715017

# DONNER-HANNA COKE JOINT VENTURE

NEW YORK STATE SUPERFUND PHASE I SUMMARY REPORT

915017

September 6, 1983

Prepared By:

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For:

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# DONNER-HANNA COKE JOINT VENTURE NEW YORK STATE SUPERFUND PHASE I SUMMARY REPORT

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#### 1.0 Executive Summary

Donner-Hanna Coke Joint Venture is located at the intersection of Abby and Mystic Streets in the southern section of Buffalo, Erie County, New York. The general area can be characterized as urban/industrial with private residences occupying property adjacent to the site toward the east. Accessibility to the plant property is limited by chain link fences.

The company produces metallurgical coke by the process of pyrolyzing raw coal. By-products from this process have traditionally been recycled to the raw material for processing and recovery as the saleable product. Process waters have been lagooned for deposition of solids with the resulting sediment, consisting mainly of earthen material derived from Lake Erie water, being dredged and subsequently landspread. The supernatant is discharged to the Buffalo River.

The grounds in the southern part of the plant property were the scene of extensive fill activities over the years. This area was at one time a large pond and wetland, and is now used as a coke storage area. Fill material is reported to consist mainly of demolition debris, slag and dredgings from the settling lagoons.

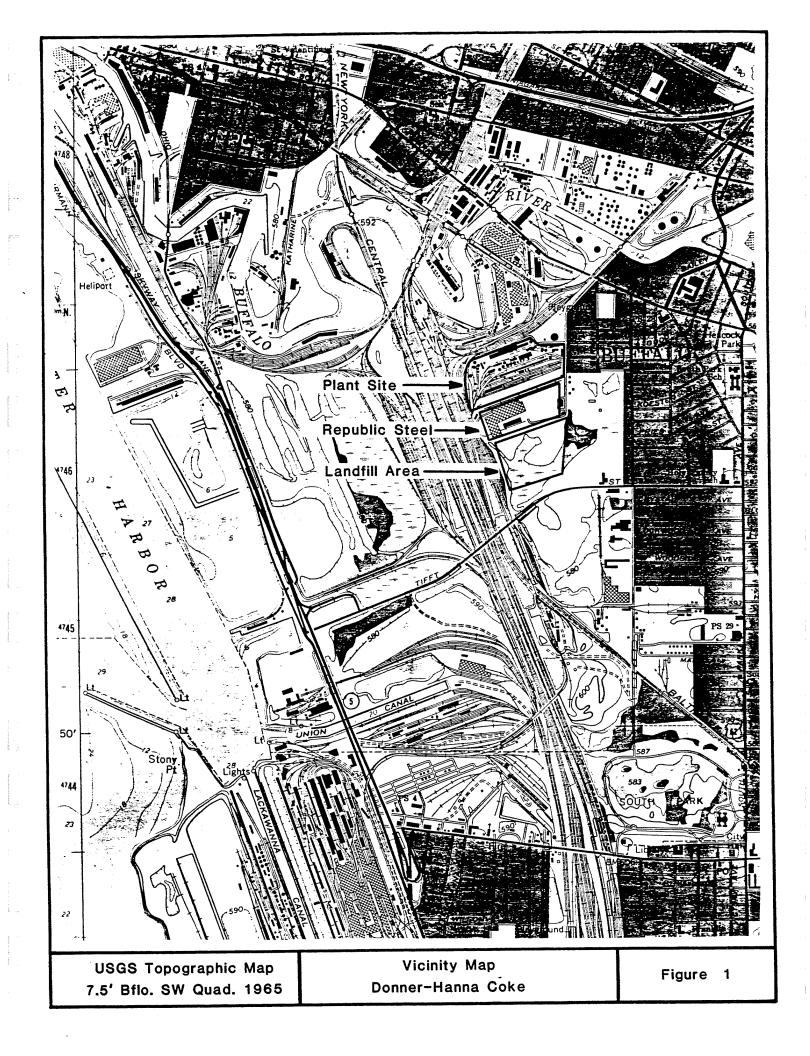
EP Toxicity testing of the fill area has not detected contamination in the landspread sludges; however, groundwater and in-situ soils beneath the fill have not been analyzed. Due to high hydrogen sulfide content, the entire area is serviced by municipal water drawn from Lake Erie. Groundwater wells in the area are used for industrial purposes only.

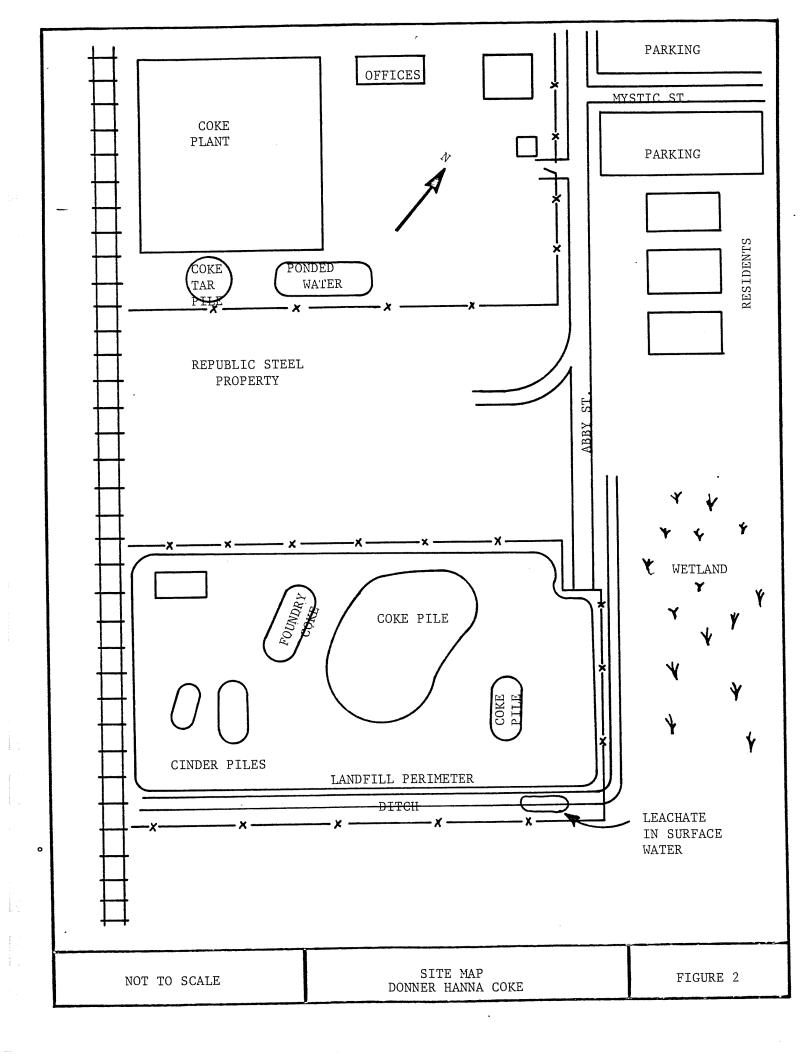
#### 2.0 Site Description

Donner-Hanna Coke Joint Venture occupies approximately fifty (50) acres of land in an urban/industrial area of southern Buffalo. The Donner-Hanna property is separated into two (2) approximately equal sized parcels of land by Republic Steel property (Figure 1). The plant facility is located north and a coke storage area is located south of Republic Steel (Figure 2). Production at the plant has been discontinued for the time being due to the depressed state of the steel industry. Access to both sections of the plant is controlled by chain link fences.

The coke storage area was at one time a wetland which has been filled, and used for coke storage. This area is bounded on the south by property owned by Hood Welding, the east by wetlands and the west by railroad tracks which separate Donner-Hanna property from Tifft Farm Nature Preserve. The entire site is now covered with fragments of coke and is almost completely unvegetated except for occasional short grasses. Large coke piles occupy the central portion of the site. Some railroad car demolition debris is scattered in the northwest part of this area.

Topography of the site area is flat with the exception of the coke piles. Drainage ditches are east and south of the fill area perimeter. Surface runoff flows toward the Buffalo River, approximately 0.5 miles to the north. A black and orange oily looking material was observed in the drainage ditch toward the southeast corner of the site; however, the origin of this material is unknown.





Facetry name. Donner Hanna Coke						
Abby and Mystic Streets						
EPA Region:						
Person(s) in charge of the facilityEdwin J. Hartman (Superintendant)						
Box A South Park Station						
Buffalo, NY 14220						
Name of Reviewer: Recra Research, Inc. Date Sept. 6, 1983						
General description of the facility:  (For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)						
Wetland area in the southern section of the plant property has been						
filled for storage of coke. Fill material is reportedly sediments						
from process waters deposited between 1951 and 1978. EP toxicity						
testing determined the fill material to be within standards. No						
other testing has been conducted in the area.						
3 (C = 2 S = 5 S = 0 )						
Scores: $S_{M} = .3  (S_{gw} = .2  S_{sw} = .5  S_{a} = 0)$						
$S_{FE} = 2.6$ $S_{DC} = 3.3$ RANGE 0.3 to 15						

HRS COVER SHEET

Ground Water Route Work Sheet								
	Rating Factor		Assigned Valu (Circle One)	9	Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Release		0 4	5	1	0	45	3.1
	If observed release	e is giver	n a score of 45, proceed n a score of 0, proceed	to line 4.				
2	Route Characteristi Depth to Aquifer		0 (1) 2 3		2	2	6	3.2
	Concern  Net Precipitation  Permeability of the	ne	0 1 ② 3 0 ① 2 3		1 1	2	3 3	
	Unsaturated Zon Physical State	ne	0 1 2 3		1	3	3	
	-		Total Route Characteri	stics Score		8	15	
3	Containment		0 1 2 3		1	1	3	, 3.3
4	Waste Cnaracterist Toxicity/Persiste Hazardous Waste Quantity	ence	0 3 6 9 <u>12</u> 0 1 <u>2</u> 3 4	15 18 5 6 7 8	1	12 2	18 8	3.4
	,		Total Waste Character	stics Score		14	26	
5	Targets Ground Water Use Distance to Near Well/Population Served	rest	0 1 2 3 0 4 6 8 12 16 18 20 24 30 32 35	10 40	3 1	3 O	9 40	3.5
								7
			Total Targets S	Score		3	49	
6	If line 1 is 45, If line 1 is 0, r	multiply nultiply	1 x 4 x 5 2 x 3 x 4 x [	5]		336	57,330	
7	Divide line 6 b	by 57,330	and multiply by 100		Sgw	5		

FIGURE 2
GROUND WATER ROUTE WORK SHEET

		Sı	uriace Wat	er Route	Work Shee	et			
	Rating Factor			ed Value e One)		Multi- plier	Score	Max. Score	Ref. (Section
1	Observed Release		0	45		1	0	45	4.1
	If observed release is								
2	Route Characteristics Facility Slope and In	itervening	① 1 2	3		1	0	3	4.2
	Terrain 1-yr. 24-hr. Rainfall Distance to Nearest	Surface	0 1 (2 0 1 (2	) 3 ) 3		1 2	2 4	3 6	
	Water Physical State		0 1 2	3		1	3	3	
		Total	Route Cha	aracterist	ics Score		9	15	
3	Containment		0 1 2	3		1	1	3	4.3
4	Waste Characteristics Toxicity/Persistence Hazardous Waste Ouantity	3	0 3 6 0 1 <u>2</u>	9 12 1 3 4	5 18 5 6 7 8	1	12 2	18 8	4.4
		Total	Waste Ch	aracteris	ics Score		14	26	
5	Targets Surface Water Use Distance to a Sensit	tive	(i) 1 0 (1)	2 3 2 3		3 2	0	9 6	4.5
	Environment Population Served/E to Water Intake Downstream		0 4 12 16 24 30	6 8 18 20 32 35	10 40	1	0	40	
			Total Ta	rgets Sc	ore		/	55	
6	If line 1 is 45, mult	Itiply 1 iply 2 x	× 4 × 1	5 4 × 5			126	64,350	

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

		Air Rou	te Work S	heel				
Rating Factor		Assigne (Circle	d Value (One)		Multi- plier	Score	Max. Score	Ref. (Section)
Observed Release		0	45		1	Õ	45	5.1
Date and Location:								
Sampling Protocol:	•							
If line 1 is 0, the If line 1 is 45, the	ne S <sub>a</sub> = 0. I	Enter on line ed to line 2	<b>5</b> .					
Waste Characterist	tics	0 1 2	3		. 1		3	5.2
Incompatibility Toxicity Hazardous Waste		0 1 2 0 1 2	3 3 4 5	6 7 8	3 1		9 8	
<b>Quantity</b>								
	To	otal Waste Ch	aracteristic	s Score			20	
Targets Population Within 4-Mile Radius Distance to Sens Environment		_	30 3		1 2		30 6 3	5.3
Land Use		0 1 2	3		1		3	
			•				·	1 ·
4.		Total Ta	rgets Sco	e .			39	
4 Multiply 1 x [	2 × 3	•.					35,100	
5 Divide line 4 t	by 35,100 a	nd multiply by	100		Sa;	- 0		

FIGURE 9 AIR ROUTE WORK SHEET

S	s²
. 2	0.04
.5	0.25
0.0	0.0
	.29
	.54
	.31
	.2

FIGURE 10
WORKSHEET FOR COMPUTING SM

Fire and Explosion Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
1 Containment	3	1	1	3	7.1	
Waste Characteristics Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Ouantity	① 3 ① 1 2 3 ② 1 2 3 ② 1 2 3 ① 1 2 3 4 5 6 7 8	1 1 1 1	00007	3 3 3 8	7.2	
	Total Waste Characteristics Score		2	20		
Distance to Nearest Population Distance to Nearest Building Distance to Sensitive Environment Land Use Population Within 2-Mile Radius Buildings Within 2-Mile Radius	0 1 2 3 4 5 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 4 5 0 1 2 3 4 5	1 1 1 1 1	420355	5 3 3 5 5	7.3	
	Total Targets Score		19	24		
4 Multiply 1 x 2 x 3			38	1,440		
5 Divide line 4 by 1,440 and multiply by 100 SFE = 2.6						

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

		Direct Contact Wor	k Sneet				
	Rating Factor	Assigned Value (Circle One)		Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Incident	<u>(</u> ) 45		1	0	45	8.1
	If line 1 is 45, proceed  If line 1 is 0, proceed t						
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	0 1 2 3 4 5		4 .	16	20	8.5
	1-Mile Radius Distance to a Critical Habitat	0 1 2 3		4	0	12	
	. [	•	1000		T , ,	T	1
	·	Total Targets Sco	re		16	32	
6	If line 1 is 45, multiply If line 1 is 0, multiply	1 x 4 x 5 2 x 3 x 4 x 5			7200	21,600	
7	Divide line 6 by 21,600	and multiply by 100		SDC .	<del>-</del> 3,3		

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:	Donner-Hanna Coke	
LOCATION:	Abby and Mystic Streets, Buffalo, NY	

#### GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

And Application of the

Rationale for attributing the contaminants to the facility:

\* \* \*

# 2 ROUTE CHARACTERISTICS

# Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

CHONDAGA LIMESTONE - DAKE PERSE TEXTURES LIMESTONE DITY INTERRESTED STALL. OVERALL TRICKNESS \$110 FT. SOLUTION OF JOINTS AND BEDDING PLANES CREATES OPENING FOR STOKAGE AND TRANSMISSION OF LARGE VOLUMES OF WATER.

CAMILLAS SHALE - GRAY STALE WAS INTERPOSED LIMESTONE AND DELOMITE.

DISCUMS OF GURSUM BEST LEAVES OPENINGS FOR STRAGE OF LARGE YELLIMES OF WATER.

MOST PRODUCTIVE AQUIFER IN THE AREA. HIGH H.S CONTENT LIMITS HIE. & 400 FT THICK

Depth(s) from the ground surface to the highest seasonal level of the (REF 3 & 5 saturated zone [water table(s)] of the aquifer of concern:

111 3

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

O FEET

#### Net Precipitation

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

(REF 6) 36 INCHES

Mean annual lake or seasonal evaporation (list months for seasonal): 27 INCHES (REF 6)

Net precipitation (subtract the above figures): 9 INCHES

#### Permeability of Unsaturated Zone

Soil type in unsaturated zone:

SILTY CLAY MATRIX.

Permeability associated with soil type:

Ity associated with soil type:
$$\angle 10^{-5} \ge 10^{-7} \frac{\text{cm}}{\text{sec}}$$
(Ref 6)

#### 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:

NO CONTAINMENT EMPLOYED

Method with highest score:

HONE 3

#### 4 WASTE CHARACTERISTICS

#### Toxicity and Persistence

Compound(s) evaluated:

NYSDEC HAS DETERMINED THAT LANDSPREAD SLUDGES PASSED THE EP TOXICITY TEST
NO OTHER SAMPLING HAS BEEN PERFORMED.

Compound with highest score:

#### 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):

Basis of estimating and/or computing waste quantity:

#### 5- TARGETS

#### Ground Water Use

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

INDUSTRIAL IS THE ONLY DOCUMENTED USE OF GROUNDWATER.

ENTIRE AREA IS SERVICED BY MUNICIPAL WATER DRAWN
FROM LAKE ERIE. (REF 3)

#### Distance to Nearest Well

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

INSULTRIAL WELL IS LOCATED ON THE PLANT PROPERTY.

(REF 3)

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 REPORTED WELLS ARE USED FOR INDUSTRIAL PURPOSES (REF 3)

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):

(1) FAMELY, HE OF THE ATTREE OF THE

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 7).
DISCHARGEL INTO LAKE EXIE NEAR THE SOURCE
OF THE NIAGARA RIVER. (REF 4)

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?  $\mathcal{N}_{\mathbf{o}}$ 

Is the facility completely surrounded by areas of higher elevation?  $\mathcal{N}_{o}$ 

1-Year 24-Hour Rainfall in Inches

2.1 INCHES

Distance to Nearest Downslope Surface Water

2000 FT (REF 4)

Physical State of Waste

SLUD4É

\* \* \*

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

NO CONTAINMENT

Method with highest score:

#### 4 WASTE CHARACTERISTICS

#### Toxicity and Persistence

Compound(s) evaluated

NA

Compound with highest score:

NA

#### 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):

Basis of estimating and/or computing waste quantity:

\* \* \*

#### 5 TARGETS

#### Surface Water Use

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

DRINKING COMMERCIAL RECREATIONAL LAKE ERIE AND THE NIA STA RIVER

ARE RATED AS CLASS A SPECIAL

(INTERNATIONAL BOUNDARY) WATER RESOURCES.

BEST USER (NOLUME SEURCE OF DRINKING

WATER SUPPLY AND USE FOR CULINARY

FOOD PROCESSING. (REF. 7)

Is there tidal influence?

No

# Distance to a Sensitive Environment

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

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

TIFFT FARM NATURE PRESERVE IS LOCATED 3800 FT WEST

OF THE PLANT. (REF 4)

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:

POPULATION APPROXIMATELY 700,000

BUFFALO PUBLIC WATER INTARE IS LOCATED IN LAKE ERIE NEAR THE SOURCE OF THE NIAGARA RIVER APPROXIMATELY 5 MILES FROM THE SITE. (REF. 4) Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

NA

Total population served:

APPROXIMATELY 700,000

Name/description of nearest of above water bodies:

LAKE ERIE - CLASS A SPECIAL (WTERNATIONAL ROUNDARY)
WATER RESOURCE.

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

INTAKES ARE APPROXIMATELY 5 MILES FROM THE SITE, (REF 4)

1	OBSERVED	RELEASE

NA

Contaminants detected:

NA

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:

T	o	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

O to 1 mi

0 to 1/2 mi

0 tc

mi

ned:

#### Distance to a Sensitive Environment

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

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

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

#### Land Use

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

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

Distance to residential area, if 2 miles or less:

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

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

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

.0	匚	DΛ
66		FA

# POTENTIAL HAZARDOUS WASTE SITE

	IFICATION
DI STATE	DZ SITE NUMBER

A. ACTIVE B. INACTIVE C. UNKNOWN  BEGINNING YEAR ENDING YEAR  UNKNOWN  04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
DENNER HANNA CORE  ARBY E MISTIC STREETS  03 CITY  BUFFALO  09 COORDINATES LATITUDE  LONGITUDE  HEST LETT. 2 DIESELE LONGITUDE  HEST LONGITUDE  LONGITUDE  OS STREET (AUGUSTA), RAMPO, INSIGNING  OS CITY  OS CITY  OS STREET (AUGUSTA), RAMPO, INSIGNING  OS STREET (AUGUSTA), RAMPO, INSIGNING  OS CITY  OS CITY  OS CITY  OS STREET (AUGUSTA), RAMPO, INSIGNING  OS STREET (AUGUSTA), RAMPO, INSIGNING  OS CITY  OS STREET (AUGUSTA), RAMPO, INSIGNING  OS STREET (AUGUSTA), RAMPO, INSIGNING  OS CITY  OS CONNINOWN  OS STREET (AUGUSTA), RAMPO, INSIGNING  OS CITY
DI CONGINATES LATITUDE  HE STATES  10 DIRECTIONS TO S.TE (Summy No. ***********************************
DI CONGINATES LATITUDE  HE STATES  10 DIRECTIONS TO S.TE (Summy No. ***********************************
DI CONGINATES LATITUDE  HE STATES  10 DIRECTIONS TO S.TE (Summy No. ***********************************
DI CONGINATES LATITUDE  HE STATES  10 DIRECTIONS TO S.TE (Summy No. ***********************************
10 DIRECTIONS TO STE (Suring Increase)  10 DIRECTIONS TO STEE (Suring Increase)  11 DIRECTIONS TO STEE (Suring Increase)  12 TELEPHONE NUMBER (())  13 TYPE OF OWNERSHIP (Conserve)  13 TYPE OF OWNERSHIP (Conserve)  14 DIRECTIONS TO STATE (INCREASE INCREASE)  15 TYPE OF OWNERSHIP (Conserve)  16 DIRECTIONS TO STATE (INCREASE INCREASE)  17 DIRECTIONS TO STATE (INCREASE INCREASE)  18 DIRECTIONS TO STATE (INCREASE INCREASE)  19 DIRECTIONS TO STATE (INCREASE INCREASE INCREA
III. RESPONSIBLE PARTIES  01 OWNER(IFAMERI)  DESTRIES (BURRES) MAND, ISSUERING)  LEPUR LIC STEEL  DA STATE (D S 2IP CODE   OB TELEPHONE NUMBER
III. RESPONSIBLE PARTIES  O1 OWNER(France)    C   C   C   C
DISTATE OF DIVINERSHIP (Chief and of the first of the fir
08 STÄEET (Business, mannop, residential)  09 CITY  10 STATE   11 ZIP CODE   12 TELEPHONE NUMBER   ( )  13 TYPE OF OWNERSHIP (Check down AT A PRIVATE   B. FEDERAL:
08 STÄEET (Business, mannop, residential)  09 CITY  10 STATE   11 ZIP CODE   12 TELEPHONE NUMBER   ( )  13 TYPE OF OWNERSHIP (Check down AT A PRIVATE   B. FEDERAL:
08 STREET (Business, marring, residential)  09 CITY  10 STATE   11 ZIP CODE   12 TELEPHONE NUMBER   (
08 STÄEET (Business, mannop, residential)  09 CITY  10 STATE   11 ZIP CODE   12 TELEPHONE NUMBER   ( )  13 TYPE OF OWNERSHIP (Check down AT A PRIVATE   B. FEDERAL:
13 TYPE OF OWNERSHIP ICNAES ONE    A PRIVATE   B FEDERAL:
13 TYPE OF OWNERSHIP ICNAES ONE    A PRIVATE   B FEDERAL:
13 TYPE OF OWNERSHIP (Check down    A. PRIVATE   B. FEDERAL:   (Approx name)   G. UNKNOWN
C. STATE   D. COUNTY   E. MUNICIPAL   G. UNKNOWN   E. MUNICIPAL   G. UNKNOWN   G.
C. STATE   D. COUNTY   E. MUNICIPAL   G. UNKNOWN   E. MUNICIPAL   G. UNKNOWN   G.
F. OTHER:
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check as fitted apply)  A. RCRA 3001 DATE RECEIVED: / / / MONTH DAY YEAR
DATE RECEIVED:   B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED:   C. NONE  IV. CHARACTERIZATION OF POTENTIAL HAZARD  D1 ON SITE INSPECTION   BY (Check at Instrappy)   B. EPA CONTRACTOR   C. STATE   D. OTHER CONTRACTOR   P. OTHER:   C. STATE   D. OTHER CONTRACTOR   D. OTHER CONTRACTOR   C. STATE   D. OTHER CONTRACTOR   D. OTHER CO
IV. CHARACTERIZATION OF POTENTIAL HAZARD  O1 ON SITE INSPECTION  SY (Check #2 Inst apply)  YES DATE  NO  NO  CONTRACTOR NAME(S):  O2 SITE STATUS (Check #00)  A. ACTIVE  B. INACTIVE  C. UNKNOWN  B. EPA CONTRACTOR  B. EPA CONTRACTOR  C. STATE  D. OTHER CONTRACTOR  (Specify)  O3 YEARS OF OPERATION  BEGINNING YEAR  NONTH DAY YEAR  D. OTHER CONTRACTOR  UNKNOWN  UNKNOWN  BEGINNING YEAR  NONTH DAY YEAR  D. OTHER CONTRACTOR  UNKNOWN  UNKNOWN  O4 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
D1 ON SITE INSPECTION    YES   DATE
YES DATE
YES DATE   MONTH DAY YEAR   E. LOCAL HEALTH OFFICIAL   F. OTHER:   (Specify)
CONTRACTOR NAME(S):  02 SITE STATUS (CMC 000)  03 YEARS OF OPERATION  04 A ACTIVE  B. INACTIVE  C. UNKNOWN  BEGINNING YEAR ENDING YEAR  UNKNOWN  04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
A ACTIVE B. INACTIVE C. UNKNOWN  BEGINNING YEAR ENDING YEAR  UNKNOWN  04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
A. ACTIVE B. INACTIVE C. UNKNOWN  BEGINNING YEAR ENDING YEAR  UNKNOWN  04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
•
0.5 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
•
·
V. PRIORITY ASSESSMENT  01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
1 Of DDIODITY COD INCOCOTION (Charters are which as medium is charted, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
A. HIGH B. MEDIUM C. LOW D. NONE [Inspection required promptly] [Inspection required] [Inspect on time available basis] (No further action needed, complete current disposition form)
□ A. HIGH □ B. MEDIUM □ C. LOW □ D. NONE [Inspection required] [Inspect on time available basis] (No further action needed, complete current disposition form)  VI. INFORMATION AVAILABLE FROM
□ A. HIGH □ B. MEDIUM □ C. LOW □ D. NONE (Inspection required) □ (Inspect on time available basis) □ D. NONE (No further action needed, complete current disposition form)  VI. INFORMATION AVAILABLE FROM  01 CONTACT □ 02 OF (Agency/Organization) □ 0. NONE (No further action needed, complete current disposition form)  03 TELEPHONE NUMBER
□ A. HIGH □ B. MEDIUM □ C. LOW □ D. NONE (Inspection required) □ (Inspect on time available basis) □ D. NONE (No further action needed, complete current disposition form)  VI. INFORMATION AVAILABLE FROM  01 CONTACT □ 02 OF (Agency/Organization) □ 0. NONE (No further action needed, complete current disposition form)  03 TELEPHONE NUMBER
A. HIGH [Inspection required] B. MEDIUM [Inspection required] C. LOW D. NONE [Inspection required] Inspection required] D. NONE [No further action needed, complete current disposition form)  VI. INFORMATION AVAILABLE FROM  02 OF [Apency/Organization] 03 TELEPHONE NUMBER  O3 TELEPHONE NUMBER

# **SEPA**

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

l.	IDENT	IFI	CAT	ION
01	STATE	02	SITE	NUMBER

<b>SOLI</b>	A		PART 2 - WAST	EINFORMATION			
II WASTE ST	TATES, QUANTITIES, AN	D CHARACTER	RISTICS				
O1 PHYSICAL ST	E SLURRY  R. FINES L. F. LIOU:D	02 WASTE OUAN (Measures musi b TONS		D3 WASTE CHARACTI  A TOXIC  B CORRO  C RADIOA  D PERSIS	CTIVE G G FLAME	BLE L HIGHLYN TIOUS D J EXPLOS MABLE D K. REACTIV	IVE VE PATIBLE
C D OTHER	(Specdy)	NO OF DRUMS				J W 1101 A	
III. WASTE T	YPE						
CATEGORY	SUBSTANCE N	IAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMÉNTS		
SLU	SLUDGE						
OLW	OILY WASTE						
SOL	SOLVENTS				·		
PSD	PESTICIDES						
occ	OTHER ORGANIC CH	HEMICALS					
10C	INORGANIC CHEMIC	ALS					
ACD	ACIDS						:
BAS	BASES						
MES	HEAVY METALS						
IV. HAZARD	OUS SUBSTANCES (500 A	ppendix for most frequi		T		05 CONCENTRATION	06 MEASURE OF CONCENTRATION
01 CATEGORY	02 SUBSTANCE N	IAME	03 CAS NUMBER	04 STORAGE:DIS	POSAL METHOD	05 CONCENTRATION	CONCENTRATION
							-
						<u> </u>	
					-		
-							
V EEEDSTO	OCKS (See Appendix for CAS Num	bersl					
CATEGORY			02 CAS NUMBER	CATEGORY	O1 FEEDS1	TOCK NAME	02 CAS NUMBER
<u> </u>				FDS			
FDS				FDS			
FDS				FDS			1
FDS				FDS			
FDS	TO OF WEODINATION IS		a n. riste lees sample analys				
VI. SOURCE	S OF INFORMATION IC	es specsic relevences,	e.y., state mes, sample energy				2
							•
l							

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#### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

J 1.	INEM	IFICA	ı	IUN
01	STATE	02 511	E	NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS				
01 [] A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:	)	□ POTENTIAL	□ ALLEGED
01 DB. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 TOBSERVED (DATE:	)	☐ POTENTIAL	☐ ALLEGED
01   C. CONTAMINATION OF AIR  03 POPULATION POTENTIALLY AFFECTED:	02 □ OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	)	D POTENTIAL	□ ALLEGED
			•	
01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED.	02 © OBSERVED (DATE:	)	☐ POTENTIAL	□ ALLEGED
	:			
01 ☐ E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 G OBSERVED (DATE:04 NARRATIVE DESCRIPTION	•) -	□ POTENTIAL	□ ALLEGED
01 E F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: (Acres)	02 D OBSERVED (DATE:04 NARRATIVE DESCRIPTION	)	D POTENTIAL	□ ALLEGED
01 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIA! LY AFFECTED:	02   OBSERVED (DATE:	)	□ POTENTIAL	□ ALLEGED
01 D H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02  OBSERVED (DATE:	)	□ POTENTIAL	□ ALLEGED
01 🗆 I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:	)	☐ POTENTIAL	E ALLEGED
	- <del>-</del>			

1.	IDENT	IF	CAT	ION	
01	STATE	02	SUTE	NUMBER	

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued) ☐ POTENTIAL □ ALLEGED 01 D J DAMAGE TO FLORA 02 D OBSERVED (DATE: \_\_\_\_ 04 NARRATIVE DESCRIPTION □ ALLEGED □ POTENTIAL 01 D K. DAMAGE TO FAUNA 02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION (Means name(s) of species) □ POTENTIAL □ ALLEGED 02 D OBSERVED (DATE. \_\_\_\_ 01 D L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION ☐ POTENȚIAL ☐ ALLEGED 01 D M. UNSTABLE CONTAINMENT OF WASTES 02 OBSERVED (DATE: \_\_ (Spanishoff standing liquids/waaring drums 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED: D POTENTIAL ☐ ALLEGED 01 D N. DAMAGE TO OFFSITE PROPERTY 02 OBSERVED (DATE: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION ☐ POTENTIAL ☐ ALLEGED 01 □ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 □ OBSERVED (DATE: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION ☐ POTENTIAL ☐ ALLEGED 02 D OBSERVED (DATE: \_\_\_ 01 G P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION 05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS III. TOTAL POPULATION POTENTIALLY AFFECTED: IV. COMMENTS V. SOURCES OF INFORMATION (Cae specific references, e. g., state files, sample analysis, reports)

SEPA PART 1 - SITE L	ITIAL HAZAR SITE INSPECT OCATION AND	ION RE	PORT	ATION	I. IDENTIFIC	SITE NUMBER
II. SITE NAME AND LOCATION		0	L BOUTENO COCC	PECIFIC LOCATION IO	DENTIFIER	
O1 SITE NAME (Legal common, or descriptive name of site)		UZ STREET	I, HOUTE NO., OH SP	1374 STR	PETS	
DONNER-HANNA COKE			05 ZIP CODE	06 COUNTY		07COUNTY 08 CONG CODE DIST
BUFFALO		NY	14220	ERIE		
42°51'15.0 078'50 30.0	TYPE OF OWNERSH  A. PRIVATE  F. OTHER	B. FED	ERAL	C.STATE D	D. COUNTY ( G. UNKNOWN	E. MUNICIPAL
III. INSPECTION INFORMATION OI DATE OF INSPECTION	3 YEARS OF OPERAT	ION				
7,28,83 ACTIVE	BEG	NNING YEA	R ENDING YEAR		NKNOMN	
	o of ferm)			MUNICIPAL CONTR	ACTOR	(Name of firm,
☐ E. STATE ☐ F. STATE CONTRACTOR	e of firm)	G. OT	HEH	(Specify)	ו אמוד	08 TELEPHONE NO.
DS CHIEF INSPECTOR	06 TITLE	1 K/LI	<t< td=""><td>DETOD</td><td></td><td>(716) 838-6200</td></t<>	DETOD		(716) 838-6200
ADDRE J. LAPRES	10 TITLE	<u> </u>	١	11 ORGANIZA	RCH THE	12 TELEPHONE NO.
PATRICIA PERRY	GEDI 10 TITLE GEDI	041	5T			( ) #
DIANE M. WERNEIWSKI	GEDI	-061	ST	1'		( ) "
						( )
						( )
						( )
13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	1	15ADDRESS	I	~	16 TELEPHONE NO
ED HARTMAN	SUPERINTE	NDEWI	ABBY4 M	VSTICS 57	REED	( )
						( )
						( )
						( )
						( )
						( )
17 ACCESS GAINED BY 18 TIME OF INSPECTION	19 WEATHER CON	IDITIONS				
MAPERMISSION   10:00 AM	OVERCAC		ARM		•	JAMA III
IV. INFORMATION AVAILABLE FROM						03 TELEPHONE NO.
OI CONTACT RICHARD L CROUCH	02 OF Mgoncy/Orga	inization) RESI	earch :			17161838-8200
ANDRE J. LAPRES	OS AGENCY Same		GANIZATION	07 TELEPHON	E NO.	08 DATE  9,2,83  MONTH DAY YEAR

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# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

	IFICATION
O1 STATE	02 SITE NUMBER

WASTEST	ATES, QUANTITIES, AI	ND CHARACTER	ISTICS					
DIA SOLID LIE SLURRY LIB POWDER, FINES LIF, LIQUID TONS YC SLUDGE LIG GAS CUBIC YARDS		of waste quentries o independent)	O3 WASTE CHARACTERISTICS (Check at Instance  U. A. TOXIC  U. B. COHROSIVE  U. F. INFECTI  U. C. RADIOACTIVE  U. D. PERSISTENT  U. H. IGNITAB		IBLE CTIOUS MABLE	C. I HIGHLY VI C. J. EXPLOSII C. K. REACTIV C. E. INCOMPI C. M. NOT APP	ISIVE TIVE IPATIBLE	
	(Spec#y)	T NO OF BROWN		]				
. WASTE T	PE SUBSTANCE	NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS			
ATEGORY	SLUDGE							
SLU	OILY WASTE							
OLW	SOLVENTS							
SOL	PESTICIDES							
PSD	OTHER ORGANIC C	THE MICALS						
occ	INORGANIC CHEMI							
юс	ACIDS							
ACD	BASES							
BAS MES	HEAVY METALS							
	OUS SUBSTANCES (5	Appendix for most freque	ntly cried CAS Numbers)					T OF MEASURE C
CATEGORY	02 SUBSTANCE		03 CAS NUMBER	04 STORAGE/DISE	POSAL METHOD	05 CONC	ENTRATION	06 MEASURE C CONCENTRATION
								<u> </u>
			·					
V FEFDST	OCKS (See Appendix for CAS N	umbers)						7
CATEGOR		OCK NAME	02 CAS NUMBER	CATEGORY	01 FEED	01 FEEDSTOCK NAME		02 CAS NUMB
FDS				FDS				
FDS				FDS				-
FDS				FDS				<del> </del>
FDS				FDS	<u> </u>			<u> </u>
	ES OF INFORMATION			are reports)				

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

-1	I. IDENTIFICATION								
	01	STATE	02 SITE NUMBER						

HAZARDOUS CONDITIONS AND INCIDENTS				
1 A. GROUNDWATER CONTAMINATION 3 POPULATION POTENTIALLY AFFECTED:	02 □ OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	/ \	POTENTIAL	
Possible Presence Into Ground Water	OF COUTAMINANTS, POTENTIA	L FOR	Leikch II	D &
1 □ B. SURFACE WATER CONTAMINATION	02 D OBSERVED (DATE:	_) 🔀	POTENTIAL	☐ ALLEGED
POSSIBLE PRESENCE OF	O4 NARRATIVE DESCRIPTION  COUTAMINANTS, POTENTIAL	FOR	LEACHNG	וטדט
Surface waters				
D1 C. CONTAMINATION OF AIR D3 POPULATION POTENTIALLY AFFECTED:	02 🗆 OBSERVED (DATE:	_) □	POTENTIAL	□ ALLEGED
D1 D. FIRE/EXPLOSIVE CONDITIONS D3 POPULATION POTENTIALLY AFFECTED:	02 🗆 OBSERVED (DATE:	) □	POTENTIAL	□ ALLEGED :
01 □ E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:04 NARRATIVE DESCRIPTION		POTENTIAL	□ ALLEGED
01 □ F. CONTAMINATION OF SOIL	02 C OBSERVED (DATE:		POTENTIAL  LEACH	ALLEGED
	F COUTAMINANTS, POTENTIAL			
프로프로 그리고 있는데 그리고 있다면 그 그 그리고 있다. 그리고 있는데 그리고 있는데 그리고 있다면 그리고 있	E CONTAMINADIS, POTENTIA			
	02 G OBSERVED (DATE:		C POTENTIAL	□ ALLEGED
POSSIBLE PRESENCE D  INTO SOILS  O1 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:  O1 G. DRINKING WATER CONTAMINATION 04 POPULATION POTENTIALLY AFFECTED:	02 □ OBSERVED (DATE:	)	O POTENTIAL	
POSSIBLE PRESENCE DIUTO SOILS  01 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 [] OBSERVED (DATE:	)		□ ALLEGED

1.	IDENT	IFICAT	ION
	CTATE	00 5171	AHMADER

O1	ERVED (DATE:  ERVED (DATE:  ERVED (DATE:  TIVE DESCRIPTION  ERVED (DATE:		POTENTIAL  POTENTIAL  POTENTIAL  POTENTIAL	☐ ALLEGED  ☐ ALLEGED  ☐ ALLEGED  ☐ ALLEGED
A NARRATIVE DESCRIPTION	ERVED (DATE:  ERVED (DATE:  TIVE DESCRIPTION  ERVED (DATE:		POTENTIAL  POTENTIAL  POTENTIAL	ALLEGED  ALLEGED
O2	ERVED (DATE:  ERVED (DATE:  TIVE DESCRIPTION  ERVED (DATE:		POTENTIAL	☐ ALLEGED  ALLEGED
101  L CONTAMINATION OF FOOD CHAIN 101  M. UNSTABLE CONTAINMENT OF WASTES 103 POPULATION POTENTIALLY AFFECTED. 101  N. DAMAGE TO OFFSITE PROPERTY 101  N. DAMAGE TO OFFSITE PROPERTY 102  O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS 103 N. DAMAGE TO OFFSITE PROPERTY 104 NARRATIVE DESCRIPTION 105  O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS 106 NARRATIVE DESCRIPTION 107  O P. ILLEGAL/UNAUTHORIZED DUMPING 108 NARRATIVE DESCRIPTION 109 N. DAMAGE TO OFFSITE PROPERTY 109 NARRATIVE DESCRIPTION 100 O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS 101  O P. ILLEGAL/UNAUTHORIZED DUMPING 102  O CONTAMINATIVE DESCRIPTION 103 NARRATIVE DESCRIPTION 104 NARRATIVE DESCRIPTION 105 NARRATIVE DESCRIPTION 106 NARRATIVE DESCRIPTION 107 NARRATIVE DESCRIPTION 108 NARRATIVE DESCRIPTION 109 NARRATIVE DESCRIPTION 109 NARRATIVE DESCRIPTION 109 NARRATIVE DESCRIPTION 109 NARRATIVE DESCRIPTION 109 NARRATIVE DESCRIPTION 109 NARRATIVE DESCRIPTION	ERVED (DATE:  ERVED (DATE:  TIVE DESCRIPTION  ERVED (DATE:		POTENTIAL	☐ ALLEGED  ALLEGED
01	ERVED (DATE: TIVE DESCRIPTION  ERVED (DATE:	) □	POTENTIAL	ALLEGED
01	ERVED (DATE: TIVE DESCRIPTION  ERVED (DATE:	) □	POTENTIAL	ALLEGED
O1 D N. DAMAGE TO OFFSITE PROPERTY O2 DBS O1 D O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs O4 NARRATIVE DESCRIPTION  O1 D P. ILLEGAL/UNAUTHORIZED DUMPING O4 NARRATIVE DESCRIPTION  O2 DBS O4 NARRATIVE DESCRIPTION	TIVE DESCRIPTION  ERVED (DATE:	) □	POTENTIAL	: ALLEGED
O1 D N. DAMAGE TO OFFSITE PROPERTY O2 DBS O1 D O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs O4 NARRATIVE DESCRIPTION  O1 D P. ILLEGAL/UNAUTHORIZED DUMPING O4 NARRATIVE DESCRIPTION  O2 DBS O4 NARRATIVE DESCRIPTION	TIVE DESCRIPTION  ERVED (DATE:	) □	POTENTIAL	: ALLEGED
01  N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION  01  O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION  01  O. P. ILLEGAL/UNAUTHORIZED DUMPING  02  OBS	ERVED (DATE:			
01  O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02  OBS 04 NARRATIVE DESCRIPTION  01  P. ILLEGAL/UNAUTHORIZED DUMPING 02  OBS 04 NARRATIVE DESCRIPTION				
04 NARRATIVE DESCRIPTION	ERVED (DATE:	) 0	POTENTIAL	□ ALLEGED
04 NARRATIVE DESCRIPTION  01  P. ILLEGAL/UNAUTHORIZED DUMPING  04 NARRATIVE DESCRIPTION  09 OBS				
04 NARRATIVE DESCRIPTION				
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZAR	SERVED (DATE:	) 0	POTENTIAL	□ ALLEGED
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZAR				
	DS			
III. TOTAL POPULATION POTENTIALLY AFFECTED: IV. COMMENTS				
IV. COMMENIA				
	٠			
		-		
V. SOURCES OF INFORMATION (Can specific references, e.g., state lies, sample analysis	, reports;			

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	10000		
<b>B</b> <i>L</i>			۸.

### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION

I. IDENTIFICATION		
01 STATE	02 SITE NUMBER	

<b>WEFA</b>	PART 4 - PERMI	T AND DESCRI	PTIVE INFORMAT	ION	
I. PERMIT INFORMATION		03 DATE ISSUED	04 EXPIRATION DATE	1 05 COMMENTS	
11 TYPE OF PERMIT ISSUED (Check at Inal apply)	02 PERMIT NUMBER	03 DATE 1550ED	DA EXPIRATION DATE		
A NPDES	NY0003310				
□ B UIC					
C AIR					
D. RCRA					
☐ E. RCRA INTERIM STATUS					
□ F. SPCC PLAN					
G. STATE (Specify)					
□ H. LOCAL <sub>(Spechy)</sub>					
□ I. OTHER (Specify)					
□J. NONE				<u> </u>	
III. SITE DESCRIPTION					05 OTHER
D1 STORAGE/DISPOSAL (Check all Intel apply)	02 AMOUNT 03 UNIT	OF MEASURE 04	TREATMENT (Check all that	apply)	US OTHER
□ A. SURFACE IMPOUNDMENT  ■ B. PILES □ C. DRUMS, ABOVE GROUND □ D. TANK, ABOVE GROUND □ E. TANK, BELOW GROUND □ F. LANDFILL □ G. LANDFARM □ H. OPEN DUMP □ I. OTHER □ (SOPECEY)	NAKNDMN		A. INCENERATION B. UNDERGROUND IN. C. CHEMICAL/PHYSIC D. BIOLOGICAL E. WASTE OIL PROCES F. SOLVENT RECOVER G. OTHER RECYCLING H. OTHER	SSING RY	O6 AREA OF SITE
IV. CONTAINMENT  O1 CONTAINMENT OF WASTES (Checa one)	□ B. MODERATE	<b>☆</b> C. INAD	EQUATE, POOR	□ D. INSECT	URE, UNSOUND, DANGEROUS
☐ A. ADEQUATE, SECURE					
02 DESCRIPTION OF DRUMS, DIKING, LINERS  NO CONTRIL	S, BARRIERS, ETC.  )MENT EMP	ruyen			
Y. ACCESSIBILITY	and production of the second				
01 WASTE EASILY ACCESSIBLE: 1 02 COMMENTS	YES DNO			·	
	and the same state from	s sample analysis reports			
VI. SOURCES OF INFORMATION (C.	te specific references, e.g. state ties	3. 321V C. 1730, 120013)			

		"

	IFICATION
O1 STATE	02 SITE NUMBER

SE	PΔ		SITE INSPEC	TION REF	PORT				
AV LLI	<b>3</b> * <b>1</b>	PART 5 - WATER	, DEMOGRAPHI	C, AND E	VIRONN	MENTAL DATA			
II. DRINKING	G WATER SUPPLY						i		
O1 TYPE OF DE	IINKING SUPPLY		02 STATUS				0:	3 DISTANCE TO SIT	E
	SURFACE	WELL	ENDANGERE	D AFFE	CTED	MONITORED			n
COMMUNITY	A.X	8. □	A. 🗆	В.		C. 🗆	A		(mi) (mi)
NON-COMMI	JNITY C. □	D. 🗆	D. 🔾	Ε.		F. 🔾			1,,,,,
III. GROUND	WATER								
01 GROUNDWA	TER USE IN VICINITY (CARCE)	one)							
□ A ONLY	SOURCE FOR DRINKING	☐ B DRINKING (Other sources availab COMMERCIAL, INC (No other water source	DUSTRIAL, IRRIGATIO	n.	OMMERCIAL	, INDUSTRIAL, IRRIGAT (ces available)	TION	D. NOT USED, UP	IUSEABLE
02 POPULATIO	N SERVED BY GROUND WAT	ren <u>6</u>		03 DISTANC	E TO NEARE	ST DRINKING WATER \	WELL		(mi)
04 DEPTH TO G	BOUNDWATER	05 DIRECTION OF GRO	UNDWATER FLOW	O6 DEPTH TO	AQUIFER	07 POTENTIAL YIEL	D	OB SOLE SOURC	E AQUIFER
				OF CONC		OF AQUIFER	landi	☐ YES	□ NO
	(ft)				(ft)		_ (gpd)	<u> </u>	
									:
10 RECHARGE	AREA	V 1		11 DISCHAR	1				
☐ YES C	OMMENTS			☐ YES	COMMEN	πs			
D NO				□ NO					
IV. SURFACE	EWATER								
01 SURFACE W	ATER USE (Check one)								
	ERVOIR, RECREATION KING WATER SOURCE	☐ B. IRRIGATIO	N. ECONOMICALLY IT RESOURCES	′ □ C. (	COMMERC	IAL, INDUSTRIAL	0	D. NOT CURREN	TLYUSED
02 AFFECTED/	POTENTIALLY AFFECTED BY	ODIES OF WATER							
NAME:						AFFECTED	•	DISTANCE TO	SITE
									(mī)
						0			(mi)
							_		(mi)
La Green Roman and Carlot Co. 1	APHIC AND PROPERT	YINFORMATION			l c	2 DISTANCE TO NEAR	EST POP	PULATION	
	ULATION WITHIN		77 10-5	3) W EC OE	erre		, ,	· —	
			3) MILES OF > 10,000 NO. OF PERSON			2,2	25(mi)		
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE			04 DISTAN	CE TO NEAR	EST OFF-SITE BUILDIN	G			
			•					_(mi)	
	ON WITHIN VICINITY OF SITE	the ide proping decoming	d nature of population with	n vicinary of site.	.p., rural, viñace	e, densely populated urban	vez)		
05 POPULATIO	IN WITHIN VICINITY OF SITE	(клочое выпание рессирной о	» гысығы ы роримския жаса			•••			
				•					·

### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENT	IFICATION
O1 STATE	02 SITE NUMBER

SEPA PART	5 - WATER, DEMOGRAPH	HIC, AND ENVIRONMENTA	DATA	
VI. ENVIRONMENTAL INFORMATION				
O1 PERMEABILITY OF UNSATURATED ZONE (Check one				
		C. 10 <sup>-4</sup> − 10 <sup>-3</sup> cm/sec □ D	GREATER THAN 10-3 cm/sec	
92 PERMEABILITY OF BEDROCK (Check one)			•	
☐ A IMPERMEABLE (Lass than 10 <sup>-6</sup> cm/sec)	D B RELATIVELY IMPERMEAE	BLE C. RELATIVELY PERMEAN	BLE D. VERY PERMEABLE  (Greater (han 10 <sup>-2</sup> cm sec)	
D3 DEPTH TO BEDROCK D4 DEPTH O	F CONTAMINATED SOIL ZONE	05 SOIL pH		
(n)	(ft)		_	
06 NET PRECIPITATION 07 ONE YEA	R 24 HOUR BAINFALL  2.   # (in)	08 SLOPE DIRECTION WITH SITE SLOPE	N OF SITE SLOPE TERRAIN AV	'ERAGE SLOPE
09 FLOOD POTENTIAL  SITE IS IN YEAR FLOODPLAIN	10 ☐ SITE IS ON BARR	RIER ISLAND, COASTAL HIGH HAZ	ARD AREA, RIVERINE FLOODWA	ΥΥ
11 DISTANCE TO WETLANDS (5 acre minimum)		12 DISTANCE TO CRITICAL HABITA	T (of endangered species)	
ESTUARINE	OTHER		(mi)	
A(mi) B	(mi)	ENDANGERED SPECIES		
A(mi)  14 DESCRIPTION OF SITE IN RELATION TO SURROUN  THE SITE IS LO	B		FLAT REGION	
VII. SOURCES OF INFORMATION ICHO SPORT	ic references, e.g., state liles, sample analys	is, reports)		

<u> </u>	,E	D,	Λ
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			ATT.
II. SA	MPLE	S T	AK
90 H-178 T-17	AHASS.		1.7

## POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

		IFICATION
01	STATE	02 SITE NUMBER

WEIF	22, 2014 3	PART 6 - SAMPLE AND FIELD INF		
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IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

08 YEARS OF OPERATION

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01 □ X FIRE CONTROL 04 DESCRIPTION		
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01   Y. LEACHATE TREATMENT 04 DESCRIPTION		
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	02 DATE	03 AGENCY
01 2. POPULATION RELOCATED 04 DESCRIPTION .		
ACTIVITIES	02 DATE	03 AGENCY
01 ☐ 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION		

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



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#### 4.0 Site History

Donner-Hanna Coke Corporation has been a producer of metallurgical coke since its establishment in 1919. The company is owned equally by National Steel and Republic Steel. Apparently, after the acquisition of Donner-Hanna by National and Republic, the name of the company was changed to Donner-Hanna Coke Joint Venture. Production at the plant has recently been discontinued due to the depressed state of the steel industry.

The basic process employed at the plant is pyrolizing raw coal to drive off the volatile constituents so that the fixed carbon and ash are fused together in the resulting coke. By-products which are recovered from this process include water containing phenol and ammonium chloride, and process wastes containing sodium phenolate, methylene chloride, ammonium sulfate, tars and light oil containing benzene, toluene, xylene and naphthalene (Reference 2). Ammonia still effluent, which is a lime slurry effluent, was apparently generated by an ammonia stripping still. This portion of the production process produced a reported 255 tons per year of toxic sludge.

Disposal practices at the plant have varied over the years. The company reports that they have consistently used the practice of pyrolizing process wastes into saleable products by blending the waste material with raw coal prior to the coking process. Available information indicates the company has never contracted with haulers for off-premises disposal of process wastes (Reference 16).

For four (4) years prior to 1952, the company reportedly disposed of ammonia still wastes through a 145 foot deep well into the "black water" bedrock stratum. Since that time these process wastewaters, containing ammonium chloride and small amounts of phenol and cyanide, have been treated before discharge to the Buffalo River. Initial treatment of these waters involved neutralization with lime prior to distillation to remove ammonia. Between 1975 and 1977, lime was replaced with another alkaline material which reduced the quantities of sludge produced from 255 tons per year to 42 tons Treated wastewater was passed through a settling per year (Reference 13). basin and two ponds. The settled material reportedly consisted of silt from Lake Erie waters, calcium chloride and probably some phenol and cyanide. The settled material was then dredged and disposed of in a filled wetland area on-Supernatant was discharged site and, once dry, levelled (Reference 11). through one outfall to the Buffalo River at a rate of approximately nine (9) million gallons/day. The company claims that there were fewer solids in this discharge than were present in the incoming waters (Reference 18). However, sediment in this discharge did result in deposition and restricted flow, requiring the outfall to be dredged annually with subsequent landspreading of the dredged materials (Reference 16).

The grounds in the southern section of plant property were the scene of extensive fill activities over the years. This area was originally a large pond and wetland which was filled for use as a coke storage site. First evidence of fill activities was noted in 1951 aerial photographs. Additional activity at varying levels was noted in 1958, 1960, 1972 and 1975 photographs. The fill material is reported to consist mainly of construction and demolition

debris, slag, and the aforementioned earthen sediments which were derived from process waters. There has been no evidence of hazardous waste disposal in this fill area (Reference 8).

The company employs the service of no waste haulers other than Downing Container Service, which provides and exchanges containers for garbage such as paper, wood, etc. These materials had been incinerated at the plant prior to the prohibiting of open burning (Reference 17).

In November 1978, the Erie County Department of Environment and Planning requested Donner-Hanna Coke to submit a Part 360 permit application. The company, however, does not agree that they are operating a solid waste disposal facility (Reference 15). Review of subsequent correspondence between these parties and the New York State Department of Environmental Conservation (NYSDEC) leaves questions as to what was finally decided and whether a permit application was eventually submitted.

Inspections of the facility have been conducted periodically since 1980. A December 4, 1980 inspection conducted by U.S. EPA found no N/SPDES violations at the site (Reference 19). A June 9, 1981 inspection by the Erie County Department of Environment and Planning noted that there was no leachate nor signs of past leachate at the site and subsequently no visual basis for sampling (Reference 20). Sampling by NYSDEC in 1982 determined that the waste stream met stream standards and the landspread sludges passed the EP Toxicity Test (Reference 21). In early August 1982, a test boring and sampling program was conducted at the site by the U.S. Geological Survey and the NYSDEC. This

testing was apparently conducted in relation to a study on the impact waste disposal sites might have on the Niagara River. Four (4) shallow test borings were completed in the fill area for this study with one (1) boring located in each corner of the property. Approximate locations of these borings are illustrated in Figure 2. Samples from these borings were to be analyzed for PNA, Fe and Cn. Results of this analysis are not yet available (Reference 4).

#### 5.0 Site Data

#### 5.1 Site Area Surface Features

- Topography and Drainage The topography in the area of 5.1.1 Donner-Hanna Coke can generally be characterized as flat. Surface features have been formed by glacial lakes ancestral to the present Lake Erie and urban/industrial development. Local determined from the U.S.G.S. Buffalo. S.E. slope. as topographic quadrangle, is close to 0% (Reference 4). The Buffalo River, a Class "D" water resource, is the nearest surface water located approximately 2,000 feet north of the site (Reference 7). Surface runoff is directed toward the River via drainage ditches. The Buffalo River discharges into Lake Erie approximately four (4) miles downstream.
- 5.1.2 Environmental Setting Donner-Hanna Coke is located on the western edge of densely populated South Buffalo. Approximately 2,000 feet west of the site is the Tifft Farm Nature Preserve. This area contains a protected wetland as well as an abundance of wildlife. There are no critical habitats of endangered species in the vicinity of the site.

#### 5.2 <u>Site Hydrogeology</u>

5.2.1 Geology - Bedrock beneath the 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 fifty (50) to sixty (60) feet below the ground surface. This unit is characterized as a dense black fissile shale with a petroliferous odor and some interbedded grey shale. 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 5).

- 5.2.2 <u>Soil</u> The unconsolidated material overlying bedrock in the site area is a thin mantle of glacial till composed of nonsorted rock material in a silty clay matrix (Reference 2). This material is overlain by interbedded clay, silt and fine sand sediments deposited in glacial lakes ancestral to the present Lake Erie (Reference 5). Permeabilities of these materials range from approximately 10<sup>-5</sup> to 10<sup>-7</sup> cm/sec (Reference 6). Test borings completed nearby penetrated layers of silty clay to refusal at a total boring depth of 62.5 feet. Surficial soils consist of fill and disturbed or altered original soils resulting from urban development (Reference 9).
- 5.2.3 <u>Groundwater</u> Groundwater wells are not used in the area around Donner-Hanna Coke, with the exception of industrial withdrawal wells. Well depths average approximately 130 feet and draw from the Onandaga Limestone and Camillus Shale aquifers. Yield

of wells in these units range from 30 to 300 gpm; however, high hydrogen sulfide content limits the use of this groundwater. Groundwater flow is assumed to be in a northerly direction toward the Buffalo River. The seasonal high groundwater table is reported to be 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> There is no available groundwater quality data for the site.
- 5.3.2 <u>Surface Water Quality Data</u> There is no available surface water quality data for the site.
- 5.3.3 <u>Air Quality Data</u> There is no available air quality data for the site.
- 5.3.4 Other Analytical Data Sampling by NYSDEC in 1982 determined that the landspread sludges passed the EP Toxicity Test. Results are presented on the following pages.

### Characterization of Samples for EP Toxicity and EP Metals

Report Prepared For DONNER-HANNA COKE

bу

ADVANCED ENVIRONMENTAL SYSTEMS, INC.

Prepared by

THE PARTY OF THE P

Robert C. Wojcik (/ Operations Manager November 7, 1980

#### LABORATORY REPORT

#### SCOPE OF WORK

Analysis for characteristics of "EP Toxicity" on two (2) sludge samples and analysis of three (3) liquid samples for EP metals.

#### METHODOLOGY

Extraction of the sludge samples was performed in accordance with Federal Register, Vol. 45, No. 98, May 19, 1980; Section 261.30, Appendix II.

Analysis of the two extracts and three liquid samples for arsenic, barium, cadmium, chromium, lead, mercury, silver, and selenium were performed in accordance with "Methods for the Analysis of Water and Wastes," Environmental Monitoring and Support Laboratory, Office of Research and Development, U.S. EPA, Cincinnati, Ohio; EPA 600/4-79-020, March 1979.

Analysis for endrin, lindane, methoxychlor, toxaphene, 2,4-D, and 2,4,5-TP Silvex was performed in accordance with "Methods for Benzidine, Chlorinated Organic Compounds, Pentachlorophenol, and Pesticides in Water and Wastewater," September, 1978, U.S. EPA, Monitoring and Support Laboratory, Cincinnati, Ohio.

Monitoring and Support Laboratory

### LABORATORY REPORT

#### RESULTS

Table 1. Characteristics of EP Toxicity
on Two Sludge Samples
Expressed in micrograms per liter or parts per billion

Contaminant	Sample 4TW5	Sample 5RP Native Ends	Maximum Allowable
Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	25. <500. <30. <100. <400. <0.5 <10. <100.	30. <500. <30. <100. <400. <0.5 <10. <100.	5,000. 100,000. 1,000. 5,000. 200. 1,000. 5,000.
Endrin Lindane Methoxychlor Toxaphene	ND <sup>1</sup> ND 0.5 ND	ND ND O.3 ND	20. 400. 10,000. 500.
2,4-D 2,4,5-TP Sil	0.2 vex ND	1.7 ND	10,000. 1,000.

According to The Extraction France

<sup>1</sup> ND - Not Detected

#### 6.0 Adequacy of Available Data

In compiling the Hazard Ranking Score, Donner-Hanna Coke was found to have a score for migration potential ( $S_{\rm m}$ ) equal to 0.3. However, due to data inadequacies, a certain degree of subjectivity was involved in scoring; and therefore, a range for  $S_{\rm m}$  was developed. For Donner-Hanna Coke this range was found to be 0.3 to 15.0. Data inadequacies are as follows:

- o No analytical results from most recent soil sampling period.
- o Lack of data regarding groundwater quality.
- o Lack of accurate records regarding specific on-site geology.
- Lack of information regarding hydraulic characteristics of the unconsolidated overburden material.
- o No surface water quality data.
- o Lack of records on exact nature and quantity of fill material.
- 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.
- The extent and magnitude of contamination, based on site specific hydrogeologic conditions.
- 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.

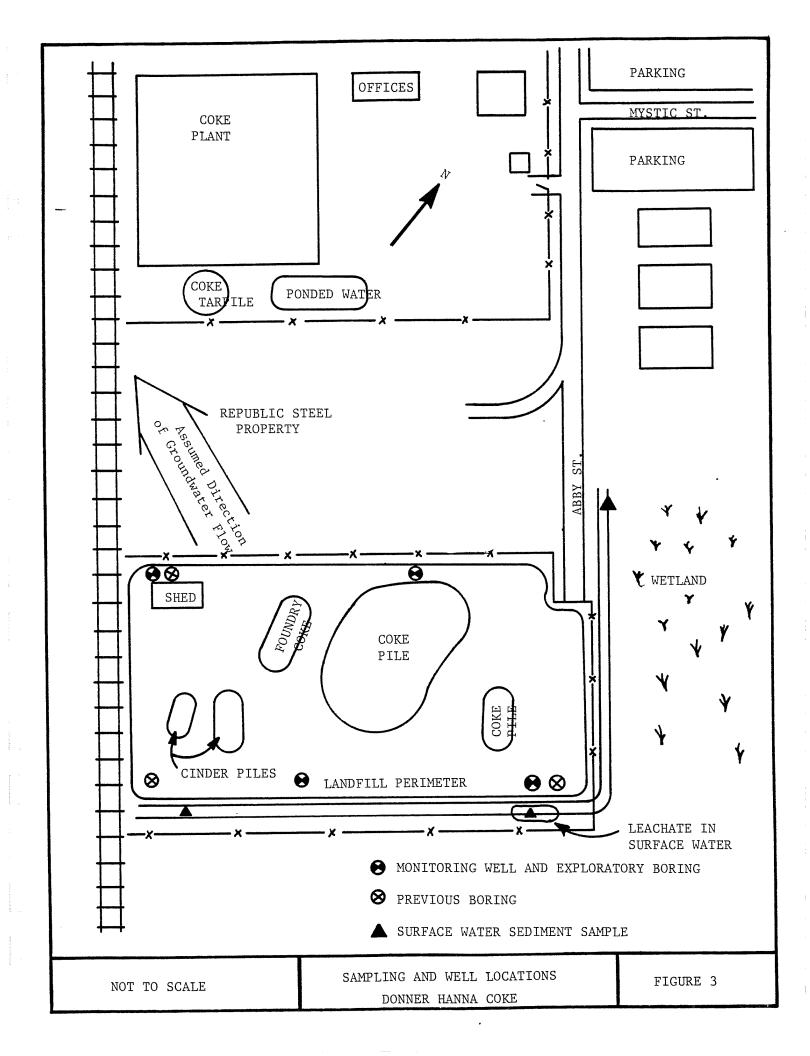
During actual field investigative work, ambient and worker air monitoring will be conducted periodically using appropriate instrumentation, such as the photoionizer and/or OVA. When deemed necessary from actual readings, the level of respiratory protection will be adjusted to meet existing conditions. 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 through the fill to determine the depth of fill material and the nature of the base insitu soil. Permeability tests will be performed on the base soil at this time. This boring will be located in the southeast section of the site 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 in the southern section of the fill area which is assumed to be upgradient of groundwater flow. The remaining two (2) borings will be located north 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) surface water/sediment samples from the drainage ditch on the southern and eastern 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 pre-cleaned, 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. 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 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. Although the use of PVC casing and screens would be less expensive, the possible presence of solvents suggests the use of galvanized steel screens and risers. 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.

TABLE 1: ANALYTICAL PARAMETERS

Parameters	Surface Water	Groundwater
pH	•	•
Specific Conductance	•	•
Chloride	•	•
Sulfate	•	•
Cyanide (Total)	•	•
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.

7.2.5.1 Groundwater - Following equilibrium of water levels within the installed wells, water elevations will be measured to determine the water table surface. Representative groundwater 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 Soil - 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 size distribution (ASTM-D-422), Atterberg 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 landfill. 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 Surface Water - The sampling of surface water will entail

collecting water and sediments from the ditches located south and east of the fill area. Three (3) surface water and three (3) sediment samples will be taken. General locations of sampling are illustrated in Figure 3. The water samples will be obtained using a pond sampler with separate sampling bottles designated for each sampling location. 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 groundwater will be followed after acquisition of the surface water samples. All samples will be analyzed for the previusly 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,
  - <u>Standard Methods for the Examination of Water and</u>
    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 "Operations Manual Field and Analytical Services".
- 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 sites, and utilize this information to:
  - Evaluate feasible remedial alternatives at the sites 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 sites.

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

- <u>HRS Score</u> - 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

- Summary of Project Activities
- Identification and Evaluation of Remedial 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 Investigation	\$ 10,409
0	Sampling and Analysis	9,316
0	Engineering Evaluation	4,030
	Total	\$ 23,755

#### APPENDIX A

#### DATA SOURCES AND REFERENCES

- 1.) NYSDEC Hazardous Waste Disposal Sites Report. W. G. Hartenstein, April 15, 1980.
- 2.) USEPA Overview of Environmental Pollution in the Niagara Frontier, New York. March 1982.
- 3.) N.Y.S. Water Resources Commission. Erie-Niagara Basin Ground-Water Resources. ENB-3. 1968.
- 4.) U.S. Geologic Survey, Topographic Map, Buffalo S.E. quadrangle, 1965.
- 5.) Geology of Erie County, New York, Edward J. Buehler and Irving H. Tesmer, Buffalo Society of Natural Sciences Bulletin, Vol. 21, No. 3, Buffalo, 1963.
- 6.) Mitre, Inc. Hazard Ranking System; July 16, 1982.
- 7.) Codes, Rules and Regulations of the State of New York, Vol. 6(C), Sec. 837.4, pg. 1627, 1966.
- 8.) Hazardous Waste Inactive Site Survey Phase I Report, County of Erie Department of Environment and Planning.
- 9.) U.S. Department of Agriculture Soil Conservation Service, General Soil Map and Interpretations, Erie County, New York. May 1979.
- 10.) NYSDEC Industrial Waste Survey, November 3, 1976.

- 11.) Memorandum, County of Erie Department of Environment and Planning,
  Division of Environmental Control, from Ronald D. Koczaja, to Donald
  Tamol, August 25, 1978.
- 12.) Donner-Hanna Coke phone conversations and file information; October 13, 1978 to November 9, 1978.
- 13.) Information provided to Inspector Ronald D. Koczaja on August 25, 1978.

  Observation at Donner-Hanna Coke Corp.
- 14.) Inactive Industrial Waste Disposal or Storage Site Questionnaire, August 9, 1978.
- 15.) Letter to Donner-Hanna Mr. K. Mahar from Department of Environment and Planning, Ronald D. Koczaja.
- 16.) Letter from Donner-Hanna Coke Corporation, Kevin D. Mahar, to Interagency Task Force on Hazardous Wastes, Mr. Peter J. Millock, November 6, 1978.
- 17.) Letter from Donner-Hanna Coke Corporation, Kevin D. Mahar to Mr. David A. Dooley, Interagency Task Force on Hazardous Wastes, December 6, 1978.
- 18.) Letter from Donner-Hanna Coke Corporation, Kevin D. Mahar, to Mr. John McMahon, P.E. NYSDEC, Region 9, January 9, 1979.
- 19.) Letter from US EPA Region II, Jonathan Josephs, Chemical Engineer, to Donner-Hanna, Mr. Kevin D. Mahar, January 12, 1981.
- 20.) Memorandum, County of Erie Department of Environment and Planning,
  Division of Environmental Control, from Don Campbell, P.E., to Laurence
  G. Clark, P.E.; February 18, 1982.

- 21.) NYSDEC Memorandum to file from D. McKenzie, February 18, 1982.
- 22.) NYSDEC letter from Peter J. Buechi, P.E. to Donner-Hanna Coke Corporation, Mr. Kevin Mahar, May 14, 1982.
- 23.) NYSDEC letter from Ahmad Tayyebi, Assistant Sanitary Engineer, to Donner-Hanna Coke, Mr. A. D. Shattuck, July 26, 1982.
- 24.) NYSDEC Interagency Task Force on Hazardous Wastes, Draft Report on Hazardous Waste Disposal in Erie and Niagara Counties, New York; March, 1979.

#### APPENDIX B

## HAZARDOUS WASTE DISPOSAL SITE REPORT REVISED

Code: A

Site Code: 915017

Name of Site: Donner-Hanna Coke Joint Venture

Region: 9

County: Erie

Town/City: Buffalo

Street Address: Abby and Mystic Streets

#### Status of Site:

- o Inactive fill area (former wetland). Primarily received demolition debris, slag and earthen sediment from process wastewaters. Wastewater may contain phenol and cyanide. Site drains northward through ditches to the Buffalo River. Site now used for coke storage.
- o Urban/industrial highly populated area.
- o Nearest dwelling approximately 1,000 feet.
- o Nearest body of water is Buffalo River, approxiamtely 0.5 miles north.
- O Nearest water supply: Entire area is serviced by municipal water drawn from Lake Erie.
- High groundwater table within 10 feet of surface.
- o Soil type: fill.

Estimated Size: 20 acres.

Type of Site: Fill covered with coke fragments.

Hazardous Waste Disposed? Suspected

Type and Quantity of Hazardous Waste: Unknown

Present Owner: 50% National Steel; 50% Republic Steel

<u>Time Period Site Was Used:</u> 1951 to 1975 (possibly to 1983)

Type of Samples: Soils

Remedial Action: None

Status of Legal Action: None

Permits Issued: N/SPDES #NY0003310

Assessment of Environmental Problems: None known

Person Completing this Form: Andre J. LaPres, Recra Research, Inc.

Date: September 6, 1983.

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