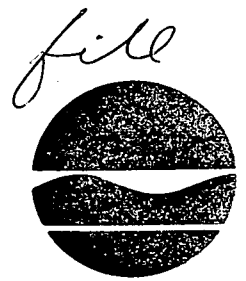


New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233-0001



Henry G. Williams
Commissioner

JUL 03 1985

Mr. William Librizzi
Director
Office of Emergency and Remedial Response
U.S. Environmental Protection Agency
Region II
26 Federal Plaza
New York, NY 10278

Dear Mr. Librizzi:

Re: NPL Candidate Site
Conklin Dumps, NY I.D. #704013

In accordance with Environmental Protection Agency guidance, enclosed is a Hazard Ranking Scoring packet in triplicate, with supporting documentation to include the Conklin Dumps, I.D. #704013, Conklin T, Broome County, New York on the National Priorities List (NPL).

Please call Mr. Charles N. Goddard, P.E., of my staff, at (518) 457-0730 if additional information is necessary.

Sincerely,

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

Enclosure

cc: P. Katz, USEPA - Region II, w/o enc.

bcc: Commissioner Williams

L. Marsh	
J. Corr	C. Goddard
D. Banks	D. O'Toole
R. Torkelson	P. Counterman
C. Bassett	D. King
J. Moore	W. Demick
J. Eckl	M. Chen
J. Greenthal	H. Berger - Region I
N. Nosenchuck (2)	T. Sanford - Region I
M. O'Toole	R. Lupe
W. Wilkie	T. Tofflemire <i>Sox</i>

File

Facility name: Conklin (Landfills) Dumps

Location: Conklin Town, Broome County, NY

EPA Region: REGION II

Person(s) in charge of the facility: R. LUPE
NYS DEPT. Environmental Conservation
50 Wolf Rd; Albany, NY

Name of Reviewer: _____ Date: 6/19/85

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.)

Two abandoned landfills in Town of
Conklin. Site was formerly used by the
Town of Conklin and local industries. Drums
of unknown wastes taken to site. Large designated
wetlands on-site. Leachate problems noted
around landfills. Groundwater contamination
with arsenic, chromium, mercury and organic chemicals
confirmed. Public and private water supplies at risk.

Scores: $S_M = 34.18$ ($S_{gw} = 58.16$ $S_{sw} = 10.63$ $S_a =$)
 $S_{FE} =$
 $S_{DC} =$

FIGURE 1
HRS COVER SHEET

Ground Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	0 45	1	45	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	18	18		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	1	8		
Total Waste Characteristics Score			19	26		
5 Targets					3.5	
Ground Water Use	0 1 2 3	3	9	9		
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	30	40		
Total Targets Score			39	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			33345	57,330		
7 Divide line 6 by 57,330 and multiply by 100			$S_{gw} = 58.16$			

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Surface Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	0 45	1	—	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	1	3		
1-yr. 24-hr. Rainfall	0 1 2 3	1	2	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			12	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	18	18		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	1	8		
Total Waste Characteristics Score			19	26		
5 Targets					4.5	
Surface Water Use	0 1 2 3	3	6	9		
Distance to a Sensitive Environment	0 1 2 3	2	4	6		
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	—	40		
Total Targets Score			10	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			6840	64,350		
7 Divide line 6 by 64,350 and multiply by 100			S _{SW} = 10.63			

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

	s	s ²
Groundwater Route Score (S _{gw})	58.16	3382.59
Surface Water Route Score (S _{sw})	10.63	113.00
Air Route Score (S _a)		—
$S_{gw}^2 + S_{sw}^2 + S_a^2$		3495.59
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		59.12
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		34.18

FIGURE 10
WORKSHEET FOR COMPUTING S_M

June 28, 1982

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:

Conklin Dumps

LOCATION:

Conklin T., Broome County N.Y.

GROUND WATER ROUTE

1. OBSERVED RELEASE

Contaminants detected (5 maximum):

ARSENIC	CHROMIUM
MERCURY	DICHLOROETHANE
METHYLENE CHLORIDE	BENZENE
	IRON.

Rationale for attributing the contaminants to the facility:

CONTAMINANTS FOUND IN ON-SITE MONITORING WELLS
ABOVE BACKGROUND LEVELS. WASTES LANDFILLED
BELOW GROUNDWATER TABLE.

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

*** REF. ① "Hydrogeologic Investigation Report
PROPOSED Broome Co. Industrial Park,
Lyon, N.Y.," 1984, O'Brien + Gere Eng.
(Tables 4-6, Fig. 2)
② "PHASE II INVESTIGATION OF
PROPOSED Broome Co. Industrial
PARK, 1985," O'Brien And Gere Eng.

OVERBURDEN AQUIFER

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

4-16 FT. NEAR LOWER LANDFILL

~ 23 FT. BY UPPER LANDFILL.

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

WASTES LANDFILLED BELOW WATER
TABLE IN BOTH UPPER AND LOWER
LANDFILL.

REF. 1984 and 1985 O'Brien + Gere
Reports.

(Pg. 15, 1984 Report)

Well logs - 1984 and 1985 Reports

Net Precipitation

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

42"

REF: HRS MANUAL

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

30"

REF. HRS MANUAL

Net precipitation (subtract the above figures):

12"

REF. HRS MANUAL

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

- ① Sand and Gravels
- ② Alluvium (Silty-Till layer)

REF. "PHASE II, Hydro. Invest.
of Proposed Bropme Co.
Ind. Park, 1985, O'Brien
and Gero Eng.
(well logs 4-7, 18)

Permeability associated with soil type:

- ① Sand + Gravels $K = 10^{-1} - 10^{-2}$ cm/sec.
- ② Silty-Till (Alluvium) $K = 6.84 \times 10^{-4}$ cm/sec.

Physical State

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

UNKNOWN. WASTES Below Water Table. Groundwater
CONTAMINATION CONFIRMED.

REF. ①. 1984 Hydro. Invest. ... O'Brien & Gero

②. 1985 Hydro Invest. PHASE II
O'Brien & Gero.

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

No Containment. Unlined landfill. Wastes
landfilled below water Table

Method with highest score:

Unlined Landfill (Score 3)

Ref. ① 1984 Hydro. Inv. Report, O'Brien & Gere
② 1985 PHASE II, Hydro Inv. Report
O'Brien and Gere.

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Arsenic	Methylene chloride	Dichloroethane.
Mercury	Benzene	
Chromium	iron	

Compound with highest score:

Arsenic, Chromium, Mercury

(18)

Hazardous Waste Quantity

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

Unknown

Basis of estimating and/or computing waste quantity:

Presence of Hazardous Wastes/Substances confirmed
by on-site groundwater contamination.

*** Ref. ① 1984 Report - O'Brien & Gere
② 1985 PHASE II Report;
O'Brien and Gere.

5 TARGETS

Ground Water Use

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

Drinking Water. (Sole Source). Conklin W.D. can be interconnected to Binghamton with minimal construction. An emergency connection currently does not exist.

No Alternate source for private water supplies (A waterline extension is needed).

Distance to Nearest Well

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

Ref. ① NYS Atlas Community Water System Sources - 1982

② Broome Co. Dept. Health

(6/6/85 Letter R. Lupe to M. Sviatyla.
6/11/85 Letter M. Sviatyla to R. Lupe)

1. Rte. 7; Private Wells

2. Hamm Residence

Distance to above well or building:

1. Rte. 7 $\approx$ 800 FT.

2. Hamm $\approx$ 600 FT.

Ref. See FIG. 1-4 "Hydrogeologic Investigation OF PROPOSED BROOME COUNTY INDUSTRIAL PARK", 1984, O'Brien and Gore Engineers

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:

1. Conklin Water District

2. Private Wells (50 wells)
(40 wells in overburden)

① NYS Atlas of Community Water System Sources, 1982

② "Hydro. Investigation of Proposed Broome County Industrial Park", 1984, O'Brien and Gore Engineers

③ Broome County Dept. Health

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):

(6/6/85 and 6/11/85 Letters Lupe and Sviatyla.)

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

1868 - Conklin Water District

152 - Private Water

2020 Total Population

Ref. ① IBID AS ABOVE

② IBID " "

③ IBID " "

SURFACE WATER ROUTE

1 OBSERVED RELEASE

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

NO DATA

Rationale for attributing the contaminants to the facility:

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

4%

Ref. See Fig. 1-4
"Hydrogeologic Investigation of Proposed
Broome County Ind. Park," 1984, O'Brien and Gere.
Slope Det. From scaling distance vs change in
elevation.

Name/description of nearest downslope surface water:

Carlisle Creek Trib. To Susquehanna River.
~ 300 Ft. From Upper Landfill.

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

4.2%

Ref. IBID AS ABOVE

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

No

Is the facility completely surrounded by areas of higher elevation?

No

1-Year 24-Hour Rainfall in Inches

≈ 2.5 inches

Ref: HRS MANUAL

Distance to Nearest Downslope Surface Water

CARLIN CREEK

≈ 300 FT.

Ref: FIG. 1-4

"Hyd. Inv. of Prop. Broome Co.
Industrial Park", 1984
O'BRIEN AND GERE Eng.

Physical State of Waste

LIQUID. LEACHATE GENERATED BY
BOTH LANDFILLS.

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

No Diversion System/Leachate Collection
OR
Diversion System Unsound.

Method with highest score:

No Leachate Collection System. Leachate
Generated by BOTH Landfills.

Ref: "Hyd. Inv. of Proposed Broome Co.
INDUSTRIAL PARK" 1984,
OBrien and GERE Engineers.

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Arsenic, Mercury, Chromium
Iron, manganese, dichloro ethane.

Ref. See Tables 4-6; Fig. 3
"Hydrogeologic Invest. of Prop.
Broome County Ind. Park. 1984
O'Brien & Gere Eng.

Compound with highest score:

arsenic, chromium, mercury
18

Hazardous Waste Quantity

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

unknown

Basis of estimating and/or computing waste quantity:

wastes documented by sampling
Quantity unknown.

* * *

Ref. 1984 and 1985
Hyd. Inv. Reports
O'Brien and Gere Eng.

5 TARGETS

Surface Water Use

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

Carlin Creek/Susquehanna River.

Susq. River Used For Recreational Usage.
(See Fishing Regs. Included)

Is there tidal influence?

No

Distance to a Sensitive Environment

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

N.A.

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

WETLANDS ON-SITE. WITHIN 800 FT. FROM
UPPER LANDFILL. Ref. "Hydro. Inv. of Proposed Broome
County Ind. Park, 1984, O'Brien
and Gero Engineers.

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

N.A.

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:

None within 3 miles.
NYS Atlas of Community Water
System Sources 1982.



Broome County
HEALTH DEPARTMENT
One Wall Street / Binghamton, New York 13901 / (607) 772-2887

RECEIVED

Kathleen A. Gaffney, M.D., Commissioner of Health
Robert W. Denz, P.E., Director, Environmental Health Services

JUN 12 1985
Carl S. Young, County Executive

BUREAU OF HAZARDOUS SITE CONTROL
DIVISION OF SOLID AND
HAZARDOUS WASTE

June 11, 1985

Mr. R. Lupe, P. E.
Bureau of Hazardous Site Control
Division of Solid and Hazardous Waste
Western Investigation Section
NYSDEC
50 Wolf Road
Albany, New York 12233-0001

Re: Town of Conklin Dumps

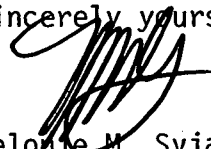
Dear Mr. Lupe:

In response to your letter of June 6, 1985 concerning the water supply situation in the Town of Conklin, I would like to make the following comments:

1. Regarding Question #2: The Town of Conklin and Binghamton Water Supplies are not interconnected.
2. Regarding Question #3: Of the 50 or so residential wells in the vicinity of the landfill, about 10-15 are drilled in bedrock. Previously, we have found arsenic in these deep bedrock wells which may be attributed to the type of bedrock geology present in this locality. Nonetheless, a water line extension down Conklin Avenue (Route 7) would be needed to provide an alternate source of water to the residences.

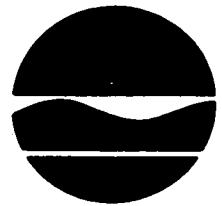
If you have any questions concerning these comments or require additional information, please feel free to call me.

Sincerely yours,


Melonie M. Sviatyla
Assistant Public Health Engineer

MMS:mbf
cc: Robert W. Denz, P. E.

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



Henry G. Williams
Commissioner

June 6, 1985

Ms. Melonie Sviatyla
Broome County Health Department
One Wall Street
Binghamton, NY 13901

Re: Water Supplies
Conklin T., Broome County

Dear Ms. Sviatyla:

This letter will serve to confirm our discussions of June 3, 1985 regarding public and private water supplies in the vicinity of the Conklin Dumps, Conklin T., Broome County. Based on our discussions it is my understanding that:

- 1.) The Conklin Water District wells are developed in the glacial outwash (overburden).
- 2.) The Conklin W.D. is interconnected with the Binghamton Water Supply.
- 3.) Approximately 50 private wells (in the overburden aquifer) exist in the vicinity of the landfill. A waterline extension would be needed to provide an alternate water source to these individuals.

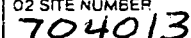
Please advise me in writing, if any of the above is incorrect.
Thank you for your assistance.

Sincerely,

Raymond E. Lupe, P.E.
Bureau of Hazardous Site Control
Division of Solid and Hazardous Waste
Western Investigation Section

bcc: C. Goddard
L. Lepak
W. Demick
(NPL File)
File

RL:jaf



6071773-7763

()

Clear, PARTly Sunny

607, 773-7763

65,85
MONTH DAY YEAR

02 SITE NUMBER
704013



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

I. IDENTIFICATION

01 STATE NY 02 SITE NUMBER 704013

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 2058

02 ☒ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

August 1983 and Nov. 1983 sampling. Groundwater Contamination confirmed. See O'Brien and Gere Reports

01 ☒ B. SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 0

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

Carlin Creek and wetlands (designated) within 300 to 800 ft. of each landfill. Carlin Creek trib. to Susq. River which is recreational. Leachate observed impacting wetland along Rte. 7. Leachate draining toward Carlin Creek

01 ☐ C. CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

No DATA

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

No DATA

01 ☒ E. DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

Leachate OBSERVED. AROUND LANDFILLS.

01 ☐ F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: _____ (Acres)

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

unknown. (Stained by Leachate in several areas).

01 ☒ G. DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 2058

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

High Arsenic and low trace levels of organic chemicals found in private wells along Rte. 7. Carlin Creek may recharge Aquifer By Conklin Water District Wells.

01 ☐ H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

N.A.

01 ☐ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

N.A.



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY

704013

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

Plants in wetlands may be susceptible

01 ☒ K. DAMAGE TO FAUNA

04 NARRATIVE DESCRIPTION (Include name(s) of species)

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

Animal populations in wetland habitat may be at risk.

01 ☒ L. CONTAMINATION OF FOOD CHAIN

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Unknown

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

(Spills/Runoff/Sludging liquids, Leaking drums)

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Leachate outbreaks around landfills. Access to site is possible.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Potential contamination source for affected private wells. Leachate outbreaks off-site.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

N.A.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Leachate represents threat to Carlin Creek and protected wetlands. Public and private water supplies at risk from confirmed groundwater contamination.

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

- ① Hydrogeologic Inv. of Prop. Broome Co. Ind. Park, 1984 O'Brien and Gere
- ② Phase II, Hyd. Inv. of Prop. Broome Co. Ind. Park, 1985, O'Brien and Gere Eng.
- ③ Broome County Dept. Health / NYS Dept. Health - Syracuse Reg.



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

I. IDENTIFICATION

01 STATE NY 02 SITE NUMBER 704013

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	<u>NA</u>			
☐ 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	04 TREATMENT (Check all that apply)	05 OTHER
☐ A. SURFACE IMPOUNDMENT			☐ A. INCINERATION	☐ A. BUILDINGS ON SITE
☐ B. PILES			☐ B. UNDERGROUND INJECTION	
☐ C. DRUMS, ABOVE GROUND			☐ C. CHEMICAL/PHYSICAL	
☐ D. TANK, ABOVE GROUND			☐ D. BIOLOGICAL	
☐ E. TANK, BELOW GROUND			☐ E. WASTE OIL PROCESSING	
☒ F. LANDFILL	<u>unknown</u>		☐ F. SOLVENT RECOVERY	06 AREA OF SITE
☐ G. LANDFARM			☐ G. OTHER RECYCLING/RECOVERY	
☐ H. OPEN DUMP			☐ H. OTHER (Specify)	(Acres)
☐ I. OTHER (Specify)				

07 COMMENTS

IV. CONTAINMENT

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.

Drums reported to be buried. Landfills closed.
Wastes adequately covered. Leachate
generation around both landfills. Wastes landfilled
below water table. Permeable cover on lower landfill.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☐ NO

02 COMMENTS

Leachate on surface of ground. Access to site
on foot is easily possible.

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

- ① Hydrogeologic Inv. Reports, OBrient Corp, 1984 + 1985
- ② Site Inspection observations.



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY 704013

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY
(Check as applicable)

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

02 STATUS

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

03 DISTANCE TO SITE

A. _____ (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 2058

03 DISTANCE TO NEAREST DRINKING WATER WELL 4800 FT. (mi)

04 DEPTH TO GROUNDWATER

4 - 23 (ft)

05 DIRECTION OF GROUNDWATER FLOW

EAST - Northeast

06 DEPTH TO AQUIFER
OF CONCERN

4 - 23 (ft)

07 POTENTIAL YIELD
OF AQUIFER

unknown (gpd)

08 SOLE SOURCE AQUIFER

☐ YES ☐ NO

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

Private wells along Route 7. Most in overburden aquifer. (No Alt. Source). Conklin W.D. wells developed in glacial overburden approximately 1-1 1/2 miles northeast of site.

10 RECHARGE AREA

☒ YES
☐ NO

COMMENTS Carlin Creek identified as potential recharge area.

11 DISCHARGE AREA

☐ YES
☒ NO

COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

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

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:

AFFECTED

DISTANCE TO SITE

Carlin Creek (Trib to Susq).
Susquehanna River
on-site Designated Wetlands

☒ 300 FT. (mi)
☐ 1-1 1/2 miles (mi)
☒ 300-800 FT. (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. _____
NO. OF PERSONS

B. 2058
NO. OF PERSONS

C. _____
NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

1/4 (mi)

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

04 DISTANCE TO NEAREST OFF-SITE BUILDING

1/4 (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)

Subdivisions along Rte. 7, directly adjacent and across from lower landfills. Conklin (V) located approx. 1/2-1 mile from sites.



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY 704013

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

VARIES FROM 10^{-1} TO 10^{-5} cm/sec on most of site.

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE
(Less than 10^{-8} 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

60-114 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

30 (ft)

05 SOIL pH

06 NET PRECIPITATION

12 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.5 (in)

08 SLOPE

SITE SLOPE

4 %

DIRECTION OF SITE SLOPE

EAST

TERRAIN AVERAGE SLOPE

4 %

09 FLOOD POTENTIAL

SITE IS IN _____ YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

A. _____ (mi)

OTHER

300-800 Ft.

B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

_____ (mi)

ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS, NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. _____ (mi)

B. $2\frac{1}{4}$ (mi)

C. _____ (mi)

D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site consists of an upper and lower landfill developed on upgradient area from surrounding residential areas. Lower landfill developed over glacial outwash with very high permeabilities. $10^{-1} - 10^{-2}$ cm/sec in close proximity (800 ft.) to residential areas using private water wells.

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

- ①. 1984 and 1985 Hydro. Inv. of Prop. Broome Co. Industrial Park, O'Brien and Gere Engineers.
- ②. HRS MANUAL
- ③. SITE OBSERVATIONS



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 704013

II. SAMPLES TAKEN

None During Inspection. Past Sampling Available

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	720	O'Brien and Gere Engineers ② BROOME COUNTY Health Dept.	
SURFACE WATER	75	O'Brien and Gere Engineers.	
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
	None

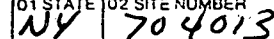
IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☐ AERIAL	02 IN CUSTODY OF _____ (Name of organization or individual)
03 MAPS ☒ YES ☐ NO	04 LOCATION OF MAPS NYS DEC Region 7; NYSDEC Albany; Broome Co. IDA

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

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

- ① 1984 and 1985 Hydro. Reports, O'Brien and Gere
- ② Follow-up mgs. with Broome County officials.



PARENT COMPANY (If applicable)

01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE
05 CITY		06 STATE	07 ZIP CODE		12 CITY		13 STATE	14 ZIP CODE

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

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

- ②-1984 and 1985 Hydro. Inv. Reports (O'Brien and Gere Eng).



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 704013

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		
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

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)

--



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

I. IDENTIFICATION

01 STATE NY 02 SITE NUMBER 704013

II. PAST RESPONSE ACTIVITIES

01 ☒ A. WATER SUPPLY CLOSED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

Private water supplies in vicinity of landfill ~~have~~ have high arsenic levels. Owners advised accordingly by Broome Co. DOH

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



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

I. IDENTIFICATION

01 STATE NY 02 SITE NUMBER 704013

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE

03 AGENCY

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

Facility name: <u>Conklin</u>	
Location: <u>Conklin, Broome County, New York</u>	
EPA Region: <u>Region II</u>	
Person(s) in charge of the facility: <u>Ray Lupe</u>	
<u>NYS Department of Environmental Conservation</u>	
<u>50 Wolf Road, Albany, NY</u>	
Name of Reviewer: <u>Karen Sudy</u>	Date: <u>7/16/85</u>
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.)	
<u>Two abandoned landfills in the Town of Conklin. The site was</u>	
<u>formerly used by the Town of Conklin and local industries. Drums</u>	
<u>of unknown wastes were taken to the site. Large designated</u>	
<u>wetlands on-site. Leachate problems noted around landfills.</u>	
<u>Ground water contamination with arsenic, chromium, mercury, and</u>	
<u>organic chemicals confirmed. Public and Private water supplies</u>	
<u>at risk.</u>	
Scores: $S_m = 33.93$ ($S_{gw} = 58.16$; $S_{sw} = 7.97$; $S_a = N/A$)	
$S_{FE} = N/A$	
$S_{DC} = N/A$	

**FIGURE 1
HRS COVER SHEET**

PA
8-1-85
A. J. H.

Ground Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	0 <u>45</u>	1	<u>45</u>	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		
Net Precipitation	0 1 2 3	1		3		
Permeability of the Unsaturated Zone	0 1 2 3	1		3		
Physical State	0 1 2 3	1		3		
Total Route Characteristics Score				15		
3 Containment	0 1 2 3	1		3	3.3	
4 Waste Characteristics					3.4	
Toxicity/Persistence	0 3 6 9 12 15 <u>18</u>	1	<u>18</u>	18		
Hazardous Waste Quantity	0 <u>1</u> 2 3 4 5 6 7 8	1	<u>1</u>	8		
Total Waste Characteristics Score			<u>19</u>	26		
5 Targets					3.5	
Ground Water Use	0 1 2 <u>3</u>	3	<u>9</u>	9		
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 <u>30</u> 32 35 40	1	<u>30</u>	40		
Total Targets Score			<u>39</u>	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			<u>3345</u>	57,330		
7 Divide line 6 by 57,330 and multiply by 100			$S_{gw} = 58.16$			

FIGURE 2
GROUND WATER ROUTE WORK SHEET

QA
 8-1-85
 [Signature]

Surface Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	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	2	3		
Distance to Nearest Surface Water	0 1 2 3	2	4	6		
Physical State	0 1 2 3	1	3	3		
Total Route Characteristics Score			9	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	18	18		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	1	8		
Total Waste Characteristics Score			19	26		
5 Targets					4.5	
Surface Water Use	0 1 2 3	3	6	9		
Distance to a Sensitive Environment	0 1 2 3	2	4	6		
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40		
Total Targets Score			10	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			5130	64,350		
7 Divide line 6 by 64,350 and multiply by 100			S _{sw} = 7.97			

**FIGURE 7
SURFACE WATER ROUTE WORK SHEET**

QA
 8-1-85
 H. J. Lee

NOT EVALUATED.

Air Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	0 45	1	0	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		$S_a = 0.0$				

FIGURE 9
AIR ROUTE WORK SHEET

OA
8-1-87
[Signature]

	S	S ²
Groundwater Route Score (S _{gw})	58.16	3382.59
Surface Water Route Score (S _{sw})	7.97	63.52
Air Route Score (S _a)	0.00	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		3446.11
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		58.70
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		33.93

FIGURE 10
WORKSHEET FOR COMPUTING S_M

QA
8-1-85
A/lee

Fire and Explosion Work Sheet							N/A						
Rating Factor	Assigned Value (Circle One)				Multi- plier	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 =								

**FIGURE 11
FIRE AND EXPLOSION WORK SHEET**

PA
1-1-85
H. H. H.

Direct Contact Work Sheet N/A					
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
1 Observed Incident	0 45	1		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	8.2
3 Containment	0 15	1		15	8.3
4 Waste Characteristics Toxicity	0 1 2 3	5		15	8.4
5 Targets					8.5
Population Within a 1-Mile Radius	0 1 2 3 4 5	4		20	
Distance to a Critical Habitat	0 1 2 3	4		12	
Total Targets Score				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				21,600	
7 Divide line 6 by 21,600 and multiply by 100			SDC =		

FIGURE 12
DIRECT CONTACT WORK SHEET

Handwritten:
 0.8
 1.75
 1.4

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: 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. Include the location of the document.

FACILITY NAME: Conklin Dumps

LOCATION: Conklin, Broome County, NY

DATE SCORED: 7/16/85

PERSON SCORING: Karen Sudy

PRIMARY SOURCE(S) OF INFORMATION (e.g., EPA region, state, FIT, etc.):

FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION:

COMMENTS OR QUALIFICATIONS:

PA
8-1-85
A. Shue

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (3 maximum):

mercury benzene
chromium 1,1-dichloroethane
vinyl chloride

Ref. 2a (Tables 4 & 5)

value = 45 (Ref.1)

Rationale for attributing the contaminants to the facility:

These contaminants and others were found in wells screened in refuse, as well as in adjacent wells screened in alluvium and outwash sand and gravel. Other wells screened in the same aquifer showed no contamination.

Ref. 2a (pp 22-25, Fig. 3 & Tables 4 & 5)

* * *

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

The aquifer of concern consists of alluvium and outwash sands and gravel, which overlie till in the vicinity of the site. These materials extend from the ground surface to depths of at least 60 feet near the site.

Ref. 2a, 2b, 3, 12 & 13

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

N/A

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

N/A

Net Precipitation

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

N/A

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

N/A

Net precipitation (subtract the above figures):

N/A

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

N/A

Permeability associated with soil type:

N/A

Physical State

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

N/A

QA
8-1-85
J. Lee

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

N/A

Method with highest score:

N/A

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

chromium vinyl chloride *acute?*
mercury 1,1-dichloroethane
benzene

Ref. 2a (Tables 4 & 5, Fig. 3 & Appendix A)

Compound with highest score:

mercury (toxicity=3, persistence=3)

Ref. 10

Value = 18 (Ref. 1)

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):

Although both landfills may contain a total of over 10 million cubic feet of waste, the amount of material that is hazardous is not known.

Ref. 2a (pp3-4)

Basis of estimating and/or computing waste quantity:

The quantity of hazardous material is not known. However, contaminants were detected in samples of ground water from wells screened in refuse. Therefore, a value of 1 has been assigned to this factor, signifying a quantity of hazardous waste greater than 0.

Ref. 11

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A/S Lee

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:
Private and municipal wells draw drinking water from the aquifer of concern within 3 miles of the site. No alternate sources of supply are available.

Ref. 2a (p 38), 3, 4, 14 & 15

Value = 3 (Ref. 1)

Distance to Nearest Well

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

The nearest well drawing drinking water from the aquifer of concern is the Villano/Buchinski private well, located on the west side of Route 7 north of the access road leading to the landfill area.

Ref. 2a (Fig. 3 & Table 8) & 2b (pp 27 & 32)

Distance to above well or building:

The Villano/Buchinski well is located approximately 700 feet ENE of on-site monitoring well #5, which is contaminated with mercury.

Ref. 2a (Fig. 3)

Value = 4 (Ref.1)

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:

Conklin Water District Well #2 - 1868 people
private wells - 133 people (35 wells times 3.8 people per well)
Other private, multi-user wells exist in the area but the population associated with them is not known.

Ref. 3 & 4

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):

None known.

Ref. 8

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

wells: $1868 + 133 = 2001$ people
irrigated land: 0
total: 2001 people

Value = 3

Matrix value (4 by 3) = 30

Ref. 1

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AJH

SURFACE WATER ROUTE

1 OBSERVED RELEASE

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

Rationale for attributing the contaminants to the facility:

N/A

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Surface contamination has been documented at only one point -- in a leachate seep in the upper landfill. Since it is not apparent that hazardous materials exist everywhere in the landfills, the slope of the facility as it affects migration by surface water must be given a value of 0 degrees. Ref. 2a (p 23, Fig. 3 & Tables 4 & 5)

Name/description of nearest downslope surface water:

The nearest downslope surface water is the Susquehanna River.

Ref. 6

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

The average slope of the intervening terrain between the point of known surface contamination and the Susquehanna River, along the surface water pathway, is approximately 1.3%. This value was calculated using an elevation of 900 feet for the contamination, 850 feet for the river, and a distance between the two of 4000 feet.

Ref. 2a (Figs. 1 & 2) & 6 Matrix Value (each less than 3%) = 0 (Ref. 1)
Is the facility located either totally or partially in surface water?

No

Ref. 2a (Fig. 1) & 6

Is the facility completely surrounded by areas of higher elevation?

No

Ref. 6

1-Year 24-Hour Rainfall in Inches

2.5"

Value = 2

Ref. 1

Distance to Nearest Downslope Surface Water

The Susquehanna River is located approximately 4000 feet east from the point of documented surface contamination at the Conklin landfills.

Ref. 2a (p 23 & Fig. 2) & 6

Value = 2 (Ref. 1)

Physical State of Waste

Benzene and toluene occur commonly as liquids and have been found in a leachate seep in the upper landfill.

Ref. 2a (Table 5)

Value = 3 (Ref. 1)

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Unlined landfills, no leachate diversion systems, inadequate cover.

Ref. 2a (Executive Summary, pp 3-4, Fig. 3 & Appendix A)

Method with highest score:

Unlined landfill, no leachate diversion system, inadequate cover.

Value = 3 (Ref. 1)

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4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

mercury
chromium
benzene
toluene

Ref. 2a (Fig. 3, Tables 4 & 5 & p 23)

Compound with highest score:

mercury (toxicity =3; persistence =3)

Ref 10

Value = 18 (Ref. 1)

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):

See Groundwater Section.

Basis of estimating and/or computing waste quantity:

The quantity of hazardous material available to the surface water route is not known. However, contaminants were detected in a sample of leachate from the upper landfill; therefore a value of 1 has been assigned to this factor, signifying a quantity of waste greater than 0.

Ref. 2a (Fig. 3 & Tables 4 & 5) & 11

5 TARGETS

Surface Water Use

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

The Susquehanna River is used for fishing in the vicinity of the site.

Ref. 9

Value = 2 (Ref. 1)

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Is there tidal influence?

N/A

Distance to a Sensitive Environment

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

N/A

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

Over 5 acres of wetlands are located at the site, between the upper and lower landfills. The nearest wetland area is located along the surface water pathway approximately 600 feet from a contaminated leachate seep in the upper landfill.

Ref. 2a (Fig. 1 & 2 & Tables 4 & 5)

Value = 2 (Ref. 1)

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

N/A

Population Served by Surface Water

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

No surface water intakes are known to exist within three miles downstream of the facility.

Ref. 3

Value = 0 (Ref. 1)

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

N/A

Total population served:

N/A

Name/description of nearest of above water bodies:

N/A

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

N/A

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AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

N/A

Date and location of detection of contaminants

No analyses of ambient air were conducted at this site.

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:

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Toxicity

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 determined:

0 to 4 mi

0 to 1 mi

0 to 1/2 mi

0 to 1/4 mi

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 1 mile or less:

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

Land Use

Distance to commercial/industrial area, if 1 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?

NOT EVALUATED
FIRE AND EXPLOSION

1 CONTAINMENT

Hazardous substances present:

Type of containment, if applicable:

2 WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

Ignitability

Compound used:

Reactivity

Most reactive compound:

Incompatibility

Most incompatible pair of compounds:

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Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

Basis of estimating and/or computing waste quantity:

3 TARGETS

Distance to Nearest Population

Distance to Nearest Building

Distance to Sensitive Environment

Distance to wetlands:

Distance to critical habitat:

Land Use

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

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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?

Population Within 2-Mile Radius

Buildings Within 2-Mile Radius

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NOT EVALUATED
DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

2 ACCESSIBILITY

Describe type of barrier(s):

3 CONTAINMENT

Type of containment, if applicable:

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Compound with highest score:

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5 TARGETS

Population within one-mile radius

Distance to critical habitat (of endangered species)

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REFERENCES

If the entire reference is not available for public review in the EPA regional files on this site, indicate where the reference may be found:

Reference Number	Description of the Reference
1	Uncontrolled Hazardous Waste Site Ranking System; A Users Manual. National Oil and Hazardous Substances Contingency Plan, Appendix A. (40 CFR 300)(47 FR 31219), July 16, 1982.
2a	Hydrologic Investigation, Proposed Broome County Industrial Park, Conklin, NY. O'Brien & Gere Engineers, Inc., March 1984.
2b	Phase II: Hydrogeologic Investigation, Broome Industrial Park, Conklin, NY. O'Brien & Gere Engineers, Inc., February 1985.
3	Atlas of Eleven Selected Aquifers in New York, USGS Water Resources Investigations Open-File Report 82-553, 1982.
4	Letter from Ray Lupe (NYSDEC) to Melonie Sviatyla (Broome County Health Department), June 6, 1984.
5	DELETED
6	USGS Topographic Map, Binghamton East 7½' Quadrangle, 1968.
7	Site Inspection Report (EPA Form 2070-13), Conklin Landfills.
8	Memorandum from Karen Sudy (EPA) to file, dated July 17, 1985.
9	New York State Fishing Regulations, October 1984.
10	Sax, N. I., Dangerous Properties of Industrial Materials, 4th ed., Van Nostrand Reinhold Co., New York, 1975.
11	Supplemental Instructions for the Hazard Ranking System, EPA internal memorandum dated July 29, 1982.
12	Soil Survey of Broome County, New York, USDA, 1971.
13	Stratified Drift Aquifers in the Susquehanna River Basin, New York, 1982.
14	Telephone conversation record, Tony Mastrangelo (Broome County Health Department) and William Schneider (EPA), July 23, 1985.
15	Telephone conversation record, Don Gay (Binghamton Water and Sewer Department) and Anthony Lee (MITRE Corp.), August 1, 1985.

PA
8-1-85
After

RECORD OF COMMUNICATION

☐ PHONE CALL ☐ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE
☐ OTHER (SPECIFY) REF 15

(Record of item checked above)

TO: Don Gory, Superintendent
Birmingham (a/v) Water & Sewer Dept.
Birmingham, AL (205-772-7211)

FROM: Anthony Lee, MTS
MITRE Corp
McLean, VA (703-883-6322)

DATE 8-1-85

TIME 3:00 PM

SUBJECT

WHETHER CONNECTIONS EXIST BETWEEN BIRMINGHAM & CUMMINS WATER SYSTEMS

SUMMARY OF COMMUNICATION

I asked Don whether the Birmingham Water Supply System was connected to the Cummins system. He told me that the only connection from Birmingham to Cummins served the railroad yard and that no other connections existed.

I told him that the reason I was checking with him had to do with conflicting information that EPA had received from the Browne County Health Department.

A. Lee

INFORMATION COPIES

TO: HRS Documentation as a clarification reference.

National Priorities List Site

Hazardous waste site listed under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) ("Superfund")

CONKLIN DUMPS Conklin, New York

The Conklin Dumps Site consists of two abandoned landfills located on a 619-acre tract of land in Conklin, Broome County, New York. The Town of Conklin owned and operated the landfills from 1964 to 1975.

The lower or eastern-most landfill, which operated from 1964 to 1969, consists of three linear trenches. Assuming an average depth of 30 feet for each trench, the lower landfill contains approximately 3.7 million cubic feet of waste material. Preliminary indications are that the landfill contains municipal solid waste, according to a consultant to the Broome County Industrial Development Agency (BIDA), which is considering purchasing the property to create an industrial park. Some industrial and chemical wastes also may have been deposited.

The upper landfill operated from 1969 until it closed in 1975 under a closure order issued by the State. Most of the waste deposited in this landfill was placed in six unlined cells; subsequently, additional waste material was piled over the cells. The majority of the waste is municipal solid waste, although sampling indicates that some industrial and chemical waste may have been deposited. Assuming an average depth of 25 feet, the total filled volume of this landfill is estimated at 6.9 million cubic feet.

The State has observed leachate from the dumps draining towards Carlin Creek, a tributary to the Susquehanna River, which is used for recreation. Ground water on the site is grossly contaminated with arsenic, chromium, mercury, and various organic chemicals, according to tests conducted by BIDA's consultant. Private wells near the site contain high levels of arsenic and traces of organic chemicals, according to the consultant and the New York State Department of Health.

One of the dumps is in highly permeable soils and is about 800 feet upgradient from residential areas using private wells. About 2,000 people depend on ground water within 3 miles of the site as a source of drinking water. On the site is a large wetland designated by the U.S. Department of the Interior as an important biological resource.



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 704013

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

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

File of 01/17/81
Site Name
Site No.
County
Town
Post
Zip
State

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

File on eDOCs X Yes _____ No _____
Site Name Conklin
Site No. 704013
County Breome
Town Conklin
Foitable X Yes _____ No _____
File Name 1985-07-03 NPL List
Scanned & eDOC _____