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report.HW932057 .1994-09. Phase I .pdf

example: *report . Site Number . Year-Month . ReportName . pdf*

if a non-foilable site: add ".nf.pdf" at end of file name

Project Site numbers will be proceeded by the following:

Municipal Brownfields - B
Superfund - HW
Spills - SP
ERP - E
VCP - V
BCP - C

PHASE I REPORT
ENGINEERING INVESTIGATIONS AND EVALUATIONS AT INACTIVE HAZARDOUS WASTE DISPOSAL SITES

PASNY Robert Moses Parkway
Niagara County, NY

Prepared for:

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233
Henry G. Williams, Commissioner

Division of Solid and Hazardous Waste
Norman H. Nosenchuck, P.E., Director

ENGINEERING-SCIENCE
in association with
DAMES & MOORE

SEPTEMBER 1984

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SECTION I

EXECUTIVE SUMMARY

PASNY Robert Moses Parkway

OBJECTIVE

The purpose of this two phase program is to conduct engineering investigations and evaluations at inactive hazardous waste disposal sites in New York State in order to calculate a Hazard Ranking System (HRS) score for each site and estimate the cost of any recommended remedial action. During the initial portion of this investigation (Phase I) all available data and records combined with information collected from a site inspection were reviewed and evaluated to determine the adequacy of existing information for calculating an HRS score. On the basis of this evaluation, a Phase II Work Plan was prepared for collecting additional HRS data (if necessary), evaluating remedial alternatives and preparing a cost estimate for recommended remedial action. The results of the Phase I study for this site are summarized below and detailed in the body of the report.

SITE BACKGROUND

The PASNY Robert Moses Parkway site is located in Niagara Falls, Niagara County, New York. The NYS site code is 932057. The site, previously owned by PASNY, was acquired by NYSDOT and is controlled by the Niagara Frontier Parks Commission. Allegedly, during the construction of the Parkway (about 1963) 300 drums of unknown waste materials from Hooker Chemical were buried in trenches between the breakwall and the Parkway. No visible evidence of the drums was noted during site inspections in 1978 and 1983. Concern centers on the possible migration of the suspected wastes off-site into the Niagara River. There are no known health or environmental problems.

ASSESSMENT

Insufficient data was available to complete a final HRS scoring. The preliminary HRS scoring was:

S_M	= 2.67	S_A	= 0.00
S_{GW}	= 0.00	S_{FE}	= 0.00
S_{SW}	= 4.62	S_{DC}	= 0.00

Site scores are low due to the unknown waste characteristics. While the target factor is low for the groundwater route it is high for the surface water route due to the proximity of the Niagara River and a Canadian water intake. Resistivity tests are recommended for the detection of the buried drums.

RECOMMENDATIONS

The following recommendations are made for the completion of Phase II:

- geophysical survey for detection of buried metal drums
- groundwater sampling at suspected area, 3 wells per area
- surface water monitoring system with two stations
- sample analyses for metals and a GC/MS scan
- air monitoring survey with an HNU meter
- additional file search/interviews for waste characterization

The estimated manhours required to complete Phase II are 544, while the estimated cost is $36,289.

SECTION II

SITE DESCRIPTION

PASNY Robert Moses Parkway

The PASNY Robert Moses Parkway site is located in Niagara Falls, Niagara County, New York. The site is under investigation as a hazardous waste site because of a suspected deposit of hazardous waste between the breakwall and parkway during the road construction. The exact location of the alleged deposit of wastes is not known.

REFERENCE: BASE TAKEN FROM U.S.G.S. 7.5 MIN. TOPOGRAPHIC MAP, NIAGARA FALLS, NY-ONT (1980) QUADRANGLE

SITE LOCATION MAP
PASNY ROBERT MOSES PARKWAY

FIGURE 1

HRS COVER SHEET

Facility name: PASNY Robert Moses Parkway

Location: Niagara Falls, NY

EPA Region: II

Person(s) in charge of the facility: Commissioner

PASNY

Niagara Falls, NY

Name of Reviewer: John Kubarewicz/Eileen Gilligan Date: August 27, 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.)

It is suspected that up to 300 drums containing unknown Hooker Chemical wastes were buried between the breakwall and parkway during construction. There are no known health or environmental problems.

Scores: $S_M = 2.67$ ($S_{gw} = 0.00$ $S_{sw} = 4.62$ $S_a = 0.00$)

$S_{FE} = 0.00$

$S_{DC} = 0.00$

GROUND WATER ROUTE WORK SHEET

Ground Water Route Work Sheet

	Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1	Observed Release	0 45	1		45	3.1
	If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2	Route Characteristics					3.2
	Depth to Aquifer of Concern	0 1 2 (3)	2	6	6	
	Net Precipitation	0 1 (2) 3	1	2	3	
	Permeability of the Unsaturated Zone	0 1 2 (3)	1	3	3	
	Physical State	0 1 2 (3)	1	3	3	
	Total Route Characteristics Score			14	15	
3	Containment	0 1 2 (3)	1	3	3	3.3
4	Waste Characteristics					3.4
	Toxicity/Persistence	[0] 3 6 9 12 15 18	1	[0]	18	
	Hazardous Waste Quantity	0 1 2 (3) 4 5 6 7 8	1	3	8	
	Total Waste Characteristics Score			3	26	
5	Targets					3.5
	Ground Water Use	(0) 1 2 3	3	0	9	
	Distance to Nearest Well/Population Served	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	
	Total Targets Score			0	49	
6	If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5				57,330	
7	Divide line 6 by 57,330 and multiply by 100		S_{gw} =	0.00		

SURFACE WATER ROUTE WORK SHEET

Surface Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)		Multiplier	Score	Max. Score	Ref. (Section
1 Observed Release	(0)	45	1	0	45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.						
2 Route Characteristics						4.2
Facility Slope and Intervening Terrain	(0) 1 2 3		1	0	3	
1-yr. 24-hr. Rainfall	0 (1) 2 3		1	1	3	
Distance to Nearest Surface Water	0 1 2 (3)		2	6	6	
Physical State	0 1 2 (3)		1	3	3	
Total Route Characteristics Score				10	15	
3 Containment	0 1 2 (3)		1	3	3	4.3
4 Waste Characteristics						4.4
Toxicity/Persistence	[0] 3 6 9 12 15 18		1	[0]	18	
Hazardous Waste Quantity	0 1 2 (3) 4 5 6 7 8		1	3	8	
Total Waste Characteristics Score				3	26	
5 Targets						4.5
Surface Water Use	0 1 2 (3)		3	9	9	
Distance to a Sensitive Environment	(0) 1 2 3		2.0		6	
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 (24) 30 32 35 40		1	24	40	
Total Targets Score				33	55	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5				2970	64,350	
7 Divide line 6 by 64,350 and multiply by 100				S_{SW} = 4.62		

DIRECT CONTACT WORK SHEET

Direct Contact Work Sheet					
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 line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 2 (3)	1.	3	3	8.2
3 Containment	(0) 15	1	0	15	8.3
4 Waste Characteristics Toxicity	[0] 1 2 3	5	(0)	15	8.4
5 Targets					8.5
Population Within a 1-Mile Radius	0 1 2 (3) 4 5	4	12	20	
Distance to a Critical Habitat	(0) 1 2 3	4	0	12	
Total Targets Score			12	32	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0	21,600	
7 Divide line 6 by 21,600 and multiply by 100			S_{DC} = 0		

AIR ROUTE WORK SHEET

Air Route Work Sheet						
Rating Factor	Assigned Value (Circle One)		Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0)	45	1	○	45	5.1
Date and Location:						
Sampling Protocol:						
If line 1 is 0, the S_a = 0. Enter on line 5. If line 1 is 45, then proceed to line 2.						
2 Waste Characteristics						5.2
Reactivity and Incompatibility	0 1 2 3		1		3	
Toxicity	0 1 2 3		3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8		1		8	
	Total Waste Characteristics Score				20	
3 Targets						5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30		1		30	
Distance to Sensitive Environment	0 1 2 3		2		6	
Land Use	0 1 2 3		1		3	
	Total Targets Score				39	
4 Multiply 1 x 2 x 3					35,100	
5 Divide line 4 by 35,100 and multiply by 100				S_a = ○		

Fire and Explosion Work Sheet

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

WORKSHEET FOR COMPUTING S_M

	S	S^2
Groundwater Route Score (S_{gw})	0	0
Surface Water Route Score (S_{sw})	4.62	21.34
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		21.34
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		4.62
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} \,/\, 1.73 = S_M =$		2.67

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: PASNY Robert Moses Parkway

LOCATION: City of Niagara Falls

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

Not applicable. No groundwater samples collected for chemical analyses.

Rationale for attributing the contaminants to the facility:

Not applicable.

* * *

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

Shallow aquifer.
(Basic geological knowledge)

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

Approximately 10 ft.
(Geological estimate based on hydraulic connection with adjacent Niagara River water.)

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

Approximately 30 ft.
(Based on geological estimate of site geomorphology prior to dumping.)

Net Precipitation

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

32 inches.
(USDOC Climate Atlas of US, 1979)

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

24 inches.
(USDOC Climate Atlas of US, 1979)

Net precipitation (subtract the above figures):

8 inches.

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Not applicable, no soil on site.
(Interpretation of site geomorphology)

Permeability associated with soil type:

Within waste fill, N $+0^{-0}$ cm/sec.
(Lambe, T.W. and Whitman, K.V. (1969), Soil Mechanics, John Wiley & Sons, Inc., New York)

Physical State

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

Solid and liquid.
(NCDOH, 1983)

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Unlined landfill and leaking barrels.

Method with highest score:

Unlined landfill
Leaking barrels - 3

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Unknown - 0

Compound with highest score:

Not applicable.

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):

300 drums - 3

Basis of estimating and/or computing waste quantity:

(NCDOH, 1983)

* * *

5 TARGETS

Ground Water Use

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

Olin industrial cooling water wells.

Distance to Nearest Well

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

Olin Corp. cooling water wells.

Distance to above well or building:

Approx. 1/2 mile.

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:

Not applicable. No water-supply wells drawing from aquifer of concern.

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):

Not applicable.

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

Not applicable.

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

Not applicable. No surface water samples collected for chemical analysis.

Rationale for attributing the contaminants to the facility:

Not applicable.

* * *

2 ROUTE CHARACTERISTICS (USGS Topographic Map: Niagara Falls, NY-ONT Quadrangle)

Facility Slope and Intervening Terrain

Average slope of facility in percent:

9.0%

Name/description of nearest downslope surface water:

Niagara River.

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

0.1%

Is the facility located either totally or partially in surface water?

Yes.
(filled in area of river bank)

Is the facility completely surrounded by areas of higher elevation?

No.
(USGS Topographic Map: Niagara Falls, NY-ONT Quadrangle)

1-Year 24-Hour Rainfall in Inches

(US DOC Tech. Paper No. 40)

Distance to Nearest Downslope Surface Water

100 ft.
(USGS Topographic Map: Niagara Falls, NY-ONT Quadrangle)

Physical State of Waste

Solid and liquid.
(NCDOH, 1983)

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Unlined landfills with leaking drums.

Method with highest score:

Unlined landfill
or - 3
Leaking drums

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Unknown - 0

Compound with highest score:

Not applicable.

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):

300 drums.

Basis of estimating and/or computing waste quantity:

NCDOH (1983)

* * *

5 TARGETS

Surface Water Use

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

Recreation
Commercial
(ES/D&M site visit)

Is there tidal influence?

No.
(USGS Topographic Map: Niagara Falls, NY-ONT Quadrangle)

Distance to a Sensitive Environment

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

Not applicable. None within 2 miles.
(USGS Topographic Map: Niagara Falls, NY-ONT Quadrangle)

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

More than 3.0 miles.
(NYS Wetlands Map)

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

More than 3.0 miles.
(NYSDEC Region 9 Dept. of Fish & Wildlife conversation)

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:

1.5 miles downstream
Canadian water intake
10,000 estimated (based on city size)
(USGS Topographic Map: Niagara Falls, NY-ONT Quadrangle)

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

Not applicable.

Total population served:

10,000
(based on Niagara Falls population estimate)

Name/description of nearest of above water bodies:

Niagara River.
(USGS Topographic Map: Niagara Falls, NY-ONT Quadrangle)

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

1.5 miles
(USGS Topographic Map: Niagara Falls, NY-ONT Quadrangle)

1 OBSERVED RELEASE

Contaminants detected:

Not applicable. Air quality not monitored for contamination.

Date and location of detection of contaminants

Not applicable.

Methods used to detect the contaminants:

Not applicable.

Rationale for attributing the contaminants to the site:

Not applicable.

* * *

2 WASTE CHARACTERISTICS ES

Reactivity and Incompatibility

Most reactive compound:

Not applicable.

Most incompatible pair of compounds:

Not applicable.

Toxicity

Most toxic compound:

Not applicable.

Hazardous Waste Quantity

Total quantity of hazardous waste:

Not applicable.

Basis of estimating and/or computing waste quantity:

Not applicable.

* * *

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi (0 to 1 mi) 0 to 1/2 mi 0 to 1/4 mi

3000 people.
(USGS Topographic Map: Niagara Falls, NY-ONT Quadrangle)

Distance to a Sensitive Environment

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

Not applicable. None within 2 miles.
(USGS Topographic Map: Niagara Falls, NY-ONT Quadrangle)

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Not applicable. None within 1 mile.
(NYS Wetlands Maps)

Distance to critical habitat of an endangered species, if 1 mile or less:

Not applicable. None within 1 mile.
(NYSDEC Region 9 Fish & Wildlife Dept. conversation, 1983)

Land Use

Distance to commercial/industrial area, if 1 mile or less:

0.1 mi.
(ES/D&M site visit, 1983)

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

Not applicable. None within 2 miles.
(ES/D&M site visit, 1983)

Distance to residential area, if 2 miles or less:

0.3 miles.
(ES/D&M site visit, 1983)

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

Not applicable. None within 1 mile.
(ES/D&M site visit, 1983)

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

Not applicable. None within 2 miles.
(ES/D&M site visit, 1983)

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

Yes, mist for Niagara Falls at top of falls is visible from site.
(ES/D&M site visit, 1983)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: C36[illegible]

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
PASNY	ROBERT MOSES PKWY				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
NIAGARA FALLS	NY	14301	NIAGARA	063	36

09 COORDINATES		10 TYPE OF OWNERSHIP (Check one)
LATITUDE	LONGITUDE	☐ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN
43° 04' 42.1"	79° 01' 25.1"	

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
7 28/83 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	1963 (BEGINNING YEAR) 1963 (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☒ F. STATE CONTRACTOR ES (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
JOHN KUBAREWICZ	ENGINEER	ES	(703)591-7575
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
EILEEN GILLIGAN	GEOLOGIST	DEM	(315)638-2572
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
—			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☐ PERMISSION ☐ WARRANT	19:00	Light rain

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
JOHN KUBAREWICZ	ENGINEERING - SCIENCE	(703) 591-7575

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
KATHRYN GLADDEN	ES		703/591-7575	8, 4, 83 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJD	980535882

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☐ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE
(Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO. OF DRUMS 300

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
(OCC)	OTHER ORGANIC CHEMICALS	300	DR	Suspected Hooker Chemical Waste
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	UNKNOWN				

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Wallace (1980)
NYS Hazard Registry Form
NCDOH (1983)

EPA FORM 2070-13(7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	[illegible]

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

UNKNOWN

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

SITE ON NIAGARA RIVER

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: _____ (Acres)
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

UNKNOWN

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
MD	038-35884

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NOT APPARENT

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

UNKNOWN

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES *(Spills/Runoff/Standing liquids, Leaking drums)* — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NOT APPARENT

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

NOT APPARENT

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION *(Cite specific references, e. g., state files, sample analysis, reports)*

Site Inspection

Wallace (1980)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
A D	[illegible]

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ 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 (Specify) Buried Drums	300	DR

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER _____ (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

UNKNOWN (Acres)

07 COMMENTS

Alleged that Hooker Chemical waste materials buried on site during highway construction.

IV. CONTAINMENT UNKNOWN

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

NOT VISIBLE

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☐ NO

02 COMMENTS

UNKNOWN

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

WALLACE (1980)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NYD	0386352824

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. X	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 1.5 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING
☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL N/A (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
10' (ft)	W	10' (ft)	UNKNOWN (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

Commercial wells downstream of site.

10 RECHARGE AREA		11 DISCHARGE AREA	
☒ YES ☐ NO	COMMENTS	☐ YES ☒ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE
☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES
☐ C. COMMERCIAL, INDUSTRIAL
☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
NIAGARA RIVER	☐	100' (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 3000 NO. OF PERSONS	B. 5700 NO. OF PERSONS	C. 9500 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

.5 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

3000

04 DISTANCE TO NEAREST OFF-SITE BUILDING

.2 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Site is in industrial section of city. Older residential area exists east of site.

EPA FORM 2070-13 (7-81)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	[illegible]

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☒ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☒ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
25' (ft)	7 10' (ft)	NO SOIL	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
8 (in)	2.0 (in)	9.0 %	N+S	0.1 %

09 FLOOD POTENTIAL	10
SITE IS IN 7500 YEAR FLOODPLAIN	☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE	OTHER
A. _____ (mi)	B. >3 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

B (mi)

ENDANGERED SPECIES: Aquila chrysaetos, Haliaeetus leucocephalus, Falco perejreres

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. 0.1 (mi)	B. 0.3 (mi)	C. N/A (mi)	D. N/A (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Parkway parallels Niagara River on the Northern Shoreline. Parkway is built up appro. 15' Relative to surrounding area.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NYS Atlas of Community Water System Services 1982

USGS topographic maps

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NVD	03863588L

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☐ AERIAL

02 IN CUSTODY OF _____
(Name of organization or individual)

03 MAPS
☐ YES
☐ NO

04 LOCATION OF MAPS _____

V. OTHER FIELD DATA COLLECTED *(Provide narrative description)*

VI. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NYD	0356 3585

II. CURRENT OWNER(S)

01 NAME POWER AUTH. OF NYS.		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 5777 LEWISTON RD		04 SIC CODE	
05 CITY Niagara Falls	06 STATE NY	07 ZIP CODE 14305	
01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	
01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	
01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	

PARENT COMPANY (if applicable)

08 NAME		09 D+B NUMBER
10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
12 CITY	13 STATE	14 ZIP CODE
08 NAME		09 D+B NUMBER
10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
12 CITY	13 STATE	14 ZIP CODE
08 NAME		09 D+B NUMBER
10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
12 CITY	13 STATE	14 ZIP CODE
08 NAME		09 D+B NUMBER
10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (if applicable; list most recent first)

01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

TAX RECORDS

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NYD	03863884

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
PANSY	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
5770 LEWISTON RD	

05 CITY	06 STATE	07 ZIP CODE
Niagara Falls	NY	

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

TAX RECORDS

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NYD	[illegible]

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
———	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Hooker Chemical	(Alleged)		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
Buffalo Ave			
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
Niagara Falls	NY		
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	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

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	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
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	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Wallace (1980)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NYD	036035384

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

EPA FORM 2070-13 (7-81)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER

II PAST RESPONSE ACTIVITIES *(Continued)*

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NYD	0396.35884

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER: NYD C936 35[illegible]

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
PASNY	ROBERT MOSES PKWY				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
NIAGARA FALLS	NY	14301	NIAGARA	063	36

09 COORDINATES LATITUDE: __ __ __ . __ | LONGITUDE: __ __ __ __ __ . __

10 DIRECTIONS TO SITE (Starting from nearest public road)
Pasny Robert Moses Parkway riverfront, from Cayuga River outlet to falls.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)			
POWER AUTH. OF NYS.	5777 LEWISTON RD.			
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER	
NIAGARA FALLS	NY	14305	( )	
07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER	
			( )	

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☒ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES ☐ NO DATE 7 80/83 (MONTH DAY YEAR)

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☒ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): Engineering-Science / Dames & Moore

02 SITE STATUS (Check one)
☐ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
BEGINNING YEAR _____ ENDING YEAR _____ ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Suspected dumping of drums containing unknown waste materials in trenches between breakwall + parking during road construction

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
unknown

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)
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (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)		03 TELEPHONE NUMBER	
JOHN KUBAREWICZ	ENGINEERING-SCIENCE		(703)591-7575	
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
KATHRYN GLADDEN	ES		(703)591-7575	8 4 83 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	0386-35-881

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☐ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE
(Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO. OF DRUMS 300

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
(OCC)	OTHER ORGANIC CHEMICALS	300	DR	Suspected Hooker Chemical wastes
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Wallace, 1980
NYS Hazard Registry
NCDOH 1983

EPA FORM 2070-12 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NYD	[illegible]

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Un Known

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Site on Niagara River

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) — 04 NARRATIVE DESCRIPTION

Un Known

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NYD	0756 35854

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Not apparant

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include names) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

UnKnown

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Not Apparant

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

Not Apparant

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)

Site Inspection
Wallace 1980

EPA FORM 2070-12 (7-81)

SECTION IV

SITE HISTORY

PASNY Robert Moses Parkway

The PASNY Robert Moses Parkway site has been identified as a potential hazardous waste site because of an alleged deposit of hazardous material in trenches between the breakwall and parkway during construction of the road. The NYSDEC has estimated that 200 to 300 drums of waste were deposited. There is no visible evidence of the drums or adverse affects on the environment caused by this landfill.

SECTION V

SUMMARY OF AVAILABLE DATA

PASNY Robert Moses Parkway

REGIONAL GEOLOGY AND HYDROLOGY

The site is located in the Erie-Ontario lowlands physiographic province. The bedrock of this region is predominantly limestone, dolostone, and shale. Most of the rocks are deep aquifers with regional flow to the south.

In the recent past, most of New York State, including the site, has been repeatedly covered by a series of continental ice sheets. The activity of the glacier widened preexisting valleys, and deposited widespread accumulations of till. The melting of ice, ending approximately 12,000 years ago, produced large volumes of meltwater; this water subsequently shaped channels and deposited thick accumulations of stratified, granular sediments.

As glacial ice retreated from the region, meltwater formed lakes in front of the ice margin. This region is covered by lake sediments, the most recent being from Lake Iroquois (a larger predecessor to Lake Ontario) and from Lake Tonawanda (an elongate lake which occupied an east-west valley and drained north into Lake Iroquois). The sediments consist of blanket sands and beach ridges which are occasionally underlain by lacustrine silts and clays (indicating quiet or deeper water deposition).

Granular deposits in this region frequently act as shallow aquifers, whereas lacustrine clays, as well as tills, often inhibit groundwater movement. However, fine-grained, water-lain sediments, such as silts and clays, frequently contain horizontal laminations and sand seams. These internal features facilitate lateral groundwater movement through otherwise low permeability materials.

SITE GEOLOGY

No subsurface investigations have been performed at the site. This summary is based on our interpretation of USGS topographic maps, NYS Museum and Science Service Bedrock Geology Map and Quaternary Geology Map, and the investigations on nearby disposal sites.

The parkway is built on "made land"; thickness of fill may be in excess of 10 feet. Underlying the fill is probably a lacustrine, layered, silt and clay deposit. This unit is underlain by a silty and sandy till which rest on top of Lockport Dolomite bedrock. The total thickness of the natural soils under the parkway is probable approximately 15 feet. The bedrock suface may be located about 25 feet below the parkway.

SITE HYDROLOGY

No wells or borings have been made on the site. This summary is based on our estimates of site geology.

A shallow aquifer probably exists within the fill material and natural site soils. Flow of ground water through this aquifer is probably south, into the Niagara River.

The dolomite bedrock forms a deep aquifer; the direction of flow is determined.

SAMPLING AND ANALYSIS

There was no known sampling of the site.

SECTION VI

ASSESSMENT OF ADEQUACY OF DATA

PASNY Robert Moses Parkway

HRS Data Requirement	Comments on Data
Observed Release	
Ground Water	No available data, field data collection recommended.
Surface Water	No available data, field data collection recommended.
Air	No available data, field data collection recommended.
Route Characteristics	
Ground Water	Data available, adequate for HRS evaluation.
Surface Water	Data available, adequate for HRs evaluation.
Air	Data available, adequate for HRS evaluation.
Containment	Information available, adequate for HRS evaluation.
Waste Characteristics	No available information, additional research recommended.
Targets	Information available, adequate for HRS evaluation.
Observed Incident	Information available revealed no report of incident. No further investigation recommended.
Accessibility	Adequate information available.

SECTION VII

PHASE II WORK PLAN

PASNY Robert Moses Parkway

OBJECTIVES

The objectives of the Phase II activities are:

- To collect additional field data necessary to identify the HRS scoring.

- To perform a conceptual evaluation of remedial alternatives and estimate budgetary costs for the most likely alternative.

- To prepare a site investigation report.

The additional field data required to complete the HRS are defined as follows:

Geophysical Survey - A magnetometry survey will be performed along the length of the site to detect any buried metals and to assist in the placement of wells.

Ground Water - If areas of suspected metal disposal are identified by the geophysical survey, sampling wells will be installed to further characterize the nature and extent of potential contamination. Each suspect area will be investigated with one upgradient well north of the parkway and two downgradient wells along the Niagara River shoreline. For costing estimates we have assumed that three borings each extending to a depth of 30 feet will be required. The wells will sample the overburden aquifer and will consist of PVC. All installations will include

a quartz sand filter pack and at least one 2-ft bentonite seal. The water from these wells and from existing wells will be analyzed for metals (ICPES) and organics (GC/MS scan).

Surface Water - Two samples of surface water and sediment will be taken from Gill Creek and analyzed for metals and a GC/MS scan. If the geophysical survey identifies suspect areas, approximately five surface water samples will be taken from the Niagara River along the shoreline of the suspect area.

Air - An air monitoring survey with an HNU meter will be performed to test the air quality above and around the site.

TASK DESCRIPTION

The proposed Phase II tasks are described in Table VII-1. Survey and sampling locations are shown in Figure 2.

COST ESTIMATE

The estimated manhours required for the Phase II project are presented in Table VII-2 and the estimated project costs by tasks are presented in Table VII-3. If the geophysical survey determines that new sampling wells are needed and/or that suface water sampling of the Nigara River is required, additional funds will be requested. The total cost of the project is $36,289. The lump sum cost for the geophysical survey, surface water and sediment sampling and project reporting is $22,422. The estimated cost for installation and sampling of each group of wells is $13,867.

HEALTH AND SAFETY PLAN

The Health and Safety Plan will be submitted as a separate document.

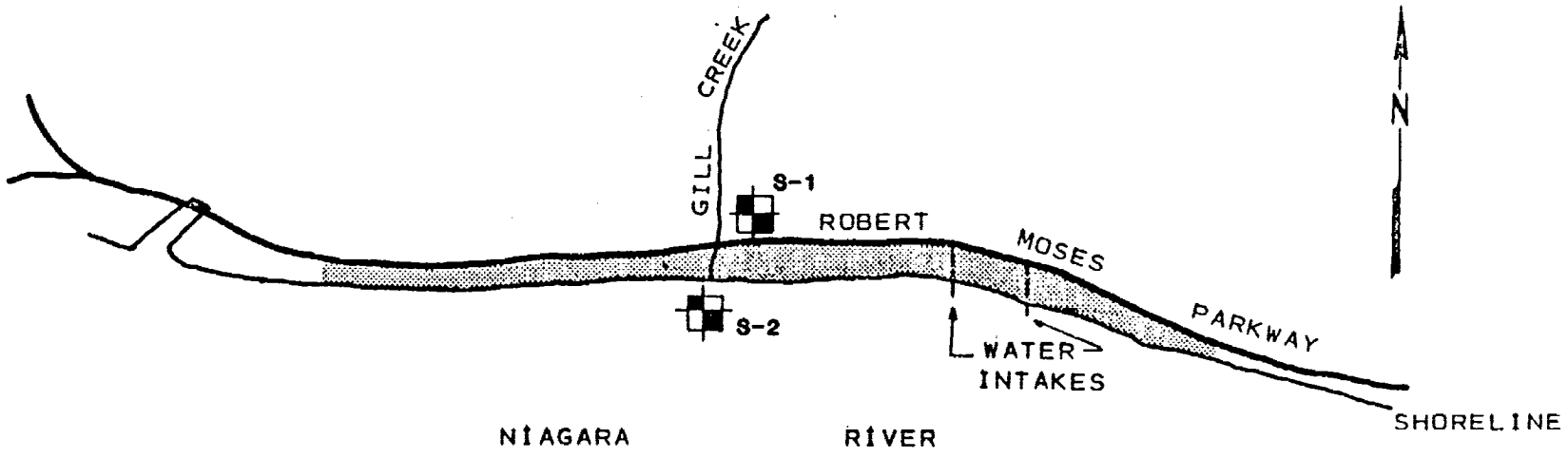
TABLE VII-1
PHASE II WORK PLAN - TASK DESCRIPTION
PASNY ROBERT MOSES PARKWAY

Tasks	Description of Task
TASK	
II-A Update Work Plan	Review the information in the Phase I report conduct a site visit, check locations and condition of existing wells, examine aerial photography and revise the Phase II work plan.
II-B Conduct Geophysical studies	Conduct electromagnetic survey for detection of buried metals.
II-C Conduct Boring/Install Monitoring Wells	Install (assume 3 each to depth of 30 feet) ground water sampling wells in identified areas of suspected metal buried.
II-D Construct Test Pits/ Auger Holes	No construction of test pits/auger holes necessary.
II-E Perform Sampling and Analysis	
Soil samples from borings	Soil samples collected at 5 ft intervals during drilling or at changes in subsurface lithology. Perform one grain size analysis and permeability per well.
Soil samples from surface soils	No further sampling necessary.
Soil samples from test pits and auger holes	No further sampling necessary.
Sediment samples from surface water	Analyze samples for metals (ICPES) and organics (GC/MS scan).
Ground-water samples	Analyze samples for metals (ICPES) and organics (GC/MS scan).
Surface water samples	Analyze samples for metals (ICPES) and organics (GC/MS scan).

TABLE VII-1 (Continued)

PASNY ROBERT MOSES PARKWAY

Tasks	Description of Task
TASK	
Air samples	Using the HNU, determine the presence of organics.
Waste samples	No further sampling necessry.
II-F Calculate Final HRS	Based on the field data collected complete the HRS form.
II-G Conduct Site Assessment	Prepare final report containing Phase I report, additional field data, final HRS and HRS documentation records, and site assessments. The site assessment will consist of a conceptual evaluation of alternatives and a preliminary cost estimate of the most probable alternative.
II-H Project Management	Project coordination, administration and reporting.



NOT TO SCALE

EXPLANATION:

S-1 SURFACE WATER SAMPLE

AREA OF GEOPHYSICAL SURVEY

PLOT PLAN
ROBERT MOSES PARKWAY

FIGURE 2

TABLE VII-2
PERSONNEL RESOURCES BY TASK
PHASE II HRS SITE INVESTIGATION (SITE: PASNY ROBERT MOSES PARKWAY)

TASK DESCRIPTION	TEAM MEMBERS, MANHOURS													
	PIC	TRB	PM	DPM	PCM	QAM	HSM	FTL	FT	RAAL	RAAT	SS	TOTAL HOURS	TOTAL $
II-A UPDATE WORK PLAN	1		4	1		1	1	6		6		8	28	$469.00
II-B CONDUCT GEOPHYSICAL STUDIES			1				1	16	80			32	130	$1,561.69
II-C CONDUCT BORING/INSTALL MONITORING WELLS			4	2	2	4	4	8	40	8		16	88	$1,188.78
II-D CONSTRUCT TEST PITS/AUGER HOLES													0	$0.00
II-E PERFORM SAMPLING AND ANALYSIS														
SOIL SAMPLES FROM BORINGS								4	16			8	28	$332.64
SOIL SAMPLES FROM SURFACE SOILS													0	$0.00
SOIL SAMPLES FROM TEST PITS AND AUGER HOLES													0	$0.00
SEDIMENT SAMPLES FROM SURFCE WATER			1						4			1	6	$79.52
GROUND-WATER SAMPLES			4	1		1		2	12	2		4	26	$383.59
SURFACE WATER SAMPLES			1	1		1		1	4			1	9	$140.11
AIR SAMPLES			1					1	8			2	12	$155.26
WASTE SAMPLES													0	$0.00
II-F CALCULATE FINAL HRS			3	3				3	24			16	49	$628.83
II-G CONDUCT SITE ASSESSMENT	1	2	8	2				8	32	6	40	40	139	$1,768.08
II-H PROJECT MANAGEMENT	2		6	2	3	4	4					8	29	$500.20
TOTALS	4	2	33	12	5	11	10	49	220	22	40	136	544	$7,206.90

TABLE VII-3
COST ESTIMATE BREAKDOWN BY TASK
PHASE II HRS SITE INVESTIGATION (SITE: PASNY ROBERT MOSES PARKWAY)

TASK DESCRIPTION	DIRECT LABOR HOURS	DIRECT LABOR COST	OTHER DIRECT COSTS (ODC), $ LAB ANALYSIS	TRAVEL AND SUBSISTANCE	SUPPLIES	EQUIP. CHARGES	SUBCON-TRACTORS	MISC.	SUBTOTAL ODC	TOTAL ($)
II-A UPDATE WORK PLAN	28	$469.00		$100.00	$50.00	$50.00		$25.00	$225.00	$694.00
II-B CONDUCT GEOPHYSICAL STUDIES	130	$1,561.69		$1,500.00	$50.00	$50.00			$1,600.00	$3,161.69
II-C CONDUCT BORING/INSTALL MONITORING WELLS	88	$1,188.78		$500.00	$50.00	$50.00	$4,200.00	$25.00	$4,825.00	$6,013.78
II-D CONSTRUCT TEST PITS/AUGER HOLES	0	$0.00							$0.00	$0.00
II-E PERFORM SAMPLING AND ANALYSIS										
SOIL SAMPLES FROM BORINGS	28	$332.64				$50.00			$50.00	$382.64
SOIL SAMPLES FROM SURFACE SOILS	0	$0.00								$0.00
SOIL SAMPLES FROM TEST PITS AND AUGER HOLES	0	$0.00							$0.00	$0.00
SEDIMENT SAMPLES FROM SURFACE WATER	6	$79.52	$2,330.00	$50.00	$10.00	$5.00		$58.00	$2,453.00	$2,532.52
GROUND-WATER SAMPLES	26	$383.59	$3,284.00	$100.00	$25.00	$25.00		$125.00	$3,559.00	$3,942.59
SURFACE WATER SAMPLES	9	$140.11	$1,990.00	$50.00	$15.00	$10.00		$57.00	$2,122.00	$2,262.11
AIR SAMPLES	12	$155.26		$100.00	$25.00	$15.00		$5.00	$145.00	$300.26
WASTE SAMPLES	0	$0.00							$0.00	$0.00
II-F CALCULATE FINAL HRS	49	$628.03			$50.00	$50.00		$25.00	$125.00	$753.03
II-G CONDUCT SITE ASSESSMENT	139	$1,768.08			$500.00	$200.00		$75.00	$775.00	$2,543.08
II-H PROJECT MANAGEMENT	29	$500.20	$422.00	$150.00	$150.00	$50.00		$50.00	$822.00	$1,322.20
TOTALS	544	$7,206.90	$8,026.00	$2,550.00	$925.00	$555.00	$4,200.00	$445.00	$16,701.00	$23,907.90

OVERHEAD=	$10,291.45
SUBTOTAL=	$34,199.35
FEE=	$2,089.68
TOTAL PROJECT COST=	$36,289.04

QUALITY ASSURANCE PLAN

The Quality Assurance Plan will be submitted as a separate document.

APPENDIX A

BIBLIOGRAPHY

PASNY Robert Moses Parkway

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Tygert, J. (1978) DEC. PASNY Robert Moses Parkway Site Information. November, 1978.

United States Geological Survey, Topographic Maps. 7.5 Minute Series.

Wallace, Deborah (1980) Environmental Biologist, PASNY. Letter to Mr. Dave Knowles, Division of Hazardous Waste. November 10, 1980.

New York State Department of Environmental Conservation
600 Delaware Avenue, Buffalo, New York 14202

Robert F. Flacke
Commissioner

December 30, 1980

JAN 6 1981

BUREAU OF HAZARDOUS
WASTE MANAGEMENT PROGRAMS

Councilwoman Joan E. Gipp
1486 Ridge Road
Lewiston, New York 14902

Re: New York State Power Authority's New Road Construction in the Town of Lewiston, Niagara County, New York

Dear Ms. Gipp:

The Department of Environmental Conservation Agency collected soil samples from the road construction site on November 7, 1980, to determine if the road construction site was used as a dumping site for hazardous waste in the past. Sample points were marked with (X) on the attached map. Please be advised that no major excavation was done for the road construction at the time of the sample collection other than for the construction of the storm sewer catch basins. Generally for the road construction, fresh clay was deposited in some areas and it was covered with large size gravel.

Inspection of the ditch showed virgin clay deposits all along excavated trench. In addition, a thin layer of broken rock was observed beneath the surface, possibly due to the Power Authority's past construction activity for the power dam and the water conduits to the reservoir.

The analysis of the composite soil sample showed less than 1 ppb TOX (Total Hologeneted Organics) at the detection limit of 1 ppb set for the analytical instrument.

If you have any questions please call to this department at 716/842-5041.

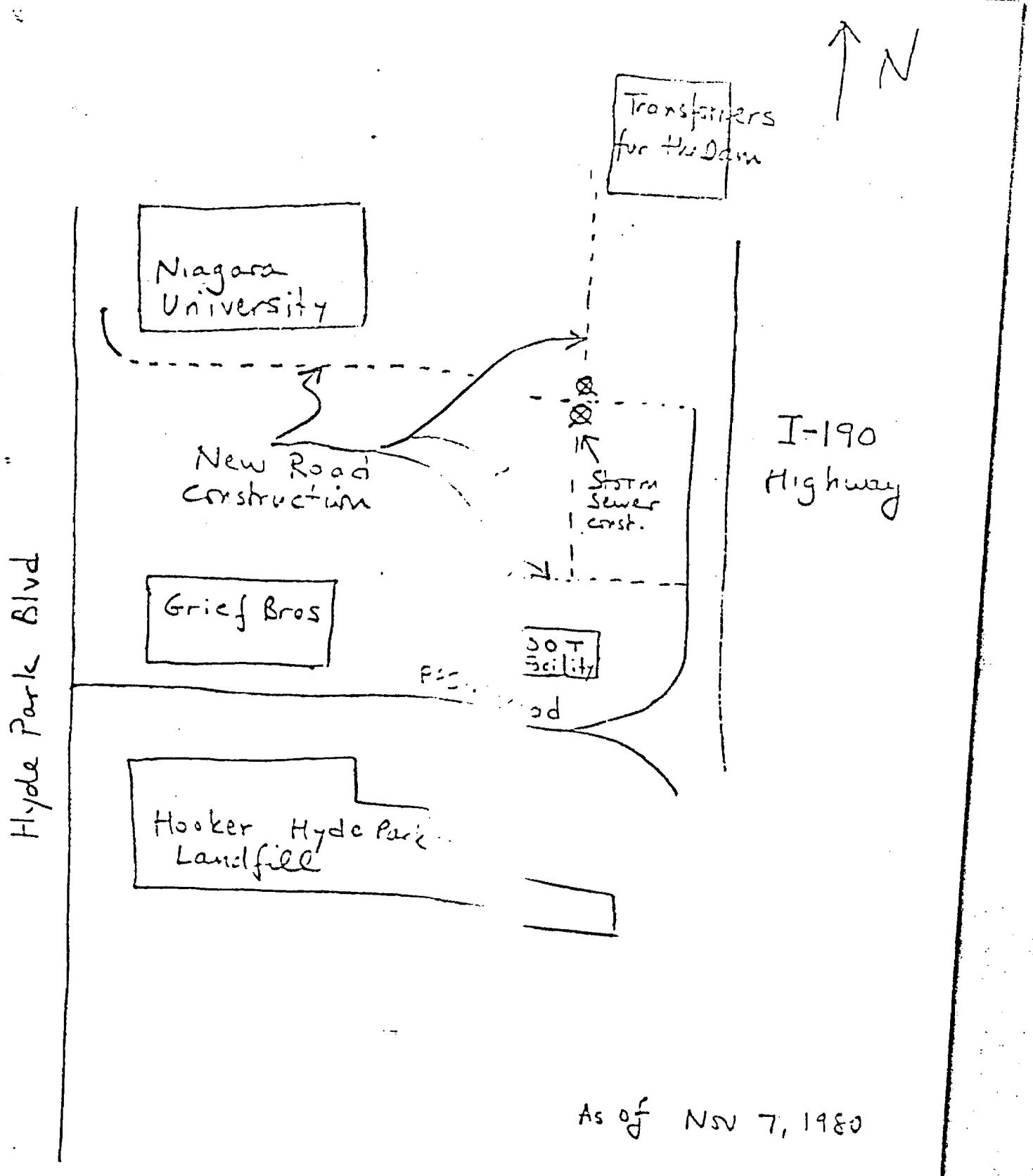
Very truly yours,

John L. Beecher
Associate Chemical Engineer

JLB:YE:dc

cc: J. Kehoe, NCHD
D. Knowles ACO-NYSDEC

Enc.



As of Nov 7, 1980

NCDOH (1993), Niagara County Department of [illegible]
PASNY Robert [illegible]

40.

NAME OF LANDFILL

PASNY ROBERT MOSES PARKWAY (DEC # 932057)

During the construction of the Robert Moses Parkway, 200 to 300 drums of unknown material from Hooker were allegedly placed in trenchs between the breakwall and the Parkway. Large quantities of fill material from the Niagara Power Project excavations were deposited along the river front, extending the shoreline, as much as, several hundred feet into the river, roughly from the Cayuga Creek outlet to a point 3,000 feet above the Falls. The parkway was subsequently built atop this filled area.

The exact location of the drums is unknown. It is not known if wastes were deposited in other areas of the fill.

The area was inspected by Mr. J. Tygert of the DEC in November, 1978. At this time, no visible evidence of drums or dumping was found. In addition, no signs of dumping were visible to the staff of the Niagara County Health Department at the time of this investigation.

No conclusions have been drawn on this site, as available information is insufficient.

POWER AUTHORITY OF THE STATE OF NEW YORK

10 COLUMBUS CIRCLE NEW YORK, N. Y. 10019

(212) 397-6200

November 10, 1980

Mr. Dave Knowles
Division of Hazardous Waste
Department of Environmental Conservation
50 Wolf Rd.
Albany, NY 12223

Subject: PASNY Disposal Site at Niagara Power Project and Rubbish from Niagara Trash Racks

Dear Mr. Knowles:

For many years, the Niagara Power Project staff disposed of the rubbish from the trashracks and of grass-clippings in a landfill, actually a pit, at the Project. Suddenly, about a year ago, the disposal site was considered by DEC as a possibly hazardous site and the rubbish from the trashrack as "hazardous waste."

Because of the new EPA hazardous waste regulations, this designation of our trashrack rubbish will be very expensive and unwieldy to us. The plant personnel would very much like to return to disposing of it in the pit and have asked me to request of DEC a review of these designations. I myself cannot see that this trash satisfies any of the criteria for hazardous waste and would greatly appreciate reconsideration of this matter by the DEC.

If there is any information I can send you to facilitate a review, please let me know. My telephone number is 212-397-6337.

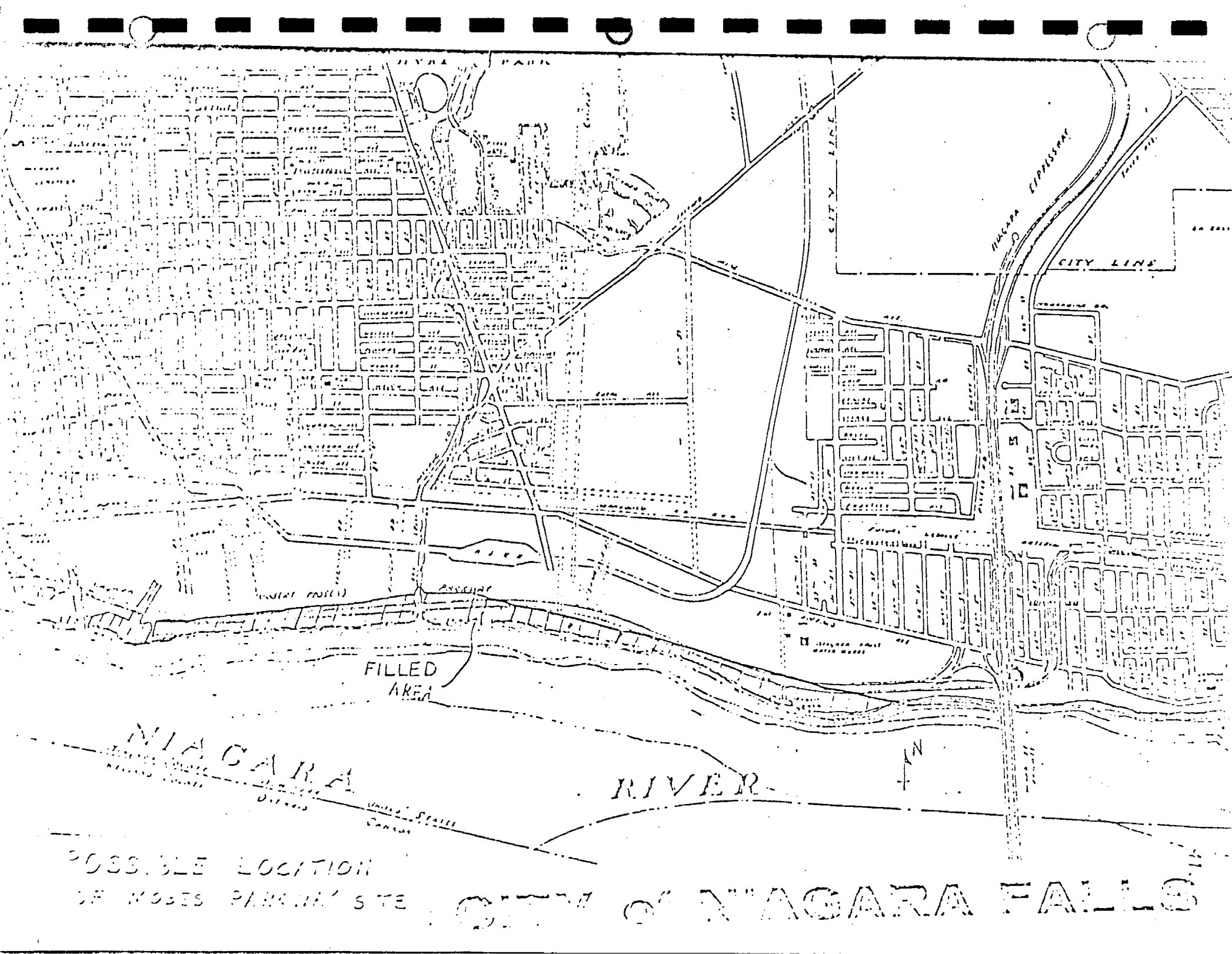
Very truly yours,

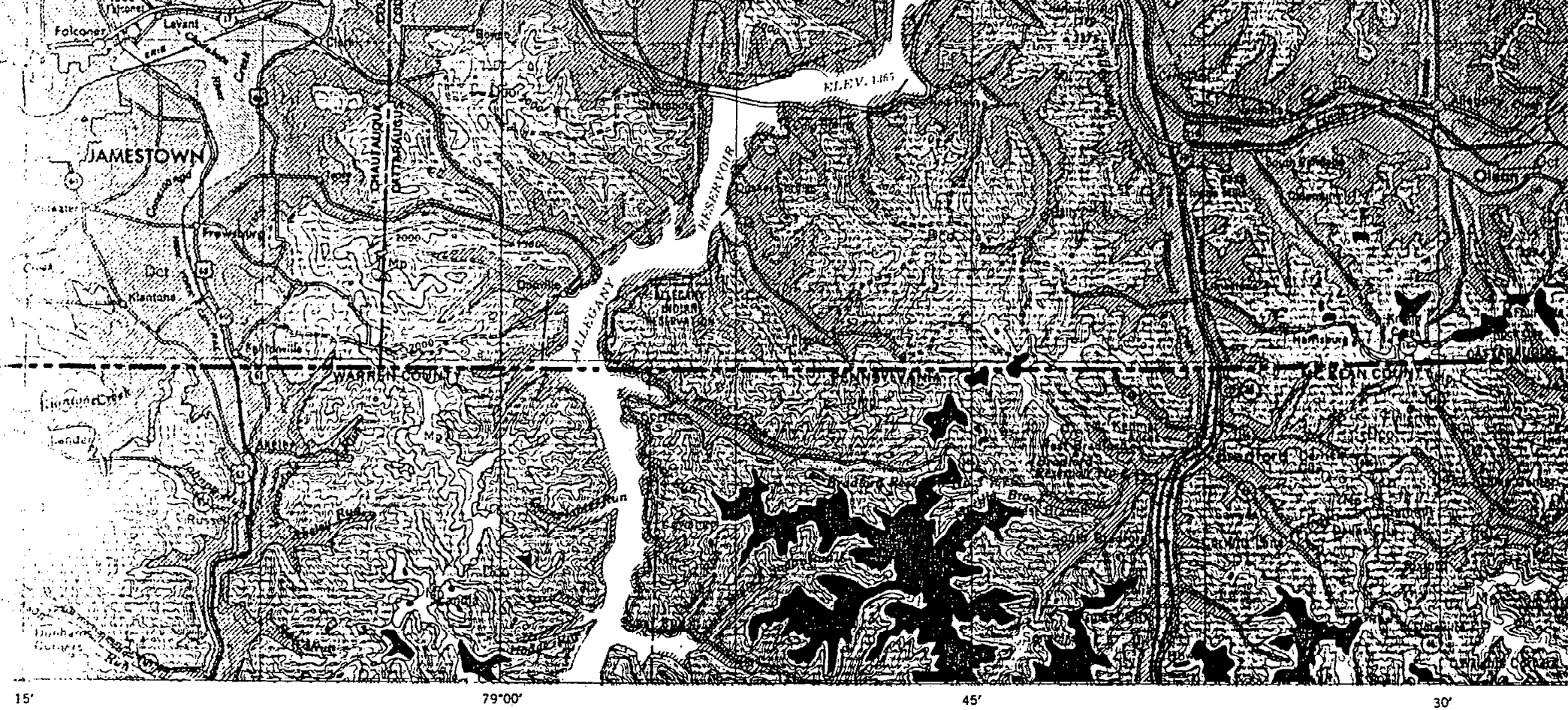
Deborah Wallace

Deborah N. Wallace, Ph.D.
Environmental Biologist

DNW:ai

cc: C. Grose, Niagara
W. Shewan, Niagara


CITY LINE
CITY LINE
FILLED AREA
NIAGARA RIVER
N
POSSIBLE LOCATION
OF MOSES PARKWAY SITE
CITY OF NIAGARA FALLS



GEOLOGIC MAP OF NEW YORK

1970

Niagara Sheet

Scale 1:250,000

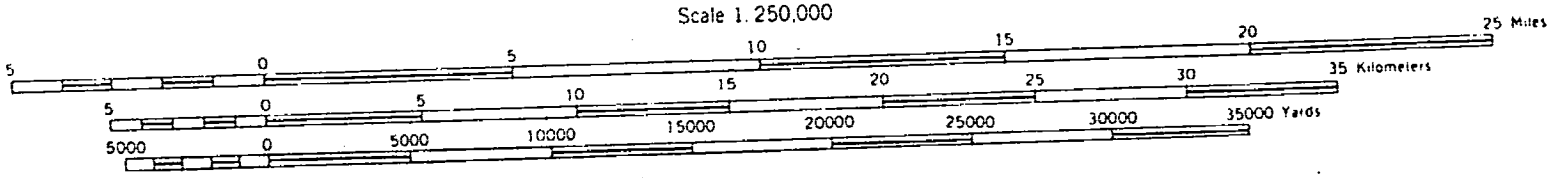
5 0 5 10 15 Statute Miles 20

5 0 5 10 15 20 25 Kilometers 30

CONTOUR INTERVAL 100 FEET

QUATERNARY GEOLOGY OF NEW YORK, NIAGARA SHEET

by Ernest H. Muller



MAP DATA SOURCES

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APPENDIX B

NYS REGISTRY FORM

HAZARDOUS WASTE DISPOSAL SITES REPORT
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Code: _____

Site Code: 932057

Name of Site: PASNY Robert Moses Parkway Region: 9

County: Niagara Town/City Niagara Falls

Street Address _____

Status of Site Narrative:

Allegedly, during the construction of the Parkway, drums from Hooker containing unknown waste materials were apparently placed in trenches between the breakwall and the parkway; downstream of the road under the parkway.

No visible evidence of any drums or adverse effects were noted during the site inspection on 11/78 by J. Tygert and J. Lannotti of DEC during another site inspection in 7/83.

Type of Site: Open Dump ☐ Treatment Pond(s) ☐ Number of Ponds ___
Landfill ☒ Lagoon(s) ☐ Number of Lagoons ___
Structure ☐

Estimated Size Unknown Acres

Hazardous Wastes Disposed? Confirmed ☐ Suspected ☒

*Type and Quantity of Hazardous Wastes:

TYPE	QUANTITY (Pounds, drums, tons, gallons)
Unknown	200-300 drums

* Use additional sheets if more space is needed.

Name of Current Owner of Site: PASNY

Address of Current Owner of Site: _____

Time Period Site Was Used for Hazardous Waste Disposal:

During Parkway construction about 19 _____ To _____ . 1963

Is site Active ☐ Inactive ☒
(Site is inactive if hazardous wastes were disposed of at this site and site was closed prior to August 25, 1979)

Types of Samples: Air ☐ Groundwater ☐ None ☐
Surface Water ☐ Soil ☐

Remedial Action: Proposed ☐ Under Design ☐
In Progress ☐ Completed ☐
Nature of Action:

Status of Legal Action: None State ☐ Federal ☐

Permits Issued: Federal ☐ Local Government ☐ SPDES ☐
Solid Waste ☐ Mined Land ☐ Wetlands ☐ Other ☐

Assessment of Environmental Problems:

The presence of drums containing unknown chemicals must be confirmed.

Assessment of Health Problems:

Health hazard unknown

Persons Completing this Form:

John Kubarewicz _____

_____ _____

_____ _____

New York State Department of Environmental Conservation

New York State Department of Health

Date August 24, 1983 _____