732092

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE I INVESTIGATION

Town of Royalton Landfill

Site No. 932092

Town of Royalton

Niagara County

Date: January 1986



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

By:

In Association With
DAMES & MOORE

ENGINEERING INVESTIGATIONS AT
INACTIVE HAZARDOUS WASTE SITES
IN THE STATE OF NEW YORK
PHASE I INVESTIGATIONS

TOWN OF ROYALTON LANDFILL

NYS SITE NUMBER 932092

TOWN OF ROYALTON

NIAGARA COUNTY

NEW YORK STATE

Prepared For

DIVISION OF SOLID AND HAZARDOUS WASTE

NEW YORK STATE

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
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TOWN OF ROYALTON LANDFILL

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SECTION I

EXECUTIVE SUMMARY TOWN OF ROYALTON LANDFILL

This report, prepared for the New York State Department of Environmental Conservation (NYSDEC), presents the results of the Phase I investigation for the Town of Royalton Landfill (NYS Site Number 932092, EPA Site Number D000514430) located in the Town of Royalton, Niagara County, New York (see Figure I-1).

SITE BACKGROUND

The 5-acre site is owned by Douglas Ortman, who leased it to the Town of Royalton for use as a municipal landfill from 1958 to 1978 (see Figure I-2). The landfill was operated by the Royalton Highway Department while active. Prior to landfilling activities, the site was operated as a quarry pit (NCHD, Site Profile Report). Since closure, the site has had minor incidences of scavenger dumping of refuse. No hazardous wastes are known to have been disposed on-site.

Water samples collected by the NYSDEC in 1982 from a ditch that received leachate runoff from the landfill showed a large increase in iron and zinc at the point of leachate entry relative to the upgradient sample. Heavy metals, TOX, and TOC also increase, but to a lesser degree. There are no known health problems associated with the site.

ASSESSMENT

In an attempt to quantify the risk associated with this site, the Hazard Ranking Scoring system (HRS) was applied as currently being used by the New York State DEC to evaluate abandoned hazardous waste sites in New York State. This system takes into account the types of wastes at the site, receptors, and transport routes to apply a numerical ranking of the site. As stated in 40 CFR Subpart H Section 300.81, the HRS scoring system was developed to be used in evaluating the relative potential of uncontrolled hazardous substance facilities to cause health or safety problems or ecological or environmental damage. It is assumed by the EPA that a uniform application of the ranking system in each state will permit EPA to identify those releases of hazardous substances that pose the greatest hazard to humans or the environment.

Under the HRS, three numerical scores are computed for each site, to express the relative risk or danger from the site, taking into account the population at risk, the potential for contamination of drinking water supplies, for direct human contact, and for destruction of sensitive ecological systems and other appropriate factors. The three scores are:

- S_M reflects the potential for harm to humans or the environment from migration of a hazardous substance away from the facility by routes involving groundwater, surface water or air. It is a composite of separate scores for each of the three routes (S_{GW} = groundwater route score, S_{SW} = surface water route score, and S_{Λ} = air route score).
- o $\mathbf{S}_{\mathtt{FE}}$ reflects the potential for harm from substances that can explode or cause fires.
- O S_{DC} reflects the potential for harm from direct contact with hazardous substances at the facility (i.e., no migration need be involved).

The preliminary HRS score was:

$$S_{M} = 6.19$$
 $S_{A} = 0$
 $S_{GW} = 7.16$ $S_{FE} = 0$
 $S_{SW} = 7.96$ $S_{DC} = 0$

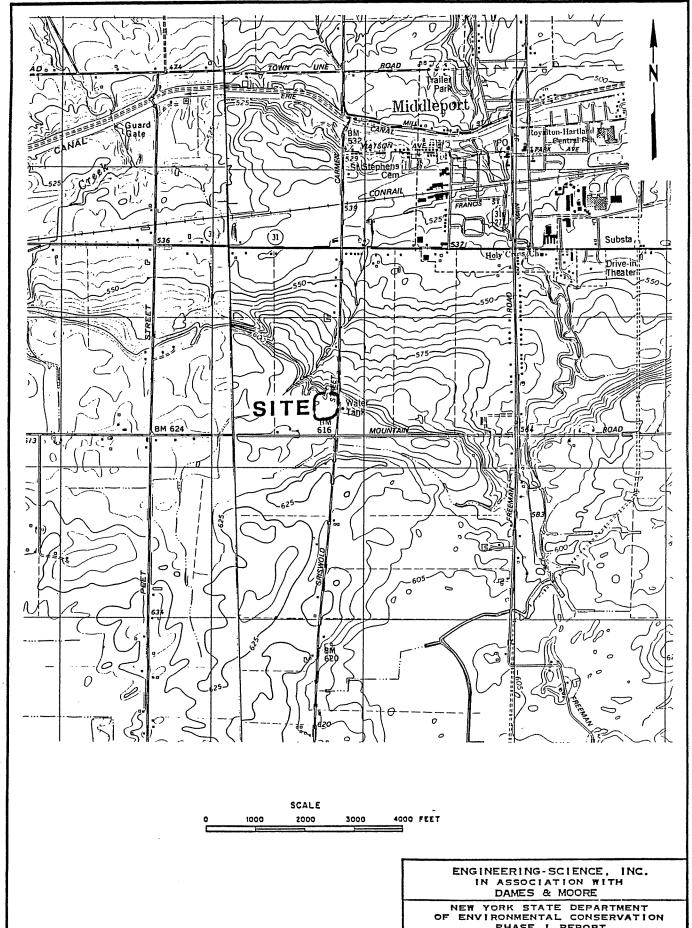
Although it is uncertain if hazardous waste is disposed of at the landfill, the use of groundwater for drinking and the occurrence of leachate seeps results in a high migration score.

RECOMMENDATIONS

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

- o Groundwater monitoring system consisting of one upgradient and two downgradient wells.
- o Surface water and sediment monitoring system consisting of three monitoring stations.
- o Sample analyses to include priority pollutants.

The estimated man-hours required to complete Phase II are 565, while the estimated cost is \$44,972.

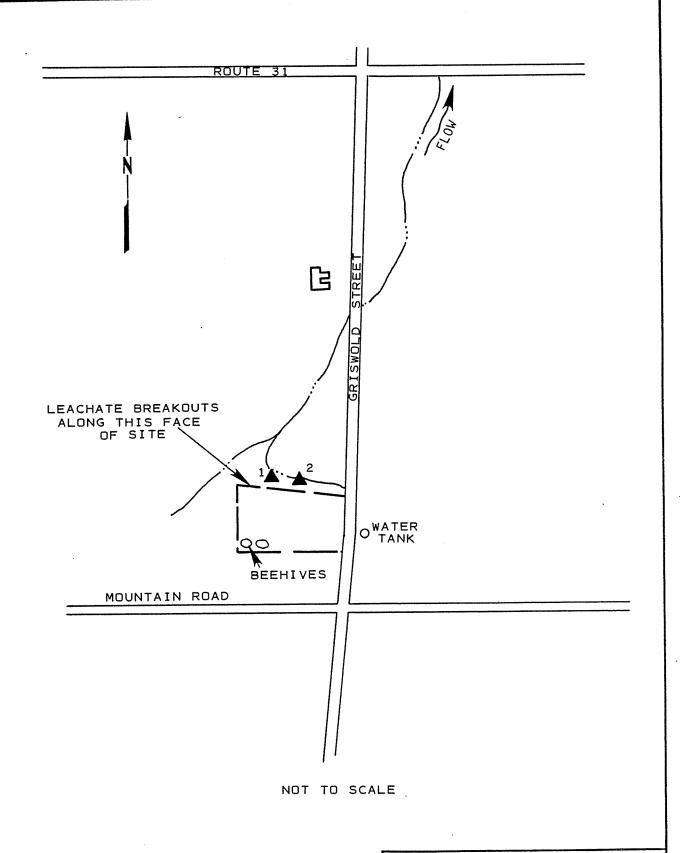


PHASE I REPORT

SITE LOCATION MAP TOWN OF ROYALTON

FIGURE I-1

REFERENCE: U.S.G.S. 7.5' Topographic Hap Medina, NY (1980) and Gasport, NY (1979) Quadrangles



EXPLANATION:

- ▲ 1 SAMPLE POINT
- #1 SOIL AND WATER
- #2 WATER ONLY

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PLOT PLAN
TOWN OF ROYALTON

FIGURE I-2

SECTION II

PURPOSE

The purpose of the Phase I investigation at the Town of Royalton Landfill site was to assess the hazard to the environment caused by the present condition of the site. This assessment is based on the Hazard Ranking System, which involves the compilation and rating of numerous geological, toxicological, environmental, chemical, and demographic Details of HRS factors and the calculation of an HRS score. implementation are included in Section V. During the initial portion of the investigation, available data and records, combined with information collected from a site inspection, were reviewed and evaluated. investigation at this site focused on the potential for groundwater, soil, and surface water contamination resulting from the operation of a municipal landfill from 1958 to 1978. Based on this initial evaluation of the site, a Phase II Work Plan has been prepared for collecting any additional data needed to complete the HRS score. In addition, a cost estimate for the recommended Phase II work is provided.

11.

SECTION III

SCOPE OF WORK

The scope of work for the New York State Inactive Site Investigation Program (Phase I) was to collect and review all available information necessary for the documentation and preparation of a Hazard Ranking System score and a Phase II work plan and cost estimate if required. The work activities performed included data collection and review, a site inspection, and interviews with knowledgeable individuals of past and present disposal activities at the site.

The sources contacted during this Phase I investigation included government agencies (federal, state and local), present site owners and operators, and any other individuals that may have knowledge of the site, as identified during the performance of the investigation. These sources are listed in Appendix A. The intent of the list is to identify all persons, departments, and/or agencies contacted during the third round of the Phase I investigations even though useful information may not have been collected from each source contacted.

SECTION IV

SITE ASSESSMENT

SITE HISTORY

The Town of Royalton Landfill, situated on a 5-acre parcel of land was operated as a municipal landfill from 1958 to 1978. The site was used to dispose of municipal refuse collected by Bancroft and individual residents from the Town of Royalton and the Villages Gasport and Middleport. Since closure in 1978, a small amount of scavenger dumping of refuse has occurred on-site. In the past, most wastes were transported to the landfill by local residents since there was no centralized collection system in operation. While active, the landfill was maintained by the Royalton Highway Department; however, it was (and still is) owned by Douglas Ortman of Middleport, NY, who leased the property to the town. Prior to operation as a landfill, the site was a quarry pit (NCHD, Site Profile Report).

In 1973, the Niagara County Health Department (NCHD) and the NYSDEC ordered upgrading of facilities and operational practices at the site to bring it into compliance with existing sanitary codes for landfill operation. Items of concern were: unrestricted access to the site, lack of adequate daily cover, and improper drainage of water from the site (NYSDEC, Order of Consent, 1973). In 1978, the site was closed and capped with local soils brought in by the Royalton Highway Department.

SITE TOPOGRAPHY

The Town of Royalton Landfill is located in a rural area between the villages of Gasport and Middleport, Niagara County, New York State. The site is a closed landfill located on top of and to the south of the Niagara Escarpment. The original ground surface sloped steeply to the north, was later excavated as a quarry, and is now filled with refuse, resulting in a ground surface sloping more gently to the north.

Surface runoff collects along the northern perimeter of the rectangular site and drains via a small man-made ditch to the west into an The stream in turn flows to Jeddo Creek which flows unnamed stream. through a culvert under the Barge Canal (Hopkins, 1987). To the east of the site is Griswold Street, along which are rural homes, farms, and a To the north of the site across the drainage ditch is water tower. farmland owned by the landfill site owner. To the west of the site is a swamp. To the south of the site is farmland. There are private drinking water supply wells in use within 3 miles of the landfill site However, the bedrock aquifer, the aquifer of concern, (Ontman, 1985). is not the same aquifer that local residents and the Town of Middleport obtain drinking water. Middleport is on the Niagara County Municipal Water Supply System (Hopkins, 1987).

Local Sensitive Environments

There are no wetlands or critical habitats near this site.

SITE HYDROLOGY

This summary of the hydrology is based on information from USGS Topographic Maps, NYS Museum and Science Service Bedrock Geology Map and Quaternary Geology Map, Site Profiles by Niagara County Health Department and the NYSDEC.

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.

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 pre-existing 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). Drainage channels carved into the Niagara Escarpment indicate positions of former outlets from Lake Tonawanda.

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

Site Hydrogeology

The site is located on the Niagara Escarpment. Bedrock is expected to be the lower part of the Lockport Dolomite. Prior to its use as a landfill, this site was a stone quarry. This site now may even be

floored on the Rochester Shale. The Lockport Dolomite forms an aquifer of highly mineralized water. The Rochester shale at the top is almost impermeable and acts as a confining bed to the limestones and sandstones below (Johnson, 1964).

The top of bedrock is expected to be approximately 20 to 30 feet below the existing landfill surface. Overlying the bedrock is waste material from landfilling activities. No natural soils are expected to exist in the subsurface of this site.

Waste material has been leveled and covered. The ground surface is now vegetated.

SITE CONTAMINATION

The Town of Royalton Landfill was operated as a municipal refuse landfill and received refuse from the Town of Royalton and Villages of Gasport and Middleport from 1958 to 1978. No hazardous waste are known to be disposed in the landfill. Preliminary calculations based on the acreage and depth of the landfill indicate that on the order 97,000 cubic yards of refuse wastes were placed in the landfill (excluding 20% intermediate and final cover). Because of the site's previous use as a stone quarry, it is assumed that wastes were placed directly on bedrock (NCHD, Site Profile Report).

Numerous orange ground stains and leachate seeps were observed during the site visit (3/25/85). Past inspections conducted by NCHD and NYSDEC personnel have noted similar leachate seepages, which enter a surface drainage ditch adjacent to the landfill. On March 31, 1982, samples in the ditch at the point of leachate entry (Site 1) and a water sample at a point approximately 150 feet upstream from the point of entry (Site 2) were taken (NYSDEC, Site Profile Report). The exact locations where these samples were collected is not available. Table IV-1 presents the results of this sampling effort. Based on the data presented in Table IV-1, it is apparent that both iron and zinc concentrations, especially the former, were significantly increased in

ditch water at the point of leachate entry. Other parameters that were slightly elevated in the downstream sample include chromium, copper, and halogenated organics as Cl_2 (lindane standard). Additionally, total organic carbon exhibited a significant increase. In the soil, both iron and zinc concentrations were slightly elevated at the point of leachate entry, although no upgradient samples were analyzed for comparison.

In addition, an HNu meter was used during the ES and D&M site inspection to determine the presence of volatile organic compounds at the landfill. All measurements were below 1 ppm.

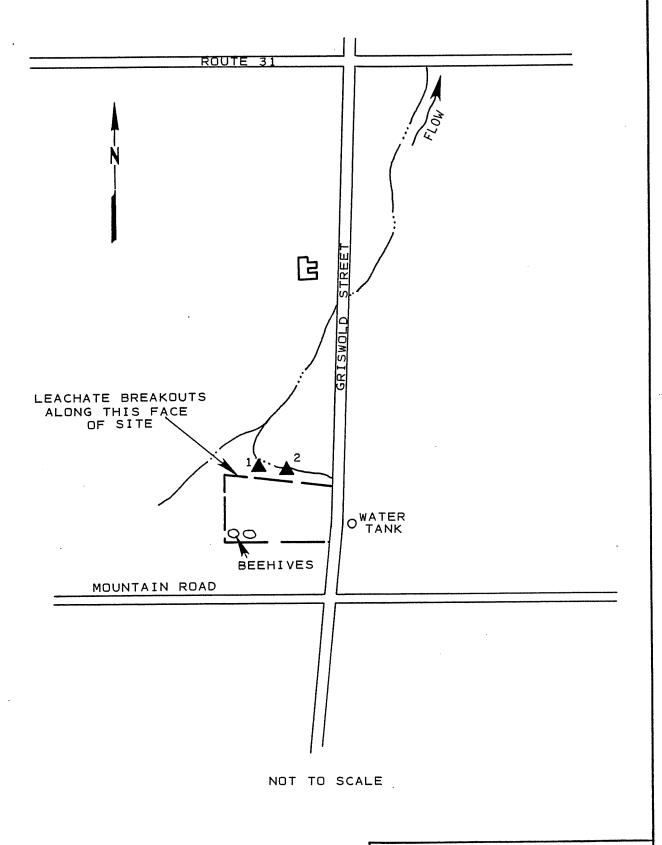
TABLE IV-1
SOIL AND SURFACE WATER ANALYSES AT THE TOWN OF ROYALTON LANDFILL

Parameter	Wat Site		(ug/liter) Site		Soil (ug/g dry ba Site 1	asis)
Antimony	< 20	00	<	200	< 5	
Arsenic	<	5	<	5	1.1	
Beryllium	< '	10	<	10	< 0.3	
Cadmium	<	4	<	4	0.29	
Chromium	:	20		4	7.5	
Copper		22	<	5	15	
Iron	130,0	00	1,	500	29,000	
Lead	<	30	<	30	9.5	
Mercury	<	1	<	1	< 0.06	
Nickel	<	30	. <	30	3.8	
Selenium	<	5	<	5	< 0.3	
Silver	< .	10	<	10	< 0.3	
Thallium	< 1	00	<	100	< 3	
Zinc	7	01		63	160	
Halogenated Organic Scar	n ^a 1	• 5	C	.75	0.58	
Total Organic Carbon	30,0	00	19,	000	AN	b

SOURCE: RECRA Research, 1982.

a Reported as Cl₂ (lindane standard).

b NA = not analyzed.



EXPLANATION:

▲ 1 SAMPLE POINT

#1 SOIL AND WATER

#2 WATER ONLY

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PLOT PLAN
TOWN OF ROYALTON

FIGURE IV-1

PRELIMINARY APPLICATION OF THE HAZARD RANKING SYSTEM

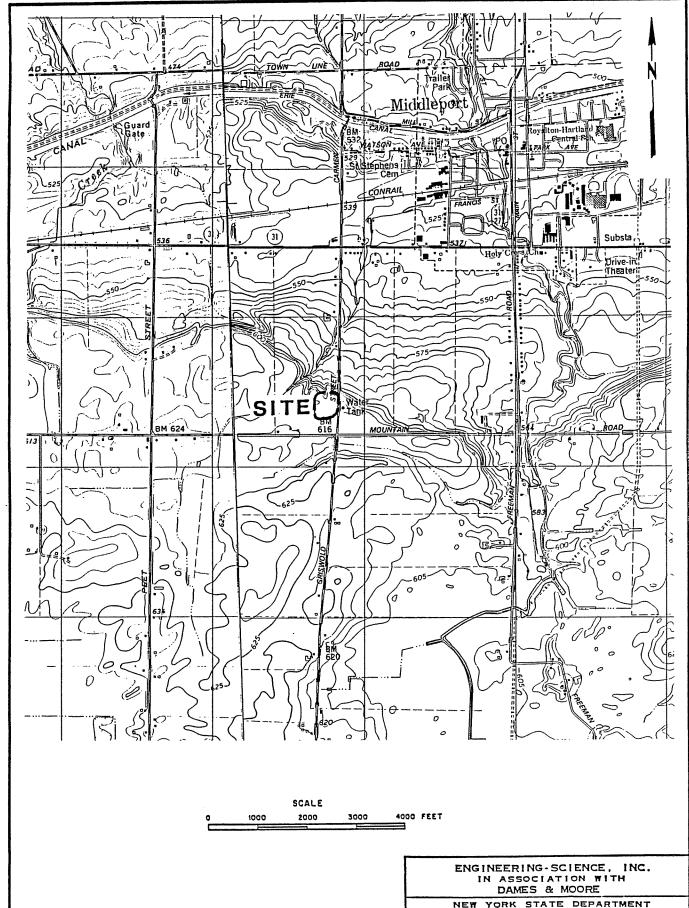
NARRATIVE SUMMARY

The 5-acre Town of Royalton landfill, owned by Douglas Ortman, is located in Royalton, Niagara County, New York. From 1958 to 1978, Mr. Ortman leased the property to the Royalton Highway Department for use as a municipal landfill. The site was formerly a rock quarry and is assumed to be unlined (NCHD, Site Profile Report).

It is estimated that approximately 97,000 cubic yards of municipal refuse, excluding intermediate fill and fill cover, were received at the site during its 20 years of operation. Leachate seeps from the north slope of the landfill have been a frequent problem entering a drainage ditch located north of the landfill. In March of 1982, water and soil samples from the ditch were collected by the NYSDEC at the point of leachate entry and a water sample was taken 150 feet upstream. Comparison of water quality parameters indicated significant increases in iron, zinc, and total organic carbon, and slight increases in other metals at the point of leachate entry. The soil sample taken at that point also showed slightly elevated levels of iron and zinc (NCHD, Site Profile Report).

The depth to bedrock in the vicinity of the site is approximately 20 to 30 feet below ground surface. The bedrock in this area forms aquifers of highly mineralized groundwater. There are private drinking water supply wells in use within 3 miles of the Town of Royalton Landfill site (Ontman, 1985). However, the bedrock aquifer, the aquifer of concern, is not the same aquifer that local residents and the Town of Middleport obtain their drinking water. Middleport is on the Niagara County Municipal Water Supply System (Hopkins, 1987).

In 1973, the NYSDEC and the Town of Royalton entered into a consent agreement requiring the improvement of landfill management practices (e.g., daily cover, security, proper drainage, etc.). No other legal action has been taken. The landfill is presently closed (NYSDEC, Order of Consent, 1973).



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE I REPORT

> SITE LOCATION MAP TOWN OF ROYALTON

> > FIGURE ii-1

REFERENCE: U.S.G.S. 7.5' Topographic Hap Hedina, NY (1980) and Gasport, NY (1979) Quadrangles Facility Name: Town of Royalton Landfill

Location: Griswold St., Royalton, NY

EPA Region: II

Person(s) in charge of the facility: Douglas Ortman, Owner

Name of Reviewer: S. J. Tiffany Date: 4/18/85

General Description of the facility:

Site was operated as a municipal landfill for 20 years. An estimated 97,000 cubic yards of refuse has been landfilled on-site. No hazardous wastes are known to have been disposed of in the municipal landfill. Leachate seeps have been a reocurring problem and heavy metals (i.e., iron, zinc) were detected in soil and water samples collected at the site. Significant concentrations of TOC were also found in the leachate sample collected.

Scores:
$$S_{M} = 6.19$$
 $(S_{qw} = 7.16$ $S_{sw} = 7.96$ $S_{a} = 0)$

$$S_{FE} = 0$$

$$S_{DC} = 0$$

Facility Name: Town of Royalton Landfil Date: 5/21/85

. Ground Water Route Work Sheet									
Rating Factor	Assigned Val (Circle One		Score	Max. Score	Ref. (Section)				
1 Observed Release	0 45	1	0	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 Depth to Aquifer of Concern Net Precipitation Permeability of the Unsaturated Zone Physical State	0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3		6 2 3	6 . 3 . 3	3.2				
Total Route	Characteristic	s Score	12	15					
3 Containment	0 1 2 ③	1	3	3	3.3				
Waste Characteristics Toxicity/Persistence Hazardous Waste Quantity	18	18	3.4						
Total Waste	Characteristic	s Score	19	26					
Targets Ground Water Use Distance to Nearest Well/Population Served	0 1 2 3 ① 4 6 8 12 16 18 20 24 30 32 35		6	9 40	3.5				
Total T	argets Score	·	6	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 7 Divide line 6 by 57,330 and multiply by 100 S _{gw} = 7.16									
- privide line o by 3/	יטעני, מווט אונייטעני,	F 1 31 .40	gw	,					

GROUND WATER ROUTE WORK SHEET

Facility Name: In of Royatton Landfill Date: 5/21/85

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	45	4.1				
If observed release is					·				
2 Route Characteristics		i			4.2				
Facility Slope and Intervening Terrain	0 1 2 3	1	2	3					
1-yr. 24-hr. Rainfal Distance to Nearest		1 2	26	3 6					
Surface Water Physical State	0 1 2 3	1	1	3					
Total Route	Characteristics Sco	ore	11	15					
3 Containment	0 1 2 3	1	3	3	4.3				
Waste Characteristics					4.4				
Toxicity/Persistence			18	18					
Hazardous Waste Quantity	0 1 2 3 4 5 6	781	1	8					
Total Waste	Characteristics Sc	ore	19	26					
5 Targets					4.5				
Surface Water Use Distance to a Sensi	0 1 2 3	` 3 2	4	9 6					
Environment Population Served/	(i) 4 6 8 10		0	40					
Distance to Water Intake Downstream	12 16 18 20 24 30 32 35 40)	-						
Total	Targets Score		6	55					
6 If line 1 is 45, m	5130	64,350							
7 Divide line 6 by 6	4,350 and multiply	by 100	S =	7.96					

SURFACE WATER ROUTE WORK SHEET

Facility Name: In of Royalton Landfill Date: 5/21/85

Air Route Work Sheet									
Rating Factor	Score	Max. Score	Ref. (Section)						
1 Observed Release	1	0	45	5.1					
Date and Location: $\mathcal{T}_{\mathcal{C}}$	OWN OF ROYALTO	ON LAN	DFILL	- 3/5	5/85				
Sampling Protocol:	HNU METER								
If line 1 is 0, the									
2 Waste Characteristics					5.2				
Reactivity and	0 1 2 3	1		3					
Incompatibility Toxicity Hazardous Waste	0 1 2 3 0 1 2 3 4 5 6 7 8	3		9 8					
Total Wast	e Characteristics Scor	·e		20					
3 Targets					5.3				
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30 0 1 2 3	1		30					
Environment	0 1 2 3	2		. 6 3					
Land Use	0 1 2 3			J	_				
Total Ta	rgets Score			39					
4 Multiply 1 x 2 x	35,100								
5 Divide line 4 by 35	Multiply 1 x 2 x 3								

AIR ROUTE WORK SHEET

Facility Name: Town of Royalfon Land HM Date: 5/21/85

Worksheet for Computing $S_{\mathbf{M}}$

	S	s ²
Groundwater Route Score (S _{gw})	7.16	51.27
Surface Water Route Score (S _{sw})	7. 96	63,52
Air Route Score (S _a)	0.00	0,00
$s_{gw}^2 + s_{sw}^2 + s_a^2$		114.79
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		10.71
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		6.19

WORK SHEET FOR COMPUTING SM

Fire and Explosion Work Sheet										
Rating Factor	Assigned Value (Circle One)						ulti- lier	Score	Max. Score	Ref. (Section)
Containment	1			3			1	O	3	7.1
2 Waste Characteristics										7.2
Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity	0		2		6 7	78	1 1 1 1 1 1		3 3 3 8	
Total Wast	e Ch	ara	cte	ris	tic	s Se	core		20	
3 Targets										7.3
Distance to Nearest	0	1	2	3	4	5	1		5	
Population Distance to Nearest	0	1	2	3			1		3	
Building Distance to Sensitive	0	1	2	3			1		. 3	
Environment Land Use Population Within	0	1	2	3	4	5	1 1		3 5	
2-Mile Radius Buildings Within 2-Mile Radius	0	1	2	3	4	5	1	·	5	
Total T	arge	ts :	Scor	re					24	
4 Multiply 1 x 2 x 3 1,440										
5 Divide line 4 by 1,4	40 a	nd i	mu l	tip	ly t	у 1	100	S _{FE}	= 6	

FIRE AND EXPLOSION WORK SHEET

Facility Name: In of Royalton Landfill Date: 5/21/85

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, pro	-								
2 Accessibility	0 1 2 3	1	3	3	8.2				
3 Containment	0 (15)	1	15		8.3				
Waste Characteristics Toxicity	0 1 2 3	5	0	15	8.4				
5 Targets					8.5				
Population Within 1-Mile Radius	0 1 2 3 4	5 4	8	20					
Distance to a Critical Habitat	0 1 2 3	4	٥	12					
	•								
Total Ta	argets Score		8	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	S _{DC} ^s	= 0					

DIRECT CONTACT WORK SHEET

 η^{a}

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

FACILITY	NAME:	Town	of	Royalton	Landfill		
	a	73 (~ ±	David I to	. NV		
LOCATION:	: Grisv	sora :	Sτ.,	, Royaltor	1, NI		

GROUNDWATER ROUTE

OBSERVED RELEASE

Contaminants detected (5 maximum):

Groundwater not analyzed for contamination (NYSDEC Registry Sheet, 12/83).

Rationale for attributing the contaminants to the facility:

Not applicable.

* * *

2. ROUTE CHARACTERISTICS

(Niagara County Health Department, Site Profile Report)

Depth to Aquifer of Concern

Name/description of aquifer(s) in concern:

Bedrock aquifer in either limestone or shale.

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

Unknown, possibly approximately 20 to 30 feet (ES and D&M Site visit, 3/25/85).

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

Unknown, possibly 20' (Site Visit, 1985, and estimated based on quarry history).

Net Precipitation

(U.S. Dept. of Commerce, National Climatic Center, Climatic Atlas of the United States, 1979).

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

Mean annual precipitation is 36".

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

Mean annual lake evaporation is 27".

Net precipitation (subtract the above figures):

$$9" (36" - 27" = 9").$$

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

None, waste is directly on top of bedrock.

Permeability associated with soil type

Waste material probably very permeable $(10^{-1} \text{ to } 10^{-3} \text{ cm/sec})$ (estimated based on Site Visit, 1985).

Physical State

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

Solid (municipal refuse) (NCHD Site Profile Report).

CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Unlined landfill, no run-on control (Niagara County Health Department, Site Profile Report).

Method with highest score:

Unlined landfill, no run-on control - 3.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Heavy metals (iron, zinc, chromium, and copper).

Compound with highest score:

Heavy metals (toxicity = 3; persistence = 3) - 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):

Approximately 10^6 cubic ft = 97,000 cubic yards (excluding 20% fill and intermediate and final cover) = 48,500 tons of municipal waste (it is not known what portion of wastes, if any, is hazardous). (Site Inspection conducted by ES and D&M, 3/25/85).

Basis of estimating and/or computing waste quantity:

Assume a square 5 acre site with a right triangle cross section, 30 feet in depth. Calculate using formula of (1/2) (base) (height) for cross section and multiply by the square root of 5 acres. Subtract 20% for fill (shape of landfill is based on site visit, 3/25/85). Also assume 1,000 lbs/cubic yards for in place disposal weight for municipal solid waste. (Estimates based on site dimensions and ES and D&M site inspection, 3/25/85). For purposes of rating the site, 1 to 10 cubic yards of hazardous wastes were assumed to be disposed on-site because contaminants have been detected.

5. TARGETS

Groundwater Use

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

There are private drinking water supply wells in use within 3 miles of the site (Ontman, 1985). However, the bedrock aquifer, the aquifer of concern, is not the same aquifer that local residences and the Town of Middleport use. Middleport is on the Niagara County Municipal Water Supply System (Hopkins, 1987).

Distance to Nearest Well

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

Not applicable. The wells within 3 miles of the site do not withdraw water from the bedrock aquifer (Hopkins, 1987).

Distance to above well or building:

Not applicable.

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:

No municipal wells within 3 miles, numerous private wells, however, these wells do not obtain water from the bedrock aquifer (NYS Atlas of Community Water System Sources, 1982 and Site Visit, 1985).

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.

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

None (Hopkins, 1987).

SURFACE WATER ROUTE

OBSERVED RELEASE

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

Iron, zinc, chromium, and copper detected in downstream sample (NCHD, Site Profile Report, samples collected by NYSDEC, 1982).

Rationale for attributing the contaminants to the facility:

Samples were collected in the ditch at the point of entry and at a point approximately 150 feet upstream from the point of entry (NYSDEC Site Profile Report).

2. ROUTE CHARACTERISTICS

(USGS Topographic Maps: Lockport and Medina Quadrangles)

Facility Slope and Intervening Terrain

Average slope of facility in percent:

3.8%.

Name/description of nearest downslope surface water:

Man-made drainage ditch which flows to an unnamed stream. The stream in turn flows to Jeddo Creek which flows through a culvert under the Barge Canal (Hopkins, 1987).

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

10%.

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

No.

Is the facility completely surrounded by areas of higher elevation?

1-Year 24-Hour Rainfall in Inches

2.1" (U.S. Department of Commerce Technical Paper No. 40).

Distance to Nearest Downslope Surface Water

0.08 mile to the drainage ditch which connects to an unnamed stream. This stream flows to Jeddo Creek (Hopkins, 1987).

Physical State of Waste

Solid (municipal refuse and possibly industrial waste).

Note: No records exist which indicate that industrial/hazardous wastes were disposed of in the Town of Royalton Landfill.

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Unlined landfill; diversion system and cover unsound (ES and D&M Site Inspection, 3/25/85).

Method with highest score:

Unlined landfill; diversion system and cover unsound.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Heavy metals (i.e., iron, zinc, chromium, and copper) (NCHD Site Profile Report).

Compound with highest score:

Heavy metals (toxicity = 3, persistence = 3) - 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):

Approximately 10^6 cubic ft = 97,000 cubic yards (excluding 20% fill, intermediate cover and final cover) = 48,500 tons of municipal waste (it is not known what portion of wastes, if any, are hazardous). (Estimated, based on site dimensions and ES and D&M site inspection, 3/25/85.) For purposes of rating the site, 1 to 10 cubic yards of hazardous waste were assumed to be disposed on-site because contaminants have been detected.

Basis of estimating and/or computing waste quantity:

Assume a square 5 acre site with a right triangle cross section, 30 feet in depth. Calculate using formula of (1/2) (base) (height) for cross section and multiply by the square root of 5 acres. Subtract 20% for fill. Assume 1,000 lbs/cubic yards for in place disposal weight for municipal solid waste. (Shape of landfill is based on site visit, 3/25/85.)

* * *

5. TARGETS

Surface Water Use

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

Recreation.

Is there tidal influence?

No.

Distance to a Sensitive Environment

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

None within 2 miles (western NYS not a coastal area).

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

None within 1 mile (NYS Wetlands Maps).

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

None within 1 mile (NYSDEC Region 9, Division of Fish & Wildlife Files).

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 specified distances (NYS Atlas of Community Water System Sources, 1982).

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

Not applicable.

Total population served:

Not applicable.

Name/description of nearest of above water bodies:

Not applicable.

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

Not applicable.

AIR ROUTE

1. OBSERVED RELEASE

Contaminants detected:

None.

Date and location of detection of contaminants:

ES and D&M site visit, 3/25/85.

Methods used to detect the contaminants:

HNu meter readings were taken and all readings were less than 1 ppm, indicating no air releases

Rationale for attributing the contaminants to the site:

Not applicable.

* * *

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

No reactive compounds are known to exist on-site.

Most incompatible pair of compounds:

No incompatible compounds are known to exist on-site.

Toxicity

Most toxic compound:

No known toxic compounds accessible to the air pathway are known to exist on-site.

Hazardous Waste Quantity

Total quantity of hazardous waste:

Unknown, no records are known to exist which indicate that hazardous wastes were disposed on-site.

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

5,478 people (Compiled from 1980 US Bureau of the Census Data).

Distance to a Sensitive Environment

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

None within 2 miles (western NYS not a coastal area).

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

None within 1 mile (NYS Wetlands Maps).

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

None within 1 mile (NYSDEC Region 9, Division of Fish & Wildlife Files).

Land Use

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

Approximately 1 mile.

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

More than 2 miles (USGS Topographic Map: Medina, NY Quadrangle).

Distance to residential area, if 2 miles or less:

Approximately 1 mile to Village of Middleport, NY (USGS Topographic Map: Medina, NY Quadrangle).

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

Approximately 100', adjacent to site (ES and D&M Site Inspection, 3/25/85).

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

Unknown.

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

No.

FIRE AND EXPLOSION

1. CONTAINMENT

Hazardous substances present:

No information was discovered during the Phase I study which indicates that a fire and explosion situation existed or presently exists at the site.

Type of containment, if applicable:

Not applicable, see above comment.

* * *

2. WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

No measurements to determine the fire and explosion potential were taken on-site.

Ignitability

Compound used:

No ignitable compounds are known to exist on-site.

Reactivity

Most reactive compound:

No reactive compounds are known to exist on-site.

Incompatibility

Most incompatible pair of compounds:

No incompatible compounds are known to exist on-site.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

No hazardous waste are known to be disposed on-site that create a potential fire and explosion situation.

Basis of estimating and/or computing waste quantity:

No applicable, see above comment

* * *

3. TARGETS

Distance to Nearest Population

Approximately 1 mile to the Village of Middleport, NY (USGS Topographic Map: Medina, NY Quadrangle).

Distance to Nearest Building

0.2 mile (ES and D&M Site Inspection, 3/25/85).

Distance to Sensitive Environment

Distance to wetlands:

None within 1 mile of the site (NYS Wetlands Maps).

Distance to critical habitat:

None within 1 mile (NYSDEC, Region 9, Department of Fish and Wildlife, 1985).

Land Use

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

Approximately 1 mile to the Village of Middleport, NY (USGS Topographic Map: Medina, NY Quadrangle).

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

More than 2 miles (USGS Topographic Map: Medina, NY Quadrangle).

Distance to residential area, if 2 miles or less:

Approximately 1 mile to the Village of Middleport, NY (ES and D&M Site Inspection, 3/25/85).

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

Approximately 100 feet, adjacent to site (ES and D&M Site Inspection, 3/25/85).

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

Unknown.

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

No.

Population with 2-Mile Radius

926 people (US Census Data, 1980).

Buildings Within 2-Mile Radius

244 buildings (USGS Topographic Map: Medina, NY Quadrangle).

DIRECT CONTACT

1. OBSERVED INCIDENT

Date, location, and pertinent details of incident:

There is no confirmed instance in which contact with hazardous substances at this site has caused injury, illness or death to humans or domestic or wild animals.

* * *

2. ACCESSIBILITY

Describe type of barrier(s):

Barriers do not completely surround the site (ES and D&M Site Inspection, 3/25/85).

* * *

CONTAINMENT

Type of containment, if applicable:

* * *

4. WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

There are no hazardous wastes known to be disposed on-site that pose a direct contact threat.

Compound with highest score:

Not applicable.

5. TARGETS

Population within one-mile radius

265 people (US Census Data, 1980).

Distance to critical habitat (of endangered species)

None within 1 mile (NYSDEC Region 9, Division of Fish and Wildlife, 1985).

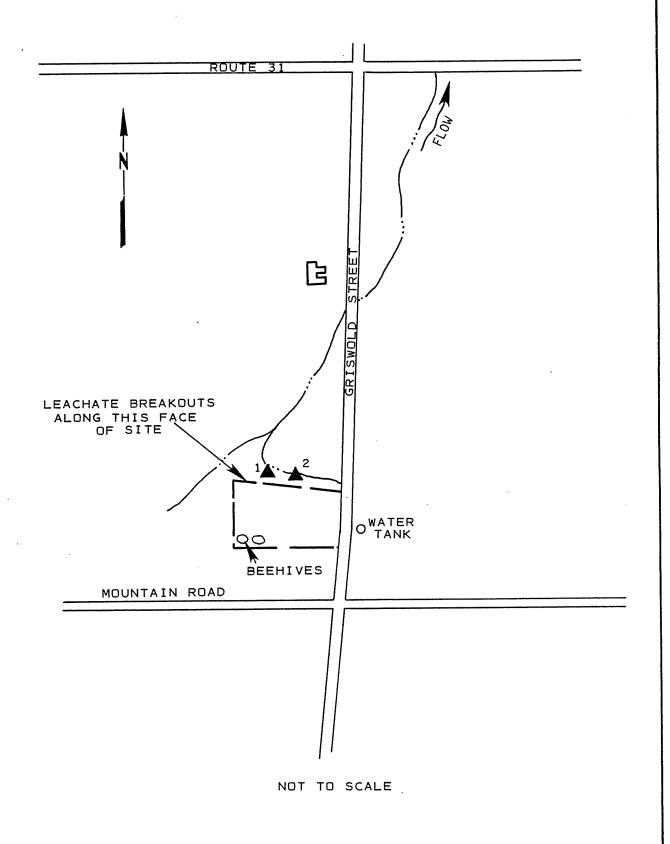
DAMES & MOORE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE I REPORT

> SITE LOCATION MAP TOWN OF ROYALTON

> > FIGURE iv-1

REFERENCE: U.S.G.S. 7.5' Topographic Hap Hedina, NY (1980) and Gasport, NY (1979) Quadrangles



EXPLANATION:

▲ 1 SAMPLE POINT

#1 SOIL AND WATER

#2 WATER ONLY

ENGINEERING-SCIENCE, INC. IN ASSOCIATION WITH DAMES & MOORE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE I REPORT

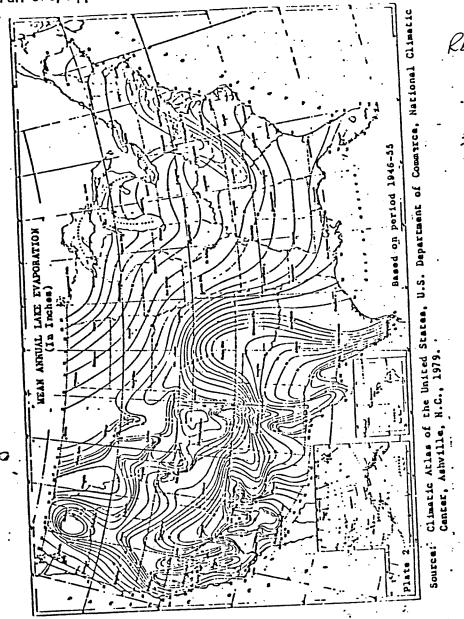
> PLOT PLAN TOWN OF ROYALTON

> > FIGURE iv-2

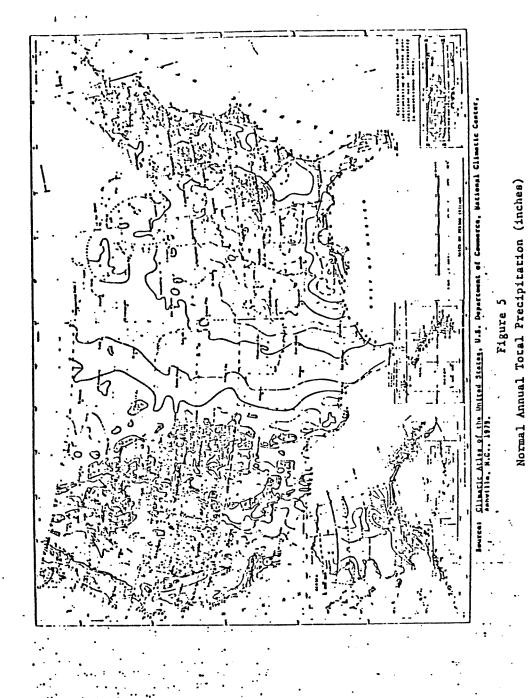
HRS REFERENCES

- Climatic Atlas of the United States, US Department of Commerce, National Climatic Center, 1979.
- 2. NYS Atlas of Community Water System Sources, NYS Department of Health, 1982.
- 3. NYS Museum and Science Service Bedrock Map, Map and Chart Series,
 No. 28 (compiled by Muller, Ernest, H.), 1977.
- 4. NYSDEC Wetlands Maps.
- 5. NYSDEC Registry Sheet, 12/83.
- 6. Sneider, Jim, and Wilinson, Mike, NYSDEC Division of Fish and Wildlife Files, 1/10/85 through 1/11/85.
- 7. US Census Data, 1980.
- 8. US Department of Commerce Technical Paper No. 40. "Rainfall Frequency Atlas of the United States". 1963.
- 9. USGS Topographic Maps: Lockport and Medina Quadrangles.

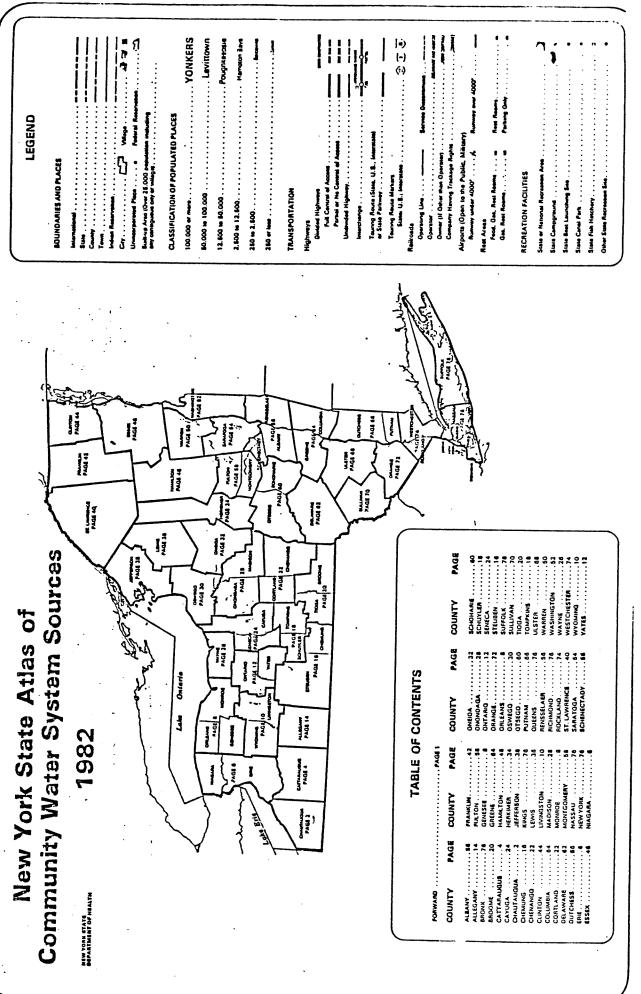
Mean Annual Lake Evaporation (In Inches



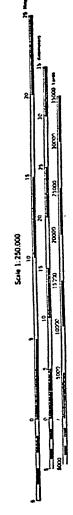
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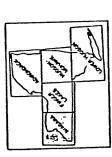
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QUATERNARY GEOLOGY OF NEW YORK, NIAGARA SHEET by Ernest H. Muller



Muller, Ernest H. (1977) New York Stole Museum and Science Service Map and Charl Series Number 28



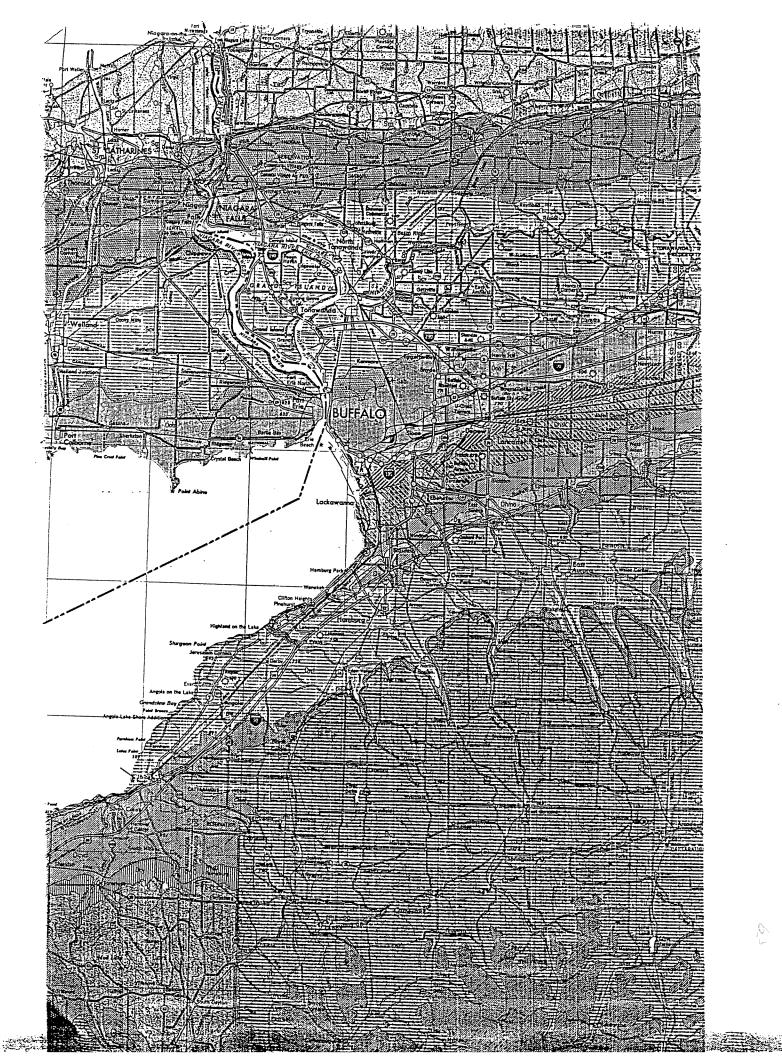
MAP DATA SOURCES

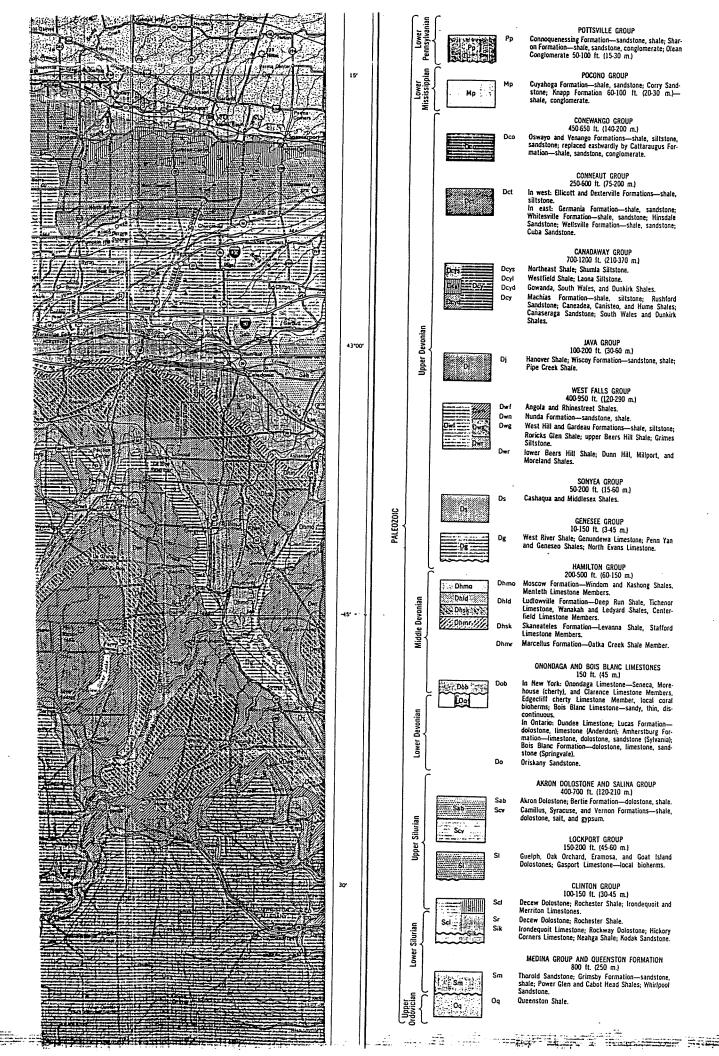
- 1. Bartolomucci, Henry A., 1968, A sedimentological study of the Niagara Falls Moraine. S.U.N.Y. Buffalo, M.A. thesis, 76p.
- Blackmon, Paul, 1956, Glacial geology of the East Aurora, New York Quadrangle. Univ. of Buffalo, M.S. thesis.
- 3. Bryant, Jay C., 1955, A refinement of the upland glacial drift border in southern Cattaraugus County, N.Y. Cornell Univ. M.S. thesis, 127p.
- 4. Calkin, Parker, 1970, Strandlines and chronology of the Glacial Great Lakes in northwestern New Yorks Ohio Jour. Scl. 70:78-96.
- Chapman, L.F. and D.F. Putnam, 1966, The physiography of southern Ontario. Univ. of Toronto Press, 386p.
- D'Agostino, John, 1957, Glacial Laka Tonawanda history and development. Unpub. M.S. thasis, S.U.N.Y. Buffaio. 7. Denny, Charles S., 1956, Surficial geology and geomorphology of Potter County, Pennsyl-
- B. Feenstra, B.H., 1972, Quaternary geology of the Niagara area, southern Ontario; Ontario Div. Mines, Prelim. Map P.764, 1:50.000.

vania. U.S.G.S. Prof. Paper 288, 72p.

- Feenstra, B.H., 1972, Quaternary geology of the Welland area, southern Ontario; Ontario Div. Mines, Prelim. Map P.796, 1.50,000.

- 10. Karrow, P.F., 1963, Plaistocane geology of the Hamilton-Galt area, Ontario; Ontario Div. Mines, Geol. Rep. 16, 68p. and Map 2033.
- Kindle, E.M. and F.B. Taylor, 1913, Description of the Niegera quadrangle. U.S.G.S. Geol. Atlas Folio 190, 25p.
- 12. Leverett, Frank, 1902, Glacial formations and drainage features of the Erie and Ohio Basins. U.S.G.S. Monograph 41, 802p.
- 13. Muller, E.H., 1963, Geology of Chautauque County, N.Y. Part II: Pleistocene Geology. N.Y.S.M. Bull. 392, 60p.
- 14. Muller, E.H., Unpub. field mapping. New York State Museum
- 15. Shapps, V.C., G.W. White, J.B. Droste and R.F. Sitler, 1959, Glacial geology of northwestern Pennsylvania. Penna. Geol. Survey Bull. G-32, 4th ser.
- Sweeney, J.F., 1969, Glacial geology of the Springville, New York and northern part of the Ashford Hollow, New York quadrangles. S.U.N.Y. Buffalo, M.S. thesis, 51p. 16.
- 17. Symecko, R.E., 1967, Glacial geology of the Orchard Park, New York, quadrangle. S.U.N.Y. Buffalo, M.A. thesis, 64p.
- 18. Wilson, Michael, 1973, Gravity studies in the vicinity of Walnut Creek, southwestern New York, Unpub. M.S. thesis, S.U.N.Y. College at Fredonia.





NYS WETLANDS MAPS

NYS Wetlands Maps were reviewed during the Phase I investigation. Individual maps for each site were not obtained and are, therefore, not included in the Phase I reports. Site specific information collected concerning the location of a wetland within 1 mile of a given site is recorded in the documentation section of each report.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID AND HAZARDOUS WASTE

INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

PRIORITY CODE: 2a	SITE CODE: 932	2092
NAME OF SITE: Town of Royalton		REGION: 9
STREET ADDRESS: Griswald Road, 1/2 Mi	. S. of Rochester Rd.	
TOWN/CITY: Royal ton	COUNTY: Niagara	
NAME OF CURRENT OWNER OF SITE: Town of	Royalton	* 1.17 MV
ADDRESS OF CURRENT OWNER OF SITE: 5316	Royalton Ctr. Rd., M	idaleport, NI
TYPE OF SITE: OPEN DUMP LANDFILL X	STRUCTURE TREATMENT POR	LAGOON
ESTIMATED SIZE: 8 ACRES		
SITE DESCRIPTION:		
This site was used for the disposal The site closed in 1979, but has exp dumping and leachate following closu Soil and water samples were collecte sample showed elevated concentration concentration of iron was elevated in observed leaving the site during the	erienced problems with re. d from the site in 198 s of iron and zinc. I n the water samples.	i mianight 32. The soil The
	- '	
·		
	•	~
·	and the sugar	rozen Lud
HAZARDOUS WASTE DISPOSED: CONFIRM		ECTED X
TYPE AND QUANTITY OF HAZARDOUS WASTE		NTITY (POUNDS, DRUMS, TONS, GALLONS)
None known		

TIME PERIOD SITE WAS USED FOR HAZARDOUS	WASTE DISPOSAL:
Unknown , 19	TO, 19 <u>73</u>
OWNER(S) DURING PERIOD OF USE: Town of	
SITE OPERATOR DURING PERIOD OF USE: Sam	ne
ADDRESS OF SITE OPERATOR: Same as above	
ANALYTICAL DATA AVAILABLE: AIR S	
CONTRAVENTION OF STANDARDS: GROUNDWA SURFACE	TER DRINKING WATER
SOIL TYPE: Silt loam	
DEPTH TO GROUNDWATER TABLE: Unknown	
STATUS: IN PROGRESS REMEDIAL ACTION: PROPOSED	STATE FEDERAL UNDER DESIGN
IN PROGRESS	COMPLETED
NATURE OF ACTION: None	
ASSESSMENT OF ENVIRONMENTAL PROBLEMS:	•
Leachate appears to be characterist sites. Extent of problem is unknow water and may be impacting groundwa	n, but leachate is reaching surface
ASSESSMENT OF HEALTH PROBLEMS:	
·	
	INITETITIENT ON FRANKTIEM
•	ININETITIENT PULLAMATICA
PERSON(S) COMPLETING THIS FORM:	INITETTITENT INFORMATION
PERSON(S) COMPLETING THIS FORM: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION	NEW YORK STATE DEPARTMENT OF HEALTH
_	
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION	NEW YORK STATE DEPARTMENT OF HEALTH
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NAME Peter Buechi	NEW YORK STATE DEPARTMENT OF HEALTH NAME R. Tramontano
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NAME Peter Buechi TITLE Assoc. Sanitary Engr.	NEW YORK STATE DEPARTMENT OF HEALTH NAME R. Tramontano TITLE Bur. Tox. Subst. Assess.

PAGE

INTERVIEW FORM

INTERVIEWEE/CODE fin Dreider Mike Wilkenson!
TITLE - POSITION NVSDEC Div of Fish wildlife
INTERVIEWEE/CODE Jun Sneider Mike Wilkenson! TITLE - POSITION NVSDEC, Div of Fisk'r Wildlife ADDRESS Delaware Ave
CITY Ruffals STATE NU ZIP
PHONE () RESIDENCE PERIOD TO
CITY Autolals STATE MY ZIP PHONE () RESIDENCE PERIOD TO LOCATION IN DEC office INTERVIEWER Elecu Millipan DATE/TIME 1/10/257 1/4/951
DATE/TIME 1/10/857 1/11/851
DATE/TIME 1/10/857 1/11/851 SUBJECT: Phase T. Seite infarmation
REMARKS: The above-hamed intervieween promided
REMARKS: The above-hamed intervieween provided un with the following information repositing our Phase T site. (see attached lint)
our Phase T site (yee attached list)
1) We Hande in Niagara, Co. & proximity for sites
2) Tupes of light weldlife in Frie Minocha area
2) Use by objek + wildlife of Magina Buser
2) Types of light wildlife in Frie Miapara area 3) like by thick wildlife, of Miapara Piver 4 tributaries
4) Sensitive enveraments & proposed
wetlands in the Ene Niapara, area
Town of Royalton Landfrit - There is not critical
habitat of an endangered species within
ore mile of the landfill site.
on the state pana fin sie.
I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:
SIGNATURE: Quin R D. I. A QUIN DIN R. I.
Michael a galilina - Consensation Relación (1. Cilis)
COMMENTS: 90 division of well of the filling and the
ani P 11.00 f
- ind rantifict no - referred to () los (iffice
V

US CENSUS DATA, 1980

US Census Data used in the HRS scoring was obtained from various County Planning Offices. This data was not obtained from a report. The raw census data combined with County Planning Maps was used to estimate the population within 1, 2, 3, and 4 miles of the Phase I site being investigated. Because of the voluminous amount of data used, the data is not provided in this Appendix.

68**6**

V.

\$EPA

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

I. IDENTIFICATION		
OI STATE	DOOCT1443	

PART 1 - S	SITE INFORMATION AND ASSESSMENT			
II. SITE NAME AND LOCATION				
O1 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER			
Town of Royalton Landf	(1) Criswold Rd, 12mis of Rounstred			
Royalton ,	04 STATE 05 ZIP CODE 08 COUNTY 07 COUNTY 08 CONG CODE DIST.			
09 COORDINATES LATITUDE LONGS A3 11 30. 073 34				
10 DIRECTIONS TO SITE ISLANDING FROM RECORD DUCKE FORM IN THE	rsection of Grismold & Rochester Rob, Hiddley of cens rd.			
IIL RESPONSIBLE PARTIES				
Douglas Ortman	4240 Grigwold Rd			
osar o Middle cont	04 STATE 05 ZIP CODE 08 TELEPHONE NUMBER			
19100001011	OB STREET (Business, making, residences)			
To the state of th	5316 Royalton Center Rd			
Town of Royalton Highway Dept	10 STATE 11 ZP CODE 12 TELEPHONE NUMBER			
Middleport	NY 14105 17161772-7926			
13 TYPE OF OWNERSHIP (Check one)	☐ C. STATE ☐ D.COUNTY ☐ E. MUNICIPAL			
SIA. PRIVATE (1 B. FEDERAL:	(Agency name)			
☐ F. OTHER:(Soccity)	C G. UNKNOWN			
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check at their apply)	AC NONE			
A. RCRA 3001 DATE RECEIVED: MONTH DAY YEAR	B. UNCONTROLLED WASTE SITE (CERCIA 103 C) DATE RECEIVED: / / MONTH DAY YEAR C. NONE			
IV. CHARACTERIZATION OF POTENTIAL HAZARD				
DATE 3 3 , 82 GEN	OCAL HEALTH OFFICIAL			
□ NO MONTH DAY YEAR □ E. LOCAL HEALTH OFFICIAL □ F. OTHER: (Specify)				
102 SITE STATUS (Check one)	LOS VEADS OF OPERATION			
☐ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN	1958 1978 UNKNOWN BEGINNING YEAR ENDING YEAR			
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN,				
Municipal wastes				
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/	OR POPULATION			
1 eachate breakouts ent	er dozinege detch on north side of lought. hich enter the Bange Consl at Middleport			
Ditch enters stream w	hich enter the Barge Const at Middle 1817			
V. PRIORITY ASSESSMENT				
☐ A. HIGH ☐ B. MEDIUM	C. LOW D. NONE No further action needed, complete current disposition form)			
(Intercent Internet promptiny) (Intercent Internet Intern				
VI. INFORMATION AVAILABLE FROM	02 OF (Agency: Organization) 03 TELEPHONE NUMBER			
S. ROSONT STEELE, II	Engineering - Science (ES 17031571-7575			
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY 06 ORGANIZATION 07 TELEPHONE NUMBER 08 DATE			
(SAME)	MONTH DAY YEAR			

ŞEPA

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

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER

NY | 0000514430

			PART 2 - WAST	E INFORMATION		717 10000	
IL WASTE ST	ATES, QUANTITIES, AN	D CHARACTERIS	STICS				
	ATES (Check all that apply)	02 WASTE QUANTI	TY AT SITE	03 WASTE CHARACTE	RISTICS (Check of that ap	pły)	
A. SOLID E. SLURRY must be indep B. POWDER, FINES F. LIQUID TONS C. SLUDGE G. GAS CUBIC YARDS TONS CUBIC YARDS TONS CUBIC YARDS TONS TONS CUBIC YARDS TONS TONS TONS CUBIC YARDS TONS TONS			C. RADIOA	□ A. TOXIC □ E. SOLUBLE □ I. HIGHLY VOLATED □ B. CORROSIVE □ F. INFECTIOUS □ J. EXPLOSIVE □ C. RADIOACTIVE □ G. FLAMMABLE □ K. REACTIVE □ L. INCOMPATIBI		VE /E ATIBLE	
III. WASTE T	YPE						
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE				The Land	Fill was use	ed to
OLW	OILY WASTE				disease (of minusal	wase.
SOL	SOLVENTS				An estima	its of \$50	97,000
PSD	PESTICIDES				cour ua	and of so	lid waste
occ	OTHER ORGANIC CH	HEMICALS			were sus		the site
IOC	INORGANIC CHEMIC	ALS					
ACD	ACIDS						
BAS	BASES						
MES	HEAVY METALS						
IV. HAZARD	OUS SUBSTANCES (See A)	opendix for most frequent	ly cited CAS Numbers)				
01 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	The quant	thes and	type or	hazara	los upst	is 1+ 9my	,
	distosed	in the	landhill	15 cake	roun. To	be Landful	/
	uas used	to des	rose of	monupe	e ugste		
		•					
				<u> </u>			
				<u> </u>			
							ļ
V. FEEDSTO	OCKS (See Appendix for CAS Numi	>ere)					
CATEGORY	01 FEEDSTOO	CK NAME	02 CAS NUMBER	CATEGORY	01 FEEDST	OCK NAME	02 CAS NUMBER
FDS				FDS			
FDS				FDS			
FDS				FDS			
FDS				FDS			
VI. SOURCE	S OF INFORMATION (CA	s specific references, e.g	., state files, sample analysis	, reports)			
uask	NCHO and MYSDEC SIG PROFILE Reports						
NO	NCHO and MYSDEC SIG PROFILE REPORTS						

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

,	I. IDENTIFICATION			
	O1 STATE	3 SITE NUMBER 4430		

PART 3 - DESCRIPTION OF HA	ZARDOUS CONDITIONS AND INCIDEN	TS. (70)	
II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 A. GROUNDWATER CONTAMINATION	02 ① OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	D COTENTIAL	☐ ALLEGED
unknown			
01 D B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	☐ ALLEGE D
Due to leachak me	gration		
01 D C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	□ ALLEGED
. No		•	
01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	☐ ALLEGED
100			. •
01 D E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	C) ALLEGED
01 JSF. CONTAMINATION OF SOR. 03 AREA POTENTIALLY AFFECTED: Du to leacing the	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL .	alleged
water			
01 A G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: Due to unlike low (02 D OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	ALLEGED
ine 10 when the contract	sitially ove copo		<u> </u>
01 D H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	□ ALLEGE D
Vo	ge = -	,	
01 DI. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	□ ALLEGED
Unknown		,	

POTENTIAL HAZARDOUS WASTE SITE

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

I. IDENTIFICATION				
O1 STATE	DUXX514430			

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
01 DAL DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	POTENTIAL	☐ ALLÈĠED
unknous			
01 K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02 OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
01 Z L CONTAMINATION OF FOOD CHAIN 04/NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
unknown	-	•	
01 M. UNSTABLE CONTAINMENT OF WASTES	02	□ POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
01 ☐ N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
100			
01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTP 04 NARRATIVE DESCRIPTION	S 02 OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION 100	02	□ POTENTIAL	□ ALLEGED
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLI	EGED HAZARDS		
Ne			
III. TOTAL POPULATION POTENTIALLY AFFECTED:	war sam		
IV. COMMENTS			
•			
V. SOURCES OF INFORMATION (Cite specific references, e. g., state lifes			
Sut 1,5 0 1985	_	-	4
		•	

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

1. IDENTIFICATION

01 STATE 02 SITE NUMBER

1. IDENTIFICATION

PART 1 - SIT	E LOCATION AN	D INSPECTION INFORM	IATION Y	11000514430
IL SITE NAME AND LOCATION		Los others poure vo. co.c.	BECIEC I OCATION INSUTEISE	
Town of Royalton	landfill	Griswold Rd	PECIFIC LOCATION IDENTIFIER 1. 1/2 mi, SOF	Rochester Rd
Royalton		04 STATE 05 ZIP CODE	Wiagara	07COUNTY 08 CONG CODE DIST 063 34
43 LATTUDE 079 SE 42.	10 TYPE OF OWNERS (I) A. PRIVATE (I) F. OTHER	HIP (Check one)	C. STATE C. D. COUNTY	
IIL INSPECTION INFORMATION				
01 DATE OF INSPECTION 3,25,85 MONTH DAY YEAR 02 SITE STATUS 1 ACTIVE 1 INACTIVE	1	1958 1978 BINNING YEAR ENDING YEA	UNKNOWN	
04 AGENCY PERFORMING INSPECTION (Cheek at the admit) □ A. EPA □ B. EPA CONTRACTOR Engineer □ E. STATE EF. STATE CONTRACTOR Dames		_ C, MUNICIPAL D. N	MUNICIPAL CONTRACTOR	(Name of firm)
OS CHIEF INSPECTOR	(Name of firm)		(Specify) 07 ORGANIZATION	08 TELEPHONE NO.
5 Rainant Stanle TI		nental Scientist		1 - 3 4
OS OTHER INSPECTORS	10 TILE	CONTO JOIG MING	11 ORGANIZATION	12 TELEPHONE NO.
5 ROBERT Stoole, II OS OTHER INSPECTORS Eileen Gilligen	Geolog	ist	Domos Moore	(615) 638-2572
J				()
				()
-				()
				()
13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15ADDRESS	12 d St	16 TELEPHONE NO
Douglas Ortman	owner	15ADDRESS 4240 Grish Middle ou	14 144	(716)735-7414
7				()
				()
				()
				()
				()
17 ACCESS GAINED BY 18 TIME OF INSPECTION (Cheptons) IP PERMISSION / 5 Am	19 WEATHER CO	nomons Undy, Colo	d, clean	•
IV. INFORMATION AVAILABLE FROM	•	,	•	
S. Robert STEELE II	02 OF (Agency/Org	meering -5	cure (ES)	(703) 59275)5
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM SAME	05 AGENCY	06 ORGANIZATION SAME	07 TELEPHONE NO.	08 DATE 3 126 185
EPA FORM 2070-13 (7-81)		3,		MONTH DAY YEAR

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

l.	IDENT	IFICATION
01	STATE	02 SITE NUMBER (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

ACL	A		PART 2 - WAST	E INFORMATION		707 600	9 /110
L WASTE ST	ATES, QUANTITIES, AN	ID CHARACTERI	STICS				
O1 PHYSICAL ST A. SOLID B. POWDEF C. SLUDGE	ATES (Checkel that sopry) G. E. SLUPRY R. FINES G. F. LIQUID	02 WASTE QUANTI		OS WASTE CHARACTE A. TOXIC B. CORROS C. RADIOM D. PERSIST	CTIVE 🗆 G. FLAMMA	E I. HIGHLY V OUS IJ. EXPLOSI ABLE IK. REACTIV	VE VE ATIBLE
IIL WASTE T	VDE	100,01 310110		1		t	
CATEGORY	SUBSTANCE N	IAME	01 GROSS AMOUNT	02 UNIT OF MEASURE			
SLU	SLUDGE					t been esu	
OLW	OILY WASTE				olmunicip	A. sterry 15	n estimated
SOL	SOLVENTS				97,000	cubic yas	
PSD	PESTICIDES				weste wer	e durinsted	at the
occ	OTHER ORGANIC C	HEMICALS			site	,	
IOC	INORGANIC CHEMIC	CALS				•	
ACD	ACIDS						
BAS	BASES						
MES	HEAVY METALS						
IV. HAZARD	OUS SUBSTANCES (See A	lopendix for most frequen	lly caled CAS Mumbers)				OR MEASURE OF
01 CATEGORY	02 SUBSTANCE		03 CAS NUMBER	04 STORAGE/DIS		05 CONCENTRATION	08 MEASURE OF CONCENTRATION
	Thequantit				tes, it any,		the .
	1 Internot	unkn	oun. The	12ndfll v	uzs used	to dia ws	2
	1) munici	och wesh	·				
		1	ļ				
	·						
		`					
						7	
V. FEEDST	OCKS (See Appendix for CAS Man	roers)			·		
CATEGORY	y 01 FEEDSTO	OCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTO	OCK NAME	02 CAS NUMBER
FOS				FDS			
FOS				FDS			
FDS				FDS			
FDS	·			FDS			
	ES OF INFORMATION (C					1	
1	WIEW OF M			Es end	08m 51	t. Inspecti	~

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

I. IDEN	TIFICATION
 01 STATE	3 SITE NUMBER 4430

TAIL O-DESCRIPTION OF THE	TENTIOUS STITLINGTON MISSING		
II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 S-A GROUNDWATER CONTAMINATION 06 POPULATION POTENTIALLY AFFECTED: /	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	DEOTENTIAL	□ ALLEGED
unhnown			
01 OF B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	E POTENTIAL	☐ ALLEGED
Due to leachate me	gretion	·	
01 C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	☐ ALLEGED
No			
01 □ D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	ALLEGED
100			
01 □ E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 □ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	□ ALLEGED
No			
01 DE. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: (Acres)	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	☐ ALLEGED
Du o leacate	larup site		who
<u> </u>	20 E 20250 E 2025		
01 XI G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 ☐ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	ALLEGED
Due to unlined lond	Itiling on topo	1 bedroc	k
01 ☐ H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	□ ALLEGED
Vo			
01 🗆 I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	□ ALLEGED
Unknown			•

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

	I. IDENT	IFICATION
-		02 SITE NUMBER DUY)5/4430

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS:			
II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
01 ALDAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	POTENTIAL	□ ALLÈGED
unhusur	<u>し</u> .		
01 DK. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name) of species) WM MOUNT	02 - OBSERVED (DATE:)	▼ POTENTIAL	□ ALLEGED
01 & L CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION WM KMOW	02 OBSERVED (DATE:)	POTENTIAL	ALLEGED
01 M. UNSTABLE CONTAINMENT OF WASTES (Spitts/Runoff/Standing Squids, Leaking drums) 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	□ ALLEGED
01 □ N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
No			
01 0. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
01 D. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLE	GED HAZARDS		
III. TOTAL POPULATION POTENTIALLY AFFECTED:	inknown.		
V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)			
Sut 1180 1585	_		4
<i>)</i>			

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION

	IFICATION
01 STATE	02 SITE NUMBER 100 05 144 30
1 1 1 4 1	100005144 50

1/1	PART 4 - PERMIT	T AND DES	SCRIP	TIVE INFORMATI	ON L	/0 / 0.000
II. PERMIT INFORMATION						
01 TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE IS	SUED	04 EXPIRATION DATE	05 COMMENTS	
(Check all that apply)						
A. NPDES						
☐ B. UIC						
☐ C. AIR		_				
☐ D. RCRA						
☐ E. RCRA INTERIM STATUS						
☐ F. SPCC PLAN						
☐ G. STATE (Specify)						
☐ H. LOCAL _(Soecity)						
☐ I. OTHER (Specify)						
☐ J. NONE						
III. SITE DESCRIPTION						
01 STORAGE/DISPOSAL (Check all that apply) 03	AMOUNT 03 UNIT C	FMEASURE	04 TF	REATMENT (Check all that a	opty)	05 OTHER
☐ A. SURFACE IMPOUNDMENT			□ A.	INCENERATION		5 . a a
☐ B. PILES			□ B.	UNDERGROUND INJ	CTION	☐ A. BUILDINGS ON SITE
C. DRUMS, ABOVE GROUND			□ c.	CHEMICAL/PHYSICA	L	
D. TANK, ABOVE GROUND				BIOLOGICAL	_	OR ADEA OF SITE
☐ E. TANK, BELOW GROUND				WASTE OIL PROCES		06 AREA OF SITE
☐ F. LANDFILL ☑ G. LANDFARM	97,000 0	icy		SOLVENT RECOVER' OTHER RECYCLING		
☐ H. OPEN DUMP				OTHER		
I. OTHER				(Spe	cify)	
			L			
OT COMMENTS AN estimated 97, IN the Town or	000 cy 08	mone	upa	I solid a	Aste we	re disposed of
HN ESTIMATE 7	,					-6 -
IN the Town or	Royalton Can	d T4	du	ny its 2	o years	or operation.
	e chall in or	IZI ha	سو	Seen rego	atedly a	esposed of on-site
No hazardous / now street wastes have seen reportedly disposed of on-site						
IV. CONTAINMENT						
01 CONTAINMENT OF WASTES (Check one)						
□ A. ADEQUATE, SECURE □ B. MODERATE 反 C. INADEQUATE, POOR □ D. INSECURE, UNSOUND, DANGEROUS						
02 DESCRIPTION OF DRUMS, DIKING, LINERS, BA	ARIERS, ETC.				<u> </u>	. ;
Site was not con	+ 1 2 1		'	turns land	Itilias Ce	sulhag I settlement
areas on-site. Le	areas on-site. Leachetto outbreaks frequently occur at the west					
Side of the site						
V. ACCESSIBILITY						
01 WASTE EASILY ACCESSIBLE: □ YES 体NO 02 COMMENTS						
Site has soil	can one	l es	tes	lish vega	tative a	over system
Site has soil cap and establish vegatative comen system						
VI. SOURCES OF INFORMATION (Cite specific references, e.g. state lifes, sample analysis, reports)						
NCHO Site Profile Report						
Site inspection by ES & and Oam, 3/25/85						

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

I. IDENTIFICATION				
O1 STATE	DW05 14430			

ACLY	PART 5 - WATER	, DEMOGRAPHIC	C, AND ENVIRO	NMENTAL DATA	11110000311100
II. DRINKING WATER SUPPLY					
01 TYPE OF DRINKING SUPPLY		02 STATUS			03 DISTANCE TO SITE
(Check as applicable) SURFACE	WELL	ENDANGERE	D AFFECTED	MONITORED	
COMMUNITY A.	8. 🗆	A. 🗆	8. 🗆	C. 🗆	A(mi) B. O. Q(mi)
NON-COMMUNITY C. [D. X	D. 🗆	E. CI	F. O	B. <u>0, 2</u> (mi)
III. GROUNDWATER					
01 GROUNDWATER USE IN VICINITY (Check	one)				
☐ A. ONLY SOURCE FOR DRINKING	B. DRINKING (Other sources evided COMMERCIAL, IN (No other water source)	IDUSTRIAL, IRRIGATIO	(Limited other	CIAL, INDUSTRIAL, IRRIGA w sources evelable)	TION D. NOT USED, UNUSEABLE
02 POPULATION SERVED BY GROUND WA	TER <u>~1000</u>	2 people	03 DISTANCE TO NE	EAREST DRINKING WATER	
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GRO	OUNDWATER FLOW	06 DEPTH TO AQUIF OF CONCERN	OF AQUIFER	
~ 20' (m)	Nort	L	20'	(4) murrom	—(gpd) / M EXOWN
09 DESCRIPTION OF WELLS (Including usees	e, depth, and location relative to	population and buildings)	,,		
Musica do	puin	te u	12/15 2	n area	
10 RECHARGE AREA			11 DISCHARGE ARE		
YES COMMENTS	nhno			MENTS ILLA LA	rour
O'NO /		ひ	ОИО	JUNIO,	10070
IV. SURFACE WATER			-		
01 SURFACE WATER USE (Check one)					
A. RESERVOIR, RECREATION DRINKING WATER SOURCE	B. IRRIGATIO	ON, ECONOMICALL' INT RESOURCES	Y 🔲 Ç. COMM	ERCIAL, INDUSTRIAL	D. NOT CURRENTLY USED
02 AFFECTED/POTENTIALLY AFFECTED	BODIES OF WATER				
NAME:				AFFECTE	D DISTANCE TO SITE
				In I we	(mi)
	le in so	nd h	me le à	ron scolo	
	<u>~ ~ yo</u>		/		(mi)
V 071100710110 1110 1110 1110	TV INCODMATION				
V. DEMOGRAPHIC AND PROPER 01 TOTAL POPULATION WITHIN	I I INFURMATION			02 DISTANCE TO NEA	REST POPULATION
1	DMO (2) MII EC OE CITT	TUDEE	(3) MII ES OE SITE		
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	C	(3) MILES OF SITE 2942	<u></u>	<u> </u>
NO. OF PERSONS	NO. OF PERSONS		NO. OF PERSONS		
03 NUMBER OF BUILDINGS WITHIN TWO			04 DISTANCE TO N	NEAREST OFF-SITE BUILDI	
	44				7. 2 (mi)
05 POPULATION WITHIN VICINITY OF SIT	E (Provide nerrative description	of nature of population with	in vicinity of site, e.g., rural,	, village, densely populated urba	n area)
Space / Site is l Nural pri	rural	popular of	Hen- heddly	port C	Le NE of Small
Nural pri	elape)	•	•		•

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

 I. IDENTIFICATION
NY DOOS14430

PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA VL ENVIRONMENTAL INFORMATION 01 PERMEABILITY OF UNSATURATED ZONE (Check one) ☐ A. 10⁻⁴ - 10⁻³ cm/sec ☐ B. 10⁻⁴ - 10⁻⁴ cm/sec ☐ C. 10⁻⁴ - 10⁻³ cm/sec ☐ D. GREATER THAN 10⁻³ cm/sec 02 PERMEABILITY OF BEDROCK (Check cons) B. RELATIVELY IMPERMEABLE C. RELATIVELY PERMEABLE D. VERY PERMEABLE (10-4 - 10-4 cm/sec) (Greeter than 10-2 cm/sec) A. IMPERMEABLE 04 DEPTH OF CONTAMINATED SOIL ZONE 05 SOIL pH 03 DEPTH TO BEDROCK unknows 120 64 unknown m 07 ONE YEAR 24 HOUR RAINFALL 08 SLOPE DIRECTION OF SITE SLOPE | TERRAIN AVERAGE SLOPE SITE SLOPE ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY SITE IS IN 2100 YEAR FLOODPLAIN 12 DISTANCE TO CRITICAL HABITAT (of endangered species) 11 DISTANCE TO WETLANDS (5 acre m MIGRATORY AQVILA CHRYSAETOS **ESTUARINE** OTHER BIRDS ENDANGERED SPECIES: HALIAFETUS LEUCOCEPH (mi) FALCO PEREGRENES 13 LAND USE IN VICINITY DISTANCE TO: AGRICULTURAL LANDS
PRIME AG LAND AG RESIDENTIAL ABEAS; NATIONALISTATE PARKS, FORESTS, OR WILDLIFE RESERVES **COMMERCIAL/INDUSTRIAL** B. 0.08 (mil) c.unthown (mi) D. 0.02 14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPH Site grade 15 now approximately
the same are the original ground
surface proor to quarring and landfilling.
Sile + surrounding area slope N.

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

Sile 015 t 1585

NYSDE files. Nicgarz County N

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 8- SAMPLE AND FIELD INFORMATION

		IFICATION
01	STATE	02 SITE NUMBER 2005/4420
l,	154	120005/4440

FART 0" SAMPLE AND FILED IN CHIMATION				
IL SAMPLES TAKE				LOS SETIMATED DATE
SAMPLETYPE		01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNOWATER				
SURFACE WATER				
WASTE				
AIR				
RUNOFF			·	
SPILL				
SOIL				
VEGETATION				
OTHER				
IIL FIELD MEASUR	EMENTS TA	KEN		
01 TYPE		02 COMMENTS		
HNI		HULLON	otos, nezdunes were taken dur	una
111000		the 2 5 4	e inspection - all masuramen	#3 J
·		were	less than 1 pom	
IV. PHOTOGRAPH	S AND MAP	\$		
01 TYPE GROU			02 IN CUSTODY OF(Name of organization or individual)	
O3 MAPS	04 LOCATION	N OF MAPS		
□ NO				
V. OTHER FIELD	ATA COLLE	CTED (Provide nemero de	ecrodon)	
ŀ				
				i.
MI COURCES OF INFORMATION CO.				
VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, records)				
Site impection conducted by ES+DEM, 3/29/85				
	1		1	ч
				•
I				

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 7 OWNER INFORMATION

ı.	IDENT	IFICATION
0	1777	02 SITE NUMBER

	PART 7 - OWN		701 40037 735	
		PARENT COMPANY (# accessed	> }	
0:	2 D+8 NUMBER	08 NAME	09	0+8 NUMBER
\				T
	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD	i, etc.)	11 SIC CODE
_			lea ore relati	7B CODE
OSTATE O	7 ZIP CODE	12 CITY	ISSIAIE	. <u>2</u> . 0000
1	2 D+8 NUMBER	OB NAME	os	D+8 NUMBER
	04 SIC CODE	10 STREET ACORESS (P.O. Sox, RFD P. esc.)		11 SIC CODE
O STATE	O7 ZIP CODE	12 GTY	13 STATE 14	A ZIP CODE
	02 D+8 NUMBER	08 NAME	Os	0 0+8 NUMBER
	04 SIC CODE	10 STREET ADDRESS (P.O. Box. RFD	ø, ecc.)	11SIC CODE
06 STATE	07 ZIP CODE	12 CITY	13 STATE 14	4 ZIP CODE
	02 D+8 NUMBER	OS NAME	o	90+8 NUMBER
03 STREET ADDRESS (P.O. Box. RFO #, etc.)		10 STREET ADDRESS (P. O. Box, RFO #. etc.)		11 SIC CODE
06 STATE	07 ZIP CODE	12 CITY	13 STATE 1	4 ZIP CODE
		IV. REALTY OWNER(S) (# 2004		
	02 D+6 NUMBER	01 NAME	0	2 D+8 NUMBER
	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
06STATE	07 ZIP CODE	05 CITY	06 STATE	OT ZIP CODE
	02 D+8 NUMBER	01 NAME		02 D+6 NUMBER
	04 SIC CODE	03 STREET ADORESS (P.O. Box, RFC	D #. etc.;	04 SIC CODE
06 STATE	07 ZIP CODE	05 CITY	06 STATE	O7 ZIP CODE
	02 D+8 NUMBER	01 NAME		02 D+6 NUMBER
	04 SIC CODE	03 STREET AODRESS (P.O. Box. AFC) #, etC.)	04 SIC CODE
08STATE	07 ZIP CODE	os ary	08 STATE	07 ZIP CODE
1	1	1		
ic references.	e.g., state (lies, sample and)	rais, reports)		
		tion, 3/25/25	,	
	O6 STATE	02 D+8 NUMBER 04 SIC CODE 04 SIC COD	02 D+8 NUMBER 08 NAME 04 SIC CODE 10 STREET ADDRESS (P. O. Box. RFD of STATE 07 ZIP CODE 12 CITY 02 D+8 NUMBER 08 NAME 04 SIC CODE 12 CITY 02 D+8 NUMBER 08 NAME 04 SIC CODE 10 STREET ADDRESS (P. O. Box. RFD of STATE 07 ZIP CODE 12 CITY 02 D+8 NUMBER 08 NAME 04 SIC CODE 10 STREET ADDRESS (P. O. Box. RFD of STATE 07 ZIP CODE 12 CITY 04 SIC CODE 10 STREET ADDRESS (P. O. Box. RFD of STATE 07 ZIP CODE 12 CITY 04 SIC CODE 03 STREET ADDRESS (P. O. Box. RFD of STATE 07 ZIP CODE 05 CITY 04 SIC CODE 05 CITY 05 STATE 07 ZIP CODE 05 CITY 06 STATE 07 ZIP CODE 05 CITY 07 ZIP CODE 05 CITY 08 STATE 07 ZIP CODE 05 CITY 09 STATE 07 ZIP CODE 07 ZIP CODE 07 ZIP CODE 09 STATE 07 ZIP CODE 07 ZIP	PARENT COMPANY

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

	TRICATION
01 STATE	02 SITE NUMBER <u>DUSUS 7443</u> 5
147	20000514430

	l	PART 8 - OPERA	TOR INFORMATION		
IL CURRENT OPERATOR (Provide & different from current)			OPERATOR'S PARENT COMPANY (# acodicacie)		
NAME OLIMA A ROUZITAM HICH	away. Dol	2 D+8 NUMBER 	10 NAME	1	11 0+8 NUMBER
STREET ADDRESS (P. D. SOL, APO P. SOL)	·····	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD P, etc.	.}	13 SIC CODE
ary	06 STATE	7 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
FEARS OF OPERATION 09 NAME OF OW	nea es Ort	mzm.			
PREVIOUS OPERATOR(S)		I ciliferent from owner)	PREVIOUS OPERATORS' PARE	NT COMPANIES (#4	opticable)
NAME		2 0+8 NUMBER	10 NAME		11 0+8 NUMBER
STREET AOORESS (P.O. Bas, RFD F, eds.)		04 SIC CODE	12 STREET ADORESS (P.O. Box, RFD P. etc.	L.)	13 SIC CODE
CITY	06 STATE	7 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
YEARS OF OPERATION 09 NAME OF OW	MER DURING THIS	PERIOD			
NAME	C	2 D+8 NUMBER	10 NAME		11 0+6 NUMBER
STREET ADDRESS (P.O. Box, RFD P. cos.)	1	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.	.,	13 SIC CODE
GTY	06 STATE	7 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
YEARS OF OPERATION 09 NAME OF OV	VNER DURING THIS	PERIOD			
NAME		22 D+6 NUMBER	10 NAME		11 D+8 NUMBER
STREET ADDRESS (P.O. Box, RFD #, onl.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.	L.J	13 SIC CODE
ату	06 STATE	77 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
YEARS OF OPERATION 09 NAME OF OV	WNER DURING THIS	PERIOD			
/. SOURCES OF INFORMATION (Cas					
			ection, 3/25/85		

\$EPA	١.
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POTENTIAL HAZARDOUS WASTE SITE

		TFICATION
01	STATE	02 SITE NUMBER 12000574430

SEPA	PART 9		CTION REPORT RANSPORTER INFORMATION	104.0	000574430
IL ON-SITE GENERATOR					
1 NAME		02 D+8 NUMBER			
STREET ADDRESS (P. O. BOK. AFD P. ORC.)		04 SIC CODE			
3 STREET ADDRESS (P.O. BOLL RFD P. 400.)		U4 SIC CODE			
5 CITY	06 STATE	07 ZIP CODE			***
IIL OFF-SITE GENERATOR(S)					
I NAME		02 D+8 NUMBER	01 NAME		02 D+8 NUMBER
UNKNOWN		04 SIC CODE	03 STREET AODRESS (P.O. Box, RFD #. etc.)		04 SIC CODE
3 STREET ADDRESS (P.O. Box, RFO P. etc.)		04 SKI CODE	OS STREET ADDRESS (F.S. DOL, AFOF, WAY		
5 GTY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
			01 NAME		02 D+8 NUMBER
1 NAME	•	02 D+8 NUMBER	UI NAME		
3 STREET AODRESS (P.O. BOX, RFD P. etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD P. MC.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	OB STATE	07 ZIP CODE
IV. TRANSPORTER(S)		02 D+8 NUMBER	I 01 NAME		102 D+8 NUMBER
UN KROUN		UZ DTB NUMBER	OT WARE		
D3 STREET ADDRESS (P.O. Box. AFD P. etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #. etc.)		04 SIC CODE
	IOS STATE	07 ZIP CODE	OS CITY	06 STATE	07 ZIP CODE
DS CITY	0001772	0.2.002	00 011		
D1 NAME		02 D+8 NUMBER	01 NAME		02 D+6 NUMBER
00 CTTCTT 1000CCC 10 C 2 450 4 mg		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFO F. etc.)		04 SIC CODE
03 STREET ADDRESS (P.Q. Box, RFD P. esc.)					
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STAT	E 07 ZIP CODE
V. SOURCES OF INFORMATION (CR)		A C. STORY (Fig. SATTO) and to	THE CHOOCEN		
V. SUBRCES OF IRPORMATION (CA	Decision (market	a.g., 3.00 i.e., 30 i.e.	7 990 107		
•					
			•		
			•		4

	bU.	TENTIAL HAZARDOUS WASTE SITE		I. IDENTIFICATION
\$EPA		SITE INSPECTION REPORT ART 10 - PAST RESPONSE ACTIVITIES		O1 STATE O2 SITE NUMBER DV00514430
II. PAST RESPONSE ACTIVITIE	ES			
01 Q A. WATER SUPPLY C		02 DATE	03 AGENCY	
04 DESCRIPTION	No			
01 🗆 B. TEMPORARY WAT	TER SUPPLY PROVIDED	02 DATE	03 AGENCY	
04 DESCRIPTION	No			
01 C. PERMANENT WAT	TER SUPPLY PROVIDED	02 DATE	03 AGENCY	
04 DESCRIPTION	No			
01 D. SPILLED MATERIA	L REMOVED	02 DATE	03 AGENCY	
04 DESCRIPTION	No			
01 D E. CONTAMINATED S	SOIL REMOVED	02 DATE	03 AGENCY	
04 DESCRIPTION	No			
01 F. WASTE REPACKA	GED	02 DATE	03 AGENCY	
04 DESCRIPTION	No			
01 G. WASTE DISPOSED	DELSEWHERE	02 DATE	03 AGENCY	
04 DESCRIPTION	No			
01 D H. ON SITE BURIAL		02 DATE	03 AGENCY	
04 DESCRIPTION	No			
01 [] I. IN SITU CHEMICAL	TREATMENT	02 DATE	03 AGENCY	<u> </u>
04 DESCRIPTION	No			
01 J. IN SFTU BIOLOGIC	CAL TREATMENT	02 DATE	03 AGENCY	1
04 DESCRIPTION	100			
01 C K. IN SITU PHYSICA	L TREATMENT	02 DATE	03 AGENC	Υ
04 DESCRIPTION	16			
01 🗆 L ENCAPSULATION		02 DATE	03 AGENC	Υ
04 DESCRIPTION	Na			
01 M. EMERGENCY W	ASTE TREATMENT	02 DATE	03 AGENC	Υ
04 DESCRIPTION	No			
01 ON. CUTOFF WALLS		02 DATE	03 AGENC	Υ
04 DESCRIPTION	No			
01 O. EMERGENCY DI	KING/SURFACE WATER	DIVERSION 02 DATE	03 AGENO	Υ
04 DESCRIPTION	No			
01 P. CUTOFF TRENC	HES/SUMP	02 DATE	03 AGENO	Y
04 DESCRIPTION	No			•
01 🗆 Q. SUBSURFACE C	<u> </u>	02 DATE	O3 AGENO	Y
04 DESCRIPTION	ND			

9	FPΔ	
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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

	TIFICATION
OI STATE	02 SITE NUMBER 200051443C)

YEFA	PART 10 - PAST RESPONSE ACTIVITIES	NY DOOS 14430
II PAST RESPONSE ACTIVITIES (Continued)	·	
01 DR. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	
01 S. CAPPING/COVERING	02 DATE	03 AGENCY
5, to 13 Co.	vered + vegetailed	
01 D. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	
01 © U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION 100		03 AGENCY
01 U. BOTTOM SEALED 04 DESCRIPTION		03 AGENCY
01 DW. GAS CONTROL 04 DESCRIPTION		03 AGENCY
01 D X. FIRE CONTROL 04 DESCRIPTION		03 AGENCY
01 G Y. LEACHATE TREATMENT 04 DESCRIPTION		03 AGENCY
01 🗆 Z. AREA EVACUATED 04 DESCRIPTION		03 AGENCY
01 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION //)		03 AGENCY
01 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	
01 \(\text{3. OTHER REMEDIAL ACTIVITIES} \\ 04 DESCRIPTION \(\lambda \text{UO} \)	02 DATE	03 AGENCY
•		
III. SOURCES OF INFORMATION (Cite Specific rete	rences, e.g., state files, sample analysis, reports)	
Le visit 19		*



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER, NY 20005/4430

IL ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION 77 YES INO

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

In 1973, NYSDEC + the Townor Registern extend into a consent agreement exaction to improve landful management practices leig. daily coner, security, proper drainage, etc.)

IIL SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample energies, resource)

NYSDEC, Order on Consent, September 1973 (F. Le No. 73-40)

SECTION VI

ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

ASSESSMENT OF DATA ADEQUACY

A summary assessment of the adequacy of existing data for completion of the HRS score is presented in Table VI-1. Based on this assessment, the following Phase II work plan and cost estimate has been prepared.

PHASE II WORK PLAN

Objectives

The objectives of the Phase II activities are:

- o To collect additional field data necessary to identify the occurrence and extent of contamination and to determine if any imminent health hazard exists.
- o To perform a conceptual evaluation of remedial alternatives and estimate budgetary costs for the most likely alternative.
- o To prepare a site investigation report including final HRS score.

The additional field data required to complete this investigation are described as follows:

Groundwater - A groundwater monitoring system consisting of 3 wells is recommended. Borings will be drilled to a maximum depth of 25 feet; soil samples will be taken every 5 feet or more frequently if a change in soil lithology is encountered. The wells will be placed in the aquifer of concern and constructed of 2" PVC pipe. The groundwater samples will be analyzed for priority pollutants. Sampling of the downgradient private well should also be conducted. In addition, sieve and hydrometer analyses will be performed on representative samples of the subsurface soils. Finally, an in-situ permeability test will be performed on each well.

Surface Water and Sediment - A surface water and sediment monitoring system consisting of 3 monitoring stations is recommended. One station (S-1) will be upgradient of the site in an unnamed tributary of Eighteen-Mile Creek. Station S-2 will be located in the ditch adjacent to the landfill which drains to the unnamed tributary. Finally, Station S-3 will be located downgradient of the site in the unnamed tributary. The surface water and sediment samples will be analyzed for priority pollutants.

Air - An air monitoring survey with an HNU meter is recommended to test the air quality during site activities.

TASK DESCRIPTION

The proposed Phase II tasks are described in Table VI-2 as required under the site specific health and safety plan and quality assurance plan which must be submitted prior to initiation of field activities. The proposed monitoring well and sampling location are presented in Figure VI-1.

COST ESTIMATE

The estimated man-hours required for the Phase II project are presented in Table VI-3 and the estimated project costs by tasks are presented in Table VI-4. The estimated total cost for this project is \$44,972.

TABLE VI-1
ASSESSMENT OF DATA ADEQUACY

HRS Data Requirement	Comments on Data
Observed Release	
Groundwater	Data inadequate to score an observed release
Surface Water	Observed release, adequate for HRS score
Air	Data adequate, no observed release
Route Characteristics	
Groundwater	Inadequate data, additional information concerning depth of aquifer of concern is needed.
Surface Water	Data adequate for HRS score
Air	Not applicable, no observed release
Containment	Data adequate for HRS score
Waste Characteristics	Data inadequate for HRS score
Targets	Data adequate for HRS score
Observed Incident	Data adequate for HRS score
Accessibility	Data adequate for HRS score

TABLE VI-2

PHASE II WORK PLAN - TASK DESCRIPTION

	Tasks	Description of Task
II-A	Update Work Plan	Review the information in the Phase I report, conduct a site visit, and revise the Phase II work plan.
II-B	Conduct Geophysical Studies	No further studies necessary.
II-C	Conduct Boring/Install Monitoring Wells	Install 1 upgradient and 2 down- gradient wells. The borings will be drilled to a depth of approximately 25 feet. Wells will be constructed of 2" PVC pipe.
II-D	Construct Test Pits/Auger Holes	No further construction of test pits/auger holes necessary.
II-E	Perform Sampling & Analysis	
	Soil samples from borings	Soil samples collected at 5 ft. intervals during drilling and at changes in subsurface lithologies. Perform one grain size analysis and permeability test per subsurface lithology change.
	Soil samples from surface soils	No further studies necessary.
	Soil samples from auger holes/test pits	No further studies necessary.
	Sediment samples from surface water	3 sediment samples are to be collected and analyzed for priority pollutants.
	Groundwater samples	4 groundwater samples are to be collected and analyzed for priority pollutants.
	Surface water samples	No further studies necessary.

TABLE VI-2 (Continued)

PHASE II WORK PLAN - TASK DESCRIPTION

	Tasks	Description of Task
	Air samples	Using the HNu determine the presence of organics.
	Waste samples	No further sampling necessary.
II-F	Calculate Final HRS	Based on the field data collected in Tasks II-B - II-E, complete the HRS form.
II - G	Conduct Site Assessment	Prepare final report containing significant Phase I information, 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.

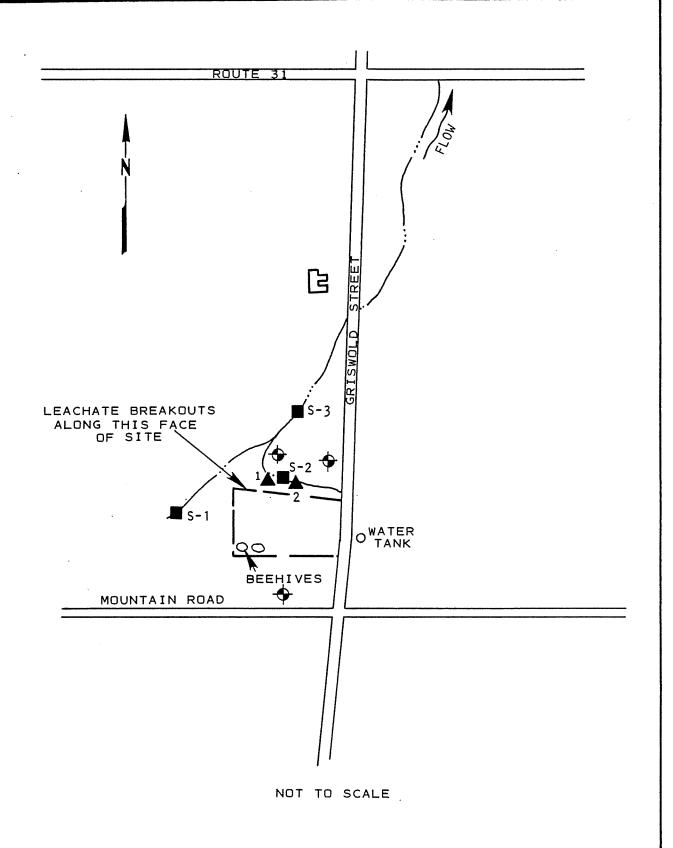
		PHOSE 11	PERS HRS SITE	TABLE VI-3 Personnel resources by Task 11te investigation (site: Toi	TABLE VI-3 . Resources by 3tigation (siti	TABLE VI-3 PERSONNEL RESOURCES BY TASK PHASE II HAS SITE INVESTIGATION (SITE; TOWN OF ROYALTON LANDFILL)	: RUYALTOR	LANDFIL	-					
TASK DESCRIPTION			-			,	TEGN	TEAN NEVBERS, NAVIOURS	MONHOURS					
	PIC	TRB	£	#	\$	8	₹	E	Ē	ROPL	RAMI	88	TOTAL	TOTAL
II-A UPDATE WORK PLAN	-	-	•	•		•	•	91		6		æ	*	1144.1
11-8 CONDUCT BEDPAYSICAL STUDIES													•	•
II-C COMOUCT BORING/INSTALL MONITORING WELLS			•	91		•	•	•	7			ಪೆ	98	1519,48
11-D CONSTRUCT TEST PITS/AUGER Holeb													•	•
II -E PERFORM SAPPLING PAID AMALYSIS		,												
SOIL SAMPLES FROM BORINGS			•	•		a	QJ.	•	91			•	\$	555.14
SOIL SAPLES FROM SURFROE													•	•
SOIL SWPLES FROM TEST PITS RND RUGER HOLES													•	•
SEDINENT SAWPLES FROM SUIFFOCE Water			-	-			-	-	•			•	3	166.6
GROUND-WATER SYNDLES			4	•		-	-	•	\$			91	\$	1998. 97
SUIFFACE NATER SAMPLES			-	-			-	-	•				gh.	136.92
AIR SAPPLES			-					-	•			•	21	155.68
WASTE SAWPLES													•	•
11-F CALCULATE FINAL HRS			•	•				•	•	au		. •	ଖ	394.56
11-8 CONDUCT BITE ASSESSMENT	તા	aı	€	໙				ź	왕	15	\$	8	172 2	2217.82
II-H PROJECT MANAGOKENT	QJ		9	a	m	•	•					21	8	529.88
TOTALS	10	m	\$	æ	m	11	81	11	얦	웞	\$	5 5	565 7827.45	827.45

TABLE VI-4 COST ESTIMATE DREAKDOMN BY TASK PHASE II HAS SITE INVESTIGATION (SITE: TOWN OF RIVALTON LANDFILL)

OTHER DIRECT COSTS (COC), \$

TRSK DESCRIPTION

	DIRECT	DIRECT LABOR Durs cost	LAB	TROVEL AND SUBSTSTANCE	SUPPLIES	EDUIP. CHARGES	SUBCON- TR9CTORS	MISC.	SUBTOTAL ODC	TOTAL (6)	
II-A UPDATE WORK PLAN	*	11, 144. 10		\$299.80	\$58.80	\$59.00		156.00	6.356. 88	61,494.18	
11-8 COMONCY GEOPHYSICAL STUDIES	•	3							3.	8 6.88	
11-C CONDUCT BORING/INSTALL WENTTORING WELLS	3	61,519.48		6.258.00	6256.00	\$300°.00	65, 428. 66		96, 329. 98	46, 439. 48	
11-d Construct Test Pits/Auser Holes	•	3.							3.	3	
II-E PERFORM SAMPLING AND AMLYSIS											
SOIL SAPPLES FROM BORINGS	\$	6505.14				5100.00			4289.80	1735.14	
SOIL SAMPLEB FROM SUMFRIZE SOILS	•	3.							3	3.	
901L SAMPLES FROM TEST P1TS And Augen Holes	•	3.							3	8 .8	
SEDINENT SAMPLES FROM SUMFAYE WITER	E	9166.60	14, 880. 88	459. 88	86.9	975.00		25.82	64,965.88	65, 131. 60	
GROUND-WATER SOMPLES	\$	11,008.07	£3, 688. 88	#428.68	\$50. 8	6159.60		458.80	64, 276.86	45, 278. 67	
SURFACE MATER SAMPLES	6	136.92	83, 6 98. 89	65e. es	850.8	675.00		68.8	13,765.00	43,981.92	
AIR SAPLES	8	6135.68				\$280.80			\$200.00	\$353, 68	
. WASTE BAMPLEB	•	3.							8.3	2.3	•
11-F CALCALATE FINAL HRS	ผ	6394.56				\$159.80			\$150.00	\$544.56	
11-8 CONDUCT SITE ASSESSMENT	172	62,217.62			8759.BB	\$386.86		975.00	11, 125.00	83, 342. 6 2	
11-H PROJECT MANAGHENT	æ	\$529.88	936.80	1399.68	\$159.00	\$59. 66		\$5 0.8 8	\$1,458.88	\$1,979.88	
T0TALS	38	67,627.45	67,627.45 \$12,966.66	\$1,378.88	11, 398. 88	42, 658. 69	\$2,858.88 \$5,428.88	\$265,88	\$265. 69 \$23,395. 68 \$31,222.45	631, 222. 45	
						-	0 07 tt P	Overhead= Subtotal= Fee= Total project cost=	.T 208Te	\$11, 177. 68 \$42, 486. 65 \$2, 572. 89 \$44, 972. 14	



EXPLANATION:

A SAMPLE POINT

#1 - SOIL AND WATER

#2 - WATER ONLY

PROPOSED SURFACE WATER AND SEDIMENT SAMPLE

PROPOSED GROUNDWATER MONITORING WELL

ENGINEERING-SCIENCE, INC. IN ASSOCIATION WITH DAMES & MOORE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE I REPORT

PROPOSED SAMPLING LOCATIONS
TOWN OF ROYALTON

FIGURE VI-1

APPENDIX A

REFERENCES
SOURCES CONTACTED
DOCUMENTATION

SOURCES CONTACTED FOR TOWN OF ROYALTON LANDFILL

INFORMATION COLLECTED	Reviewed list of sites to determine if additional information was available.	General information from site files.	General information from site files.	Mr. Pagano set up meet- ings with three bureaus within Division of Water.	Reviewed SPDES Files for permit numbers and conditions.	Reviewed DMR files for discharge violations.	Reviewed site list to identify sites with potential air emissions.	Reviewed geology and monitoring information for specific sites.
LOCATION	401 M Street, NW Washington, D.C. 20460	Room 402 26 Federal Plaza NY, NY 10278	50 Wolf Road Albany, NY 12233	50 Wolf Road Albany, NY 12233	50 Wolf Road Albany, NY 12233	50 Wolf Road Albany, NY 12233	50 Wolf Road Albany, NY 12233	50 Wolf Road Albany, NY 12233
TEL EPHONE NUMBER	(202) 382-4839	(212) 264–7681	(518) 457-0639	(518) 457–6675	(518) 457-6716	(518) 457-2010	(518) 457-7454	(518) 457-7363 (518) 457-7363 (518) 457-7363
PERSON CONTACTED	Hamid Saebfed	Mel Hauptman	Marsden Chen	Sal Pagano	Bob Hannaford	George Hansen	Art Fossa	Bill Berner Frank Estabrooks Fred Van Alstyne
DATE	4/2/85	3/22/85	12/19/84	12/19/84	12/20/84	12/21/84	12/21/84	12/21/84
CONTACT	USEPA Headquarters, Superfund Office	USEPA - Region II, OERR	NYSDEC - Division of Solid and Hazardous	NYSDEC - Division of Water	NYSDEC - Division of Water SPDES Files	NYSDEC - Division of Water DMR Files	NYSDEC - Division of Air Toxics	NYSDEC - Division of Monitoring and Assessment

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SOURCES CONTACTED FOR TOWN OF ROYALTON LANDFILL

INFORMATION COLLECTED	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.	Collected information from site files.	Collected information concerning previous air emissions from inactive disposal sites.
LOCATION	50 Wolf Road Albany, NY 12233	Empire State Plaza Justice Building Albany, NY 12233	Buffalo State Office Bldg. Buffalo, NY 14202	600 Delaware Ave. Buffalo, NY 14202	600 Delaware Ave. Buffalo, NY 14202
TELEPHONE NUMBER	(518) 457–4346	(518) 473-3105	(716) 847–7196	(716) 847-4615 (716) 847-4615 (716) 847-4590 (716) 847-4585	(716) :847–4565
PERSON	Kevin Walter	Val Washington	Albert Bronson	Ahmad Tayyebi Larry Clare Peter Buechi Jack Tygert	Henry Sandonato Robert Armbrust
DATE	12/20/84	1/7/85	1/3/85	1/7/85	1/8/85
CONTACT	NYSDEC - Division of Environmental Enforcement	NYS - Attorney General's Office, Dept. of Law	NYS - Attorney's Office	NYSDEC - Division of Solid and Hazardous Waste	NYSDEC - Region 9 Division of Air

SOURCES CONTACTED FOR TOWN OF ROYALTON LANDFILL

INFORMATION COLLECTED	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.	Collected information from site files.	Collected information from site files	Collected information from Niagara County site files. Obtained additional information through interview.	Obtained 1980 U.S. Census Data.	Conducted site inspection and reviewed site ownership history and past waste disposal practices on-site.
LOCATION	600 Delaware Ave. Buffalo, NY 14202	584 Delaware Ave. Buffalo, NY 14202	600 Delaware Ave. Buffalo, NY 14202	Tenth & East Falls Street Niagara Falls, NY 14302	59 Park Ave. Lockport, NY 14094	4240 Griswold Rd. Middleport, NY
TELEPHONE NUMBER	(716) 847–4551	(716) 847-4500	(716) 847-4600 (716) 847-4600	(716) 284-3124	(716) 439-6033	(716) 735–7415
PERSON CONTACTED	Peter J. Burke	Lou Violanti	Mike Wilkinson Jim Sneider	Mike Hopkins	Dave Urso	Douglas Ortman
DATE	1/10/85	1/8/85	1/10/85 & 1/11/85	1/9/85	2/22/85	3/25/85
CONTACT	NYSDEC - Regional Attorney	NYS Dept. of Health, Buffalo Region, Public Health Engineering	NYSDEC - Region 9 Division of Fish and Wildlife	Niagara County Dept. of Health	Niagara County Dept. of Planning and Industrial Development	Owner of Landfill Site

REFERENCES

- 10. Hopkins, Mike, Personal Communication, 1/21/87.
- 11. Niagara County Health Department, Site Profile Report.
- 12. NYSDEC Region 9, Site Profile Report.
- 13. NYSDEC, Order of Consent, September, 1973.

INTERVIEW FORM

INTERVIEWEE/CODE Mike Hoplans
TITLE - POSITION Niagara Courty Health Department
ADDRESS. Tenth & East falls Street
CITY Niagara Falls STATE NY ZIP 14302
PHONE (716) 284-3124 RESIDENCE PERIOD TO
LOCATION Teleplac conversation INTERVIEWER S. R Steele
DATE/TIME 1/21/87 /30 PM
SUBJECT: Town of Royalton Landhill
REMARKS: Surface water drawage from the site flows to a man made
drange ditch and then to a unuquel Stream. This Stream
flows to Jeddo creek which flow through a colvent under
the Barge Canal. There are no & drinking water intakes
ON Jeddo creek and the creek may be used for
recreational perposes. (fishing) mer
Grandwater at the landfull Ste Occurs in the belock
agrife. The Town of muldlepost water withdraul
(spring) system probably is liecated in a different aguster.
Presently; the water supply well is not being used and
purecipal water is prouded by the Niagara County Water
Distric: In the past, the supply well was used as a conventy
Supplemental water some only. This system is not used,
but "us able.
en e
I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:
SIGNATURE: Muchul & Moph 1/23/86
COMMENTS:

Royalten REF-11

NAME:

Town of Royalton (DEC #932092)

LOCATION:

This site is a five acre parcel located west of Griswold Street and 0.5 mile south of Rochester Road in Royalton, NY.

A site sketch is attached.

OWNERSHIP:

The property is owned by Mr. Douglas Ortman, 4240 Griswold Street, Middleport, NY. The site was operated by the Town of Royalton Highway Department.

HISTORY:

This site was used to dispose of municipal refuse collected by Bancroft and individual residents from the Town of Royalton and the Villages of Gasport and Middleport. The site was in use in the early 1960's and was officially open until 1978. No disposal of hazardous materials is known.

A 1964 NCHD inspection report states that open burning was being practiced and that cover was applied monthly at that time. From 1964 to 1972, numerous operating problems were reported. A hearing held in July 1973 ordered corrections and upgrading of the operation. From 1973 to 1978, reports indicate that the operation was essentially in compliance with existing codes. The site was closed in 1978.

Recent inspections show that the site is now inactive. Minor scavenger dumping of refuse has occurred since closure. Minor leachate problems ahve been noted. Except for these problems, the site is adequately closed.

PREVIOUS SAMPLING:

Soil and water samples were taken by DEC in 1982. The results of the analyses are attached. The water samples were taken from the drainage ditch; Sample No. 1 from the point of leachate entry and Sample No. 2 150 feet upstream. The results show an increase in each of the detectable parameters in the downstream sample (No. 1) although all concentrations except iron are within effluent standards. The iron concentration increases from 1.5 mg/l upstream to 130 mg/l downstream.

SOILS/GEOLOGY:

This site was originally a stone quarry prior to landfilling. It is expected that wastes were placed directly on bedrock. Surrounding areas have shallow soils (Farmington and Ontario/Limestone series) which are 20" to 40" deep over limestone substratum. Some of the limestone has probably been removed during the quarrying operation. The depth of waste burial is not known.

The site is on the Clinton outcropping forming part of the Niagara Escarpment. Bedrock is the portion of the Clinton Group which is typically below the Rochester Shale. Limestone, sandstone and shale stratum are present.

GROUNDWATER:

Little information is available on groundwater within the Clinton Group. According to Johnston (1964) this formation is physically capable of transmitting substantial volumes of groundwater, particularly within the limestone and sandstone members. However, this formation is overlain everywhere except along the Excarpment outcropping by the impervious Rochester Shale. Therefore, recharge of aquifers is severely limited. Reportedly, wells in this formation generally have low yields (often inadequate yields) and water quality is poor due to hardness and salinity.

Several wells are located south of the site; however, these tap the Lockport Dolomite which outcrops above the site. Therefore, this site poses no threat of contamination of these wells.

SURFACE WATER:

The ditch adjacent to the north side of the site enters a stream which flows into the Barge Canal at Middleport. There are no major users of water from the creek. The Barge Canal is an emergency source of water for the City of Lockport.

The site is not in a 100 year flood plain. There are no significant wetlands near this site.

AIR/FIRE/EXPLOSION:

No air emissions or odor problems have been noted since the site was closed. The potential of fire occurring is minimal.

The surrounding area is agricultural. The Village of Hiddleport is over one mile northeast. Population within one mile is estimated as under 100.

SECURITY/DIRECT CONTACT:

No toxic materials are known to be present. All wastes are covered. Small amount of leachate are exposed. Vehicular traffic ts prevented by a cable across the access road. The site may eventually be used as pastureland.

CONCLUSIONS:

This site is an inactive municipal landfill which served about 7000 people for about 15 years. No hazardous materials are known to be present. The site is covered and grassed. Minor leachate problems have been noted.

RECOMMENDATIONS:

Periodic monitoring of leachate along the drainage ditch should continue. If the extent of the problems increases, remedial action should be considered. No other actions are considered necessary.

TOWN OF ROYALTON - Soil Analyses

COMPOUND	UNITS	SITE LOCATION #1
Antimony	ug/g đry	< 5
Arsenic	ug/g dr y	1.1
Beryllium	ug/g đr y	<0.3
Cadmi un	ug/g đr y	0.29
Chromium	'ug/g dry	7.5
Copper	ug/g đ ry	; 15
Iron	ug/g đr y	29,000
Lead	ug/g đ ry	9.5
Mercury	ug/g đ ry	<0.06
' Vickel	ug/g đr y	3.8
Selenium	ug/g dry	۷٥.3
Silver	ug/g đ ry *	<0.3
Thallium	ug/g đ ry	⟨ 3
Zin c	ug/g đry	160
Halogenated Organic Scan	ug/g dry as Cl2 Lindane Standard	0.58
Dry Weight	*	51

TOWN OF ROYALTON LANDFILL - Water Analyses

		_		
COMPOUND	UNITS	(1)	<u>(2)</u>	EFFLUENT STANDARD
Antimony	mg/1	<0.2	<0.2	
Arseni c	ug/1	<5	₹ 5	.05 mg/1
Beryllium	mg/l	۷0.01	(0.01	
Cadmi um	mg/1	<0.004	<0.004	.02 mg/1
Chromi um	mg/1	0.020	0.004	.10 mg/l
Copper	mg/1	0.022	<0.005	1.0 mg/l
Iron	mg/l	1 <i>30</i>	1.5	0.6 mg/l
Lead	mg/1	<0.03	<0.03	0.05 mg/1
Mercury	ug/1	〈 1	<1	0.004 mg/1
Nickel	mg/l	<0.03	<0.03	2.0 mg/1
Selenium	ug/1 .	< 5	< 5	0.04 mg/ ¹
Silver	mg/l	<0.01	40.01	0.1 mg/1
Thallium	mg/l	ζο.1	<0.1	
Zinc	mg/l	0.701	0.063	5.0 mg/1
Halogenated Organic Scan	ug/l as Cl ₂ Lindane Stand	1.5 far đ	0.75	
Total Organic Carbon	mg/1	30	19	

REF-12

NAME OF SITE: Town of Royalton Landfill

LOCATION: Griswold Road, Royalton (T), Niagara County

CURRENT OWNER: Town of Royalton

HISTORY

This site was used by the Town of Royalton for the disposal of municipal wastes until 1979. For most of the time it was operating the site was plagued with operational problems. In 1979, landfilling operations at this site ceased and the site was supposed to be properly closed. However, since landfilling operations ceased, problems with leachate and midnight dumping have been reported by the Niagara County Health Department.

INVESTIGATION

This site was inspected on March 31, 1982 by Messrs. Senior and Christorfel of DEC - Region 9. Samples were taken from two locations. Soil and water samples were taken from the shore of a drainage ditch adjacent to the landfill, at the point where leachate was leaking into the ditch. The second location was in the drainage ditch, approximately 150 feet upstream from the first location.

SOILS & GEOLOGICAL INFORMATION

This site is located on Hilton Silt Loam and Ontario Loam. The Hilton series consists of deep, moderately well drained, medium textured soils. These soils are formed in calcareous glacial till, containing sandstone and limestone fragments. The Ontario series consists of deep, well-drained, medium textured soils that were formed in calcareous, loamy, glacial till deposits. The glacial material contains semi-rounded and angular rock fragments that are mostly sandstone and limestone.

The bedrock in this area is of the Lockport group. It is dolomite and dolomitic limestone, locally cherty. The Gasport Limestone at the base is locally reefy.

SAMPLE ANALYSES

The samples taken at the leachate breakout contained high concentrations of iron in both the water and soil samples. There was a noticeable difference between samples taken at the breakout and upstream for chromium, copper, iron, zinc, halogenated organics and total organic carbon. Detectable concentrations of halogenated organics were found in both the soil and water samples.

In the day of this investigation a sizable leachate breakout was observed in the CUSSION OF RESULTS thwest corner of the landfill. The leachate and the soil around it were discolored 1, and this discoloration extended into the drainage ditch adjacent to the landfill. ilso, garbage and various debris were observed in this section of the landfill left by so-called "midnight dumpers". Erosion channels were evident in the area

This site is approximately 1 mile southwest of the Village of Middleport, and is a fairly rural area. However, access to the site is not restricted, as is idenced by the presence of garbage on the site. The leachate drained into a ditch which drained into a stream which flowed into Middleport. The possibility exists that the stream could be contaminated by the leachate. This site is not ithin the 100 year flood level of any streams in the area.

The fact that leachate, contaminated with iron, zinc, and other compounds, is ECOMMENDATIONS etting into a drainage ditch that flows into an open body of water is unacceptable. t is recommended that the Town of Royalton cover the area of the breakout, grade it, and seed it to discourage erosion. Further, the steel cable rope that is suppose to be across the access road on the site should be repaired so as to limit access to the site and discourage illegal dumping.

Mileolm A. Coutant, Compliance Counsel C. Dawid Van Hyps, Regional Attorney Tour of Royalven Refuse Disposal Site Our Tile No. 73-70 September 11, 1973 Water Air Gen Tiro. File

Attached is a duly executed Order on Consent regarding the above matter and a certified copy of the resolution of the Tour Board authorizing the execution of the Order.

- A. This matter was referred to us by the Niagara County Health Department after a series of attempts, unsatisfactory to them to achieve voluntary compliance. The violation consists primarily of failure to adequately cover and certain drainage problems.
- B. The bond required in this Order is less than the normal bond required in this region for similar matters. It has been made contingent upon the failure of the Town to comply with the terms of the Order. This arrangement is due to our understanding at the time of negotiation that the Town had been attempting to comply with Part 19 and had made considerable progress. Their progress was not sufficient, however.
- C. Respondent's cooperation with the state was satisfactory. Apparently the Town had not cooperated to the satisfaction of the Mizgara County Health Department, although this was not brought out by the Health Department representative attending the initial conference.
- D. Because of the confusion during the course of these negotiations as to the issue of "cooperativeness" with the County. Health Department, I have requested our solid waste engineer to review each case by telephone with the County engineer to obtain their "feeling" for the particular case. I believe this will eliminate any further problems in this regard.

APPENDIX B PROPOSED UPDATED NYS REGISTRY SHEET

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID AND HAZARDOUS WASTE INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

CLASSIFICATION CODE: 2a

REGION: 9

SITE CDDE: 932092

NAME OF SITE : Town of Royalton

STREET ADDRESS: Griswald Rd, 1/2 mi., S. of Rochester Rd.

TOWN/CITY:

COUNTY:

ZIP:

Royalton

Niagara

SITE TYPE: Open Dump- Structure- Lagoon- Landfill-X Treatment Pond-ESTIMATED SIZE: 8 Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME....: Town of Royalton

CURRENT OWNER ADDRESS.: 5316 Royalton Ctr., Rd. Middleport NY

OWNER(S) DURING USE...: Town of Royalton OPERATOR DURING USE...: Town of Royalton OPERATOR ADDRESS..... Town of Royalton

PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From unknown To 1979

SITE DESCRIPTION:

This site was used for the disposal of municipal/residential wastes. The site closed in 1979, but has experienced problems with midnight dumping and leachate following closure.

Soil and water samples were collected from the site in 1982. The soil sample showed elevated concentrations of iron and zinc. The concentration of iron was evaluated in the water samples. Leachate was observed leaving the site during the sample collected.

HAZARDOUS WASTE DISPOSED: Confirmed- Suspected -X QUANTITY_(units) IYPE

None K..own

SITE CODE: 932092

ANALYTICAL DATA AVAILABLE:

Air- Surface Water-X Groundwater- Soil-X Sediment- None-

CONTRAVENTION OF STANDARDS:

Groundwater- Brinking Water- Surface Water- Air-

LEGAL ACTION:

TYPE..: None State- Federal-

STATUS: In Progress- Completed-

REMEDIAL ACTION:

Proposed - Under Design - In Progress - Completed - NATURE OF ACTION: Landfill is covered and closed

GEOTECHNICAL INFORMATION:

SOIL TYPE: None - waste disposed on bedrock GROUNDWATER DEPTH: Not Known

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Leachate appears to be characteristic of municipal refuse disposal sites. Extent of problem is unknown, but leachate reaching surface water may be impacting groundwater.

ASSESSMENT OF HEALTH PROBLEMS:

Insufficient Information

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF NEW YORK STATE DEPARTMENT ENVIRONMENTAL CONSERVATION OF HEALTH

NAME: Roberto Olazagasti NAME: R. Tramontano

TITLE: Solid Waste Management Spec. TITLE: Bur. Tox. Sub. Assess.

NAME.: P. Buechi NAME.:

TITLE: Assoc. Sanitary Eng. TITLE:

DATE.: 01/24/85 DATE.: 01/24/85