### **Detailed Instructions**

#### Part 1. Site Information and Assessment

- 1. Identification: Identification (State and Site Number) is the site record key, or primary identifier, for the site. Site records in the STS are updated based on Identification. It is essential that State and Site Number are correctly entered on each form.
- \*I-01 State: Enter the two character alpha FIPS code for the state in which the site is located. It must be identical to State on the Site Identification form.
- \*1-02 Site Number: Enter the ten character alphanumeric code for sites which have a Dun and Bradstreet or EPA "user" Dun and Bradstreet number or the ten character numeric GSA identification code for federal sites. The Site Number must be identical to the Site Number on the Site Identification form.
- 11. Site Name and Location: If Site Name and Location information require no additions or changes, these items are not required on the Preliminary Assessment form. However, completing these items will facilitate use of the completed form and records management procedures.
- #II-01 Site Name: Enter the legal, common, or descriptive name of the site.
- #II-02 Site Street: Enter the street address and number (if appropriate) where the site is located. If the precise street address is unavailable for this site, enter brief direction identifier, e.g., NW intersection I-295 & US 99; Post Rd, 5 mi W of Rt. 5.
- #11-03 Site City: Enter the city, town, village, or other municipality in which the site is located. If the site is not located in a municipality, enter the name of the municipality (or place) which is nearest the site or which most easily locates the site.
- #II-04 Site State: Enter the two character alpha FIPS code for the state in which the site is located. The code must be the same as in item I-01.
- #II-05 Site Zip Code: Enter the five character numeric zip code for the postal zone in which the site is located.
- #II-06 Site County: Enter the name of the county, parish (Louisiana), or borough (Alaska) in which the site is located.
- #II-07 County Code: Enter the three character numeric FIPS 'county code for the county, parish, or borough in which the site is located. (The regional data analyst will furnish this data item.)
- #II-08 Site Congressional District: Enter the two character number for the congressional district in which the site is located.
- 11-09 Coordinates: Enter the Coordinates, Latitude and Longitude, of the site in degrees, minutes, seconds and tenths of seconds. If a tenth of a second is insignificant at this site, enter "0".
- II-10 Directions to Site: Starting from the nearest public road, provide narrative directions to the site.

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### Responsible Parties

- #III-01 Site Owner: Enter the name of the owner of the site. The site owner is the person, company, or federal, state, municipal or other public or private entity, who currently holds title to the property on which the site is located.
- #111-02 Site Owner Address: Enter the current complete business, residential, or mailing address at which the owner of the site can be reached.

-05

III.

- III-06 Site Owner Telephone Number: Enter the area code and local telephone number at which the owner of the site can be reached.
- #III-07 Site Operator: If different from Site Owner, enter the name of the operator at the site. The site operator is the person, company, or federal, state, municipal or other public or private entity, who currently, or most recently, is, or was, responsible for operations at the site.
- #III-08 Site Operator Address: Enter the current complete business, residential, or mailing address at which the operator of the site can be reached.

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- III-12 Site Operator Telephone Number: Enter the area code and local telephone number at which the operator of the site can be reached.
- #III-13 Type of Ownership: Check the appropriate box to indicate the type of site ownership. If the site is under the jurisdiction of an activity of the federal government, enter the name of the department, agency, or activity. If Other is indicated, specify the type of ownership and name.
- III-14 Owner/Operator Notification On File: Check the appropriate box(es) to indicate that the notification required by RCRA (3001) and/or CERCLA (103c, Superfund) have been received. If received, enter the date(s) received. Check none if not received.

#### IV Characterization of Potential Hazard

- IV-01 On Site Inspection: Check the appropriate box to indicate that the site has been inspected or visited by EPA, a state or local official, or a contractor representative of EPA or a state or local government. Enter the date of the inspection. Check the appropriate box(es) to indicate who visited the site or performed the inspection. If the site visit was performed by a contractor, enter the name of the company.
- \*IV-02 Site Status: Check the appropriate box(es) to indicate the current status of the site. Active sites are those which treat, store, or dispose of wastes. Check Active for those active sites with an inactive storage or disposal area. Inactive sites are those at which treatment, storage, or disposal activities no longer occur.
- IV-03 Years of Operation: Enter the beginning and ending years (or beginning only if operations at the site are on-going), e.g., 1878/1932, of waste treatment, storage, and/or disposal activities at the site. Check Unknown if the years of operation are not known.
- IV-04 Description of Substances Possibly Present, Known, or Alleged: Provide a narrative description of

hazardous, potentially hazardous, or other substances present, or claimed to be present, at the site.

IV-05 Description of Potential Hazard to Environment and/or Population: Provide a narrative description of the potential hazard the site poses to the environment and to exposed population or wildlife. If no hazard, or potential hazard, exists, provide the basis for that determination.

## V. Priority Assessment

\*V-01 Priority for Inspection: Check the appropriate box to indicate the priority for further action or inspection. If no further action is required, complete the Potential Hazardous Waste Site, Current Disposition form. The Priority for Inspection assessed must be supported by appropriate data in Part 2 — Waste Information and Part 3 — Description of Hazardous Conditions and Incidents of this form. If no hazardous conditions exist, Part 3 is not required.

#### VI. Information Available From

- VI-01 Contact: Enter the name of the individual who can provide information about the site.
- VI-02 Of: If appropriate, enter the name of the Public or private agency, firm, or company and the organization within the agency, firm, or company of the individual named as Contact.
- VI-03 Telephone Number: Enter the area code and local telephone number of the individual named as contact.
- VI-04 Person Responsible for Assessment: Enter the name of the individual who made the site assessment and assigned the priority rating to the site. The person responsible for the assessment may be different from the individual who prepared the form.
- VI-05 Agency: Enter the name of the Agency where the individual who made the assessment is employed.
- VI-06 Organization: Enter the name of the organization within the Agency.
- VI-07 Telephone Number: Enter the area code and local telephone number of the individual who made the assessment.
- VI-08 Date: Enter the date the assessment was made.

### Part 2 Waste Information

- \*I. Identification: Refer to Part 1-1.
- II. Waste States, Quantities, and Characteristics: Waste States, Quantities, and Characteristics provide information about the physical structure and form of the waste, measures of gross amounts at the site, and the hazards posed by the waste, considering acute and chronic health effects and mobility along a pathway.
- \*II-01 Physical States: Check the appropriate box(es) to indicate the state(s) of waste present, or thought to be present, at the site. If Other is indicated, specify the physical state of the waste.
- \*II-02 Waste Quantity at Site: Enter estimates of amounts of waste at the site. Estimates may be in weight (Tons) or volume (Cubic Yards or Number of Drums). Use as many entries as are appropriate; however, measurements must be independent. For

- example, do not measure the same amounts of waste as both tons and cubic yards.
- \*II-03 Waste Characteristics: Check all appropriate entries to indicate the hazards posed by waste at the site. If waste at the site poses no hazard, check Not Applicable.
- Waste Category: General categories of waste typically found are listed here. Enter the estimated gross amount of the category of waste next to the appropriate substance name and enter the unit of measure used with the estimate.
- \*III-01 Gross Amount: Gross Amount is the estimate of the amount of the waste category found at the site. Estimates should be furnished in metric tons (MT), tons (TN), cubic meters (CM), cubic yards (CY), drums (DR), acres (AC), acre feet (AF), liters (LT), or gallons (GA). Enter the estimated amount next to the appropriate waste category.
- \*III-02 Unit of Measure: Enter the appropriate unit of measure: MT (metric tons),TN (tons), CM (cubic meters), CY (cubic yards), DR (number of drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons), next to the estimate of gross amount.
- III-03 Comments: Comments may be used to further explain, or provide additional information, about particular waste categories.
- IV. Hazardous Substances: Specific hazardous, or potentially hazardous, chemicals, mixtures, and substances found at the site are listed here. This information may not be available at the Preliminary Assessment stage. Substances for which information is available are to be listed here. For each substance listed those data items marked with an "at" sign (@) must be included.
- @IV-01 Category: Enter in front of the substance name the three character waste category from Section III which best describes the substance, e.g., OLW (Oily Waste).
- @IV-02 Substance Name: Enter one of the following: the name of the substance registered with the Chemical Abstract Service, the common or accepted abbreviation of the substance, the generic name of the substance, or commercial name of the substance.
- @IV-03 CAS Number. Enter the number assigned to the substance when it was registered with the Chemical Abstract Service. Refer to the Appendix for most frequently cited CAS Numbers. CAS Numbers must be furnished for each substance listed. If a CAS Number for this substance has not been assigned, enter "999".
- @IV-04 Storage/Disposal Method: Enter the type of storage or disposal facility in which the substance was found: SI (surface impoundment, including pits, ponds, and lagoons), PL (pile), DR (drum), TK (tank), LF (landfill), LM (landfarm), OD (open dump).
  - IV-05 Concentration: Enter the concentration of the substance found in samples taken at the site.
  - IV-06 Measure of Concentration: Enter the appropriate unit of measure for the measured concentration of the substance found in the sample, e.g., MG/L, UG/L.

#### V. Feedstocks

- V-01 Feedstock Name: If feedstocks, or substances derived from one or more feedstocks, are present at the site, enter the name of each feedstock found. See the Appendix for the feedstock list.
- V-02 CAS Number: Enter the CAS Number for each feedstock named. See the Appendix for feedstock CAS Numbers.
- VI. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.
- Part 3 Description of Hazardous Conditions and Incidents
- \*I. Identification: Refer to Part 1—I.
- II. Hazardous Conditions and Incidents:
- II-01 Hazards: Indicate each hazardous, or potentially hazardous, condition known, or claimed, to exist at the site.
- 11-02 Observed, Potential, or Alleged: Check Observed and enter the date, or approximate date, of occurrence if a release of contaminants to the environment, or some other hazardous incident, is known to have occurred. In cases of a continuing release, e.g., groundwater contamination, enter the date, or approximate date, the condition first became apparent. If conditions exist for a potential release, check potential. Check Alleged for hazardous, or potentially hazardous, conditions claimed to exist at the site.
- II-03 Population Potentially Affected: For each hazardous condition at the site, enter the number of people potentially affected. For Soil enter the number of acres potentially affected.
- 11-04 Narrative Description: Provide a narrative description, or explanation, of each condition. Include any additional information which further explains the condition.
- 11-05 Description of Any Other Known, Potential, or Alleged Hazards: Provide a narrative description of any other hazardous, or potentially hazardous, conditions at the site not covered above.
- III. Total Population Potentially Affected: Enter the total number of people potentially affected by the existence of hazardous, or potentially hazardous, conditions at the site. Do not sum the numbers shown for each condition.
- IV. Comments: Other information relevant to observed, potential, or alleged hazards may be entered here.
- V. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

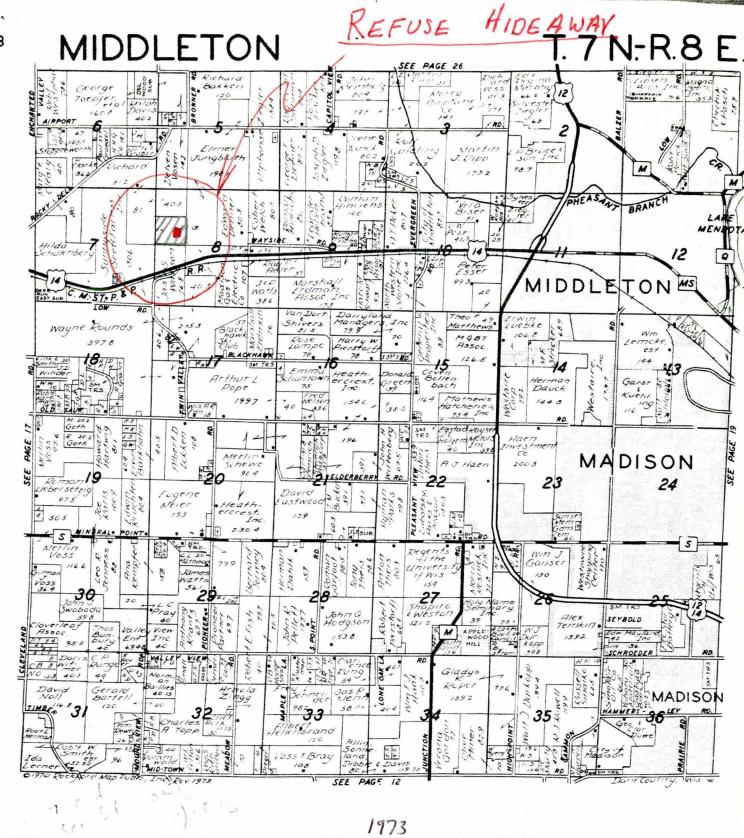
# I. FEEDSTOCKS

CAS Number	Chemical Name	CAS Number	Chamical Name	CAS Number	Chemical Name
1. 7664-41-7	Ammonia	14, 1317-38-0	Cupric Oxide	27. 7778-50-9	Potassium Dichromate
2. 7440-36-0	Antimony	15. 7758-98-7	Cupric Sulfate	28. 1310-58-3	Potessium Hydroxide
3. 1309-64-4	Antimony Trioxide	16. 1317-39-1	Cuprous Oxide	29, 115-07-1	Propylene
4. 7440-38-2	Arsenic	17. 74-85-1	Ethylene	30. 10588-01-9	Sodium Dichromate
5. 1327-53-3	Arsenic Trioxide	18. 7647-01-0	Hydrochloric Acid	31, 1310-73-2	Sodium Hydroxide
6, 21109 <del>-9</del> 5-5	Barium Sulfide	19. 7664-39-3	Hydrogen Fluoride	32. 7646-78-8	Stannic Chloride
7. 7726-95-6	Bromine	20. 1335-25-7	Lead Oxide	33. 7772-99-8	Stannous Chloride
8. 106-99-0	Butadiene	21.7439-97-6	Mercury	34. 7664-93-9	Sulfuric Acid
9. 7440-43-9	Cadmium	22. 74-82-8	Methane	35, 108-88-3	Toluene
10. 7782-50-5	Chlorine	23.91.20-3	Napthalene	36, 1330-20-7	Xviene
11. 12737-27-8	Chromite	23. 91.20-3	Nickel	37. 7646-85-7	Zinc Chloride
			· · · =	38. 7733-02-0	Zinc Sulfate
12. 7440-47-3	Chromium	25. 7697-37-2	Nitric Acid	30. 7733-02-0	2776 0011010
12 7440-49-4	Cohelt	26 7723.14.0	Phosphorus		

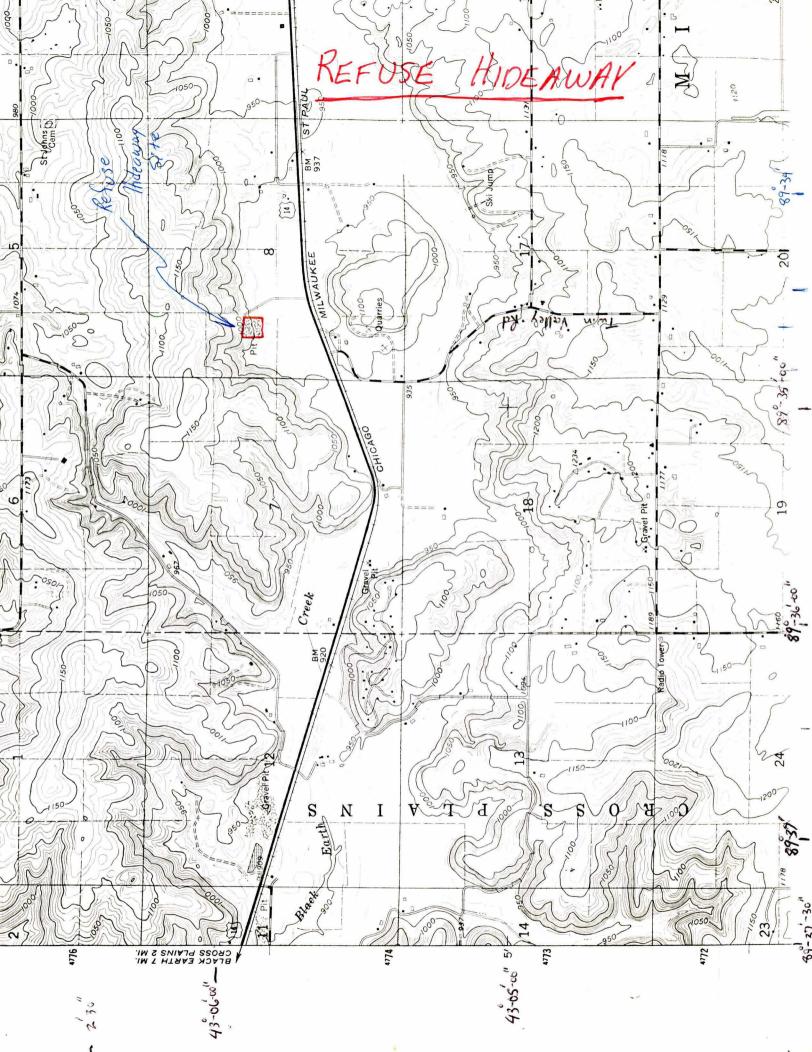
# II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name		CAS Number	Chemical Name	CAS Number	Chemical Name
1. 75-07-0	Acetaldehyde		47. 1303-33-9	Arsenic Trisulfide	92. 142-71-2	Cupric Acetate
2. 64-19-7	Acetic Acid		48. 542-62-1	Barium Cyanide	93. 12002-03-8	Cupric Acetoarsenite
3. 108-24-7	Acetic Anhydride		49. 71-43-2	Benzene	94. 7447-39-4	Cupric Chloride
4. 75-86-5	Acetone Cyanohydrin		50. 65-85-0	Benzoic Acid	95. 3251-23-8	Cupric Nitrate
5. 506-96-7	Acetyl Bromide		51. 100-47-0	Benzonitrile	96. 5893-66-3	Cupric Oxalate
6. 75-36-5	Acetyl Chloride		52. 98-88-4	Benzoyl Chloride	97. 7758-98-7	Cupric Sulfate
7. 107-02-8	Acrolein		53. 100-44-7	Benzyl Chloride	98. 10380-29-7	Cupric Sulfate Ammoniated
8. 107-13-1	Acrylonitrile		54. 7440-41-7	Beryllium	99. 815-82-7	Cupric Tartrate
9. 124-04-9	Adipic Acid		55. 7787-47 <b>-</b> 5	Beryllium Chloride	100, 506-77-4	Cyanogen Chloride
10. 309-00-2	Aldrin		56. 7787 <b>-</b> 49-7	Beryllium Fluoride	101.110-82-7	Cyclohexane
11. 10043-01-3	Aluminum Sulfate		57. 13597 <del>-</del> 99-4	Beryllium Nitrate	102. 94-75-7	2,4-D Acid
12. 107-18-6	Allyl Alcohol		58. 123-86-4	Butyl Acetate	103. 94-11-1	2,4-D Esters
13. 107-05-1	Allyl Chloride		59. 84-74-2	n-Butyl Phthalate	104.50-29-3	DDT
14, 7664-41-7	Ammonia		60. 109-73-9	Butylamine	105. 333-41-5	Diazinon
15. 631-61-8	Ammonium Acetate		61. 107-92-6	Butyric Acid	106. 1918-00-9	Dicamba
16. 1863 <del>-6</del> 3-4	Ammonium Benzoate		62, 543-90-8	Cadimium Acetate	107, 1194-65-6	Dichlobenil
17. 1066-33-7	Ammonium Bicarbonate		63. 7789-42-6	Cadmium Bromide	108. 117-80-6	Dichlone
18. 7789-09-5	Ammonium Bichromate		64. 10108-64-2	Cadmium Chloride	109. 25321-22-6	Dichlorobenzene (all isomers)
19. 1341-49-7	Ammonium Bifluoride		65. 7778 <del>-44</del> -1	Calcium Arsenate	110. 266-38-19-7	Dichloropropane (all isomers)
20. 10192-30-0	Ammonium Bisulfite		66. 52740-16-6	Calcium Arsenite	111. 26952·23-8	Dichloropropene (all isomers)
21. 1111-78-0	Ammonium Carbamate		67. 75-20-7	Calcium Carbide	112.8003-19-8	Dichloropropene-
22. 12125-02-9	Ammonium Chloride		<b>68</b> , 13765-19-0	Calcium Chromate	•	Dichloropropane Mixture
23. 7788-98-9	Ammonium Chromate		69. 592-01-8	Calcium Cyanide	113. 75- <del>9</del> 9-0	2-2-Dichloropropionic Acid
24. 3012-65-5	Ammonium Citrate, Dibasic		70. 26264-06-2	Calcium Dodecylbenzene	114.62-73-7	Dichlorvos
25. 13826-83-0	Ammonium Fluoborate			Sulfonate	115.60-57-1	Dieldrin
26. 12125-01-8	Ammonium Fluoride		71. 7778-54-3	Calcium Hypochlorite	116. 109-89-7	Diethylamine
27. 1336-21-6	Ammonium Hydroxide		72. 133-06-2	Captan	117, 124 <del>-4</del> 0-3	Dimethylamine
28.6009-70-7	Ammonium Oxalate		73. 63-25-2	Carbaryl	118. 251 <del>54-5</del> 4-5	Dinitrobenzene (all isomers)
29, 16919-19-0	Ammonium Silicofluoride		74. 1563-66-2	Carbofuran	119.51-28-5	Dinitrophenol
30. 7773-06-0	Ammonium Sulfamate		75. 75-15-0	Carbon Disulfide	120. 25321-14-6	Dinitrotoluene (all isomers)
31, 12135-76-1	Ammonium Sulfide		<b>76</b> . <b>56</b> -23-5	Carbon Tetrachloride	121.85-00-7	Diquat
32. 10196-04-0	Ammonium Sulfite	İ	77. 67-74-9	Chlordane	122, 298-04-4	Disulfoton
33, 14307-43-8	Ammonium Tartrate		<b>78</b> . 7782-50-5	Chlorine	123, 330-54-1	Diuron
34. 1762-95-4	Ammonium Thiocyanate	.;	<b>79</b> . 108-90-7	Chlorobenzene	124, 27176-87-0	Dodecylbenzenesulfonic Acid
35. 7783-18-8	Ammonium Thiosulfate	1	<b>8</b> 0. <b>6</b> 7- <del>6</del> 6-3	Chloroform	125. 115-29-7	Endosulfan (all isomers)
36. 628-63-7	Amyl Acetate		81. 7790 <del>.9</del> 4-5	Chlorosulfonic Acid	126. 72-20-8	Endrin and Metabolites
37. 62-53-3	Aniline	l	82. 2921-88-2	Chlorpyrifos	127, 106-89-8	Epichlorohydrin
38. 7647-18-9	Antimony Pentachloride		83, 1066-30-4	Chromic Acetate	128.563-12-2	Ethion
39. 7789-61-9	Antimony Tribromide	l	<b>84</b> . 7738- <del>9</del> 4-5	Chromic Acid	129. 100-41-4	Ethyl Benzene
40. 10025-91-9	Antimony Trichloride	l	<b>8</b> 5. 10101-63-8	Chromic Sulfate	130, 107-15-3	Ethylenediamine
41, 7783-56-4	Antimony Trifluoride	l	86. 10049-05-5	Chromous Chloride	131, 106-93-4	Ethylene Dibromide
42. 1309-64-4	Antimony Trioxide	l	87. 544-18-3	Cobaltous Formate	132. 107-06-2	Ethylene Dichloride
43. 1303-32-8	Arsenic Disulfide		88. 14017-41-5	Cobaltous Sulfamate	133.60-00-4	EDTA Ciarra
44. 1303-28-2	Arsenic Pentoxide	1	89.56-72-4	Coumaphos	134. 1185-57-5	Ferric Ammonium Citrate
45. 7784-34-1	Arsenic Trichloride	Ī	90. 1319-77-3	Cresol	135. 2944-87-4	Ferric Ammonium Oxalate
46. 1327-53-3	Arsenic Trioxide	ı	91.4170-30-3	Crotonaldehyde	136. 7705-08-0	Ferric Chloride

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
137. 7783-50-8	Ferric Fluoride	192. 74-89-5	Monomethylamine	249. 7632-00-0	Sodium Nitrate
138, 10421-48-4	Ferric Nitrate	193. 300-76-5	Naled	250.7558-79-4	Sodium Phosphate, Dibasic
39, 10028-22-5	Ferric Sulfate	194. 91-20-3	Naphthalene	251. 7601-54-9	Sodium Phosphate, Tribasic
140. 10045-89-3	Ferrous Ammonium Sulfate	195. 1338-24-5	Naphthenic Acid	<b>25</b> 2. 10102-18-8	Sodium Selenite
141, 7758- <del>94</del> -3	Ferrous Chloride	196. 7440-02-0	Nickel	<b>2</b> 53, 7 <b>78</b> 9-06-2	Strontium Chromate
142, 7720-78-7	Ferrous Sulfate	197. 15699-18-0	Nickel Ammonium Suffate	<b>25</b> 4. 57-24 <del>-9</del>	Strychnine and Salts
143. 206-44-0	Fluoranthene	198. 37211-05-5	Nickel Chloride	<b>25</b> 5, 1 <b>0</b> 0-420-5	Styrene
144.50-00-0	Formaldehyde	199. 12054-48-7	Nickel Hydroxide	256. 12771-08-3	Sulfur Monochloride
145, 64-18-6	Formic Acid	200. 14216-75 <i>-</i> 2	Nickel Nitrate	257. 7664- <del>9</del> 3-9	Sulfuric Acid
146, 110-17-8	Fumaric Acid	201. 7786-81-4	Nickel Sulfate	258. 93-76-5	2,4,5-T Acid
147. 98-01-1	Furfural	202. 7697-37-2	Nitric Acid	259. 2008-46-0	2,4,5-T Amines 2,4,5-T Esters
148.86-50-0	Guthion	203. 98-95-3	Nitrobenzene	260.93-79-8	
149. 76-44-8	Heptachlor	204. 10102-44-0	Nitrogen Dioxide	261. 13560-99-1	2,4,5-T Salts -2,4,5-TP Acid
150. 118-74-1	Hexachiorobenzene	205, 25154-55-6	Nitrophenol (all isomers)	262, 93-72-1 263, 32534-95-5	2,4,5-TP Acid Esters
151. 87-68-3	Hexachlorobutadiene	206. 1321-12-6	Nitrotoluene	264, 72-54-8	TDE
152.67-72-1	Hexachloroethane	207. 30525-89-4	Peraformaldehyde	265, 95-94-3	Tetrachiorobenzene
153. 70-30-4	Hexachlorophene	208. 56-38-2	Parathion Pentachlorobenzene	266. 127-18-4	Tetrechloroethane
154, 77-47-4	Hexachlorocyclopentadiene	209. 608-93-5		267. 78-00-2	Tetraethyl Lead
155. 7647-01-0	Hydrochloric Acid (Hydrogen Chloride)	210. 87-86-5 211. 85-01-8	Pentachiorophenoi Phenanthrene	268, 107-49-3	Tetraethyl Pyrophosphate
156, 7664-39-3	Hydrofluoric Acid		Phenoi	269. 7446-18-6	Thallium (I) Sulfate
150. 7664-55-5	(Hydrogen Fluoride)	212. 108-95-2 213. 75-44-5	Phospene	270, 108-88-3	Toluene
157, 74-90-8	Hydrogen Cyanide	214. 7664-38-2	Phosphoric Acid	271.8001-35-2	Toxaphene
158, 7783-06-4	Hydrogen Sulfide	215. 7723-14-0	Phosphorus	272. 12002-48-1	Trichlorobenzene (all isomers)
159, 78-79-5	Isoprene	216. 10025-87-3	Phosphorus Oxychloride	273.52-68-6	Trichlorfon
160, 42504-46-1	Isopropanolamine	217, 1314-80-3	Phosphorus Pentasulfide	274. 25323-89-1	Trichloroethane (all isomers)
100, 4200 ( 10 )	Dodecylbenzenesulfonate	218. 7719-12-2	Phosphorus Trichloride	275. 79-01-6	Trichloroethylene
161, 115-32-2	Kelthane	219. 7784-41-0	Potassium Arsenate	276. 25167-82-2	
162, 143-50-0	Kepone	220, 10124-50-2	Potassium Arsenite	277. 27323-41-7	Triethanolamine
163.301-04-2	Lead Acetate	221. 7778-50-9	Potassium Bichromate		Dodecylbenzenesulfonate
164.3687-31-8	Lead Arsenate	222.7789-00-6	Potassium Chromate	278. 121-44-8	Triethylamine
165. 7758-95-4	Lead Chloride	223. 7722-64-7	Potassium Permanganate	279. 75-50-3	Trimethylamine
6. 13814-96-5	Lead Fluoborate	224, 2312-35-8	Propargite	280.541-09-3	Uranyl Acetate
67. <b>7783-4</b> 6-2	Lead Fluoride	225. 79-09-4	Propionic Acid	281. 10102-06-4	Uranyl Nitrate
168. 10101-63-0	Lead todide	226. 123-62-6	Propionic Anhydride	282, 1314-62-1	Vanadium Pentoxide
169. 18256-98-9	Lead Nitrate	227, 1336-36-3	Polychlorinated Biphenyls	283. 27774-13-6	•
170.7428-48-0	Lead Stearate	228, 151-50-8	Potassium Cyanide	284 . 108-05-4	Vinyl Acetate
171. 15 <b>739-8</b> 0-7	Lead Sulfate	229. 1310-58-3	Potassium Hydroxide	285. 75-35-4	Vinylidene Chloride
172. 1314-87-0	Lead Sulfide	230. 75-56-9	Propylene Oxide	286. 1300-71-6	Xylenol
173. 592-87-0	Lead Thiocyanate	231. 121-29-9	Pyrethrins	287.557-34-6	Zinc Acetate Zinc Ammonium Chloride
174. 58-89-9	Lindane	232. 91-22-5	Quinoline	288, 52628-25-8 289, 1332-07-6	Zinc Ammonium Chioride Zinc Borate
175. 14307-35-8	Lithium Chromate	233. 108-46-3	Resorcinol	290. 7699-45-8	Zinc Borate Zinc Bromide
176. 121-75-5	Maithion	234. 7446-08-4	Selenium Oxide	291.3486-35-9	Zinc Carbonate
177. 110-16-7	Maleic Acid	235. 7761-88-8	Silver Nitrate Sodium Arsenate	292. 7646-85-7	Zinc Chloride
178, 108-31-6	Maleic Anhydride	236. 7631-89-2 237. 7784-46-5	Sodium Arsenite	293. 557-21-1	Zinc Cyanide
179, 2032-65-7	Mercaptodimethur	238. 10588-01-9	Sodium Bichromate	294. 7783-49-3	Zinc Fluoride
180. 592-04-1	Mercuric Cyanide	239, 1333-83-1	Sodium Bifluoride	295.557-41-5	Zinc Formate
181, 10045-94-0	Mercuric Nitrate	240. 7631-90-5	Sodium Bisulfite	296.7779-86-4	Zinc Hydrosulfite
182.7783-35-9	Mercuric Sulfate	241, 7775-11-3	Sodium Chromate	297. 7779-88-6	Zinc Nitrate
183, 592-85-8	Mercuric Thiocyanate	242, 143-33-9	Sodium Cyanide	298. 127-82-2	Zinc Phenolsulfonate
184, 10415-75-5	Mercurous Nitrate	243. 25155-30-0	Sodium Dodecylbenzene	299, 1314-84-7	Zinc Phosphide
185.72-43-5	Methoxychlor		Sulfonate	300. 16871-71-9	Zinc Silicofluoride
186, 74-93-1	Methyl Mercaptan Methyl Methacrylate	244, 7681-49-4	Sodium Fluoride	301.7733-02-0	Zinc Sulfate
187, 80-62-6 188, 298-00-0	Methyl Parathion	245. 16721-80-5	Sodium Hydrosulfide		Zirconium Nitrate .
189, 7786-34-7	Mevinphos	246. 1310-73-2	Sodium Hydroxide	303. 16923-95-8	Zirconium Potassium Fluoride
190, 315-18-4	Mexacarbate	247. 7681-52-9	Sodium Hypochlorite	304.14644-61-2	Zirconium Sulfate
191. 75-04-7	Monoethylamine	248. 124-41-4	Sodium Methylate	305. 10026-11-6	Zirconium Tetrachloride
.51.75.54			Committee of the commit	•	



# MIDDLETON TOWNSHIP OFFICERS



# Preliminary and Projected HRS PA

This document will help you prepare the Preliminary Assessment and the Preliminary and Projected HRS scores, as required by EPA. As a brief summary, preliminary HRS scores are prepared to determine whether a site will qualify for the National Priority List (NPL) without additional information. The HRS score must be above a 28.5 for a site to be eligible for the NPL. If a site does not score above a 28.5 based on the existing information obtained during the preparation of the Preliminary Assessment, a projected HRS score is developed. A projected HRS score identifies what a site may score if additional information (typically as a result of sampling) is obtained. This is used as a guide to direct future activities and determine which sites, given limited access to sampling and analyses, would be the best to sample first. If the projected HRS score is greater than 28.5, this indicates that additional work should be done in the site inspection stage of the preremedial Superfund program.

When this document is completed, the Preliminary Assessment form must also be completed and sent to the Central Office for review and final submission to EPA as completion of activities identified in our Cooperative Agreement.

SITE NAME DEBECK REFUSE HIDEAUNY LANDE LOCATIONSW 1/4, NW1/4, SEC 8, T.7 N, R8E COUNTY DANE
STREET HWY 14 CITY MIDDLETON ZIPS3562 COUNTY CODE Z5 CONG DIST Z

There are three contamination "routes" or pathways that are evaluated using the Hazard Ranking System scoring method. These are the groundwater route, surface water route, and air route. Each route is evaluated seperately and scored seperately.

PA		
MANUAL	A. GROUNDWATER ROUTE	Pre/Projected
Part 3, II	Monitoring Wells Yes_X_ No Unknown	HRS Score
٠,	Monitoring Wells Contaminated Yes X No Unk	i
(	Private, Public &/or Commercial Wells contaminated Yes No Unk	[ [
Part I, IV	Conteminants detected 1,1,1-triclooothane, 1,1-dislowethane, margar than and in 1,2-des Llowethylene, triplooethylene, tetrachle veryl chaide (partiel list)	
	Background Well available Yes No Unk	į
	Groundwater used for drinking water Yes $\underline{X}$ No $\underline{\hspace{0.5cm}}$	1
***	OBSERVED RELEASE	!   
	An "observed release" is a documented release of hazardous substances to any of the three	i
	routes - groundwater, surface water, air. An observed release occurs when there is	
5	documentation of contamination at levels that are significantly greater than background levels. In most cases, EPA considers an observed release to occur when the contaminant of	Î
	concern is found at a concentration greater than three times background or 10 times the	i
	detection limit for that particular contaminant. In order to have a true observed	1

release, there must be background groundwater quality information within three miles of

the site and good quality sampling and analyses that identify releases to the environment. Typ@ically, there is not enough information from the Preliminary Assessment to determine at this time whether there is an observed release. Additional sampling may be needed to actually document an observed release.

If an observed release, score 45, and continue with the WASTE CHARACTERISTICS Section. If not, continue with ROUTE CHARACTERISTICS

If no known contamination, is there a potential Yes\_\_\_\_ No\_\_

#### ROUTE CHARACTERISTICS

Type of Aquifers

Aquifer of Concern?

(Note: Aquifer of concern is defined as the aquifer that is used by a population for drinking water. If there are interconnected aquifers, consider them as one unit. If there are seperate aquifers, i.e., a continuous layer of confining material between two aquifers within three miles of the site, than consider the aquifers as seperate units. In that case, and more than one aquifer is used as a source of drinking water, complete the information below using the aquifer that will produce the highest score, i.e., the one that is used by the most people.)

Deposit 1	Depth	ft	
Deposit 2	Depth	ft	
Deposit 3	Depth	ft	
Deposit 4	Depth	ft	

Are the aquifers interconneted Yes\_\_\_\_ No\_\_\_ Unknown \_

Depth to Aquifer of Concern

Depth to aquifer of concern is defined as the vertical distance from the lowest point of the hazardous substance to the highest seasonal level of the saturated zone of the aquifer of concern. See Attachment 5-1 of the Site Inspection Manual for more information.

Net Precipitation

(See Attachment 5-3 of the Site Inspection Manual for maps for Normal Annual Total Precipitation and Mean Annual Lake Evaporation. Net Precipitation = Total Precip - Mean Evaporation.)

(See Attachment 3-2 of the Site Inspection Manual for a desription of rock types that fall into these categories.)

***	Physical State
Part 2, II	This refers to the state of the hazardous substance at the time of disposal, and includes gases generated in the disposal area.
	Solid, consolidated or stabilized = 0 Liquid, sludge or gas = 3    Solid unconsolidated or unstabilized = 1    Powder or fine material = 4
#####	SUM ROUTE CHARACTERISTICS (If no observed release)
	Does site geology prevent migration of contaminants to underlying deposits Yes No   Unknown
	(Note: This is very important in preparing the HRS score, and often the most controversial between us and EPA. In most cases in Wisconsin, there are no confining layers that prevent migration of contaminants to underlying deposits. However, EPA does not always support our assertions without proof that the "confining bed" is leaky. Thus, this section should usually be completed as a "no" or "unknown".)
	Does the containment procedures used at the facility prevent the migration of contaminants to underlying aquifers Yes No Unknown  If yes, why
***	CONTAINMENT VALUE
	a. Surface Impoundments:  Sound run-on diversion structure, nonpermeable liner compatible with waste, adequate leachate collection system = 0  Nonpermeable compatible liner with no leachate collection system or inadequate freeboard = 1  Potentially unsound run-in diversion structure or moderately permeable compatible liner = 2  Unsound run-on diversion structure, no liner, or incompatible liner = 3
	b. Containers  Containers sealed and in sound condition, adequate liner, and adequate leachate  collection system = 0  Containers sealed and in sound condition, no liner or mederately permeable liner = 1  Containers leaking, moderately permeable liner = 2  Containers leaking and no liner or incompatible liner = 3
	c. Piles  Piles uncovered and waste stabilized, or piles covered, waste unstabilized, and  essentially nonpermeable liner = 0  Piles uncovered, waste unstabilized, moderately permeable liner, and leachate  collection system = 1  Piles uncovered, waste unstabilized, moderately permeable liner, and no leachate  collection system = 2  Piles uncovered, waste unstabilized, and no liner = 3

(.

#### d. Landfill

Essentailly nonpermeable liner, liner compatible with waste and adequate leachate collection system = 0

Essentially nonpermeable compatible liner, no leachate collection system, landfill surface precludes ponding = 1

Moderately permeable, compatible liner, and landfill surface precludes ponding = 2
No liner or incompatible liner, moderately permeable compatible liner, landfill surface encourages ponding, no run-on control.

#### WASTE CHARACTERISTICS

#### \*\*\* Toxicity and Persistance

Part Use the following matrix for the hazardous substances found at the facility. SubstanceS

2, evaluated: \_\_\_\_\_\_\_\_. Use the

II, substance which scoreS the highest value in this matrix for the substance of concern.

III, IV,

٧

The following matrix must be used. Value for Persistence Value for Toxicity 0 0 0 3 6 9 1 12 2 9 6 1 12 1 15 3

18/18

See Attachment 2-1 of the Site Inspection Manual for some contaminant specific values and for general tables for toxicity and persistence

#### \*\*\* Hazardous Waste Quantity 🖈

Part This includes all hazardous substances at a facility (as received) except that with a 2, II containment value of 0. Don't include amounts of contaminated soil or water. Conversion values are 1 ton = 1 cubic yd = 4 drums. See Attachment 4-3 of the Site Inspection Manual for more conversion values.

Tons/cubic yards	1	<b>HRS Value</b>		Tons/cubic yards	1	<b>HRS Value</b>
0	1	0		251 - 625	1	5
1 - 10	1	1		626 - 1250	1	6
11 - 62	1	2		1251 - 2500	1	7
63 - 125	1	3		>2500	1	8
126 - 250	l	4	* (see	Attachmen	X A	+)

116

#### ##### SUM WASTE CHARACTERISTICS

### GROUNDWATER TARGETS

#### \*\*\* Groundwater Use

Unusable (eg extremely saline aquifer) = 0

Commercial, industrial, irrigation; not used but usable = 1

Drinking water with municipal water from alternate unthreatened sources presently available = 2

Drinking water; no municipal water from alternate source presently available = 3

919

X 3

\*\*\* Distance to Nearest Well/Population served

This distance is measured from the hazardous substance to the nearest well that draws water from the aquifer of concern. Population served is an estimate of the number of persons at a risk - including residents as well as others who use the water regularly sach as workers in factories that live beyond three miles from the site. If aerial photography is used and residents are known to use groundwater, assume 3.8 persons per residence. If groundwater is used for irrigation, convert to population by assuming 1.5 persons per acre of irrigated land. The wells of concern must be within three miles of the hazardous substances, but the population served need not be.

Distance to Nearest Well 1200 Feet (Roberts well)

Estimate of people on groundwater within three miles of the site 15,500

							Po	ор				We	ll v	alue	
Di	sta	and	ce	to	n	earest Wel	Population Served Va	al	_	_	0	1_	2	_ 3	4
		>	3	mi	=	0	0 = 0		0	1	0	0	0	0	0
	2	•	3	Μį	=	1	1 - 100 = 1		1	1	0	4	6	8	10
	1	•	2	mi	=	2	101 - 1000 = 2		2	1	0	8	12	16	20
2000	ft	•	1	mi	=	3	1001 - 3000 = 3		3	1	0	12	18	24	30
	<	20	00	ft	=	4	3001 - 10,000 = 4		4	1	0	16	24	32	35
							>10,000 = 5		5	Ì	0	20	30	35	40

#### ##### SUM GROUNDWATER TARGETS

Part 3

- A. If observed release, multiply 45 by <u>WASTE CHARACTERISTICS</u> Sum by <u>GROUNDWATER TARGETS</u> Sum
- B. If no observed release, multiply <u>ROUTE CHARACTERISTICS</u> sum by <u>CONTAINMENT</u> by <u>WASTE CHARACTERISTICS</u> sum by <u>GROUNDWATER TARGETS</u> Sum

Divide A. or B. by 57,330 and multiply by 100 (If this number divided by 1.73 is greater than 28.5, the site will score greater than 28.5 on the HRS system.)

On the last page is a table for identifying all of the references used to prepare this document. Assign each reference a number. Please indicate what the reference number of the sources used for the above information is here:

Sou	urces	L. é	2.3	 	 	 		 <b>-•</b>
В.	SURFACE	WATER	ROUTE					
11						 	V	 

Have any surface water samples been taken for this site? Yes No \_\_\_ Unk \_\_\_

Is the surface water contaminated? Yes \_\_\_ No \_\_ Unknown X

Types of contamination documented \_\_\_\_\_\_

#### OBSERVED RELEASE

Quantitative evidence of release to surface water must be available that shows the facility is releasing contminants to the surface water. This would include measuring showing elevated contaminant levels downstream from a facility and lower levels of contaminants upstream from a facility.

Is there an observed release of hazardous substances to the surface water? N ○

If yes, score 45 and continue with the WASTE CHARACTERISTICS section If no, continue with the ROUTE CHARACTERISTICS section

If no recorded contamination, is there a potential? Yes X No\_\_\_ Unknown\_\_\_

Contaminants Detected <u>levalue</u> results show acetome (220 ugl)

2-Butanore (290 ugl) Methylere cloude (estimated est 14 ugl) 1/2-Dictionethylere (estimated 11 ugl)

ROUTE CHARACTERISTICS Bromoform (estimated 12 ugl) and toluere (estimated 9 ugl)

Facility Slope and Intervening Terrain

This indicates the ease with which contaminated runoff could enter nearby surface waters.

Terrain average				
slope is < 3% or				Site
site is seperated	Terrain	Terrain	Terrain	is
from water body	average	average	average	in
by areas of higher	slope is	slope is	slope is	surface
elevation.	3% - 5%	5% - 8%	> 8%	water

Facility is a					
closed basin	00	0	0	0	3
Facility average					
slope <3%	00	1	1	22	3
Facility average					
slope 3% - 5%	0	1	(2)	22	3
Facility average			0		
slope is 5% - 8%	0	2	2	3	3
Facility average					
slope is >8%	0	2	3	3	3

1 Year/24 Hour Rainfall

Attachment 5-4 contains a map used to determine this factor. Use the following chart for scoring.

> Amount of Rainfall <1" = 0 Amount of Rainfall 1.0" - 2.0" = 1 Amount of Rainfall 2.1" - 3.0" = 3 Amount of Rainfall >3.0" = 4

		1
	Type of nearby surface water(s)	1
	creek_X stream, and/or river(contuously flowing)	1
	pond, lake, and/or swamp/marsh	1
***	Distance to nearest surface water adjacent feet, Name Black Earth Creek	 
	>2 miles = 0 x 2 =	i
	1 - 2 miles = 1 x 2 =	1
	1000 feet - 1 mile = 2 x 2 =	1,
	< 1000 feet = 3 x 2 = 🕢	6/-
		1,
***	Physical State	_/_/_
	See the procedure and values as assigned for Groundwater Route	10
нинин	OUN DOUTE CHARACTERIOTION	/2/
#####	SUM ROUTE CHARACTERISTICS	1
		i
***	CONTAINMENT	1
		i
	Containment is a measure of the means that have been taken to minimize the likelihood of a	į
	contaminant entering surface waters at the site or beyond the facility boundary.	i i
	a. Surface Impoundments	1
	Sound diking or diversion structure, adequate freeboard, and no erosion evident = 0	1
	Sound diking or diversion structure, but inadequate freeboard = 1	i
	Diking not leaking, but potentially unsound = 2	i
	Diking unsound, leaking or in danger of collapse = 3	i
		i
	b. Containers	Ì
	Containers sealed, in sound condition, and surrounded by sound diversion or containment system = 0	1
	Containers sealed and in sound condition, but not surrounded by sound diversion or containment system = 1	1
	Containers leaking and diversion or containment structures potentially unsound = 2	i
	Containers leaking, and no diversion or containment structures or diversion structures leaking or in danger of collapse	i i
	c. Waste Piles	I I
	Piles are covered and surrounded by sound diversion or containment system = 0	1
	Piles covered, wastes unconsolidated, diversion or containment system not adequate = 1	1
	Piles not covered, wastes unconsolidated, and diversion or containment system	!
	potentially unsound = 2	!
	Piles not covered, wastes unconsolidated and no diversion or containment of diversion	!
	system leaking or in danger of collapse = 3	1
	d. Landfill	i
	Landfill slope precludes runoff, landfill surrounded byu sound diversion system, or	1
	landfill has adequate cover material = 0	1
	Landfill not adequately covered and diversion system not sound =	1
	Landfill not covered and diversion system potentially unsound = 2	1,
	Landfill not covered and no diversion system present or diversion system unsound = 3	<u>/</u> _/_*

#### WASTE CHARACTERISTICS

See **GROUNDWATER ROUTE** for Toxicity and Persistence values

See GROUNDWATER ROUTE for Waste Quantity values

SUM WASTE CHARACTERISTICS scores #####

#### TARGETS

#### Surface Water Use

This determines the use of the surface water within three miles of the facility.

Not currently used = 0 × 3

Commercial and Industrial = 1 X3

Irrigation, economically important reosurces, commercial food preparation or 

#### Distance to a Sensitive Environment

This refers to the distance from the hazardous substance (not the facility boundary) to an area containing an important biological resource or to a fragile natural setting. See Section 3-5 of the Site Inspection Manual for more information.

Assigned Value Distance to Wetlands (5 acre minimum)	=	0 x2	1 x 2	2 x 2	3 x 2
	>2	mi.	1 - 2 mi.	1/2 - 1 mi.	<1/2 mile
Fresh Water	>1	mi.	1/4 - 1 mi.	100 ft - 1/4 mi.	<100 ft.
Distance to Critical Habitat (of endangered species or National		×			1
Wildlife Refuge)	>1	mi.	1/2 - 1 mi.	1/4 - 1/2 mi.	<1/4 mi.

1616

#### Population Served/Distance to Water Intake Downstream

This is used only when there is a population using surface water as drinking water with intakes within three miles of the site or facility. The values are determined by measuring the distance from the probable point of entry to surface water following the surface flow (stream miles). Population includes residents as well as those who regularly use the water. The distance is measured from the hazardous substance including observations in stream or sediment samples regardless of facility boundaries. Use the following table to determine the value for this category. See Section 3-3 of the Site Inspection Manual for more information.

		1 - 4	1/2 - 1	1/4 - 1/2	0 - 1/4
Population		mile	mile	mile	mile
0	1	0	0	0	0
1 - 100	1	9	12	15	18
101 - 1000	1	12	15	18	21
1001 - 3000	1	15	18	21	24
3001 - 10,000	1	18	21	24	27
>10,000	1_	21	24	27	30

# ##### SUM TARGETS

- A. If observed release, multiply 45 by <u>WASTE CHARACTERISTICS</u> Sum by <u>SURFACE WATER TARGETS</u> Sum
- B. If no observed release, multiply <u>ROUTE CHARACTERISTICS</u> sum by <u>CONTAINMENT</u> by <u>WASTE CHARACTERISTICS</u> sum by <u>SURFACE WATER TARGETS</u> Sum

64 350 Divide A. or B. by 57,830 and multiply by 100 12,12. - , 12960 2736 - \*\*
4,25, 20,14

010

On the last page is a table for identifying all of the references used to prepare this document. Assign each reference a number. Please indicate what the reference number of the sources used for the above information is here:

#### C. AIR ROUTE

\*\*\* Observed Release - The only acceptable evidence of release for the air route is data that show levels of a contaminant at or in the vicinity of the facility that significantly Part exeed background levels, regardless of the frequencey of occurrence.

IV

Is there data that show releases of hazardous substances to the environment? Yes\_\_\_\_\_\_
No\_X\_ Unknown \_\_\_\_

If yes, score 45

If no, score 0 and assign a 0 to the entire AIR ROUTE score

When and where was the release observed?

What was the sampling protocol?

### WASTE CHARACTERISTICS

\*\*\* Reactivity and Incompatibility

This measures the potential for sudden release of concentrated air pollutants independently, with the highest value used for this worksheet. See Section 2-1 in the PA Manual for additional information.

Reactivity measures the fir/explosion threat at a facility. The following values should be used:

#### NFPA Level

Materials which are normally stable even under fire exposure conditions and which are not reactive with water = 0

Materials which in themselves are normally stable but which may become unstable at elevated temperatures and pressures or which may reack with water with some release of energy but not violently = 1

Materials which in themselves are normally unstable and readily undergo violent chemical change but do not detonate. This includes materials which can undergo chemical change with rapid release of energy at normal temperatures and pressures or which can undergo violent chemical changes at elevated temperature and pressures. Also includes those materials which may reach violently with water or which may form potentially explosive mixtures with water. = 2

Materials which in themselves are capable of detonation or of explosive decomposition or of explosive reaction but which require a strong initiating source or which must be heated under confinement before initiaion. Includes materials which are sensitive to thermal or mechanical shock at elevated temperatures and pressures or which react explosively with water without requiring heat or confinement = 3

Materials which in themselves are readily capable of detonation or of explosive decomposition or explosive reaction at normal temperatures and pressures. Includes materials which are sensitive to mechanical or localized thermal shock = 3

\*\*\* Incompatibility is a measure of the increased hazard when substances are mised under uncontrolled conditions. See Attachment 2-1 of the PA Manual for tables of incompabitle wastes.

#### \*\*\* Toxicity

This information should be evaluated for the hazardous substances found in the air. The value used for the scoring should be based on the most toxic compound. The tables in Attachment 2-1 of the PA Manual should be used to determine the toxicity value.

Sax Level 0 or NFPA Level 0 = 0
Sax Level 1 or NFPA Level 1 = 1
Sax Level 2 or NFPA Level 2 = 2
Sax Level 3 or NFPA Level 3 or 4 = 3

#### \*\*\* Hazardous Waste Quantity

See GROUNDWATER ROUTE for Waste Quantity values

#### ##### SUM WASTE CHARACTERISTICS

### **TARGETS**

#### \*\*\* Population within four mile radius

This distance is measured from the hazardous substance, not the facility boundary. The population to be counted includes persons residing within the four mile radius as well as transients such as workers in factories, offices, restaurants, motels or students. If aerial photography is used to determine population, assume 3.8 persons per household.

Population	<u> 1 · 4 miles</u>	1/2 - 1 mile	1/4 - 1/2 mile	<u>0 · 1/4 mile</u>
0	0	0	0	0
1 - 100	9	12	15	18
101 - 1000	12	15	18	21
1001 - 3000	15	18	21	24
3001 - 10,000	18	21	24	27
>10,000	21	24	27	30

	1 s		L s <sup>2</sup>	
ring.	Pre	[Proj	Pre	Proj
GROUNDWATER ROUTE Score	73.08	92.31	5340.6	18521.
SURFACE WATER ROUTE Score	4.25	20.14	18.06	405.6
AIR ROUTE Score	D	0	0	0
$s_{gh}^2 + s_{sh}^2 + s_a^2 = \frac{5358}{5358}$	1.75		8	9261
$s_{gu}^2 + s_{su}^2 + s_a^{2)1/2} = 3.$	20			94.4

Preliminary HRS Score 42.3

Projected HRS Score 54,6

Debeck Refuse Hideaway References

- 1. WDNR Solid Waste Files
- 2. WDNR Water Supply Files
- 3. USGS 7.5 Minute Topographic Maps; Black Earth, Cross Plains, Middleton and Springfield Corners Quadrangles.

MS:ps

# Attachment A

This site accepted approximately 1.3 million cubic yards of municipal solid waste. The vast majority of this material was non-hazardous waste such as household refuse. The hazardous substances detected in the environment around the facility were likely inter-mixed with these non-hazardous materials. Consequently it is not possible to accurately define the amount of waste types, hazardous substances, or feedstocks disposed of on-site. Although it is likely that approximately 1,000 cubic yards of asbestos were disposed of on-site.