MOBIL OIL CORPORATION

NEW YORK STATE SUPERFUND PHASE I SUMMARY REPORT

915040

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Prepared By:

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For:

New York State Department of Environmental Conservation 50 Wolf Road Albany, New York 12233-0001

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1.0 Executive Summary

The Mobil Oil Refinery facility is located on Elk Street in the City of Buffalo, and was operational from 1951 to 1981. A three (3) acre swale area located on the seventy-seven (77) acre plant facility was used for the disposal of wastes such as demolition debris, tank sediments, sewer sediments, soils containing asphalt and general refuse. These wastes are believed to have been generated on-site. The quantity of waste is unknown.

Prior to Mobil's ownership of the site, the swale area, created by the redirecting of the Buffalo River, was used by the City of Buffalo for the disposal of an unknown quantity of municipal waste.

Sampling of on-site soils have revealed detectable levels of lead and various moderately toxic organic compounds.

2.0 Site Description

The Mobil Oil site is located in an industrial area adjacent to the Buffalo River. The disposal area occupies approximately three (3) acres of the total 77-acre property owned by Mobil Oil. The site is bounded on the north by a junkyard, on the west by a railroad line and on the south and southeast by the Buffalo River. Access to the area is limited by a locked chain link fence.

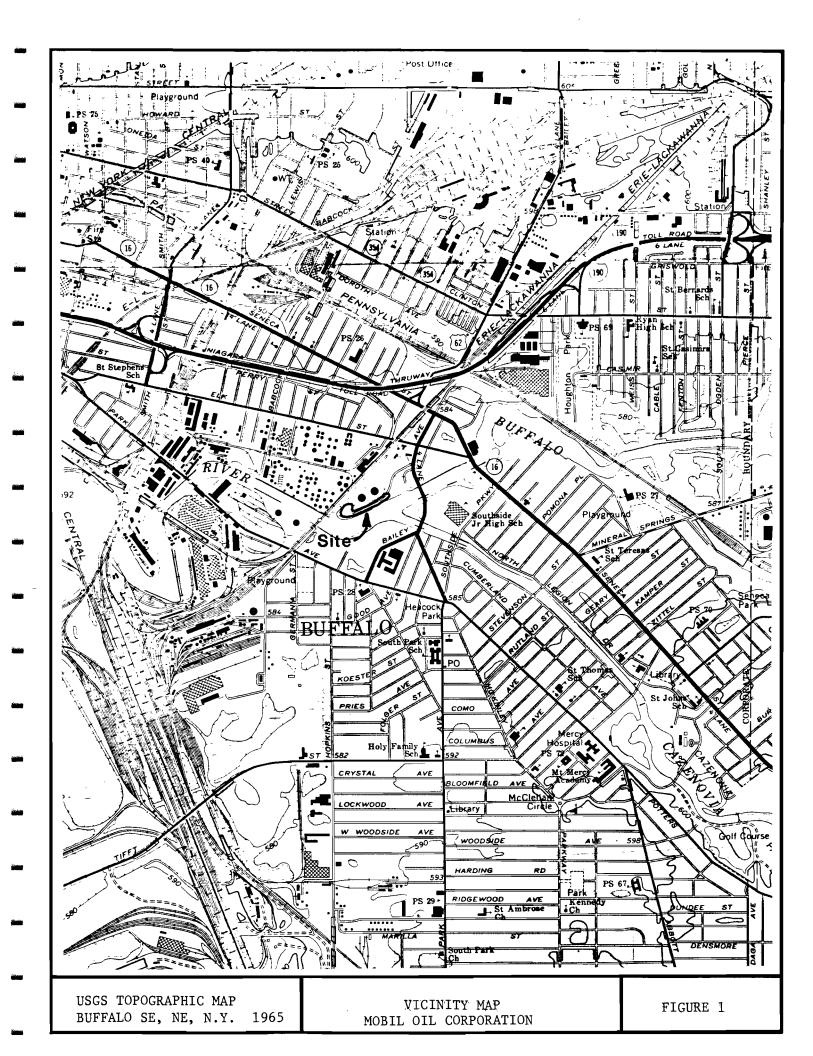
Topography in the general area is flat. Cullet dikes constructed around the two (2) holding tanks adjacent to the Buffalo River are the only surface features present.

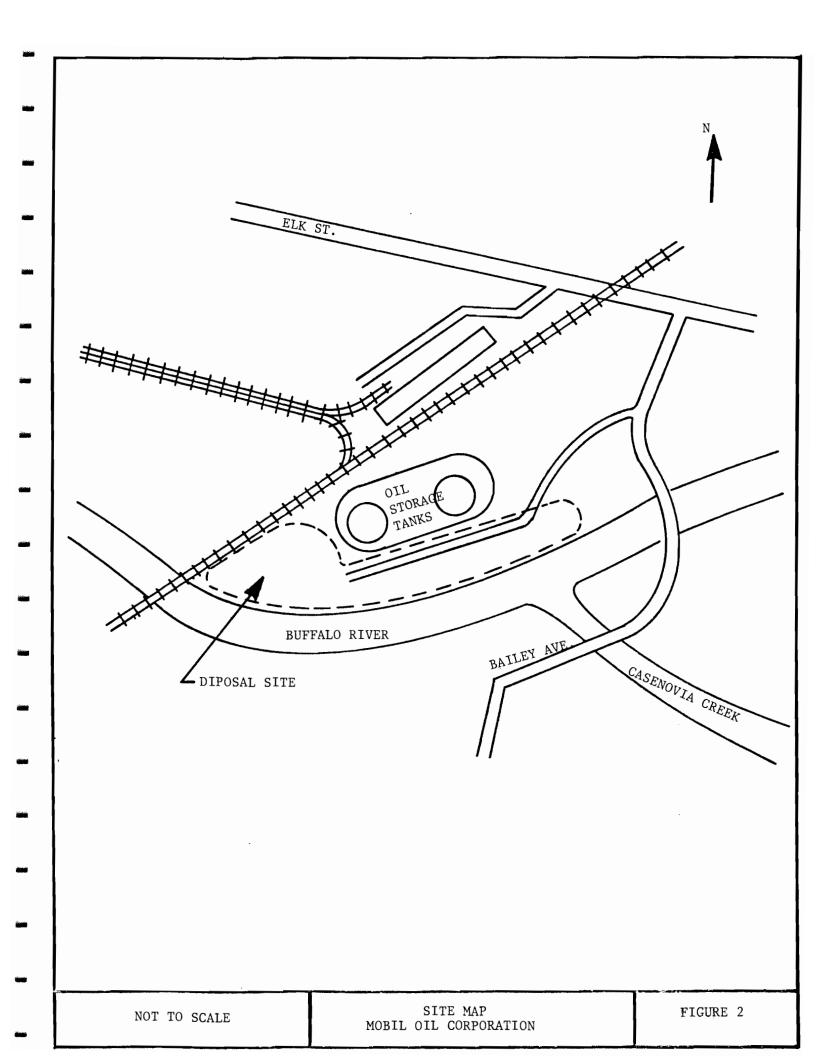
The disposal site is located on the previously filled meander of the Buffalo River (Reference 3). Mobil Oil has filled this area with construction debris and various tank sediments (Reference 4). The disposal site has been capped with cullet to an undetermined depth. The southeast section, which lies adjacent to the Buffalo River, is covered with dirt and what appears to be a black tar-like substance.

Large concrete blocks were observed along the river shoreline. Vegetation such as shrubs, grasses and small trees were observed along the river bank.

Test borings completed in 1982 have indicated the soils to be contaminated with iron, lead, cyclohexane and aliphatic hydrocarbons (Reference

A tar-like substance was observed in two (2) of the subsurface boring 5). holes (Reference 3).





3.0 PRELIMINARY HAZARD RANKING SYSTEM SCORE

Facetty name	Mobil Oil Co	prporation						
Location;	635 Elk St.,	Buffalo, NY 14240						
EPA Region _	9							
Person(s) in an	Person(s) in charge of the facility. Donald McNerney, Terminal Superintenedant							
•		635 Elk St.						
		Buffalo, NY 14240						
Name of Review	Recra Res	search, Inc. 9/6/83						
(For example:	landfill, surface im	poundment, pile, container; types of hazardous substances; location of the ajor concern; types of information needed for rating; agency action, etc.)						
The thre	e (3) acre di	sposalsite was operated by Mobil Oil from 1951						
to 1976,	received sol	id industrial fill, and various tank sediments,						
cracking	and reforming	g catalysts, caustic sludge and general refuse.						
Soil sam	ples indicate	detectable levels of lead cyclohexane and						
allphatic	c hydrocarbon:	5						
Scores: Su = 1	Scores: $S_M = 1.8$ ($S_{gw} = 2.1$ $S_{sw} = 2.4$ $S_a = 0$)							
S _{FE} =		L -5W 2.3 -a U /						
S _{DC} =	41.7	Range 1.8 to 20						

	Ground Water Route Work Sheet									
	Rating Factor		Assigned Va (Circle On		Multi- plier	Score	Max. Score	Ref. (Section)		
1	Observed Release	2	©	45	1	0	45	3.1		
	•		n a score of 45, proce n a score of 0, proce				-			
2	Route Characteris Depth to Aquife		0 (†) 2 3		2	2	6	3.2		
ļ	Net Precipitation Permeability of t Unsaturated Zo	ne	0 ① 2 3 0 1 2 3		1 1	ا 3	3 3			
	Physical State		0 10 2 3		1	1	3			
			Total Route Characte	eristics Score	.	7	15			
3	Containment		0 1 2 3	•	1	3	3	, 3.3		
4	Waste Cnaracteris Toxicity/Persiste Hazardous Waste Quantity	ence	0 3 6 9 1 0 1 2 3	2 15 (B) 4 5 6 7 8	1 1	18	18 8	3.4		
	Í		Total Waste Characte	ristics Score		19	26			
5						11				
[3]	Targets Ground Water Us Distance to Near Well/Population Served	est	0 (1) 2 3 (1) 4 6 8 12 16 18 20 24 30 32 35	10	3	3	9 40	3.5		
			Total Targets	Score		3	49			
		multiply [nultiply [2	1 x 4 x 5 1 x 3 x 4 x	5		1197	57,330			
7	Divide line 6 by	y 57,330 a	nd multiply by 100	:	Sgw=	2.0	29			

FIGURE 2
GROUND WATER ROUTE WORK SHEET



Surface Water Route Work Sheet									
Rating Factor	Rating Factor Assigned Value (Circle One)								
1 Observed Release	() 45	1	0	45	4.1				
-	en a value of 45, proceed to line 4. en a value of 0, proceed to line 2.								
Route Characteristics Facility Slope and Interv	ening (6) 1 2 3	1	0	3	4.2				
1-yr. 24-hr. Rainfall Distance to Nearest Surf Water	0 1 ② 3 ace 0 1 2 ③	1 2	2 6	3 6					
Physical State	0 10 2 3	1	1	3					
	Total Route Characteristics Score		9	15					
3 Containment	0 1 2 3	1	3	3	4.3				
Waste Characteristics Toxicity/Persistence Hazardous Waste Ouantity	0 3 6 9 12 15 (B) 0 11 2 3 4 5 6 7 8	1 1	18	18	4.4				
	Total Waste Characteristics Score		19	26					
5 Targets Surface Water Use	2 2 2	3	3	9	4.5				
Distance to a Sensitive Environment	0 1) 2 3 Ø 1 2 3	2	Ö	6					
Population Served/Distar to Water Intake Downstream	nce } (0	1	0	40					
	Total Targets Score		3	55					
6 If line 1 is 45, multiply If line 1 is 0, multiply	2 x 3 x 4 x 5	1		64,350					
7 Divide line 6 by 64,350	and multiply by 100	s _{sw} =	2.3	7					

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

'			Aır	Rou	te Wor	k She	et	•			
	Rating Factor				d Value One)	•		Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Release	•	0		4	5		1		45	5.1
	Date and Location	ı:							_		
	Sampling Protocol	:							.,		
		-	. Enter on I								
2	Waste Characteris	tics									5.2
ŀ	Reactivity and Incompatibility		0 1	2	3			1		3	
	Toxicity Hazardous Waste		0 1 0 1		3	5 6	7 8	3 1		9 8	
	Quantity		0 1	2		5 0	, ,	•		٠	
		٦	otal Waste	Char	acteris	tics S	core			20	
3	Targets										5.3
	Population Within 4-Mile Radius		} 0 9 21 24					1		30	
	Distance to Sensi	tive	0 1	2	3			2		6	
	Land Use		0 1	2	3			1		3	
	•				•						
			Total	Targ	ets Sc	ore				39	`
4	Multiply 1 x 2] × 3								35,100	
5	Divide line 4 by	y 35,100 a	nd multiply	by 10	00			Sa=	0		

FIGURE 9
AIR ROUTE WORK SHEET

	S	s²
Groundwater Route Score (Sgw)	2.09	4.37
Surface Water Route Score (S _{sw})	2.31	5.71
Air Route Score (Sa)	D	2
$s_{gw}^2 + s_{sw}^2 + s_a^2$		10.08
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		3.17
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		1.84

FIGURE 10 WORKSHEET FOR COMPUTING S_M

Fire and Explosion Work Sheet												
Rating Factor	Assigned Value (Circle One)					Multi- plier	Score	Max. Score	Ref. (Section)			
Containment	1					3			1		3	7.1
2 Waste Characteristics												7.2
Direct Evidence	0			3					1		3	
Ignitability	0	-	_	3					1		3	
Reactivity			2						1		3	
Incompatibility	0		2			_	_	<u>.</u> .	1		3	
Hazardous Waste Quantity		1	2	3	4	5	6	7 8	1		8	
									. 1	<u> </u>		
To	otal Was	te	Cha	rac	teri	stic	s Sc	ore		J	20	
3 Targets												7.3
Distance to Nearest	0	1	2	3	4	5			1		5	
Population				_					_		_	
Distance to Nearest	0	1	2	3					1		3	
Building Distance to Sensitive	0	1	2	2					1		3	
Environment	U	•	2	3					•		3	
Land Use	0	1	2	3					1		3	
Population Within 2-Mile Radius	0	1	2		4	5			1.		5	
Buildings Within 2-Mile Radius	0	1	2	3	4	5			1		5	
			,									
	To	al '	Targ	gets	s S	core	•				24	
4 Multiply 1 x 2 x 3											1,440	
5 Divide line 4 by 1,440 and multiply by 100 SFE - D												

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

		Direct Contact Work Sneet	1			
	Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Incident	0 45	1	0	45	8.1
	If line 1 is 45, proceed to					
2	Accessibility	0 1 ② 3	1	2	3	8.2
3	Containment	0 15	1	15	15	8.3
4	Waste Characteristics Toxicity	0_1 2 3	. 5	15	15	8.4
5	Targets Population Within a 1-Mile Radius	0 1 2 3 4 (5)	4	20	20	8.5
	Distance to a Critical Habitat	(O) 1 2 3	4	0	12	
[6]		Total Targets Score		20	32	·
_	If line 1 is 45, multiply [If line 1 is 0, multiply 2	1 x 4 x 5] x 3 x 4 x 5		9000		
7	Divide line 6 by 21,600 a	nd multiply by 100	s _{DC} -	41.	66	

FIGURE 12
DIRECT CONTACT WORK SHEET

3.1 Documentation Records for Hazard Ranking System

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: Mobil Oil Corp.

LOCATION: 635 Elk St., Buffalo, NY 14240

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

LEAD

IRON

CYCLOHEXANE

ALAPHATIC HYDROCARBONS

(REF 5)

Rationale for attributing the contaminants to the facility:

ANALYSIS OF SOIL SAMPLES

(REF 5)

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

CHONDAGA LIMESTONE & CAMILLYS SHALE

(REF8)

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

UNKNOWN

Depth from the ground surface to the lowest point of waste disposal/ storage:

UNKNOWN

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

Mean annual lake or seasonal evaporation (list months for seasonal):

Net precipitation (subtract the above figures):

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Permeability associated with soil type:

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

NONE

Method with highest score:

3

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated: LEAD, LYCLOHEXALE, ALAPHATIC

HYDROCARBONS

(REF 5)

Compound with highest score:

LEAD 18

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

UNKNOWN

Basis of estimating and/or computing waste quantity:

N/A

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

THE ONLY DOCUMENTED LISE OF GROUNDWATER IS .NDUSTRIAL ENTIRE AREA IS SERVICED BY MUNICIPAL WATER DRAWN FROM LAKE ERIE (REF 8)

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

Distance to above well or building:

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

ALL RECORDED WELL'S ARE USED FOR INDUSTRIAL PURPOSES ONLY

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

NA

Total population served by ground water within a 3-mile radius:

NA

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum): Ho sampling of surface Waters performed

Rationale for attributing the contaminants to the facility:

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Name/description of nearest downslope surface water:

BUFFALO RIVER, CLASS "D" WATER RESOURCE (Ref 10)

Average slope of terrain between facility and above-cited surface water body in percent:

Is the facility located either totally or partially in surface water? \mathcal{N}_{D}

Is the facility completely surrounded by areas of higher elevation? ${\cal N}{\cal O}$

1-Year 24-Hour Rainfall in Inches

2.1 INCHES (REF 12)

Distance to Nearest Downslope Surface Water

LIDFEET (REF. 9)

Physical State of Waste

SOLID (REF4)

3 CONTAINMENT

Containment.

Method(s) of waste or leachate containment evaluated:

NO CONTAINMENT

Method with highest score:

3 No containment

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

LEAD WOLLD

CYCLOHEXANE

ALIAMATIC HYDECGLEDOUS (REP-5)

Compound with highest score:

LEAD

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

UNKNOWIN

Basis of estimating and/or computing waste quantity:

NA

* * *

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

THIS SECTION OF THE BUFFALO RIVER IS RATED AS CLASS D. THESE WATERS ARE SUITABLE FOR SECONDARY CONTACT RECREATION AND WILL NOT SUPPORT THE PROPAGATION OF FISH. (REFID)

Is there tidal influence?

NO

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

NA

Distance to 5-acre (minimum) fresh-water wetland, if I mile or less:

NA

Distance to critical habitat of an endangered species or national wildlife refuge, if I mile or less:

NA

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

NO INTAKES WITHIN 3 MILES

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

NA

Total population served:

NA

Name/description of nearest of above water bodies:

NA

Distance to above-cited intakes, measured in stream miles.

NA

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

NO RECORDS OF INCIDENTS OR POTENTIAL
FOR AIR CONTAMINATION

Date and location of detection of contaminants

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Most incompatible pair of compounds:

To	X	i	c	i	t	y

Most toxic compound:

Hazardous Waste Quantity

Total quantity of hazardous waste:

Basis of estimating and/or computing waste quantity:

* * *

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how det

0 to 4 mi
0 to 1 mi
0 to 1/2 mi
0 to

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles

Distance to 5-acre (minimum) fresh-water wetland, if 1 mi

NA

Distance to critical habitat of an endangered species, if I mile or less:

NA

Land Use

Distance to commercial/industrial area, if I mile or less:

SITE IS LOCATED IN AN URBAN, INDUSTRIAL AREA

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

NA

Distance to residential area, if 2 miles or less:

1300 FEET

Distance to agricultural land in production within past 5 years, if 1 mile or less:

NA

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

NA

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

NO

3.2 EPA Preliminary Assessment (Form 2070-12)

POTENTIAL HAZARDOUS WASTE SITE LIDENTIFICATION							
PRELIMINARY ASSESSMENT PART 1 SITE INFORMATION AND ASSESSMENT							
PART 1 - SITE INFORMATION AND ASSESSMENT							
II. SITE NAME AND LOCATION		02170157.5		6/6/6/6/1			
O1 SITE NAME (Legal common or describes ne ne del site)	ĺ	OZ STRLET, RI	DUTE NO , OR SPE	CIFIC LOCATION IDENTIFIER			
MOBIL OIL CORPORATION		635	ELK	5 T			
03 CITY		04 STATE 05	ZIP CODE OE C	OUNTY	DICOUNTY CE CONG		
BUFFALO		$M \mid I$	1246	ERIE	CODE D.ST		
	ITUDE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	INIU				
L EQUAC							
	· -						
10 DIRECTIONS TO SITE ISlands I'm nearest builde med)							
I-190 SOUTH TO SEVERA STE	PET EXIT. R	16HT A	et yith	514N TO 635 E	IK		
	•	•					
III. RESPONSIBLE PARTIES							
O1 OWNER (# known)](2 STREET IB	smess making resident	14)			
MARIL DIL			ELK	ST			
MOBIL OIL				06 TELEPHONE NUMBER			
TU-CENIA	1	A STATE 05	110116	OF TELEPHONE NUMBER			
BUFFALO		NYI	7240 I	176,827-57\$			
07 OPERATOR (# anown and delerent from owner)		8 STREET (60	Liness, mexing resident				
				•			
O9 CITY		OSTATE 112	IP CODE T	12 TELEPHONE NUMBER	T		
03 0.11	ľ			()			
	·			()			
13 TYPE OF OWNERSHIP (Checa one							
📈 A. PRIVATE 🗆 B FEDERAL:	(Agency name)		LI C. STATE	ED COUNTY E. MU	NICIPAL		
☐ F. OTHER¹(Specdy)			☐ G. UNKNOW	٧			
(Specify) 14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)			-	<u> </u>			
•	T B UNCONTROLLE	D WASTE SIT	FICERCIAIDE	DATE RECEIVED: /	/ EDIC. NONE		
□ A. RCRA 3001 DATE RECEIVED: / / MONTH DAY YEAR			E (CEACES 705 E)	HTMCM D	AY YEAR		
IV. CHARACTERIZATION OF POTENTIAL HAZARD							
	s at that apply)	201721010		7.75 D. D. O.D. (5D.	0017040700		
D YES DATE / / DANS DATE DAY YEAR DELC	OCAL HEALTH OFFIC	CONTRACTO			CONTRACTOR		
□ NO BOTTH DAY YEAR □ E.E.	JOAETHEAETH OF THE	.		(Specify)			
	ACTOR NAME(S):						
02 SITE STATUS (Crece one)	03 YEARS OF OPERAT	TION	1 107/				
A. ACTIVE TO B. INACTIVE C. UNKNOWN		GINNING YEAR	ENDING YEAR	D UNKNOW	N		
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN,		dirtirt3 1EA	ENDING FER				
· ·							
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND	OR POPULATION						
				•			
<i>:</i>							
····				<u></u>			
V. PRIORITY ASSESSMENT							
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, c	ompiete Part 2 - Waste Inform	alion and Part 3 -	Description of Hazaroou	is Conditions and incidents)			
□ A. HIGH □ B. MEDIUM	C. LOW	vailable harmi	D. NONE	cion needed, complete current dispo	Mon formi		
(inspection required promptly) (inspection required)	finabaci on ime s		,	The state of the s			
VI. INFORMATION AVAILABLE FROM	_				I		
01 CONTACT	02 OF (Agency/Organiza				03 TELEPHONE NUMBER		
RICHARD L. CROUCH	RECRA RE	SEGRC	TNC		17161838-6200		
04 PERSON RESPONSIBLE FOR ASSESSMENT.	05 AGENCY	D6 ORGANIZ		OT TELEPHONE NUMBER	C8 DATE		
DANE M. WERNEIWSKI	Recra			()	08,30,83		
DANC MI NUCEUM	1 110000			1	MONTH DAY YEAR		

SEPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

1	TECATION
O1 STATE	DZ SITE NUMBER

"[E INFORMATION	•		
	TATES, QUANTITIES, AN						
A SOLID	DER, FINES L. F. LIQUID TONS DGE LD G GAS		ol waste quahting maependentj	DE CORROSIVE DE FINFECTIOUS DE EXPLOSIVE DE PRADICATIVE DE FINFECTIOUS DE LE REACTIVE DE PLANMABLE DE REACTIVE DE PLANMABLE DE LE REACTIVE DE PLANMABLE DE LE REACTIVE DE LE RECTIVE DE LE REACTIVE DE LE REACTIVE DE LE REACTIVE DE LE REACTIVE DE LE RECTIVE DE LE REACTIVE DE LE			SIVE IVE
L' D OTHER	(Specay)	NO OF DRUMS				D M NOT A	
III. WASTE T	YPE			·			
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	E 03 COMMENTS	_	
SLU	SLUDGE					_	
OLW	OILY WASTE						
SOL	SOLVENTS						
PSD	PESTICIDES		_		-		
occ	OTHER ORGANIC CH	EMICALS					
ЮС	INORGANIC CHEMICA	ALS	-				
ACD	ACIDS				-		
BAS	BASES						
MES	HEAVY METALS						
IV. HAZARDI	OUS SUBSTANCES (500 Ap	pendis for most frequent	ly caed CAS Numbers)	•	<u></u>		
01 CATEGORY	02 SUBSTANCE NA	ME	D3 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	OF MEASURE OF CONCENTRATION
			;				
		-					
_							
	-					<u> </u>	
		_		-	_		
					-		i
!						_	
				-			
		_	1				
V EEEDOTO	CYE	-		_		1	
	CKS (See Appendix for CAS Numbe			CATEGORY	0.555000	254 21115	02.010.1111.000
CATEGORY	D1 FEEDSTOC	KNAME	02 CAS NUMBER	CATEGORY	O1 FEEDST	DCK NAME	02 CAS NUMBER
FD\$			_	FDS			-
FD\$		•		FDS			
FDS				FDS	-		
FDS			L	FDS			
VI. SOURCES	S OF INFORMATION ICA	specific references, e.g.	. State fees, sample analysis,	reports)			· -
					-		

- SEPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

	1. 1	DEN	HEI	CAI	ION
ı	01 5	TATE	02	SITE	NUMBER

PART 3 - DESCRIPTION OF H	AZARDOUS CONDITIONS AND INCIDENTS
II. HAZARDOUS CONDITION'S AND INCIDENTS	
01 G A GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 DOBSERVED (DATE) POTENTIAL DALLEGED
	NATION 13 PRESENT. SOIL SAMPLES ANALYZED
· · · ·	DHERANG + SOVERAL ALAPHATIC HYDROCARBONS. HOWEVER,
	
	ATER, THEREFORE NOT DIRECTLY AFFECTED.
01 C B SURFACE.WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED 710,000	
DUE TO THE PROXIMITY OF THE S	SITE TO THE BUFFALL RIVER & CAZENOVIA CREEK
CONTAMINANTS IN THE SOIL HAVE THE	POTENTIAL TO LEACH INTO SURROUNDING SURFACE WATERS
01 D. C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) POTENTIAL ALLEGED NARRATIVE DESCRIPTION
	•
01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED.	02 OBSERVED (DATE:) DOTENTIAL ALLEGED 04 NARRATIVE DESCRIPTION
01 © E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED	02 OBSERVED (DATE:
01 C F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: (Acres)	02 OBSERVED (DATE 8-29-83) D POTENTIAL D ALLEGED 04 NARRATIVE DESCRIPTION
SAMPLES COLLECTED BY USGS 1	NDICATE HIGH LEVELS OF LEAD, CYCLOHEXANE
AND SEVELAL ALAPHATIC HYDRI	
01 D.G. DRINKING WATER CONTAMINATION	02 OBSERVED (DATE:) DOTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION
	<u> </u>
01 D H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:) D POTENTIAL D ALLEGED 04 NARRATIVE DESCRIPTION
01 TI. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:) D POTENTIAL TO ALLEGED
	04 NARRATIVE DESCRIPTION :
	04 NARRATIVE DESCRIPTION
	04 NARRATIVE DESCRIPTION

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

	IDENT				
01	STATE	02	SITE	NUMBER	

سنن		ZARDOUS CONDITIONS AND INCIDE	NTS	
	II. HAZARDOUS CONDITIONS AND INCIDENTS (Controved)			
	D1 D J DAMAGE TO FLORA D4 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE:) D POTENTIAL	□ ALLEGED
	01 K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02 OBSERVED (DATE:)	D POTENTIAL	☐ ALLEGED
	01 D L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE)	□ POTENTIAL	☐ ALLEGED
	01 D M, UNSTABLE CONTAINMENT OF WASTES	02	□ POTENTIAL	□ ALLEGED
-	(\$5.42/moch slanding lauds/weering diums) 03 POPULATION POTENTIALLY AFFECTED:		_ rotetting	
•	01 D N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
4	01 0 CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs	02 © OBSERVED (DATE:)	□ POTENTIAL	☐ ALLEGED
	04 NARRATIVE DESCRIPTION			
	01 G P. ILLEGALUNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION EVIDENCE of recent building debris observed	02 () OBSERVED (DATE: <u>B-29-83)</u> HUMPING OF HOUSEHOLD OL SITE.	D POTENTIAL D PEPLISE (FUG:	□ ALLEGED
	05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEG	ED HAZARDS		
•				
ŀ	III. TOTAL POPULATION POTENTIALLY AFFECTED:			
		•		
				<u> </u>
	V. SOURCES OF INFORMATION (Cae specific references, e. g., state fies, s	ample analysis, reports)		`
,L				

3.3 EPA Site Inspection Report (Form 2070-13)						
≎EPA		SITE INSPECT	DOUS WASTE SITE FION REPORT DINSPECTION INFORMA	DI STATE	FICATION 02 SITE NUMBER	
II. SITE NAME AND LOCATION						
OI SITE NAME (LOOK COMMON OF OUTCOME)	ore of Last		02 STREET, ROUTE NO., OR SPE 635 ELK ST	CIFIC LOCATION IDENTIFIER		
BUFFALO				ELIE	07COUNTY 08 CONG COOE DIST	
09 COORDINATES	LONGITUDE 4930.0	10 TYPE OF OWNERSH A. PRIVATE F. OTHER	O B. FEDERAL			
III. INSPECTION INFORMATION O1 DATE OF INSPECTION O2 O3 MONTH DAY YEAR	SITE STATUS ACTIVE INACTIVE	03 YEARS OF OPERAT	ION 1976			
O4 AGENCY PERFORMING INSPECTION TO A. EPA	OR	i ama ol temij i ama ol temij	C. MUNICIPAL D. MU	NICIPAL CONTRACTOR	(home of him)	
DIANE M. WER	UEINSKI	OS TITLE	0415T	OT ORGANIZATION PLOTA RESEARCH	08 TELEPHONE NO.	
OP OTHER INSPECTORS MARY PAT BOX		GEDLL	0415T 0415T	11 ORGANIZATION	12 TELEPHONE NO.	
					()	
					()	
					()	
					()	
13 SITE REPRESENTATIVES INTERVIEWED		14 TITLE	15ADDRESS		16 TELEPHONE NO	
					()	
					()	
					()	
				-	()	
		1			1	

17 ACCESS GAINED BY (Check bee)

PERMISSION
WARRANT

18 TIME OF INSPECTION

10:00 Am

19 WEATHER CONDITIONS

Surry, warm

IV. INFORMATION AVAILABLE	FROM
01 CONTACT	

RICHARD L. CROUCH DIANE M. WERNEINSKI

RECRA OS AGENCY RLUA

02 OF IAgency Organization) RESEARCH, INC

07 TELEPHONE NO.

03 TELEPHONE NO.

116 1838-6200

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 2. WASTE INFORMATION

I.	ID	E٨	١T	IF	IC	AT	1ON	ı
								_

01 STATE 02 SITE NUMBER

			PART 2 - WAST	TE INFORMATION	N		
II. WASTES	STATES, QUANTITIES, AN	ND CHARACTER	ISTICS				
	STATES (Check at that apply)	D2 WASTE QUANT		T 03 WASTE CHARACT	TEHISTICS (Check at that a	2 00(≠)	
LA SOLID LI E SLURRY LI B POWDER, FINES LI F. LIOUID LI C SLUDGE LI G. GAS		(Measures of must be TONS -	(Measures of wasta quantities must be independent) TONS CUBIC YARDS		☐ A TOXIC ☐ E SOLUBLE ☐ I HIGHLY VOLATII ☐ B CORROSIVE ☐ F INFECTIOUS ☐ J EXPLOSIVE ☐ C RADIOACTIVE ☐ G FLAMMABLE ☐ K REACTIVE ☐ D PERSISTENT ☐ H IGNITABLE ☐ L INCOMPATIBLE		
LI D. OTHER	(Specify)	NO OF DRUMS					OT APPLICABLE
III. WASTE T	YPE						
CATEGORY	SUBSTANCE N	IAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE						
OLW	OILY WASTE						
SOL	SOLVENTS	·					
PSD	PESTICIDES						
occ	OTHER ORGANIC CH	HEMICALS					
ЮС	INORGANIC CHEMIC	ALS					
ACD	ACIDS						
BAS	BASES						
MES	HEAVY METALS						
IV. HAZARD	OUS SUBSTANCES (See Ap	ppendiz for most frequent	lly cried CAS Numbers)				
01 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE/DISE	POSAL METHOD	05 CONCENTRATIO	ON OF MEASURE OF CONCENTRATION
						-	
			-				
					_		
			 				
			-				
V. FEEDSTO	CKS (See Appendix for CAS Numb	ers)					
CATEGORY	01 FEEDSTOC	K NAME	02 CAS NUMBER	CATEGORY	01 FEEDST	OCK NAME	02 CAS NUMBER
FDS				FDS			
FDS				FDS			
FDS				FDS			
FDS				FDS			
VI. SOURCE	S OF INFORMATION (CR.	specific references, e.g	., state liles, sample analysis.	, reports)		,	
,						`	
							•
4							

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

	ISPECTION REPORT IAZARDOUS CONDITIONS AND INC	CIDENTS -	
IL HAZARDOUS CONDITIONS AND INCIDENTS			
01 A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 710,000 Dota the first account (1) 2 feet	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION ACTI + TANN : NA + TANN	_1 & POTENTIAL present, Soil	alleged Sanples
Dotenbal for groundwater analyzed indicate elevated	wels of Sweral con	taminants. +	towever.
the intere area is perviced			4-1110000
01 D B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 201000	02 OBSERVED (DATE:	_) SEPOTENTIAL	□ ALLEĞED
Due to the proximity of the site contaminants in soil have the	POTENTIAL TO LEGET INTO	b surrounding	SURFACE WATERS.
01 [] C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:)	ALLEGED
01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 GBSERVED (DATE:04 NARRATIVE DESCRIPTION)	□ ALLEGED
01 E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 GBSERVED (DATE: 04 NARRATIVE DESCRIPTION)	□ ALLEGED
01 [] F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: (Acres)	02 M OBSERVED (DATE: 5/83 04 NARRATIVE DESCRIPTION) ☐ POTENTIAL	□ ALLEGED
SAMPLES COLLECTED BY USGS AND SETERAL ALAPHATIC HYDROC	show aevated levals varbous.	OF LEAD, CYCLO	HEXAUE
01 D G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	POTENTIAL	□ ALLEGED
01 H. WORKER EXPOSURE/INJURY O3 WORKERS POTENTIALLY AFFECTED:	02 GBSERVED (DATE: 04 NARRATIVE DESCRIPTION)	□ ALLEGED
01 DI. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:	_) DPOTENTIAL	☐ ALLEGED

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01	STATE	02 SITE	NUMBER

467		SPECTION REPORT AZARDOUS CONDITIONS AND INCIDENTS	O1 STATE 02 S	TE NUMBER
Sicher Si	II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
	01 D J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
	01 D K. DAMAGE TO FAUNA 04 NARRATIVE DESCRÍPTION (Include name(s) of species)	02 OBSERVED (DATE:)	POTENTIAL	□ ALLEGED
	01 D L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE:) [O POTENTIAL	□ ALLEGED
	01 M. UNSTABLE CONTAINMENT OF WASTES (Spits/Runoff: Standing agueds Leaking drums) 03 POPULATION POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:) [04 NARRATIVE DESCRIPTION) POTENTIAL	□ ALLEGED
	01 D N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE:)	POTENTIAL	□ ALLEGED
 	01 O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:	3 POTENTIAL	☐ ALLEGED
	01 D. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION SEVERAL AREAS WERE LOCATED WAR GENERALLY CONFISTING OF OLD FURNIT	HERE ILLEGAL DUMPING HA		
F	05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEC	GED HAZARDS		
*	III TOTAL DODINATION DOTENTIALLY AFFECTED.			
id.	III. TOTAL POPULATION POTENTIALLY AFFECTED:			
	V. SOURCES OF INFORMATION (Cae specific references, e. g., state lies, s	sample enalysis, reports;		
	PA FORM2070-13 (7-81)			

	$-\Delta$

IFICATION

OT STORAGE/DISPOSAL (Chieca arinar apply) OT STORAGE/DISPOSAL (Chieca arinar apply) OT STORAGE/DISPOSAL (Chieca arinar apply) OT SORAGE/DISPOSAL (Chieca arinar apply) OT SUMMS, ABOVE GROUND OT SUMMS, ABOVE GROUND OT CHIECAL OR SUILDINGS ON SITE OT SANK, BELOW GROUND OT SANK, BELOW GROUND OT SANK, BELOW GROUND OT SORAGE/DISPOSAL (Chieca arinar apply) OT SANK, BELOW GROUND OT SANK, BELOW GROUND OT SANK, BELOW GROUND OT SOLVENT RECOVERY OT COMMENTS OT COMMENTS OT COMMENTS OT COMMENTS OT COMMENTS OT COMMENTS OT CONTAINMENT OT CONTAINMENT OT CONTAINMENT OF WASTES (Chieca arin) OT COMMENTS OT C	OI TYPE OF PERMIT ISSUED CARE AMONES	SEPA		SITE INS T AND DE		TION PTIVE INFORMATI	ION	OF STATE OZ SITE NOMBEN
OS DATE ISSUED CORRESTANCE MEMORY A NPOES B. UC C. AIR D. ACRA DE RCRAINTERIN STATUS F. SPCC PLAN LO STATE (Secon) D. TOTHER SECONDOMENTS OS OTHER OS OTHER A SUFFACE IMPOUNDMENT DI STORAGEORISPOSAL (Cross at any second) D. TOTHER SECONDOMENT OF SPCC PLAN A SUFFACE IMPOUNDMENT D. STORAGEORISPOSAL (Cross at any second) D. TOTHER SECONDOMENT D. TOTHE	OT TYPE OF PERMIT ISSUED CORREL STATE (SECRET) OF A NODES OF A N	II. PERMIT INFORMATION	,			····		
□ A. NPDES □ B. UIC □ C. AIR □ D. RCRA □ E. RCRAINTERIM STATUS □ E. SPCCENA □ C. STATE (Spect) □ II. STREE DESCRIPTION □ STORAGEDSPORAL (Cress alman sept) □ J. NONE □ III. STREE DESCRIPTION □ STORAGEDSPORAL (Cress alman sept) □ J. NONE □ D. STORAGEDSPORAL (Cress alman sept) □ J. NONE □ D. STORAGEDSPORAL (Cress alman sept) □ J. NONE □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ D. STORAGEDSPORAL (Cress alman sept) □ C. CRUMB, ABOVE GROUND □ C. CRUMB, ABOVE GROU	□ A. NPDES □ B. UIC □ C. AIR □ D. ACRA □ C. AIR □ D. ACRA □ C. ARR □ D. ACRA MITERIN STATUS □ S. STATE (Separty) □ D. TOTHER (Separty) □ D. TONE □ C. DRUNS, ABOVE GROUND □ D. TANK, BLOW GROUND □ D. TANK, BLOW GROUND □ D. TANK, BLOW GROUND □ D. TOTHER (Separty) □ D. TOTHER (Sep	01 TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE I	SSUED	04 EXPIRATION DATE	05 COMMENTS	
□ B. UIC □ C. AIR □ D. AIR □ D. RORA □ E. RORA INTERIM STATUS □ G. STATE (FROMO) □ H. LOCAL (Reach) □ L. OTHER (Reach) □ L. OTHER (Reach) □ J. NONE □ S. J. NONE □ S. J. NONE □ S. J. NONE □ J. NONE □ S. J. NONE □ J. NONE □ J. NONE □ S. J. NONE □ J. NONE □ J. NONE □ J. NONE □ A. SURPAGE DIPPOUNDMENT □ B. PILES □ C. ORIMAS, ABOVE GROUND □ C. CHEMICAL/PHYSICAL □ D. TANK, ABOVE GROUND □ C. TANK, ABOVE GROUND □ C. TANK, ABOVE GROUND □ C. TANK, ABOVE GROUND □ D. TANK, ABOVE GROUND □ C. TANK, BELOW GROUND □ C. TANK, BELOW GROUND □ D. TANK, ABOVE GROUND □ L. OTHER (SEARCH) □ D. TANK, ABOVE GROUND □ D. TANK, BELOW GROUND □ D. TANK,	B. UIC C. AIR			1				
□ D. RCRA INTERIM STATUS □ E. RCRA INTERIM STATUS □ G. STATE (ROWN): □ H. LOCAL (ROWN): □ L. OTHER (ROWN): □ J. NONE □ STORAGE/DISPOSAL (CONS DIM MEMORY) OZ AMOUNT □ STORAGE/DISPOSAL (CONS DIM MEMORY) □ STORAGE/DISPOSAL (CONS DI	□ D. RCRA INTERIM STATUS □ F. SPCC PLAN □ G. STATE (Sepech) □ H. LOCAL (Sepech) □ J. NONE □ □ A. INCENERATION □ B. PILES □ C. DRUMS, ABOVE GROUND □ D. TANK, BOVE GROUND □ D. TANK, BELOW GROUND □ D. TANK, BELOW GROUND □ C. CHEMICAL/PHYSICAL □ D. BIOLOGICAL □ E. WASTE OIL PROCESSING □ C. DRIMS, SAVE GROUND □ C. CHEMICAL/PHYSICAL □ D. BIOLOGICAL □ E. WASTE OIL PROCESSING □ C. OTHER RECOVERY □ G. OTHER RECOVERY □ H. OTHER □ G. LANDFARM □ H. OTHER □ D. TOTHER (Sepech) □ CONTAINMENT □ CONTAIN							
□ F. SPCC PLAN □ G. STATE (Seach) □ J. NONE □ J. NONE □ J. NONE □ STORAGE/DSPOSAL (Cover at not each) □ S. PILES □ B. PILES □ B. INDERGROUND INJECTION □ C. CHEMICAL/PHYSICAL □ D. DIANK, ABOVE GROUND □ D. TANK, BELOW GROUND □ E. TANK, BELOW GROUND □ G. LANGFAIR □ G. LANGFAIR □ G. LANGFAIR □ G. OTHER RECYCLING/RECOVERY □ H. OTHER □ D. OTHER RECYCLING/RECOVERY □ H. OTHER □ D. INSECURE, UNSOUND, DANGEROUS DI CONTAINMENT DI CONTAINMENT OF WASTES/Cover and source of the cover at the cover a	□ F. RCRA INTERIM STATUS □ G. STATE (South): □ H. LOCAL (South): □ J. OTHER (South): □ J. NONE □ STORAGE/DESPOSAL (Conce as from seephy): □ J. NONE □ STORAGE/DESPOSAL (Conce as from seephy): □ J. NONE □ A. SURFACE IMPOUNDMENT □ B. PILES □ □ A. INCENERATION □ C. CHEMICAL/PHYSICAL □ D. BIULOGICAL □ C. CHEMICAL/PHYSICAL □ D. BIULOGICAL □ D. BIULOGICA	C. AIR						
STATE (SOCK)	STATE (SSEACH)							
G. STATE (South)	G. STATE (South) III. LOCAL (South) III. SITE DESCRIPTION OI STORAGEOISPOSAL (Check at mits apphy) OI D. TANK, RELOW GROUND OI D. TANK, REDUW GROUND OI D. BIOLOGICAL OI D. BIOLOGICA	E. RCRA INTERIM STATUS						
H. LOCAL_(Sourch)	H. LOCAL_(Seech)	☐ F. SPCC PLAN						
H. LOCAL_(Sourch)	H. LOCAL_(Seech)	☐ G. STATE (Specify)						
□ I. OTHER (Speedy) □ J. NONE □ II. SITE DESCRIPTION OI STORAGEDISPOSAL (concer all rise ready) □ S. SURFACE IMPOUNDMENT □ B. PILES □ C. DRIMS, ABOVE GROUND □ I. TANK, ABOVE GROUND □ E. TANK, BELOW GROUND □ E. TANK, BELOW GROUND □ E. TANK, BELOW GROUND □ I. TANK, BELOW GROUND □ I. TOTHER □ I. OTHER (Speedy) OF COMMENTS OF COMMENTS OF CONTAINMENT OI CONTAINMENT OI CONTAINMENT OI CONTAINMENT OI CONTAINMENT OI CONTAINMENT, DIKING, LINERS, BARRIERS, ETC.	□ I. OTHER (Species) □ J. NONE □ II. SITE DESCRIPTION OI STORAGE DISPOSAL, (Chees at min seph) OI STORAGE DISPOSAL, (Chees at min seph) OI A. SURFACE IMPOUNDMENT □ A. SURFACE IMPOUNDMENT □ B. PILES □ D. BUNDERGROUND INJECTION □ C. DRUMS, ABOVE GROUND □ D. TANK, ABOVE GROUND □ L. TANK, BELOW GROUND □ E. TANK, BELOW GROUND □ E. TANK, BELOW GROUND □ F. SOLVENT RECOVERY □ G. OTHER RECYCLING/RECOVERY □ H. OTHER (Specify) OF COMMENTS OF COMMENTS OF CONTAINMENT OI CONTAINMENT OI CONTAINMENT OI CONTAINMENT OI CONTAINMENT OI CONTAINMENT DISPOSALE. □ B. MODERATE OI CONTAINMENT OI WASTE EASILY ACCESSIBLE: □ YES □ NO							
J. NONE III. SITE DESCRIPTION III. SITE DESCRIPTION O3 UNIT OF MEASURE O4 TREATMENT (CHARLE & IAM 40097) O5 OTHER A. SURFACE IMPOUNDMENT A. INCENERATION B. UNDERGROUND INJECTION A. BUILDINGS ON SITE C. DRIUMS, ABOVE GROUND D. TRAIN, ABOVE GROUND D. D. BIOLOGIGAL E. TANK, BELOW GROUND F. SOLVENT RECOVERY G. OTHER RECYCLING/RECOVERY H. OTHER G. LANDFARM G. OTHER RECYCLING/RECOVERY H. OTHER D. TOTHER (Specify) D. TOTHER (Specify) D. TOTHER C. SOLVENT SECURE B. MODERATE C. INADEQUATE, POOR D. INSECURE, UNSOUND, DANGEROUS D. SOLVENTAINMENT D. CONTAINMENT	J. NONE							
III. SITE DESCRIPTION 01 STORAGE/DISPOSAL (Fines at that septy) 02 AMOUNT 03 UNIT OF MEASURE 04 A. RURFACE IMPOUNDMENT 05 B. PILES 06 B. UNDERGROUND INJECTION 07 C. CHEMICAL/PHYSICAL 08 B. UNDERGROUND INJECTION 09 B. UNDERGROUND 09 B. UNDERGR	III. SITE DESCRIPTION 01 STORAGE/DISPOSAL (Check at Inna apphy) 02 AMOUNT 03 UNIT OF MEASURE 0 A. RINGENERATION 0 B. PILES 0 C. CHEMICAL/PHYSICAL 0 D. BUNDERGROUND 0 D. GO AREA OF SITE 0 C. CHEMICAL/PHYSICAL 0 D. BUNDERGROUND 0 D. GO AREA OF SITE 0 C. CHEMICAL/PHYSICAL 0 D. BUNDERGROUND 0 D. GO AREA OF SITE 0 C. CHEMICAL/PHYSICAL 0 D. BUNDERGROUND 0 D. GO AREA OF SITE 0 C. CHEMICAL/PHYSICAL 0 D. BUNDERGROUND 0 D. GO AREA OF SITE 0 C. CHEMICAL/PHYSICAL 0 D. BUNDERGROUND 0 D. GO AREA OF SITE 0 C. CHEMICAL/PHYSICAL 0 D. BUNDERGROUND 0 D. GO AREA OF SITE 0 C. CHEMICAL/PHYSICAL 0 D. BUNDERGROUND 0 D. GO AREA OF SITE 0 C. CHEMICAL/PHYSICAL 0 D. BUNDERGROUND 0 D. GO AREA OF SITE 0 C. CHEMICAL/PHYSICAL 0 D. BUNDERGROUND 0 D. GO AREA OF SITE 0 C. CHEMICAL/PHYSICAL 0 D. BUNDERGROUND 0 D. GO AREA OF SITE 0							
A. SURFACE IMPOUNDMENT	A. SURFACE IMPOUNDMENT		<u> </u>					
B. PILES	B. PILES	01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT 03 UNIT (OF MEASURE	04 TF	REATMENT (Check at that a	וליסכ	05 OTHER
B. PILES	B. PILES	A. SURFACE IMPOUNDMENT				INCENERATION		
D. TANK, ABOVE GROUND D. BIOLOGICAL D. BIOLOGICAL D. BIOLOGICAL D. BIOLOGICAL D. MASTE GU PROCESSING D. F. SOLVENT RECOVERY D. G. OTHER RECYCLING/RECOVERY D. H. OTHER (Specify) D. COMMENTS D. CONTAINMENT D. CONTAINMENT D. CONTAINMENT D. A ADEQUATE, SECURE D. B. MODERATE C. INADEQUATE, POOR D. INSECURE, UNSOUND, DANGEROUS D. D. INSECURE, UNSOUND, DANGEROUS D. D. INSECURE, UNSOUND, DANGEROUS D. WASTE EASILY ACCESSIBLE: D. O'COMMENTS D. O'COMMENTS D. O'COMMENTS D. D. INSECURE, UNSOUND, DANGEROUS D. O'COMMENTS D. D. INSECURE, UNSOUND, DANGEROUS D. O'COMMENTS D.	D. TANK, ABOVE GROUND E. TANK, BELOW GROUND M. F. LANDFARM H. OPEN DUMP I. OTHER Soechy) D. BIOLOGICAL E. WASTE OIL PROCESSING G. AREA OF SITE OF COMMENTS OF CONTAINMENT OT						CTION	A. BUILDINGS ON SITE
C. TANK, BELOW GROUND C. WASTE OIL PROCESSING F. SOLVENT RECOVERY G. OTHER RECYCLING/RECOVERY G. OTHER G. OTHER RECYCLING/RECOVERY G. OTHER RE	E. MASTE OIL PROCESSING G. AREA OF SITE	C. DRUMS, ABOVE GROUND			1			
F. SOLVENT RECOVERY G. OTHER RECYCLING/RECOVERY G. OTHER RECYCLING/RECOVERY G. OTHER RECYCLING/RECOVERY G. OTHER RECYCLING/RECOVERY H. OTHER G. OTHER	F. SOLVENT RECOVERY G. OTHER RECYCLING/RECOVERY G. OTHER RECYCLING/RECOVERY H. OTHER G. OTHER RECYCLING/RECOVERY G. OTHER RECY	☐ D. TANK, ABOVE GROUND			□ D.	BIOLOGICAL		
G. CONTERRECYCLING/RECOVERY H. OPEN DUMP LI OTHER (Specify) D7 COMMENTS IV. CONTAINMENT D1 CONTAINMENT OF WASTES/Check one) A. ADEQUATE, SECURE B. MODERATE D2 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC. IV. ACCESSIBILITY O1 WASTEEASILY ACCESSIBLE: V. ACCESSIBILITY O1 WASTEEASILY ACCESSIBLE: VESTIVE ON OO	G. OTHER RECYCLING/RECOVERY II. OTHER Specify D7 COMMENTS G. OTHER RECYCLING/RECOVERY H. OTHER (Specify) OTHER (Specify) OTHER (S				□ E.	WASTE OIL PROCESS	SING	06 AREA OF SITE
U. OTHER	H. OTHER (Specify)	• •			□ F.	SOLVENT RECOVERY	1	1
OT COMMENTS V. CONTAINMENT OT CONTAINMENT OF WASTES (Check one) A. ADEQUATE, SECURE B. MODERATE C. INADEQUATE, POOR D. INSECURE, UNSOUND, DANGEROUS DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC. V. ACCESSIBILITY OT WASTE EASILY ACCESSIBLE: YES NO OZ COMMENTS	OF COMMENTS IV. CONTAINMENT IT CONTAINMENT IT CONTAINMENT B. MODERATE A. ADEQUATE, SECURE B. MODERATE DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC. V. ACCESSIBILITY O1 WASTEEASILY ACCESSIBLE: YES NO O2 COMMENTS				□ G .	OTHER RECYCLING/	RECOVERY	
IV. CONTAINMENT DI CONTAINMENT DI CONTAINMENT DI	(Specty) IV. CONTAINMENT DI CONTAINMENT DI CONTAINMENT DI CONTAINMENT OF WASTES/CANCE ORD) A. ADEQUATE, SECURE B. MODERATE C. INADEQUATE, POOR D. INSECURE, UNSOUND, DANGER DI DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC. V. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE: YES NO O2 COMMENTS				□ H.	OTHER	cahu)	
IV. CONTAINMENT DI CONTAINMENT OF WASTES (Check one) A. ADEQUATE, SECURE B. MODERATE C. INADEQUATE, POOR D. INSECURE, UNSOUND, DANGEROUS DZ DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC. V. ACCESSIBILITY 01 WASTE EASILY ACCESSIBLE: YES NO	IV. CONTAINMENT DI CONTAINMENT OF WASTES (Check one) A. ADEQUATE, SECURE B. MODERATE C. INADEQUATE, POOR D. INSECURE, UNSOUND, DANGER DZ DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC. V. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE: YES NO	I. OTHER				10,00	,,	
O1 CONTAINMENT OF WASTES (Check one) A. ADEQUATE, SECURE B. MODERATE C. INADEQUATE, POOR D. INSECURE, UNSOUND, DANGEROUS D2 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC. V. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE: YES NO O2 COMMENTS	O2 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC. V. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE: YES NO							
O1 CONTAINMENT OF WASTES (Check one) A. ADEQUATE, SECURE B. MODERATE C. INADEQUATE, POOR D. INSECURE, UNSOUND, DANGEROUS D2 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC. V. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE: YES NO O2 COMMENTS	O1 CONTAINMENT OF WASTES (Check one) A. ADEQUATE, SECURE B. MODERATE C. INADEQUATE, POOR D. INSECURE, UNSOUND, DANGER D2 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC. V. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE: YES NO O2 COMMENTS	IV CONTAINMENT						
V. ACCESSIBILITY 01 WASTE EASILY ACCESSIBLE: YES NO 02 COMMENTS	V. ACCESSIBILITY 01 WASTE EASILY ACCESSIBLE: YES NO 02 COMMENTS							
V. ACCESSIBILITY 01 WASTE EASILY ACCESSIBLE: YES NO 02 COMMENTS	V. ACCESSIBILITY 01 WASTE EASILY ACCESSIBLE: YES NO 02 COMMENTS	A. ADEQUATE, SECURE	☐ B. MODERATE	C. II	NADEQU	JATE, POOR	D. INSECU	URE, UNSOUND, DANGEROUS
01 WASTE EASILY ACCESSIBLE: YES NO 02 COMMENTS	01 WASTE EASILY ACCESSIBLE: YES NO 02 COMMENTS	D2 DESCRIPTION OF DRUMS, DIKING, LINERS,	BARRIERS, ETC.					
01 WASTE EASILY ACCESSIBLE: YES NO 02 COMMENTS	01 WASTE EASILY ACCESSIBLE: YES NO 02 COMMENTS							
02 COMMENTS	02 COMMENTS	V. ACCESSIBILITY						
VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)	VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample snaysis, reports)		is 🗆 NO					
VI. SOURCES OF INFORMATION Icas abscirc relevances, by state rest, sample anarysis, reports)	VI. SOURCES OF THE ORIMATION Time specific retainences, V.D. state mes, sample analysis, reports)	VI SOURCES OF INFORMATION (C.)		nois an Music Con				
••		11. SOURCES OF INFORMATION ICH	specific reterences, e.g. \$1819 tires, \$870	при влагуза, гер	U(13)			
··								
								•

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT I. IDENTIFICATION O1 STATE 02 SITE NUMBER									
	PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA								
	II. DRINKING WATER SUPPLY								
	01 TYPE OF DRINKING SUPPLY (Crieck as applicable)		02 STATUS				o	3 DISTANCE TO SITE	
	SURFACE COMMUNITY A.X NON-COMMUNITY C. []	WELL B. 🗆	ENDANGER A. □	8	CTED	MONITORED C. 🗆	A(mi)		
1		D. 🗆	D. 🗆		. 🗆	F. 🗆	8	(mi)	
	O1 GROUNDWATER USE IN VICINITY (Check one) D A ONLY SOURCE FOR DRINKING (Other sources evaluable) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources evaluable) COMMERCIAL, IRRIGATION (No other water sources evaluable)								
bec.e	02 POPULATION SERVED BY GROUND WATE	ER		03 DISTANO	E TO NEARE	ST DRINKING WATER V	/ELL	(mi)	
	04 DEPTH TO GROUNDWATER	05 DIRECTION OF GRO	UNDWATER FLOW	06 DEPTH TO		07 POTENTIAL YIEL	D	D8 SOLE SOURCE AQUIFE	ER
1	(ft)	-			(ft)		(gpd)	□ YES □ NO	·
	09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)								
	10 RECHARGE AREA			11 DISCHAR	GE AREA				
### C	COMMENTS			□ YES	COMMENT	rs			
	IV. SURFACE WATER						_		
	O1 SURFACE WATER USE (Check one) CI A. RESERVOIR, RECREATION DRINKING WATER SOURCE		I, ECONOMICALLY TRESOURCES	Å c. 0	COMMERCIA	AL, INDUSTRIAL	01	D. NOT CURRENTLY USE	ED
	02 AFFECTED/POTENTIALLY AFFECTED BOIL NAME:	DIES OF WATER				AFFECTED		DISTANCE TO SITE	
Ť	14140E								
este.									(mi) (mi)
Social Control									(mi)
Ī	V. DEMOGRAPHIC AND PROPERTY	INFORMATION							\neg
Į,	01 TOTAL POPULATION WITHIN				02	DISTANCE TO NEARE	ST POPL	JLATION	
Ť	ONE (1) MILE OF SITE TWO A. 10,000 NO. OF PERSONS B.	NO. OF PERSONS	C	O. OF PERSONS	_			(mi)	
	3 NUMBER OF BUILDINGS WITHIN TWO (2) A	AILES OF SITE		04 DISTANC	E TO NEARES	T OFF-SITE BUILDING			
Ť							(mi)	ŀ
	S POPULATION WITHIN VICINITY OF SITE (PA	ovide narrative description of n	ature of population within t	ricinity of site, e.g	7., rural, vikage, t	tensety populated urban are	•)		
C 18									

PA FORM 2070-13 (7-81)

I. IDENTIFICATION

≎ EPA	SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA						
VI. ENVIRONMENTAL INFORMA							
01 PERMEABILITY OF UNSATURATED 2		•)					
□ A. 10 ⁻⁶ 10 ⁻	-8 cm/sec	□ B. 10 ⁻⁴ 10 ⁻⁶ cm/sec □	C. 10 ⁻⁴ – 10 ⁻³ cm	n/sec D. GREATE	NAHT F	10 ⁻³ cm/sec	
02 PERMEABILITY OF BEDROCK (Check	one)						
A. IMPERM	AEABLE 10 ⁻⁶ cm/sec)	B. RELATIVELY IMPERMEAB	LE C. RELATIVEI (10 ⁻² - 10 ⁻	LY PERMEABLE [] [** cm/sec)		PERMEABLE man 10 ⁻² cm sec)	
03 DEPTH TO BEDROCK	04 DEPTH C	F CONTAMINATED SOIL ZONE	05 SOIL ph	+			
(ft)		(#)					
06 NET PRECIPITATION	07 ONE YEA	R 24 HOUR RAINFALL	08 SLOPE SITE SLOPE	- DIRECTION OF SITE	SI ODE	TERRAIN AVERAGE SLOPE	
(in)		(in)	317E SLOFE	DIRECTION OF SITE	SLOPE		
09 FLOOD POTENTIAL	L	10					
SITE IS IN 100 YEAR FLO	ODPLAIN	☐ SITE IS ON BARRI	ER ISLAND, COASTA	L HIGH HAZARD AREA	, RIVER	INE FLOODWAY	
11 DISTANCE TO WETLANDS (5 acre miner	ium)		12 DISTANCE TO CRIT	ICAL HABITAT (of endanger	ed species		
ESTUARINE		OTHER				_ (mi)	
A(mi)	В	(mi)	ENDANGERE	D SPECIES:			
13 LAND USE IN VICINITY							
DISTANCE TO: COMMERCIAL/INDUSTR	iAL	RESIDENTIAL AREAS; NATION FORESTS, OR WILDLIF	E RESERVES	AGR PRIME AG LA		RAL LANDS AG LAND	
A(mi)		в. <u>7.2</u>	(mi)	C	(mi)	D(mi)	
14 DESCRIPTION OF SITE IN RELATION							
COMPLETED FIL TODOGRAPHY	LED W 15 AREA	IEEC NEVER OBSEINTH TUDUSTRIAL T FLAT WAS AT ONE TO	fiu.			s been	
VII. SOURCES OF INFORMATIO	N (Cite specific	references, e.g., state files, sample analysis,	reports)				

O EDA			POTENTIAL HAZARD	I	I. IDENTIFICATION			
	SEPA			SITE INSPECTI	ON REPORT	O1 STAT	E 02 SITE NUMBER	
200				PART 6 - SAMPLE AND F	TELU INFURMATION			
	II. SAMPLES TAKE	N	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	<u> </u>		03 ESTIMATED DATE RESULTS AVAILABLE	
	GROUNDWATER		SAMPLES TAKEN				PESULIS AVAILABLE	
**	SURFACE WATER							
	WASTE							
37-a	RUNOFF				<u> </u>			
3	SPILL							
(A)	SOIL		4	11.5. 6000	GICAL SURVEY			
	VEGETATION			415.5144	-101- 251-101	<u> </u>		
	OTHER							
	III. FIELD MEASURE	MENTS TAI	KEN					
ŀ	01 TYPE		02 COMMENTS		· · · · · · · · · · · · · · · · · · ·			
						_		
4								

*								
17-49	IV BUCESCE - TO	AAUE 22.5.5.						
<u>"</u>	IV. PHOTOGRAPHS			O2 IN CUSTORY OF				
Section Associated	01 TYPE GROUND			02 IN CUSTODY OF	(Name of organization or indivi	duel)		
	03 MAPS □ YES □ NO	04 LOCATION	OF MAPS					
9000	V. OTHER FIELD DA	TA COLLEC	CTED (Provide narrative de	scription)				
•							,	
,								
0.00								
				·	•			
	VI. SOURCES OF IN	FORMATIO	N (Cae specific references.	e.g., state files, sample analysis, reports)				
20.00								
:								
í L	EPA FORM: 2070-13 (7-8	1)						

	ŗ	ЬO.	TENTIAL HAZ	ZARDOUS WASTE SITE	I. IDENTIF		
≎EPA			SITE INSPE	ECTION REPORT NER INFORMATION	O1 STATE O)2 SIT	E NUMBER
II. CURRENT OWNER(S)			_	PARENT COMPANY (# applicable)			
MOBIL OIL CORPORATI	DU	02 [D+B NUMBER	OB NAME		09 0	H NUMBER
03 STREET ADDRESS (P. O. BOX. AFD P. OIC.)			04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE
	08 STATE		ZIP CODE 14240	12 CITY	13 STATE	14 Z	IP CODE
O1 NAME		02 [D+B NUMBER	OB NAME		09 D	+ B NUMBER
O3 STREET ADDRESS (P.O. Boz. RFD €, etc.)			04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC COD€
OS CITY	06 STATE	07	ZIP CODE	12 CITY	13 STATE	14 Z	IP COCE
O1 NAME		02	D+B NUMBER	OB NAME		09 D	+8 NUMBER
03 STREET ADDRESS (P. O. Box, RFD #, etc.)			04 SIC CODE	10 STREET ADDRESS (P. O. Box, RFD #, etc.)			11SIC CODE
OS CITY	06 STATE	07 2	ZIP CODE	12 CITY	13 STATE	14 Z	IP CODE
O1 NAME	ME 02 D+B NUMBER 08 NAME				09D	+B NUMBER	
O3 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 2	IP CODE
III. PREVIOUS OWNER(S) (List most recent first)		_		IV. REALTY OWNER(S) (# applicable; isst mos	st recent first)		
O1 NAME		02 (D+B NUMBER	01 NAME		02 D	+8 NUMBER
O3 STREET ADDRESS (P O. Boz, RFD #, etc.)	-		04 SIC CODE	O3 STREET ADDRESS (P.O. Box. RFD P. etc.)			04 SIC CODE
OS CITY	06STATE	07 2	ZIP CODE	05 CITY	06 STATE	07 Z	IP CODE
O1 NAME		02 0	D+B NUMBER	01 NAME		02 0	D+B NUMBER
O3 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	03 STREET ADDRESS (P.O. Bos. RFD #, etc.)			04 SIC CODE
OS CITY	06 STATE	07 Z	UP CODE	05 CITY	06 STATE	07 Z	IP CODE
O1 NAME		02 (D+B NUMBER	01 NAME		02 D	D+B NUMBER
O3 STREET ADDRESS (P.O. 801, RFD #, etc.)			04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE
OSCITY	06STATE	07	ZIP CODE	05 CITY	06 STATE	07 Z	IP CODE
V. SOURCES OF INFORMATION (Crie specific	relerences.	e.g., 1	ziete Mes, sampie analysi	it. /epc/ts)		-	
				· · · · · · · · · · · · · · · · · · ·			

			OTENTIAL MAZ	ADDOUG WASTE SITE	I. IDENTIFICATION			
\$EPA		P		ARDOUS WASTE SITE		SITE NUMBER		
WELH				ATOR INFORMATION				
<u></u>			FARI O'OFER	ATORINFORMATION				
II. CURRENT OPERAT	OR (Provide & different fro	m owner)		OPERATOR'S PARENT COMPANY (f applicable)			
D1 NAME			02 D+B NUMBER	10 NAME		11 D+B NUMBER		
<i>*</i>								
03 STREET ADDRESS (P 0 B	lox, RFD #, etc)		04 SIC CODE	12 STREET ADDRESS (P.O Box, RFD #, etc.)	_	13 SIC CODE		
05 CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE		
08 YEARS OF OPERATION	09 NAME OF OWNER							
III. PREVIOUS OPERAT	OR(S) (Let most recent to	rst; provide on	ly # different from owner)	PREVIOUS OPERATORS' PARENT CO	OMPANIES (# a	upplicable)		
O1 NAME			02 D+B NUMBER	10 NAME	1	11 D+B NUMBER		
03 STREET ADDRESS (P.O. &	ox, RFD &, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE		
05 CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE		
08 YEARS OF OPERATION	09 NAME OF OWNER D	DURING THIS	S PERIOD					
01 NAME			02 D+B NUMBER	10 NAME	1	11 D+B NUMBER		
03 STREET ADDRESS (P.O. 80)	x, RFD Ø, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box. RFD #, etc.)	13 SIC CODE			
OS CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE		
08 YEARS OF OPERATION	09 NAME OF OWNER	DURING THE	S PERIOD					
01 NAME			02 D+B NUMBER	10 NAME		11 D+B NUMBER		
03 STREET ADDRESS (P.O. Bo)	s, RFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. BOX, RFD #, etc.)		13 SIC CODE		
05 CITY		08 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE		
08 YEARS OF OPERATION	09 NAME OF OWNER	DURING THIS	S PERIOD					
IV. SOURCES OF INFO	RMATION (Cite specific	c references, e	.g., state files, sample analys	us, reports)	•			

	P	OTENTIAL HAZ	ZARDOUS WASTE SITE	I. IDENTIFICATION		
\$EPA			ECTION REPORT	01 STATE 02	SITE NUMBER	
	PART S		TRANSPORTER INFORMATION			
TO CHECK OF MEDITOR			-			
II. ON-SITE GENERATOR		02 D+B NUMBER				
01 NAME		UZ DTB NUMBER				
O3 STREET ADDRESS (P.O Box, RFD #, etc.)		04 SIC CODE				
05 CITY	06 STATE	07 ZIP CODE	_			
		<u></u>				
III. OFF-SITE GENERATOR(S)			Technic		000101111111111111111111111111111111111	
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	08 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE	
O1 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER	
01113312						
					In the cone	
03 STREET ADDRESS (P.O. Box, RFD €, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE	
" TRANSPORTERIES						
IV. TRANSPORTER(S)		02 D+8 NUMBER	O1 NAME		02 D+B NUMBER	
OTNAME		02010	OT HOME		02.0.0	
					10:00000	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD €, etc.)		04 SIC CODE	
O5 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE	
O1 NAME	<u> </u>	02 D+B NUMBER	01 NAME		02 D+B NUMBER	
or none			-			
		10:00000			04 SIC CODE	
03 STREET ADDRESS (P.O. 60x, RFD 4, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		U4 SIC CODE	
05 CITY	OB STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE	
V. SOURCES OF INFORMATION (Cite specific		state lifes sample analysi	ar reports!			
Trootings of its state of the s	10101-1-1	.y., 3100 100, 100 100	13, 1404.13			
		•				
					**	

l	POTENTIAL HAZARDOUS WASTE SITE		1. IDENTIFICATION
⊕ EPA	SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES		01 STATE 02 SITE NUMBER
II. PAST RESPONSE ACTIVITIES			
01 D A. WATER SUPPLY CLOSED	02 DATE	03 AGENCY	
04 DESCRIPTION			
01 D B. TEMPORARY WATER SUPPLY PRO 04 DESCRIPTION			
01 D C. PERMANENT WATER SUPPLY PRO 04 DESCRIPTION	VIDED 02 DATE	03 AGENCY	
01 D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE		
01 DE. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 🗆 F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	•	
01 © G. Waste disposed elsewhere 04 description	O2 DATE		
01 H. ON SITE BURIAL 04 DESCRIPTION	O2 DATE		
01 D.I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE		
01 D J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE		
01 K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 🗆 L ENCAPSULATION 04 DESCRIPTION	O2 DATE		
01 D M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	-	03 AGENCY	
01 D N. CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 AGENCY	
01 [] O. EMERGENCY DIKING/SURFACE WA' 04 DESCRIPTION	TER DIVERSION 02 DATE	03 AGENCY	
01 P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY	
01 O. SUBSURFACE CUTOFF WALL O4 DESCRIPTION	O2 DATE	03 AGENCY	

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01 STATE 02 SITE NUMBER

♥EPA	PART 10 - PAST RESPONSE ACTIVITIES	
II PAST RESPONSE ACTIVITIES (Continued)		
01 R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY
01 T. BÜLK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY
01 U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 U. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY
01 DW. GAS CONTROL 04 DESCRIPTION	02 DATE	O3 AGENCY
01 D X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 Z. AREA EVACUATED 04 DESCRIPTION	02 DATE	03 AGENCY
01 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 2. POPULATION RELOCATED 04 DESCRIPTION	O2 DATE	03 AGENCY
01 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY

III. SOURCES OF INFORMATION (Cae specific references, e.g., state (des, sample analysis, reports)

I. IDENTIFICATION

SEPA	SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION	01 STATE 02 SITE NUMBER
. ENFORCEMENT INFORMATION		
1 PAST REGULATORY/ENFORCEMENT ACTION D	TYES [] NO	
2 DESCRIPTION OF FEDERAL, STATE, LOCAL REC		
		•
COMPOSE OF INSCRIPTION	<u> </u>	
. SOURCES OF INFORMATION (Cite specific	ic references, e.g., state files, sample analysis, reports)	

4.0 Site History

The Mobil Oil Corporation, located on Elk Street in Buffalo, New York, began oil refining operations in 1951. Prior to Mobil's acquisition of the seventy-seven (77) acre site, the property was used for various oil refining processes by several companies.

From 1951 to 1976, Mobil Oil Corporation used a three (3) acre swale area located on the facility property along the Buffalo River bank for the disposal of waste materials. These waste materials included: construction debris, tank sediments, cracking and reforming catalysts, sewer sediment, caustic sludges and general refuse. The swale area was created as a result of redirecting the Buffalo River in 1920. Previous to Mobil's usage of the site for disposal, the City of Buffalo partially filled in the area with an undetermined amount of municipal refuse.

In 1981, Mobil Oil Corporation shut down its refining operation at the Buffalo Plant; however, several tanks are still utilized for the storage of crude oil.

A sampling and analytical program of on-site soils was conducted by the U.S. Geological Survey in May 1983. The analytical results revealed the presence of such contaminants as lead and various moderately toxic aliphatic hydrocarbons.

5.0 Site Data

5.1 Site Area Surface Features

- 5.1.1 Topography and Drainage The surrounding topography in the vicinity of Mobil Oil can be generally characterized as flat. The disposal area was originally a meander of the Buffalo River which was redirected in the 1920's. Slope of the Mobil Oil site is close to 0% as determined from the U.S.G.S. Buffalo Southeast quadrangle (Reference 9). Drainage is assumed to be in a southerly direction towards the Buffalo River which is a class "D" water resource (Reference 10).
- 5.1.2 Environmental Setting Mobil 0i1 is located in an urban/industrial district of the City of Buffalo with a densely populated residential area located within one-quarter mile of the site. The site lies within the 100-year floodplain zone of the Buffalo River as designated by the Federal Emergency Management Agency (Reference 11). The Times Beach protected wetland is located approximately two and one-half miles downstream (Reference 9). There are no endangered species or wildlife refuges in the area. The Buffalo River and Cazenovia Creek are the only surface waters in the area.

5.2 Site Hydrogeology

- 5.2.1 <u>Geology</u> Bedrock underlying the Mobil Oil site is the Marcellus Formation of the Hamilton Group. In Erie County, this formation is represented by the Oatka Creek Shale Member. In the immediate site area, Oatka Creek Shale is encountered twenty (20) to fifty (50) feet below the ground surface. This unit is characterized as a dense, black fissile shale with a petroliferous odor and some gray shale interbedded. Overall thickness of the Oatka Creek Shale is thirty (30) to fifty-five (55) feet. Regional dip of the bedrock is to the south at approximately 0.5° (Reference 7).
- 5.2.2 <u>Soils</u> The surficial soils of Mobil Oil are completely covered with fill material to an undetermined depth. The U.S. Department of Agriculture Soil Conservation Service classifies the Mobil Oil overburden material as the Teel-Middlebury Unit. These soils are formed in recent alluvial deposits consisting mostly of silts. Characteristically, both soils are nearly level and moderately well drained to somewhat poorly drained. The high water table is probably influenced by the seasonal water level of the Buffalo River. Permeability of these soils is considered moderate. Commonly, these soils are associated with floodplains, valleys and lowlands (Reference 6). U.S.G.S. test borings profile the specific on-site soils as: fill, gravel and fine to medium sand 0-1.5 feet; dark gray-green sand

11.5-16.5 feet (Reference 5).

5.2.3 Groundwater - Groundwater wells are not frequently used in the area around Mobil Oil except for industrial purposes. Well depths average approximately 130 feet and draw from the Onondaga Limestone and Camillus Shale aquifers. Yield of wells in these units range from 30 to 300 gpm; however, high hydrogen sulfide content limits usage (Reference 8). Groundwater flow is in a southerly direction towards the Buffalo River (Reference 7). The seasonal high groundwater table is reported to be at approximately three (3) feet below ground surface. This water table fluctuates with the influence of the water level in adjacent surface waters.

5.3 Previous Sampling and Analysis

- 5.3.1 <u>Groundwater Quality Data</u> No sampling of this nature was performed.
- 5.3.2 <u>Surface Water Quality Data</u> No sampling of this nature was performed.
- 5.3.3 Air Quality Data No sampling of this nature was performed.
- 5.3.4 Other Analytical Data Soil samples were collected by the U.S. Geological Survey in 1982 and 1983. Analyses have indicated detectable levels of iron, lead, cyclohexane and aliphatic

hydrocarbons. Complete analytical results are presented in the following pages.

Table .-- Analyses of substrate samples from Mobil Oil, Buffalo, N.Y. (Locations shown in fig. . Concentrations are in µg/Kg; dashes indicate that constituent or compound was not found, LT indicates it was found but below the quantifiable detection limit.)

TOAET	Sample number and depth below land surface (ft				
		2	3	- 4	
First sampling (06-06-82)	8.0	6.0	9.0	6.5	
Inorganic Constituents					
				•	
Iron Lead	150,000	110,000 30,000	3,500,000 920,000*	72,000	
		idea			
		Samp	le Number		
Second sampling (05-20-83)		2A	3A	4,	
Organic Compounds					
Priority pollutants		•			
Methylene chloride	790	300			
Eehylbenzene		95			
Fluorotrichloromethane		. 47			
Toluene		13		1	
Aldrin	ner er F F			L	
a-BHC-hexachlorocyclohex		LT	·		
Fluoranthene	1,500	38,000		1,10	
Benzo(a)anthracene	1,000	15,000		52	
Benzo(a)pyrene	1,000	15,000	***	52	
Benzo(b)fluoranthene	LŤ.	LT	,		
Benzo(k)fluoranthene	LT	15,000		7.3	
Phenanthrene	1,000	46,000		73 93	
Pyrene	LT	31,000	·	7.3	
Chrysene	1,000	15,000		/· 3	
Naphthalene	**************************************	15,000		_	
Acenaphthalene		11,000		, _	
Anthracene		LT LT		, -	
Benzo(ghi)perylene Fluorene		11,000			

Tentative identification based on comparison with the National Bureau of Standards (NBS) library. No external standard was available. Concentration reported is semiquantitative and is based only on an internal standard. GC/MS spectra were examined and interpreted by GC/MS analysts.

^{*} Exceeds concentrations in samples taken from undisturbed soils in the Buffalo area.

Table .--Analyses of substrate samples from Mobil Oil, Buffalo, N.Y. (Locations shown in fig. . Concentrations are in ug/Kg; dashes indicate that constituent or compound was not found, LT indicates it was found but below the quantifiable detection limit.)-continued

DRAFT	Sample Number				
Second sampling (05-20-83)		2 A	3 A	4A	
Organic Compounds (continued)					
Nonpriority pollutants					
2-Methylnaphthalene		LT			
Carbondisulfide		LT			
. 2 =Methylbuta πe ¹		45,000			
Cyclobexane .		100,000			
Benzo(k)fluoranthene			م موجع پیشتا	600,000	
Methylcyclohexane ¹	4-	550,000			
1,2-Dimethyl,ciscyclohexane	4 - 7	360,000			
3-Hepten-2-one		80,000			
l-Methylpyrene ¹				600,000	
Possibly naturally occurring com	pound				
Hydrocarbons		870,000			

6.0 Adequacy of Available Data

In compiling the hazardous ranking score for the Mobil Oil disposal area, the site was found to have a migration potential (S_m) of 1.8. However, due to the data inadequacies, a certain degree of subjectivity was involved in scoring; therefore, a range for migration potential was developed. For the Mobil Oil Disposal Site, this range was found to be 1.8 to 2.0. The data inadequacies are as follows:

- o Lack of analytical data regarding groundwater and surface water quality.
- o Lack of records regarding quantity of waste disposed.
- o Insufficient data regarding the lateral and vertical extent of the fill material.
- o Insufficient data regarding hydrogeological and geological features for the site area.
- o No air quality data.

7.0 PROPOSED PHASE II WORK PLAN

7.1 Objectives

As per the inadequacies of the data base that were itemized in the preceding section, a work plan has been developed which, to the extent practical, will provide the information required to address the following:

- o Potential environmental effects of the landfill.
- o The extent and magnitude of contamination, based on site specific hydrogeologic conditions.
- o The data inputs necessary to effectuate the development and recommendation of cost effective remedial actions.

Detailed descriptions of the elements of this work plan are herein provided.

7.2 Scope of Work

The primary purpose of this work element is to fill the data gaps identified in the preliminary assessment so as to permit a complete site characterization/ranking (HRS) and engineering evaluation of remedial alternatives. The preliminary field investigation includes the following items:

- o Air Monitoring
- o Geophysical Exploration
- o Subsurface Investigation
- o Monitoring Well Installation
- o Sampling and Analysis

Throughout the investigative effort, field activities will be performed in strict accordance with established safety protocol, presented in Recra Research, Inc.'s Operation Manual - Field and Analytical Services (previously submitted to NYSDEC by Recra as part of a prequalifying submission).

7.2.1 Air Monitoring - Prior to implementation of the various field investigative techniques associated with this element, an initial site screening will be conducted using a Century Organic Vapor Analyzer (OVA) and/or an HNU photoionizer. Based upon described site characteristics, Recra team personnel engaged in this activity will enter the site equipped with level 3 respiratory protection. A grid pattern will be established at the site and readings taken and recorded at each grid point. This survey will determine the initial level of protection necessary for workers' safety. In addition, upgradient and downgradient air monitoring stations will be established at both sites.

If the results are indicative of air quality problems, additional testing will be initiated at specified distances away from the site.

During actual field investigative work, ambient and worker air monitoring will be conducted periodically using appropriate instrumentation, such as the photoionizer and/or OVA. When deemed necessary from actual readings, the level of respiratory protection will be adjusted to meet existing conditions. All disposable equipment necessary for worker safety will be placed daily into covered on-site drums provided by Recra, and removed from the site and disposed of either upon reaching full capacity or upon completion of all field work.

7.2.2 <u>Geophysical Exploration</u> - After initial assessment of the ambient air quality at the site, a geophysical program will be performed to determine the limits of the disposal area. It will also aid in determining the possibility and extent of groundwater contamination. The geophysical method proposed is the VLF-EM Terrain Conductivity survey. This method is considered sufficient to define the bedrock surface, the depth of the fill material and any possible contaminant plume on the site.

The VLF-EM Terrain Conductivity survey will be performed by recording continuous conductivity measurements on an EM-31

terrain conductivity meter equipped with a strip chart recorder. These measurements will be taken on a grid pattern established using a tape and level, in the area of the disposal site.

- 7.2.3 <u>Subsurface Investigation</u> In order to facilitate additional information concerning possible groundwater contamination, preliminary findings indicate a need for subsurface investigations. This investigation will include:
 - A. One (1) exploratory boring north of the fill to determine the nature of the in-situ soil. Permeability tests will be performed on specific horizons of soil at this time. This boring will be located northeast of the site, which is assumed upgradient of groundwater flow, and will be extended to bedrock to determine the specific on-site geology.
 - B. Three (3) exploratory borings around the periphery of the site as shown in Figure 3. The first boring will be located northwest of the fill area which is assumed to be upgradient of groundwater flow. The remaining two (2) borings will be located in the southern section of the fill which is assumed to be downgradient of groundwater flow. These borings will be extended to twenty feet below the base of the fill materials.

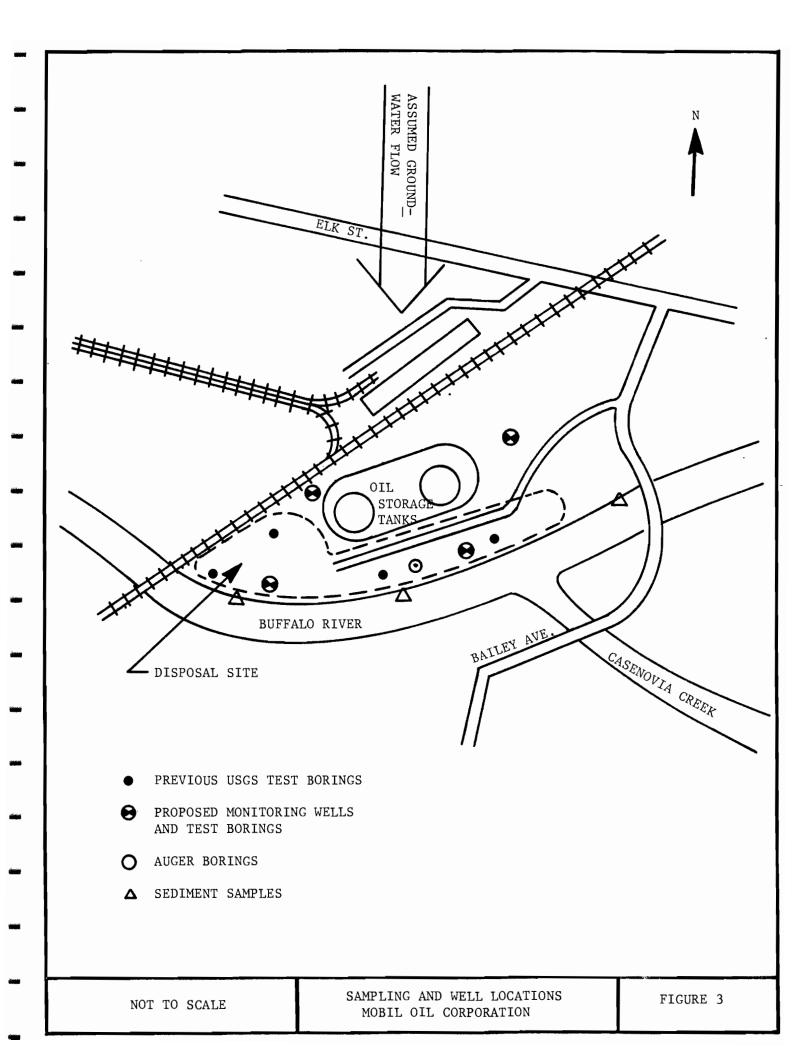
All borings will be completed as groundwater monitoring wells and will be constructed within the first encountered water bearing zone.

C. Three (3) sediment samples from the bank of the Buffalo River on the southern side of the site.

Well and sampling locations are illustrated in Figure 3.

All exploratory borings will be drilled with a truck, trailer, and/or all-terrain-mounted auger rig using hollow stem augers. During construction of the borings, split spoon samples will be continuously obtained in the one (1) boring extended to bedrock. In the other borings, split spoon samples will be obtained at five (5) foot intervals and/or when noticeable changes in lithology or drilling characteristics occur. If the unconsolidated material is found to be extremely heterogeneous, all borings will be continuously sampled. Also, if a confining layer is encountered, Shelby tube samples will be obtained to determine its undisturbed permeability.

The acquired samples will be visually identified in the field following the procedure set forth in ASTM-D-2488, noted appropriately on the boring logs with the sample number and recorded standard penetration test results (ASTM-D-1586), and placed in precleaned, teflon-lined, screw-cap glass jars for



return to Recra Research, Inc.'s Tonawanda, New York laboratory.

In order to avoid possible cross-contamination during construction of the exploratory borings, the apparent upgradient borings will be completed first; then the downgradient holes will be drilled. Between each boring, the augers will be cleaned with water obtained from a known non-contaminated source. Also, between each split spoon sample, the split spoon will be cleaned with water, acetone and distilled water. All spent water/acetone liquid accumulated during this process will be disposed of in an on-site drum. Upon completion of the boring to bedrock, the boring will be backfilled with cement bentonite grout to the base of the first encountered water level. This procedure will prevent the vertical migration of possible contaminated groundwater from the first encountered water-bearing zone to bedrock. Prior to leaving the site, the drill rig will be decontaminated using high pressure water.

7.2.4 Monitoring Well Installation - The monitoring wells will be constructed of two-inch I.D. cast iron riser pipe with a five-foot long galvanized, wire-wound-wrapped steel screen. The screen will be placed just below the encountered water table. The annulus between the casing/screen and boring well will be properly sand-packed and sealed (cement/bentonite and cement) to the ground surface and the well provided with a locking cap.

A typical monitoring well in unconsolidated material is illustrated in Figure 4.

Upon completion of well construction, all monitoring wells will be properly developed, and all test borings and/or top of well casings will be surveyed to determine their location and elevation above sea level. At that time, variable head tests will be performed on the wells around the site to estimate the insitu permeability of the screened interval.

All field activity will be under the direct supervision of a qualified geologist and/or hydrogeologist.

- 7.2.5 Sampling and Analysis The following procedures will encompass the sampling of groundwater from the newly installed wells, the analysis of samples obtained from these wells, the analysis of selected soil samples from the exploratory borings, as well as the sampling and analysis of surficial waters and sediments. If desired, all samples will be split with the owner of the site. Also, upon completion of the analytical program, the owner will be notified of the results if he so requests. All samples will be analyzed for the parameters listed in Table 1.
 - 7.2.5.1 <u>Groundwater</u> Following equilibrium of water levels within the installed wells, water elevations will be measured to determine the water table surface. Representative ground-

Figure 4
MONITORING WELL DETAIL
In Unconsolidated Formation

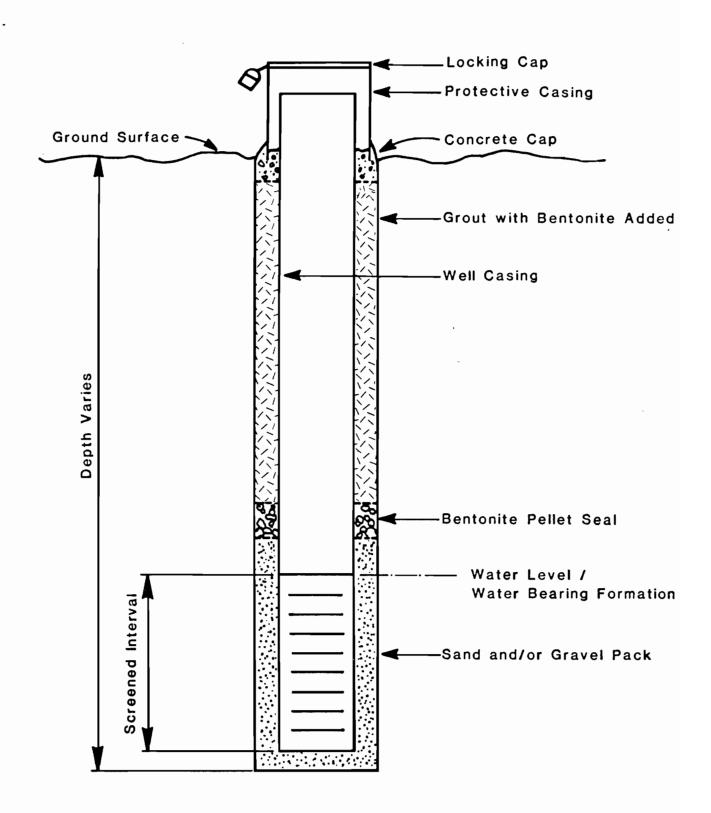


TABLE 1: ANALYTICAL PARAMETERS

Parameters	Surface Water	Groundwater
рН		
Specific Conductance	•	•
Chloride	·	•
Sulfate	•	•
Total Organic Carbon	•	•
Cadmium	•	•
Chromium (Total)	*	0
Chromium (Hexavalent)	*	0
Copper	*	0
Iron	*	0
Lead	*	0
Mercury	*	0
Nickel	*	0
Silver	*	0
Zinc	*	0
Total Recoverable Phenolics	•	•
Oils & Greases	•	•
Toluene	•	•
Volatile Organic Scan (VOS)	•	•
Halogenated Organic Scan (HOS)	•	•
Volatile Halogenated Organic Scan Dry Weight	•	•

o = Soluble Metals

* = Total Metals

VOS is a screening procedure to identify the presence or absence of volatile chlorinated organic compounds. Analyses are performed via purge and trap concentration, gas, liquid chromatography and an electrolytic conductivity detector.

HOS is a screening procedure to identify the presence or absence of halogenated organics. Analyses are performed via solvent extraction concentration gas liquid chromatography and an electron capture detector.

water samples will then be collected after the wells have been fully evacuated or a volume of three (3) times the well contents have been removed.

Evacuation of water from the wells and the acquisition of the samples will be accomplished with an ISCO Model 1580 peristaltic pump, using separate low-density polyethylene tubing for each well and changing the silicon rubber tubing within the ISCO between wells. An exception to this procedure will be employed when obtaining the required volume of sample for volatile organic analysis. This will be accomplished using small volume galvanized steel bailers that have been separately designated for each well.

Upon collection of the samples, field pH, temperature and conductivity measurements will be recorded. The samples will be placed in appropriate precleaned bottles/septa vials, labelled, chilled and immediately returned to Recra's Tonawanda, New York laboratory for preservation and analyses of previously listed chemical parameters. If the samples cannot be returned to Recra's laboratory in a timely fashion due to the distance between the site and Recra's laboratory, field preservation will be performed prior to chilling.

7.2.5.2 <u>Soil</u> - Selected subsurface soil samples will undergo both physical and chemical analyses. The remaining samples will be archived by Recra Research, Inc. for a period of six (6) months after completion of the contract.

The physical analysis will aid in the characterization of the underlying unconsolidated material. The physical parameters of concern during this investigation are grain distribution (ASTM-D-422), Atterberg size limits (ASTM-D-423 and 424) and classification (ASTM-D-248). The number of samples to undergo analysis for the above parameters is dependent on the homogeneity of the subsurface conditions underlying the bottom of the uncontrolled land-The results from these tests, in conjunction with Standard Penetration Test results, will aid in the design and evaluation of remedial programs.

Chemical analyses of selected samples will be used to characterize attenuation by on-site soils. A sample from the unsaturated zone and a sample from the saturated zone will generally be utilized from each boring.

7.2.5.3 <u>Sediment</u> - This sampling will entail collecting sediments from the bank of the Buffalo River located south of the fill area. Three (3) sediment samples will be taken. General locations of sampling are illustrated in Figure 3.

These sediment samples will be taken using a two (2) foot gravity type sampler. All sediment samples will be placed in precleaned, teflon-lined, screw capped glass jars, labelled, chilled and returned to Recra for analysis. The same procedures as determined for soils will be followed after acquisition of the sediment samples. All samples will be analyzed for the previously listed parameters.

- 7.2.6 <u>Chemical Analytical Methods</u> The procedures to be utilized for analysis of water, stream sediment and soil samples during this investigation are in basic accordance with one or more of the following reference texts:
 - <u>Methods for Chemical Analysis of Water and Wastes</u>, United States Environmental Protection Agency,
 - <u>NIOSH Manual of Analytical Methods</u>, 2nd Edition, United States Department of Health, Education and Welfare,
 - Standard Methods for the Examination of Water and Wastewater, 14th Edition, APHA, AWWA, WPCF.
- 7.2.7 Quality Assurance Program An overall Quality Assurance Program is essential for the production of high-quality analytical data. Such a program requires precise control of laboratory activities. For the Quality Assurance Program in effect at the laboratories of Recra Research, Inc., the reader is referred to a document previously submitted by Recra Research,

Inc. to NYSDEC, entitled <u>"Operations Manual - Field and Analytical Services"</u>.

- 7.2.8 Engineering Evaluation Report/HRS Score The purpose of this evaluation report is to compile all existing and newly-developed information concerning the site, and utilize this information to:
 - Evaluate feasible remedial alternatives at the site and prepare budget-level cost estimates for these alternatives.
 - Based upon this evaluation, recommend the most costeffective and environmentally sound course of remedial action.
 - Prepare a Hazard Ranking System (HRS) score for the site.

It is presently anticipated that the output from this Evaluation Report will consist of a single bound report, sub-divided into at least the following sections:

HRS Score - Utilizing USEPA's formal method of presentation (Federal Register/Vol. 47, No. 137/Friday, July 16, 1982), the following completed work sheets will be included in this opening section: HRS Cover Sheet; Groundwater Route Work Sheet; Surface Water Route Work

Sheet; Air Route Work Sheet; Fire and Explosion Work Sheet; and Direct Contact Work Sheet.

- Background
- <u>Summary of Project Activities</u>
- <u>Identification and Evaluation of Remedial</u> Alternatives
- Recommendations
- Appendix Complete Site Data Base

7.3 Estimated Costs

The estimated costs per individual element of the preceding scope of work are listed as follows:

0	Preliminary Field Investig	ation	\$12,118
0	Sampling and Analysis		7,547
0	Engineering Evaluation		4,624
	Т	otal	\$24,289

APPENDIX A

DATA SOURCES AND REFERENCES

- 1.) Interagency Tank Force on Hazardous Wastes, Draft Report; March 1979.
- 2.) Telephone conversation with Doug Carrol, City of Buffalo Department of Public Works; August 29, 1983.
- 3.) Site visit and personal interview with Don McNerney, Mobil Oil Site Representative; August 29, 1983.
- 4.) Waste Type and Quantity report submitted to DEC, document acquired July 1983.
- 5.) U.S.G.S. sampling program; May 1983.
- 6.) U.S. Department of Agriculture Soil Conservation Service, General Soils

 Map and Interpretation for Erie County, New York; May 1979.
- 7.) Geology of Erie County, New York; Edward J. Buelher and Irving H. Tesmer,
 Buffalo Society of Natural Sciences Bulletin; Vol. 21, No. 3; 1963.
- 8.) New York State Water Resources Commission, Erie-Niagara Basin Groundwater Resources; ENB-3; 1973.
- 9.) U.S.G.S. Topographic Map; Buffalo Southeast Quadrangle, 1965.
- 10.) Codes, Rules and Regulations of the State of New York; Vol. 6(C), Section 837.4, pg. 1625; 1966.
- 11.) Telephone conversation with Ted Myers of the NYSDEC regarding floodplain

information; August 1, 1983.

12.) Mitre Inc., Hazard Ranking System; July 16, 1982.

APPENDIX B

HAZARDOUS WASTE DISPOSAL SITE REPORT

REVISED

Code: B

Site Code: 915040

Name of Site: Mobil Oil Corporation

Region: 9

County: Erie

Town/City: Buffalo

Street Address: 635 Elk Street

Status of Site:

- o Inactive landfill, operated from 1951 to 1976.
- Located in an industrial area.
- Waste disposed of: demolition debris, various tank sediments.
- o Surficial soils overlain by unknown fill material.

Type of Site: Landfill

Hazardous Waste Disposed?

Type and Quantity of Hazardous Waste:

Present Owner: Mobil Oil Corporation, Buffalo, New York

Time Period Site Was Used: 1951 to 1976

Type of Samples: Soils

Remedial Action: None

Status of Legal Action: None

Permits Issued: None

Assessment of Environmental Problems:

Person Completing this Form: Diane Werneiwski, Recra Research, Inc.

Date: September 6, 1983.