# ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE 1 INVESTIGATION

Town of Saugerties Landfill

Site No. 356003

Town of Saugerties, Ulster County

Final - June 1987



RECEIVED

SEP 23 1987

HAZARDOUS SITE CONTROL DIVISION OF HAZARDOUS WASTE REMEDIATIONS

## 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

Prepared by:



### New York State Department of Environmental Conservation

### **MEMORANDUM**

TO:

FROM:

David O'Toole Charles Goddard

SUBJECT:

Phase I Investigation Report

DATE:

October 21, 1987

Attached are final Phase I reports, Preliminary Engineering Investigations at Inactive Hazardous Waste Disposal Sites, for the Town of Saugerties Landfill, Ulster County site code 356003, Bull Path Landfill, Suffolk County, site code 152059, Brookhaven Landfill - Horseblock Road, Suffolk County, site code 152041 Holtsville Landfill, Suffolk County, site code 152010 and the Pine Road Ecology site, Suffolk County, site code 152049, for your records.

If you have any questions, please contact Mr. Chen at extension 7-0639.

Attachment

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OCT 28 1987

BUREAU OF MUNICIPAL WASTE DIVISION OF SOLID WASTE

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

TOWN OF SAUGERTIES LANDFILL
TOWN OF SAUGERTIES, ULSTER COUNTY
NEW YORK I.D. NO. 356003

### Prepared for

Division of Solid and Hazardous Waste

New York State Department of Environmental Conservation
50 Wolf Road

Albany, New York 12233-0001

### Prepared by

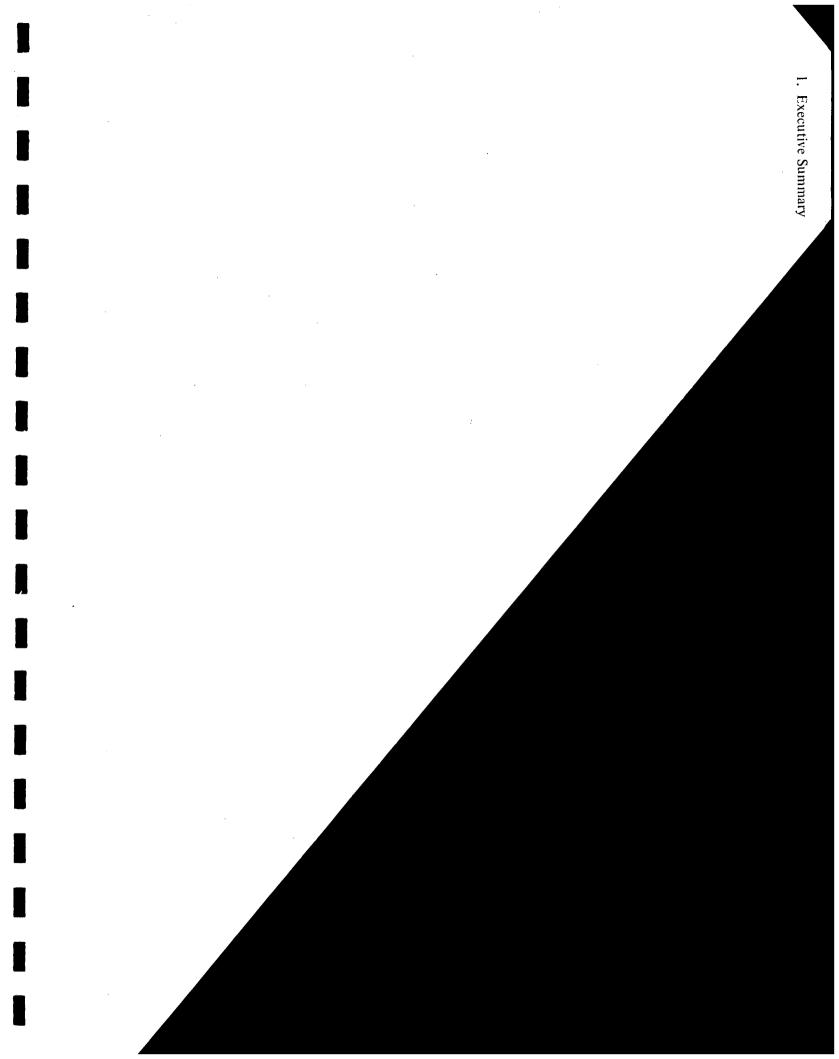
EA Science and Technology R.D. 2, Goshen Turnpike Middletown, New York 10940

A Division of EA Engineering, Science, and Technology, Inc.

June 1987

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### 1. EXECUTIVE SUMMARY

The Town of Saugerties Landfill site (New York I.D. No. 356003 and EPA I.D. No. D9805057636) is a 15-acre active municipal landfill located on Route 212, south of Shultis Corners, in the Town of Saugerties, Ulster County, New York (Figures 1-1 and 1-2, and Photos 1-1 through 1-8). The Town of Saugerties purchased the property from Mr. Charles Keefe in 1969 for the sole purpose of operating a landfill. The site opened in 1970. Only refuse generated in the unincorporated part of the town is deposited at the site. The Village of Saugerties has its own facility.

The site was issued a New York State permit in March 1979 under which it was not allowed to accept hazardous industrial wastes or septic sludges. For a number of years, the site received grinding swarf and wastewater treatment sludge from Ferroxcube, a local electronics manufacturer. Approximately 750 tons of grinding swarf (components unknown), 350 tons of grinding swarf (95+ percent iron oxide with oil and water), and 55 cubic yards of wastewater treatment sludge per year were sent to the site for several years. The sludge was high in iron, zinc oxide, and manganese oxide.

There has been leachate visible at the site in the past, however, there has not been a recent leachate problem. In 1979, consulting engineers for the Town of Saugerties reported that there was no evidence of ground water within the bed of the landfill. There are two ground-water monitoring wells at the landfill. Past sampling has indicated elevated levels of iron, manganese, and zinc.

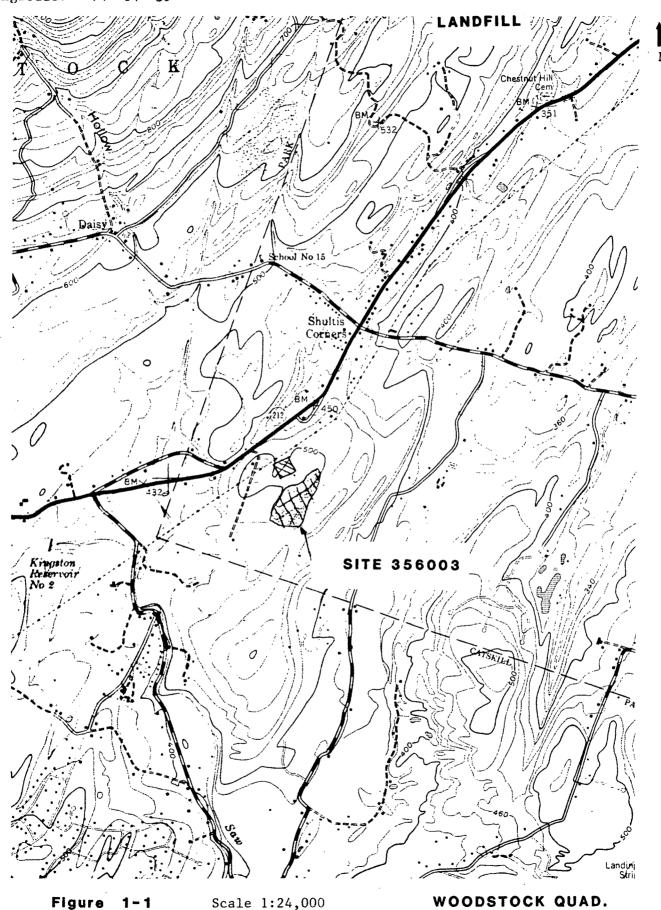
The preliminary HRS scores for this site are as follows: Migration Score (S<sub>M</sub>) = 37.93 (Ground Water Score (S<sub>GW</sub>) = 65.62, Surface Water Score (S<sub>SW</sub>) = 0, Air Score (S<sub>A</sub>) = 0); Fire and Explosion Score (S<sub>FE</sub>) = NA; Direct Contact Score (S<sub>DC</sub>) = 0. For purposes of calculating a preliminary ground-water route score, an observed release to ground water has been scored based on the available analytical data from sampling conducted at the two existing onsite wells. However, the integrity of these two wells is unknown because they are unsecured (castings not locked), as observed during EA's site inspection.

In order to prepare a final HRS score for this site, analytical data regarding the Hazardous Substance List (HSL) quality of the ground water, surface water, and sediment will be necessary, thus requiring performance of a Phase II investigation. The proposed Phase II study would include a geophysical study, the installation and testing of six observation wells, and the collection and analysis of ground-water, surface water, and sediment samples. The estimated cost of the Phase II investigation is \$69,500.

### Site Coordinates:

Latitude: 42° 02' 30" Longitude: 74° 04' 30"

### TOWN OF SAUGERTIES



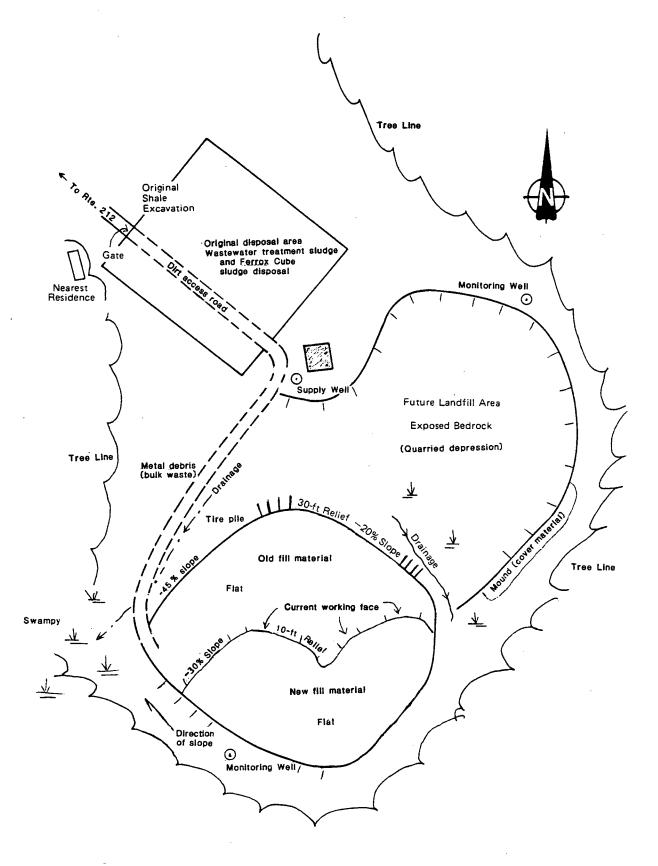
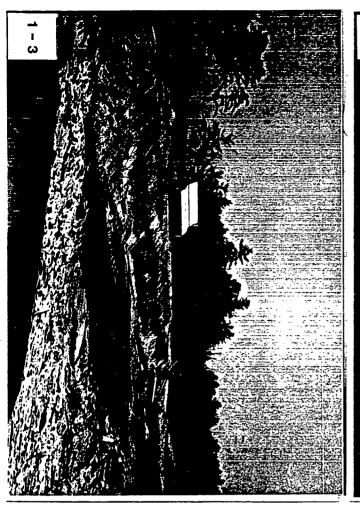
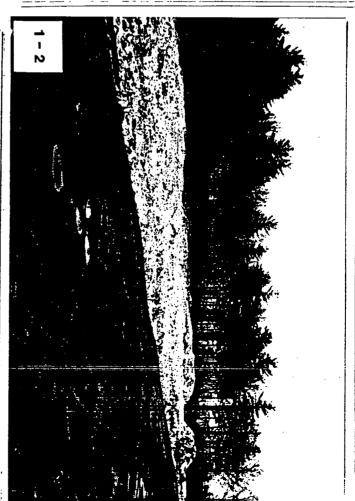


Figure 1-2. Site sketch. Town of Saugerties Landfill, 23 April 1986. (Not to scale.)





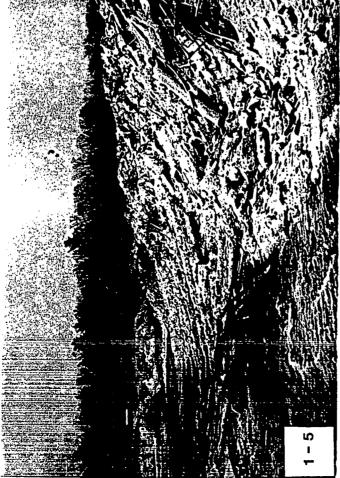


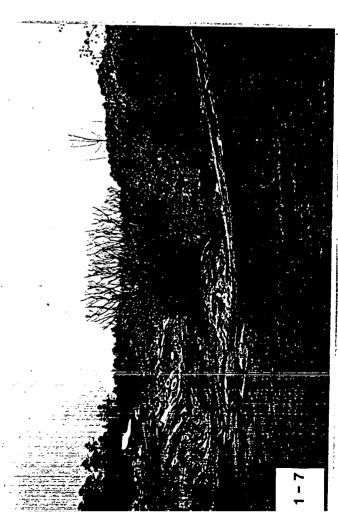


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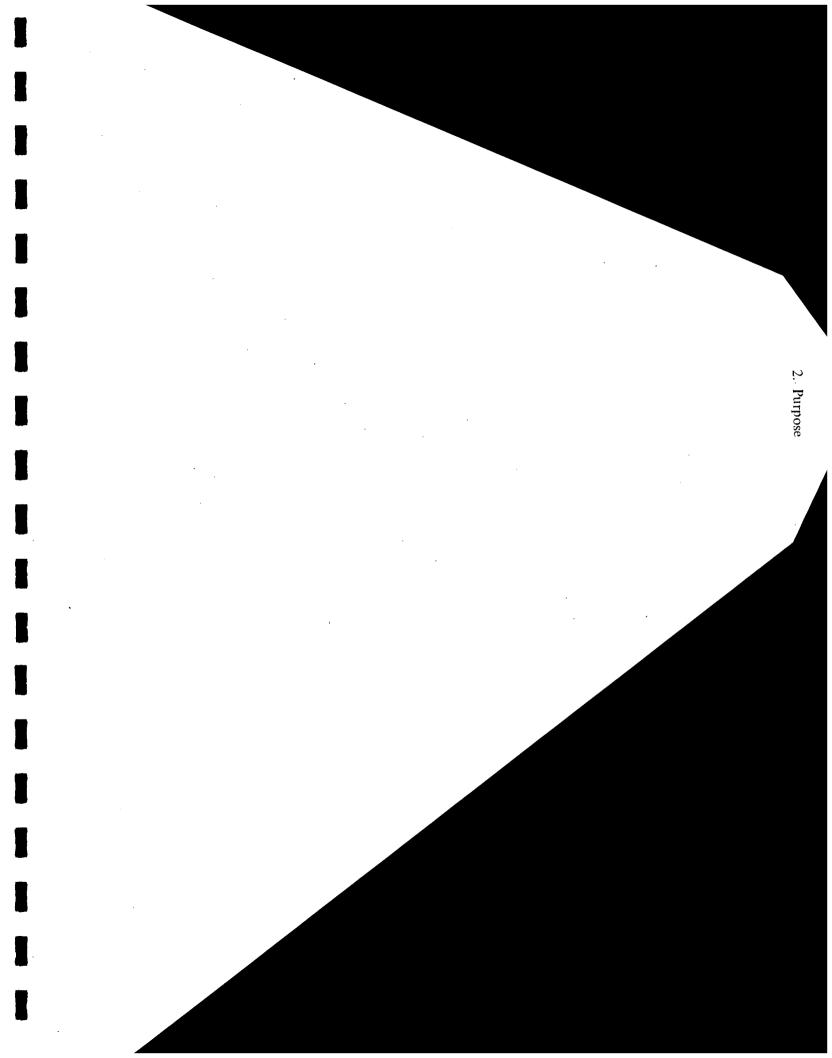






### PHOTO LOG - TOWN OF SAUGERTIES LANDFILL

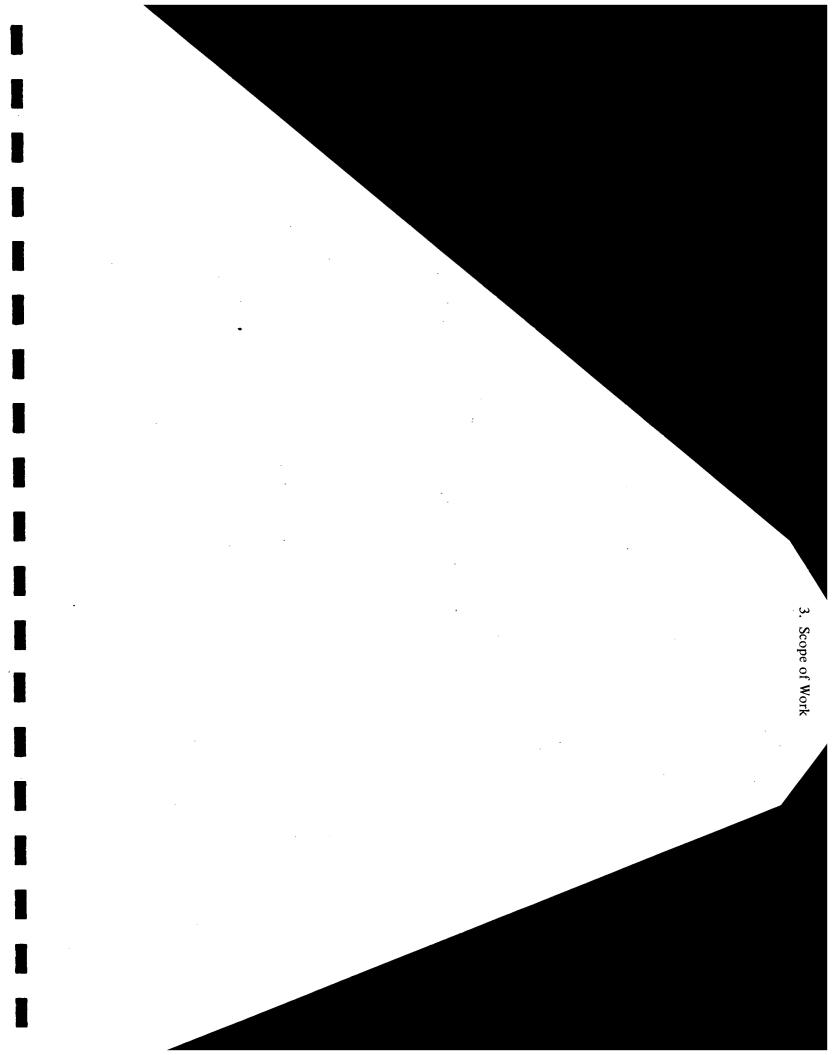
<u>Photo</u>	Description				
1-1	The entrance of the landfill is locked at night but provides no limit to pedestrial access. The nearest residence is seen in the right of the photo, and the original dump site is left of the gate.				
1-2	Facing southeast, this is the original dump site, just south of the entrance gate. Currently this area accepts treated sludge.				
1-3, 1-4	Facing north, this is the office building at the landfill, the from part of which is used as a kennel. The excavated area just right and in front of the building is part of the original shale mining operation. This area is all exposed bedrock and full of water. The Town of Saugerties plans to use the area in the next phase of the landfilling operation.				
1-5, 1-6	Facing east, these next two photos depict the northern edge of "cell two" of the landfill. Surface water flows right along this edge from which leachate was reportedly observed emanating. During the EA site inspection the surface water was a reddish color, but believed to be stained from the rock and clay, and not leachate.				
1-7	This is the southwestern edge of the landfill, where the Town has established a huge tire pile. Surface water flows southerly past these tires, and is also red in color.				
1-8	This is an eastward view of the active cell of the landfill. When this cell is completed, the Town intends to begin filling the shale pit.				



### 2. PURPOSE

The Town of Saugerties Landfill site was listed in the New York State Registry of Inactive Hazardous Wastes Sites because it received various industrial wastes including grinding sludge and wastewater treatment sludge from Ferroxcube.

The goal of the Phase I investigation of this site was to: (1) obtain available records on the site history from state, federal, county, and local agencies; (2) obtain information on site topography, geology, local surface water and ground-water use, previous contamination assessments, and local demographics; (3) interview site owners, operators, and other groups or individuals knowledgeable of site operations; (4) conduct a site inspection to observe current conditions; and (5) prepare a Phase I report. The Phase I report includes a preliminary Hazard Ranking Score (HRS), an assessment of the available information, and a recommended work plan for Phase II studies.



### 3. SCOPE OF WORK

The Phase I investigation of the Town of Saugerties Landfill site involved a site inspection by EA Science and Technology, as well as record searches and interviews. The following agencies or individuals were contacted:

### Contact

### Information Received

Mrs. Gloria Schovel Town Supervisor Town Hall Main Street Saugerties, New York 12477 (914) 246-2809

Site history

Mr. Ramanand Pergadia, P.E. Senior Sanitary Engineer New York State Department of Environmental Conservation 21 South Putt Corners Road New Paltz, New York 12561 (914) 255-5453 Interview; in-place
toxics file

Mr. Dean Palen, P.E.
Director of Environmental Health
Ulster County Health Department
300 Flatbush Avenue
Kingston, New York 12401
(914) 338-8443

Site file

Mr. Kevin Walter, P.E.

New York State Department of
Environmental Conservation

Division of Hazardous Waste Enforcement
50 Wolf Road

Albany, New York 12233-0001

(518) 457-4346

No file/information

Mr. John Iannotti, P.E.
New York State Department of
Environmental Conservation
Bureau of Remedial Action
50 Wolf Road
Albany, New York 12233-0001
(518) 457-5637

No file/information

### Contact

Mr. Barl Barcomb, P.B.
New York State Department of
Environmental Conservation
Landfill Operations
Vatrano Road
Albany, New York 12205
(518) 457-2051

Information Received

Site file

Mr. Peter Skinner, P.E. New York State Attorney General's Office Room 221 Justice Building Albany, New York 12224

(518) 474-2432

No file/information

Mr. Ron Tramontano/Mr. Charlie Hudson New York State Department of Health Bureau of Toxic Substances Assessment Nelson A. Rockefeller Empire State Plaza Corning Tower Building, Room 342 Albany, New York 12237 (518) 473-8427 Site file

Mr. James Covey, P.E.
New York State Department of Health
Nelson A. Rockefeller Empire State Plaza
Corning Tower Building
Albany, New York 12237
(518) 473-4637

Community Water Supply Atlas

Mr. Rocky Paggione, Atty./
Mr. Louis A. Evans, Atty.
New York State Department of
Environmental Conservation
Division of Environmental Enforcement
202 Mamaroneck Avenue
White Plains, New York 10601-5381
(914) 761-6660

No file/information

Mr. Marsden Chen, P.E.
New York State Department of
Environmental Conservation
Bureau of Site Control
50 Wolf Road
Albany, New York 12233-0001
(518) 457-0639

Site file

### Contact

Mr. John W. Ozard
Senior Wildlife Biologist
New York State Department of
Environmental Conservation
Wildlife Resources Center
Significant Habitat Unit
Delmar, New York 12054
(518) 439-7486

Mr. Perry Katz
U.S. Environmental Protection Agency
Region II
Room 757
26 Federal Plaza
New York, New York 10278
(212) 264-4595

Mr. George A. Sisco District Conservationist Ulster SWCD 380 Washington Avenue UPO Box 97 Kingston, New York 12401

Mr. Wayne Elliot
Regional Fisheries Manager
New York State Department
of Environmental Conservation
Region 3
21 South Putt Corners Road
New Paltz, New York
(914) 255-5453

Mr. Walter Myer Ulster County Department of Health 300 Flatbush Avenue Kingston, New York 12401 (914) 338-8443

### Information Received

Significant habitats

Site file

Irrigation and agricultural land

Surface water use

Water district boundaries

### 4. SITE ASSESSMENT - TOWN OF SAUGERTIES LANDFILL

### 4.1 SITE HISTORY

The Town of Saugerties Landfill site is a 15-acre municipal active landfill located on Route 212, south of Shultis Corners, in the Town of Saugerties, Ulster County, New York. The 15-acre landfill is part of a 44-acre plot which the Town of Saugerties purchased from Mr. Charles Keefe in 1969 for the sole purpose of operating a landfill when the neighboring Town of Woodstock ceased to accept its garbage (Appendix 1.1-1). The site opened in 1970. Only refuse generated in the unincorporated part of the Town is deposited at the site. The Village of Saugerties has its own facility (Appendix 1.1-2).

Initially, refuse was disposed in three trenches excavated by the Town situated in the northern portion of the property. These trenches are seeded, and the Town currently uses the area to dump sludge from the Village sewage treatment plant (Appendix 1.1-1).

After the original trenches were filled in, the Town began landfilling refuse in the southern section of the landfill. The Town has historically employed the "cell method" of refuse disposal, with provisions for separate collection of steel, aluminum, tin, paper, and glass (Appendixes 1.1-1 and 1.1-3). The cells have been formed by placing layers of new refuse over compacted waste material. The Town is currently working in the third cell at the landfill which overlies the second cell which in turn overlies the first cell. The exact depth of deposited materials is unknown, but present Town employees

estimate that the first cell is 30-40 ft below the ground surface. To prepare for future expansion, the Town reportedly sold shale, mined from the site, to a private contractor (Appendixes 1.1-1 through 1.1-4). Today, shale is excavated by the Town and used as cover material on the landfill (Appendix 1.1-1).

The site was issued a New York State permit (Part 360) in March 1979 under which it was not allowed to accept hazardous industrial wastes or septic sludges (Appendix 1.1-5). For a number of years, the site received grinding swarf and wastewater treatment sludge from Ferroxcube, a local electronics manufacturer. In 1976, it was reported that the site had received approximately 750 tons of grinding swarf (components unknown), 350 tons of grinding swarf (95+ percent iron oxide with oil and water), and 55 cubic yards of wastewater treatment sludge per year for several years. The sludge was high in iron oxide, zinc oxide, and manganese oxide (Appendixes 1.1-6 through 1.1-8). During EA's site inspection, it was pointed out that Ferroxcube wastes are placed in the same general area of the site that served as the original disposal area.

There has been leachate visible at the site in the past, however, there has not been a recent leachate problem (Appendixes 1.1-1, 1.1-2, 1.1-9, and 1.1-10). In 1978, consulting engineers for the Town of Saugerties reported that there was no evidence of ground water within the bed of the landfill (Appendix 1.1-4). There are two ground-water monitoring wells at the landfill, and analysis of the ground water has shown elevated levels of various metals and phenol (Appendixes 1.1-1, 1.1-11, and 1.1-12). These monitoring wells are not secured (EA Site Inspection, 23 April 1986).

### 4.2 SITE TOPOGRAPHY

The Town of Saugerties Landfill site is located on Route 212, south of Shultis Corners, in Ulster County, at an elevation of approximately 480 ft above mean sea level. Large areas of the landfill have a slope of 1-3 percent, however, working faces of the landfill have slopes ranging from 20 to 45 percent. Two drainage ditches to the north and west of the landfill divert runoff away from the landfill operation. The surface runoff follows the ditchline which runs to the southwest. Regional slope of terrain in the immediate vicinity is to the south-southwest at <1 percent (Appendix 1.2-1, EA Site Inspection).

An office/garage is located in the northern part of the site. The current working area is located in the southern section which includes a tire pile located along the southwest edge. Shale is mined for use at the landfill from the northeast area where future landfilling is expected to occur. In the northeastern part of the site, various materials such as glass, paper, and tin are collected and stored in bins (Appendix 1.1-1). There is a gate at the entrance of the landfill, but the property is not entirely fenced and pedestrian access is not restricted.

The site is located in a rural area with low to medium density residential areas in the surrounding vicinity. The nearest residence is located outside the operation's gate, adjacent to the original dump area. The nearest commercial operation is located approximately 250 ft west of the original dump area. The nearest surface water is a tributary of the Saw Kill and is located approximately 1,000 ft to the south of the southernmost edge of the landfill. The nearest ground-water well is located on the landfill property at the

office/garage approximately 200 ft southeast of the original dump area. This well provides drinking water to the office/garage (Appendix 1.2-1, EA Site Inspection).

### 4.3 SITE HYDROGEOLOGY

The site is directly underlain by a thin layer of glacial till overlying layered shale and sandstone of the Middle Devonian Age Plattekill and Ashokan Formations (Appendixes 1.3-1 and 1.3-2). Shale is being excavated at the Town of Saugerties landfill to a depth of ≤20 ft. Brenner and Rossi, consulting engineers for the Town, report approximately 1 ft of overburden overlies the shale (Appendix 1.1-5). Therefore, there is a good potential that landfilled material was deposited directly on bedrock. Within a 3-mi radius of concern, the bedrock aquifer has been developed by the Hudson Valley Water Company No. 4, Trnka Farms Mobile Home Park, and private water supply sources (Appendixes 1.3-3 and 1.3-4). Because the overburden is absent or too thin to supply sufficient quantities of water, the shale and sandstone aquifer is considered the aquifer of concern. The reported depth to ground water in a drinking water well at the Town of Saugerties landfill is 20 ft (Appendix 1.1-5). During the EA site inspection, depth to water in the southern monitoring well was measured at 4 ft below grade.

### 4.4 SITE CONTAMINATION

### Waste Types and Ouantities

The Town of Saugerties landfill is a municipal landfill opened in 1970, which accepted industrial waste from Ferroxcube, a local electronics manufacturer, in addition to typical municipal refuse. There are no records of the total volume of waste received over the years, however, there are estimates of total industrial wastes received annually from Ferroxcube.

The site reportedly received approximately 750 tons of grinding swarf (components unknown), 350 tons of grinding swarf (95+ percent iron oxide with oil and water), and 55 cubic yards of wastewater treatment sludge per year for several years. This sludge was high in iron, zinc oxide, and manganese oxide (Appendixes 1.1-6 through 1.1-8).

### Ground Water

There are two ground-water monitoring wells at the site (Figure 1-2). The "southern" well is located to the south of the newer landfill area and is considered downgradient of the site. The "northern" well is located to the north of the future landfill area and to the east of the original disposal area. This northern well is probably reflective of ambient ground-water conditions relative to the newer landfill area, but it is unknown how it relates to the original disposal area. Any localized ground-water movement in the vicinity of the original disposal area may place the northern well downgradient of the original disposal area.

Analytical data from ground-water sampling conducted in February 1985 indicated levels of iron (35 mg/liter), manganese (15 mg/liter), sodium (320 mg/liter), zinc (1.5 mg/liter), arsenic (4.2 mg/liter), and phenol (0.010 mg/liter) in the southern monitoring well. During the same sampling event, iron (12 mg/liter), manganese (0.95 mg/liter), sodium (12 mg/liter), and zinc (0.11 mg/liter) were detected in the northern monitoring well. Arsenic and phenol were not detected in the northern well. Analytical data from ground-water sampling conducted in March 1982 indicated higher levels of iron (0.7 mg/liter), manganese (7.3 mg/liter), and strontium (0.4 mg/liter) in the southern monitoring well when compared to levels detected in the northern monitoring well (0.7 mg/liter, and 0.4 mg/liter, respectively) (Appendix 1.1-11).

May 1979 analytical data indicated higher levels of iron (8.3 mg/liter) and manganese (6.0 mg/liter) in the "downgradient" sample as compared to the "upgradient" sample (0.76 mg/liter and 0.18 mg/liter, respectively) (Appendix 1.1-12).

### Surface Water

No data available.

### Soil

No data available.

### Air

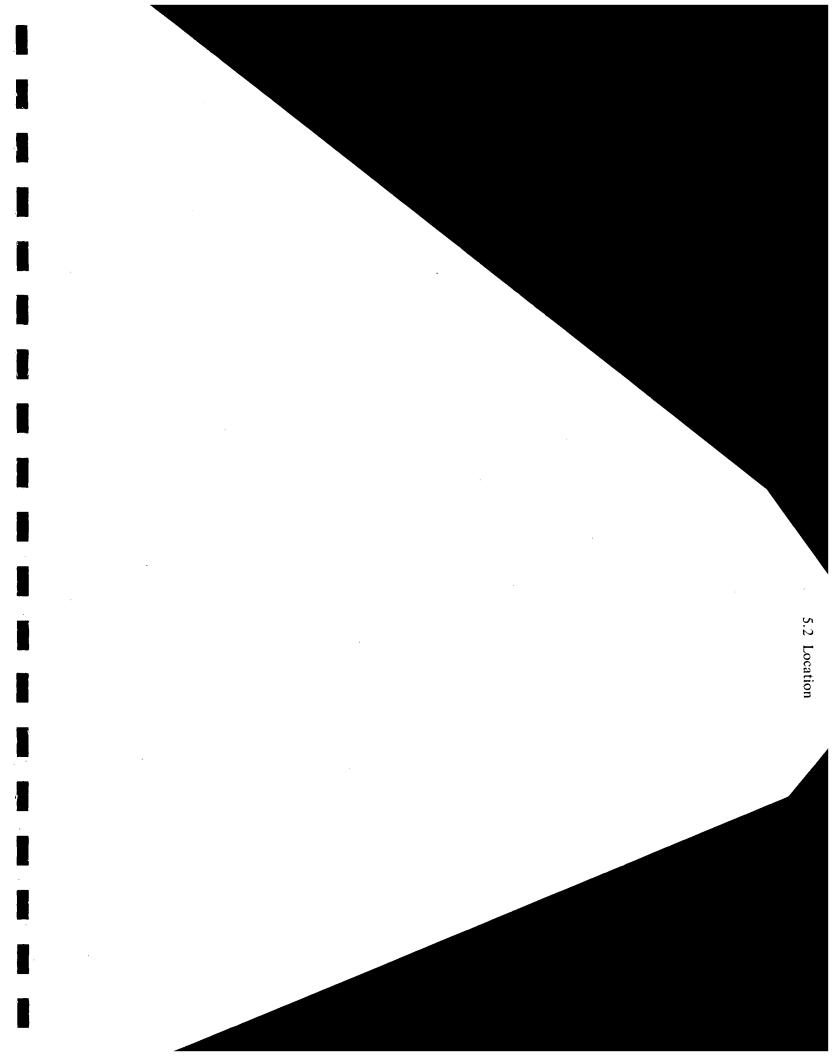
No data available.

### TOWN OF SAUGERTIES LANDFILL TOWN OF SAUGERTIES, ULSTER COUNTY

The Town of Saugerties Landfill site is a 15-acre active municipal landfill located on Route 212, south of Shultis Corners, in the Town of Saugerties, Ulster County, New York. The Town of Saugerties purchased the property from Mr. Charles Keefe in 1969 for the sole purpose of operating a landfill. The site, previously a shale mining operation, opened in 1970. The Town employs the "cell method" of refuse disposal with provisions for separate collection of steel, aluminum, tin, paper, and glass.

The landfill reportedly received approximately 750 tons of grinding swarf (components unknown), 350 tons of grinding swarf (95+ percent iron with oil and water), and 55 cubic yards of wastewater treatment sludge per year for several years from Ferroxcube, a local electronics manufacturer. The sludge was high in iron, zinc oxide, and manganese oxide.

There are two ground-water monitoring wells at the landfill. Past sampling has indicated elevated levels of various metals and phenol.



Site Coordinates: Latitude: 42° 02' 30" Longitude: 74° 04' 30" TOWN OF SAUGERTIES Kingston Heservoir No 2 SITE 356003

Scale 1:24,000

WOODSTOCK QUAD.

Facility name: Town of Sauge	erties Landfill					
Location Town of Saugerties, Ulster County						
EPA Region:						
Person(s) in charge of the facility:	Mrs. Gloria Schovel (Town Supervisor)					
_	Town Hall, Main Street					
	Saugerties, New York 12477					
Name of Reviewer: EA Science	ce and Technology Date: 29 October 1986					
General description of the facility: (For example: landfill, surface impli- facility; contamination route of major	oundment, pile, container; types of hazardous substances; location of the or concern; types of information needed for rating; agency action, etc.)					
The site is a 15-acre	e active municipal landfill on Route 212, south					
of Shultis Corners.	The landfill received grinding swarf (components					
unknown), grinding swa	arf (95 percent iron oxide with oil and water).					
and wastewater treatme	ent sludge from a local electronics manufacturer.					
The sludge was high i	n iron, zinc oxide, and manganese oxide. Two					
observation wells were installed onsite. The downgradient well was						
found to contain various metals and phenol.						
Scores: S <sub>M</sub> = 37.9 (S <sub>gw</sub> = 65.62 S <sub>sw</sub> = 0 S <sub>a</sub> = 0)						
$S_{FE} = N/A$	Maximum S <sub>M</sub> = 46.25					
<b>S</b> <sub>DC</sub> = 0						

FIGURE 1 HRS COVER SHEET

Ground Water Route Work Shee!							
	Rating Factor		Assigned Value -Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Release		0 (45)	1	45	45	3.1
	If observed releas	e is given e is given	a score of 45, proceed to line 4. a score of 0, proceed to line 2.				
2	Route Characteris Depth to Aquifer		0 1 2 3	2		6	3.2
	Net Precipitation Permeability of t	he .	0 1 2 3 0 1 2 3	1		3 3	
	Unsaturated Zo Physical State	ne 	0 1 2 3	1		3	
			Total Route Characteristics Score			-15	
3	Containment	<u> </u>	0 1 2 3	1		3	3.3
4	Waste Characteris Toxicity/Persiste Hazardous Wast Quantity	ence	0 3 6 9 12 15 18 0 1 2 3 4 3 6 7 8	1	18 5	18 8	3.4
			Total Waste Characteristics Score		23	<b>2</b> 6	
5	Targets Ground Water U Distance to Nea Well/Populatio Served	res:	0 1 2 3 0 4 6 8 10 12 16 18 20 24 30 32 35 40	3	. 9 35	9 40	3.5
			Total Targets Score		44	49	
<b>E</b>	If line 1 is 45. If line 1 is 0. f	multiply multiply	1 x 4 x 5 2 x 3 x 4 x 5	•	45,540	<b>57,33</b> 0	
7	Divide line 6 b	y <b>5</b> 7, <b>33</b> 0 a	and multiply by 100	Sgw-	79.43	3	

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Surface Water Route Work Sheet						]
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max Score	Ref. (Section)	Maximum Possible
Observed Releas	e (0) 45	1	0	45	4.1	45
•	se is given a value of 45, proceed to line 4. se is given a value of 0, proceed to line 2.					
2 Route Characteris Facility Slope a		1	0	3	4.2	
Terrain 1-yr, 24-hr, Rain Distance to Nea Water	ntal! 0 1 2 3 arest Surface 0 1 2 3	1 2	2 4	3 6		
Physical State	0 1 2 3	1	3	3		
	Total Route Characteristics Score		9	15		
3 Containment	0 1 2 3	1	0	3	4.3	
Waste Characteris Toxicity/Persist Hazardous Wast Ouantity	ence 0 3 6 9 12 15 18	1	0 0	18 8	4.4	
	Total Waste Characteristics Score		0	26		23
5 Targets	0 -				4.5	
Surface Water L Distance to a Se	:0	3 2	6 0	9 6	l	
Environment Population Servi to Water Intake Downstream	ed/Distance ) (0 4 6 8 10	1	0	40		
	Total Targets Score		6	55		6
	multiply 1 x 4 x 5 multiply 2 x 3 x 4 x 5		0	64,350		6,210
7 Divide line 6 b	by 64,350 and multiply by 100	S <sub>sw</sub> =	0			9.65

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

Air Route Work Shee!								
	Rating Factor		Assigned Value (Circle One)			iti- e- Scor	e Max Score	Ref. Section)
0	Observed Release		0	45	1	0	45	5.1
	Date and Location							
	Sampling Protocol							
	If line 1 is 0, to 1 is 45.	he S <sub>a</sub> = then pro	0. Enter on line ceed to line 2	5				
2	Waste Characteris Reactivity and	tics	0 1 2	3	1		3	5.2
	Incompatibility Toxicity Hazardous Waste Quantity		0 1 2 0 1 2	3 4 5 6	3 7 8 1		9 · 8	
			Total Waste Ch	aracteristics Sco	ore		20	
3	Targets Population Within 4-Mile Radius		) 0 9 12 } 21 24 27	30	1		30	5.3
	Distance to Sens Environment Land Use	itive	0 1 2		1		3	
			Tota: Ta	rgets Score			39	
4	Multiply 1 x	2 x 3					35.100	
5	5 Divide line 4 by 35.100 and multiply by 100 Sa = 0							

FIGURE 9 AIR ROUTE WORK SHEET

	s	s²
Groundwater Route Score (Sgw.)	79.43	6,309.12
Surface Water Route Score (S <sub>SW</sub> )	0	0
Air Route Score (Sa)	0	0
$s_{gw}^2 + s_{sw}^2 + s_a^2$		6,309.12
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_{a}^2}$		79.43
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		45.91

FIGURE 10 WORKSHEET FOR COMPUTING S<sub>M</sub>

Maximum  $S_M = 46.25$ 

			Fire a	nđ	Exp	plos	sior	W	ork.	Sheet				
	Rating Factor Assigned Value Multi- Clircle One) pher					Score	Max Score	Ref. (Section)						
<u>-</u>	Containment		1 3 1					1		3	7.1			
2	Waste Characteris' Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity			1	2	3	4	5	6	7 8	1 1 1 1		3 3 3 8	7.2
		•	Total Wa	ste	Cha	rac	teri	stic	s S	core			20	
3	Targets Distance to Neard Population Distance to Neard Building Distance to Sense Environment Land Use Population Within 2-Mile Radius Buildings Within 2-Mile Radius	est	0 0 0	1 1 1 1	2 2 2 2 2	3 3 3 3	4	5			1 1 1 1 1		5 3 3 5 5	7.3
4	Multiply 1 x 2	) × 3	Tc	otai	Tar	gets	s <b>S</b> (	ore	·				1,440	
5	Divide line 4 b	y <b>1,440 a</b> n	d multipl	y b	y 10	ю					SFE -	N/A		

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

	Direct Contact Work Sheet								
	Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max Score	Ref. (Section)			
Image: control of the	Observed Incident	<b>(6)</b> 45	1	0	45	8.1			
	If line 1 is 45, proceed to the line 1 is 0, proceed to								
2	Accessibility	0 1 2 3	1	3	3	8.2			
3	Containment	<b>0</b> 15	1	0	15	8.3			
4	Waste Characteristics Toxicity	① 1 2 3	5	0	15	8.4			
[5]	Targets Population Within a 1-Mile Radius Distance to a Critical Habitat	0 1 2 3 4 5	4	8	<b>2</b> 0 <b>12</b>	8.5			
		Total Targets Score		· 8	32				
6	If line 1 is 45, multiply If line 1 is 0, multiply	1 x 4 x 5 2 x 3 x 4 x 5		0.	21.600				
7	Divide line 6 by 21,600	and multiply by 100	s <sub>DC</sub> =	0					

FIGURE 12 DIRECT CONTACT WORK SHEET

# DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: As briefly as possible, summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference. Include the location of the document.

FACILITY NAME: Town of Saugerties Landfill
LOCATION:
DATE SCORED: 29 October 1986
PERSON SCORING: <u>EA Science and Technology</u>
PRIMARY SOURCES(S) OF INFORMATION (e.g., EPA region, state, FIT, etc.)
Ulster County Department of Health
NYSDEC Region 3 G. Schovel, Town Supervisor (Saugerties)
EA Site Inspection
FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION:
Air Route

An observed release to ground-water has been scored based on analytical data (parameters include iron, manganese, and zinc) from two existing onsite monitoring wells. The integrity of these existing wells is unknown because they are unsecured (casings not locked), as observed during EA's site inspection.

Surface water route scored on the basis that the landfill is adequately covered.

The local fire marshal does not consider the site to be an imminent fire or explosion threat.

Direct contact scored on the basis that the landfill is adequately covered.

#### GROUND WATER ROUTE

#### 1 OBSERVED RELEASE

Contaminants detected (5 maximum):

Manganese, zinc, and iron.

Reference: 1.

Rationale for attributing the contaminants to the facility:

Analytical data from ground-water sampling conducted in February 1985 indicated levels of manganese (15 mg/liter) and zinc (1.5 mg/liter) in the southern (downgradient) monitoring well as compared to levels of 0.95 mg/liter and 0.11 mg/liter, respectively, in the northern (upgradient) monitoring well. In March 1982, manganese was detected at a concentration of 7.3 mg/liter in the southern monitoring well, while it was not detected in the northern well. In May 1979, concentrations of iron and manganese were reported to be 8.3 mg/liter and 6.2 mg/liter, respectively, in the "downgradient" well, as compared to concentrations of 0.76 mg/liter and 0.18 mg/liter, respectively, in the "upgradient" well.

Assigned value = 45.

References: 1 and 2.

\*\*\*

#### 2 ROUTE CHARACTERISTICS

#### Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

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

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

Net Precipitation
Mean annual or seasonal precipitation (list months for seasonal):
Mean annual lake or seasonal evaporation (list months for seasonal):
Net precipitation (subtract the above figures):
Permeability of Unsaturated Zone
Soil type in unsaturated zone:
Permeability associated with soil type:
Physical State
Physical state of substances at time of disposal (or at present time for generated gases):
***
2 CONTAINMENT

Method(s) of waste or leachate containment evaluated:

Containment

Landfill.

#### Method with highest score:

No liner or leachate collection system.

Assigned value = 3.

Reference: 2.

#### 4 WASTE CHARACTERISTICS

#### Toxicity and Persistence

Compound(s) evaluated:

Iron oxide, iron, zinc oxide, manganese oxide, manganese, and zinc.

References: 1, 3, and 4.

Compound with highest score:

Iron.

Assigned value = 18.

References: 2 and 5.

#### 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):

Quantity assumed to be at least 350 tons.

Basis of estimating and/or computing waste quantity:

The site reportedly received 750 tons of grinding swarf (components unknown), 350 tons of grinding swarf (95 percent iron with oil and water), and 55 cu yds of wastewater treatment sludge per year for several years.

References: 3 and 4.

Assigned value = 5.

Reference: 2.

\*\*\*

#### 5 TARGETS

#### Ground Water Use

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

Drinking water, no alternate supply available.

Reference: 6, 7, and 8.

Assigned value = 3.

Reference: 2.

#### Distance to Nearest Well

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

Onsite well located at the garage/office.

References: 9 and 10.

Distance to above well or building:

Approximately 200 ft southeast of the old dump area, and approximately 1,000 ft north of the most distant edge of the landfill.

Reference: 11.

Assigned value = 4.

Reference: 2.

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

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

Supplies	Population:
Hudson Valley Water Company No. 4 Trnka Farms Mobile Home Park	350 138
Private wells (1,059 wells x 3.8)	4.024
	4,511

References: 7, 8, 11, and 12.

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

Although there is agricultural land within 3 mi of the site, none of it is irrigated.

Reference: 13.

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

Assigned value = 4.

Reference: 2.

#### SURFACE WATER ROUTE

#### 1 OBSERVED RELEASE

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

No data available.

Assigned value = 0.

Reference: 2.

Rationale for attributing the contaminants to the facility:

\*\*\*

#### 2 ROUTE CHARACTERISTICS

#### Facility Slope and Intervening Terrain

Average slope of facility in percent:

Average slope is 13 percent. Estimated with Suunto clinometer.

Reference: 14.

Name/description of nearest downslope surface water:

Saw Kill.

Reference: 14.

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

Average slope is <1 percent. Estimated with Suunto clinometer and from topographic maps.

References: 11 and 14.

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

No.

Reference: 11.

Is the facility completely surrounded by areas of higher elevation?

No.

References: 11 and 14.

Assigned value = 0.

Reference: 2.

#### 1-Year, 24-Hour Rainfall in Inches

2.5 in.

Assigned value = 2.

Reference: 2.

#### Distance to Nearest Downslope Surface Water

Approximately 2,000 ft (measured from northernmost edge of landfill).

References: 11 and 14

Assigned value = 2.

Reference: 2.

#### Physical State of Waste

Sludge and solid: grinding swarfs and wastewater treatment sludge.

References: 4 and 5.

Assigned value = 3.

Reference: 2.

\*\*\*

#### 3 CONTAINMENT

#### Containment

his e

Method(s) of waste or leachate containment evaluated:

Completed portions of the landfill appeared to be adequately covered.

Reference: 14.

Method with highest score:

Landfill appears to have adequate cover.

Assigned value = 0.

Reference: 2.

\*\*\*

#### 4 WASTE CHARACTERISTICS

Containment score = 0, therefore, waste characteristics are not scored.

Reference: 2.

#### Toxicity and Persistence

Compound(s) evaluated

Compound with highest score:

#### Hazardous Waste Ouantity

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

Basis of estimating and/or computing waste quantity:

\*\*\*

#### 5 TARGETS

#### Surface Water Use

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

Recreational.

Reference: 15.

Assigned value = 2.

Reference: 2.

Is there tidal influence?

No.

Reference: 11.

#### Distance to a Sensitive Environment

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

None.

Reference: 11.

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

None.

1 2: 1

Reference: 11.

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

None.

Reference: 16.

Assigned value = 0.

Reference: 2.

#### Population Served by Surface Water

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

None.

References: 7, 8, and 13.

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

None. No land is irrigated within 3 mi of the site.

References: 7, 8, and 13.

Total population served:

Zero.

References: 7, 8, and 13.

Name/description of nearest of above waterbodies:

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

#### AIR ROUTE

#### 1 OBSERVED RELEASE

Contaminants detected:

No data available.

Reference: Chapter 3.

Assigned value = 0.

Reference: 2.

Date and location of detection of contaminants

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

\*\*\*

#### 2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Most incompatible pair of compounds:

# Toxicity Most toxic compound: Hazardous Waste Quantity Total quantity of hazardous waste: Basis of estimating and/or computing waste quantity: 3 TARGETS Population Within 4-Mile Radius Circle radius used, give population, and indicate how determined: 0 to 1/2 mi 0 to 1/4 mi 0 to 4 mi 0 to 1 mi Distance to a Sensitive Environment Distance to 5-acre (minimum) coastal wetland, if 2 miles or less: Distance to 5-acre (minimum) freshwater wetland, if 1 mile or less:

#### Land Use

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

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

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

Distance to residential area, if 2 miles or less:

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

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

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

#### FIRE AND EXPLOSION

The local fire marshal has not certified that the site presents a significant fire or explosion threat (Reference: 17). There are no analytical data available in any of the agency files examined (Chapter 3).

#### 1 CONTAINMENT

Hazardous substances present:

Type of containment, if applicable:

\*\*\*

#### 2 WASTE CHARACTERISTICS

#### Direct Evidence

Type of instrument and measurements:

#### **Ignitability**

Compound used:

#### Reactivity

Most reactive compound:

### Incompatibility

Most incompatible pair of compounds:

\*\*\*

#### Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

Basis of estimating and/or computing waste quantity:
***
2 MAD CRIMO
3 TARGETS  Distance to Nearest Population
Distance to Nearest Building
Distance to Sensitive Environment
Distance to wetlands:
Distance to critical habitat:
Land Use
Distance to commercial/industrial area, if 1 mile or less:
Distance to national or state name forcet or wildlife resorms if?
Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

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

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

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

Population Within 2-Mile Radius

Buildings Within 2-Mile Radius

#### DIRECT CONTACT

#### 1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

No observed incident on record.

Reference: Chapter 3.

Assigned value = 0.

Reference: 2.

\*\*\*

#### 2 ACCESSIBILITY

Describe type of barrier(s):

Barriers do not completely surround the facility.

Reference: 14.

Assigned value = 3.

Reference: 2.

\*\*\*

#### 3 CONTAINMENT

Type of containment, if applicable:

Landfill is adequately covered.

Reference: 14.

Assigned value = 0.

Reference: 2.

\*\*\*

#### 4 WASTE CHARACTERISTICS

Containment score = 0, therefore, waste characteristics are not scored.

Reference: 2.

#### Toxicity

Compounds evaluated:

Compound with highest score:

#### 5 TARGETS

### Population Within 1-Mile Radius

597 (157 houses x 3.8).

Reference: 11.

Assigned value = 2.

Reference: 2.

### Distance to Critical Habitat (of Endangered Species)

None within 1 mi.

Reference: 16.

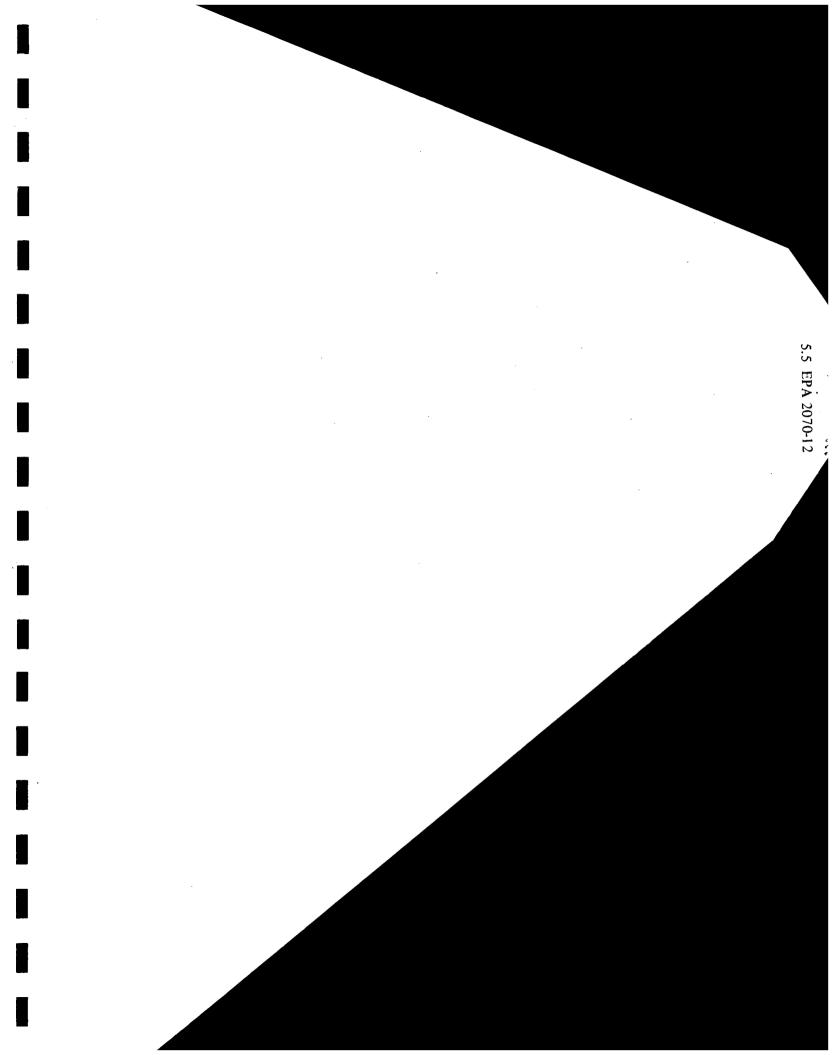
Assigned value = 0.

Reference: 2.

#### REFERENCES

- Analytical data for ground-water monitoring wells located at the Town of Saugerties Landfill. (Appendixes 1.1-11 and 1.1-12.)
- 2. U.S. Environmental Protection Agency. 1984. Uncontrolled Hazardous Waste Site Ranking System. A Users Manual. (HW-10). Originally published in the July 16, 1982 <u>Federal Register</u>.
- 3. New York State Department of Environmental Conservation (NYSDEC).

  Hazardous Waste Disposal Sites Report. (Appendix 1.1-6.)
- 4. NYSDEC. 1980. Hazardous Waste Disposal Sites Report. 25 March. (Appendix 1.1-7.)
- 5. Sax, N. Irving. 1979. Dangerous Properties of Industrial Materials. Van Nostrand Reinhold Company, New York.
- 6. Frimpter, M. 1970. Ground Water Basic Orange and Ulster Counties, New York. New York Water Resources Commission. (Appendix 1.3-3.)
- 7. New York State Department of Health (NYSDOH). 1982. New York State Atlas of Community Water System Sources.
- 8. NYSDOH. 1982. New York State Atlas of Community Water System Sources. (Appendix 1.3-4.)
- 9. Town of Saugerties Landfill Report. (Appendix 1.1-3).
- 10. Letter dated 29 May 1978 from A. Rossi, Consulting Engineer, to D. Palen, Ulster County Department of Health, regarding Town of Saugerties Landfill. (Appendix 1.1-4.)
- 11. USGS. 1980 photorevised. 7.5-Minute Topographic Series: Woodstock Quad. (Appendix 1.2-1.)
- 12. Myer, W. 1986. Ulster County Department of Health. Personal Communication. 6 November. (Appendix 1.5-1.)
- 13. Sisco, G. 1986. District Conservationist. Ulster County SWCD. Personal Communication. 7 March. (Appendix 1.5-2.)
- 14. EA Site Inspection, 23 April 1986.
- 15. Elliot, W. 1986. Regional Fisheries Manager. NYSDEC Region 3. Personal Communication. 3 November. (Appendix 1.5-3.)
- 16. Ozard, J.W. 1986. Sr. Wildlife Biologist. NYSDEC Wildlife Resource Center, Significant Habitat Unit. Personal Communication. 26 February. (Appendix 1.5-4.)
- 17. Wood, J. 1986. Fire Chief. Town of Saugerties Fire Department. Personal Communication. 19 December. (Appendix 1.5-5.)



United States
Environmental Protection
Agency

Office of Emergency and Remedial Response Washington, DC 20460 EPA Form 2070-12 July, 1981

Town of Saugerties Landfill

### **S**EPA

### **Potential Hazardous Waste Site**

**Preliminary Assessment** 

# **POTENTIAL HAZARDOUS WASTE SITE**

L IDENTIFICATION 01 STATE 02 SITE NUMBER

	PRELIMINARY A SITE INFORMAT			ENT	NY I	98050576	36
II. SITE NAME AND LOCATION							
O1 SITE NAME (Legal, common, or descriptive name of are)		02 STREET	, ROUTE NO., OR	SPECIFIC LOCATION I	DENTIFIER		
Town of Saugerties Landfill	1	Route 212 (South of Shultis Corners)					
B) atr							08 CONG DIST
Town of Saugerties		NY	12477	Ulster		CODE	•
42° 02' 30 " 74° 04	4' 30 ''						
On Route 212 approximately 1 m	nile south o	of Gla	ısco Turn	pike.			:
III. RESPONSIBLE PARTIES					-		
O1 OWNER (# bnown) Town of Saugerties			( <del>Busness, meling, r</del> 1 Street	oexforuel) ·			
as any	1	04 STATE	05 ZIP CODE	06 TELEPHONE N	IUMBER		
Saugerties	1	NY	12477	(914) 246-	-2400		
07 OPERATOR (If known and different from owner)		08 STREET	(Business, mailing, re	esdence/)			
Same as owner							}
09 CITY	1	10 STATE	11 ZSP CODE	12 TELEPHONE N	IUMBER		
				( )		ļ	
13 TYPE OF OWNERSHIP (Check case)  A. PRIVATE B. FEDERAL:  F. OTHER:  (Specify)  14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)	·		_ DG. UNKN				
	☐ B. UNCONTROLLE	D WASTE	SITE ICERCIA 103	DATE RECEIVE	D: / MONTH DA	Y YEAR . C.	NONE
IV. CHARACTERIZATION OF POTENTIAL HAZARD				·			
☐ YES DATE / ☐ A.E.I	ch of that apply) PA □ B. EPA   OCAL HEALTH OFFIC NACTOR NAME(S):	IAL D	F. OTHER:	c.state g d Technolog		CONTRACTOR	
02 SITE STATUS (Check one)	03 YEARS OF OPERA						
Ø A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN	86	1969 GINNING YEA	1 .		UNKNOWN	l 	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN,	OR ALLEGED The	site	reported.	ly received	grind	ing sludg	ge,
grinding swarf (95% iron oxide from Ferroxcube, a local elect zinc oxide, and manganese oxid	ronics manu le.						
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/O	OR POPULATION						
· Potential for ground-water con	tamination.						ļ
V. PRIORITY ASSESSMENT			· · · · · · · · · · · · · · · · · · ·			······································	
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, co  A. HIGH  (Inspection required promptly)  (Inspection required)	omplete Part 2 - Waste Inform  C. LOW  (Inspect on time as		D. NONI			itan form)	
VI. INFORMATION AVAILABLE FROM							
01 CONTACT	02 OF (Agency/Organizati					03 TELEPHONE N	
Rebecca Ligotino	1		nd Techno			(914) 692-	6706
04 PERSON RESPONSIBLE FOR ASSESSMENT Thomas Porter	05 AGENCY		NIZATION EA	07 TELEPHONE		08 DATE 3/23 /	86

### **\$EPA**

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

L IDENTIFICATION

01 STATE 02 SITE NUMBER

NY D9805057636

<b>\</b>			PART 2 - WASTI	E INFORMATION			
II. WASTE ST	TATES, QUANTITIES, AN	D CHARACTERI	STICS				
O1 PHYSICAL STATES (Chock at most apply)  O2 WAS  OXA. SOLID  O E. SLURRY  O B. POWDER, FINES  O F. LIQUID  OXC. SLUDGE  O G. GAS  CUB		(Measures of must be TONS _	WASTE QUANTITY AT SITE (Messures of weste quantities) must be presented with TONS		O3 WASTE CHARACTERISTICS (Chock at their apply)    X		
III. WASTE T	YPE						
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE	$\overline{}$	1100	TN/year	for se	veral years	
OLW	OILY WASTE		55	CY/year	for se	veral years	
SOL	SOLVENTS						
PSD	PESTICIDES						
осс	OTHER ORGANIC CI	HEMICALS					
юс	INORGANIC CHEMIC	ALS					···
ACD	ACIDS		·				
BAS	BASES						
MES	HEAVY METALS		unknown		Sludge	contained MI	ES
IV. HAZARD	OUS SUBSTANCES (See A	ppendix for most frequent	ty caed CAS Numbers)			· · · · · · · · · · · · · · · · · · ·	I
01 CATEGORY	02 SUBSTANCE N	IAME	03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	Iron		7439-89-6	LF		Unknown	<u> </u>
MES	Manganese		7439-96-5	LF		Unknown	
MES	Zinc		7440-66-6	LF		Unknown	
	OCKS (See Appendix for CAS Num		pplicable 02 CAS NUMBER	CATEGORY	01 EEEDST	OCK NAME	02 CAS NUMBER
CATEGORY	01 FEEDSTO	A NAME	UZ CAS NUMBER	} <del>-</del>	V. FEEDSI	OUR TEAME	JE UNG HUMBER
FDS			<del> </del>	FDS			
FDS			<u> </u>	FDS			<del></del>
FDS				FDS			
FDS			<u> </u>	FDS			
·	York State Depa				ation Regio	n 3 files	

Town of Saugerties Landfill



### **Potential Hazardous Waste Site**

Site Inspection Report

**\$EPA** 

### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE I OCATION AND INSPECTION INFORMATION

L IDENT	IFICATION
01 STATE	D9805057636

<b>SEFA</b>	PART 1 - SIT	SITE INSPEC TE LOCATION AN			MATION	D9805057636				
IL SITE NAME AND LO										
O1 SITE NAME (Legal, common					SPECIFIC LOCATION IDENTIFIE	R				
<b>1</b>	rties Landfill	<u> </u>	Route 212							
03 CITY				05 ZIP CODE	07COUNTY 08 COI					
Saugerties			NY	12477	Ulster					
42° 02 30"	740 04 30"_	10 TYPE OF OWNERS  A. PRIVATE  F. OTHER	O B. FEI		_ C. STATE D. COUN					
III. INSPECTION INFOF			= 1::							
01 DATE OF INSPECTION	02 SITE STATUS  EX ACTIVE	03 YEARS OF OPERA	люн 1969	pres	sentunknow					
04 ,23,86 MONTH DAY YEAR	- INACTIVE	BEG	ENNING YEA			VN.				
04 AGENCY PERFORMING IN						<del></del>				
	CONTRACTOR	(Name of Arm)			MUNICIPAL CONTRACTOR	(Playme of Carry)				
DE. STATE & F. STAT	TE CONTRACTOR EA SCIE	ence and Tec	,h⊊ G. OT	HER	(Specify)	, ———,				
05 CHIEF INSPECTOR	<u></u>	06 TITLE		· <del>· · · · · · · · · · · · · · · · · · ·</del>	07 ORGANIZATION	08 TELEPHONE NO.				
Andris Lapin	9	Geologis	t		EA	914) 692-670				
09 OTHER INSPECTORS		10 TITLE			11 ORGANIZATION	12 TELEPHONE NO.				
Ellen Bidwel	1	Geologis	t		EA	(914) 692-670				
						1,				
· 						( )				
						( )				
						( )				
				<del> </del>		( )				
13 SITE REPRESENTATIVES	NTERVIEWED	14 TITLE	15	ADDRESS		16 TELEPHONE NO				
Mrs. G. Schow	vel	Town Super	visor	Town of	Saugerties	(914) 246-280				
				Town Ha	11	( )				
				Main St	reet	( )				
				Saugert	ies, NY 12477	( )				
						( )				
						( )				
17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDI	TIONS							
12 PERMISSION  WARRANT	1000 hrs	Windy, co	old, 1	in, snow	cover.					
IV. INFORMATION AVAI	LABLE FROM									
01 CONTACT		02 OF (Agency/Organiz	Etion)			03 TELEPHONE NO.				
Rebecca Ligot	ino	EA Scien	ice and	l Technol	oov	(914) 692-6706				
04 PERSON RESPONSIBLE FO		05 AGENCY	06 ORGAN	EZATION	07 TELEPHONE NO.	OB DATE				
Ellen Bidwell			E.A	1	(914) 692-6706	10 /29/86 MONTH DAY YEAR				

# POTENTIAL HAZARDOUS WASTE SITE

L IDEN	TIFICATION
OI STATE	02 SITE NUMBER D 9805057636

<b>\$EPA</b>				TION REPORT E INFORMATION	NY D980	NY D9805057636	
R WASTES	TATES, QUANTITIES, AN	D CHARACTER					
	TATES (Check of that apply)	02 WASTE QUANTI	TY AT SITE	03 WASTE CHARACT	ERISTICS (Check of their or	101y)	
J		TONS _	Unknown	D A. TOXIC DE. SOLU DB. CORROSIVE DF. INFEC		THOUS IJ. EXPLO MABLE IJ. K. REACT NBLE IJ. L. INCOM	SIVE TIVE IPATIBLE
C D. OTHER		CUBIC YARDS _				'E M. NOT A	PPLICABLE
	(Specify)	NO. OF DRUMS -		<u> </u>	<del></del>		
UL WASTET							
CATEGORY	SUBSTANCE N	AMÉ		02 UNIT OF MEASURE		1	
SLU	SLUDGE	<del> </del>	55	yd <sup>3</sup> /yr		l years, rec	***
OLW	OILY WASTE					treatment s	
SOL	SOLVENTS		<u> </u>			er. Sludge	
PS0	PESTICIDES					oxide, and	
occ ·	OTHER ORGANIC CH					lso, receive	
100	INORGANIC CHEMIC	ALS	·			swarf (com	
ACD	ACIDS					nd 350 tons/	
BAS MES	BASES HEAVY METALS					percent iron	
	OUS SUBSTANCES (See AG		CAS Numbers	Unknown - : 1	J. 422 (33 )		and water)
01 CATEGORY	02 SUBSTANCE N		03 CAS NUMBER	04 STORAGE/DISE	OSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
UTCATEGORY	02 3033174102.0						CONCENTION
			<b>-</b>				
							<del> </del>
			<b></b>				
						<del></del>	
							<del> </del>
	<del></del>	<del></del> .					
							1
,	<del></del>						
							1
				<u> </u>			<del></del>
V. FEEDSTO	CKS (See Appendix for CAS Municio	Not ap	pplicable			<u> </u>	02 CAS NUMBER
CATEGORY	01 FEEDSTOCK	NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTO	CK NAME	UZ CAS NUMBER
FDS		•		FDS	<del> </del>		
FDS				FDS	<del></del>		
FDS				FDS			
FDS				FDS			
VI. SOURCES	OF INFORMATION (Chr.	pecific references. e.g.,	atata files, sample analysis, f	eports)		<del> </del>	
	Inspection. xes 1.1-6 and 1	1.1-7.					

**ŞEPA** 

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT ART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENT

L IDENTIFICATION

O1 STATE O2 SITE NUMBER D9805057636

PART 3 - DESCRIPTION OF H	IAZARDOUS CONDITIONS AND INCIDE	NTS LTT	7,000,000
II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 & A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 4,511	02 D OBSERVED (DATE: ) 04 NARRATIVE DESCRIPTION	D POTENTIAL	D ALLEGED
Ground water in the aquifer of con Water Company No. 4, Trnka Farms M	icern has been developed by fobile Home Park, and nume	y the Hudson rous private	water
supply sources.			
01   B. SURFACE WATER CONTAMINATION  O3 POPULATION POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	8 POTENTIAL	□ ALLEGED
The nearest surface waterbody, the	e Saw Kill, is used for re-	creational p	urposes only.
01 C. CONTAMBNATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 DOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	□ ALLEGED
None known or reported.			
01 D. FIRE/EXPLOSIVE CONDITIONS	02 D OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		_
None known or reported,			·
01 DE. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	□ ALLEGED
None known or reported.			
01   F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: (Acres)	02 DOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	□ ALLEGED
None known or reported.			
01 Q.G. DRINKING WATER CONTAMINATION 4,511	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	D ALLEGED
Limited to the population served by a 3-mi radius of the site.	ground water from the aqu	ifer of conc	ern within
01 H. WORKER EXPOSURE/INJURY	02 C OBSERVED (DATE:)	[] POTENTIAL	□ ALLEGED
03 WORKERS POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
None known or reported,			-
01 DI. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 □ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	□ ALLEGED
None known or reported.			
			1

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### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION
01 STATE 02 SITE NUMBER

PART 3 - DESCRIPTION OF HA	ZARDOUS CONDITIONS AND INCIDEN	TS NY	D9805057636
IL HAZARDOUS CONDITIONS AND INCIDENTS (Community)			
01 D J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02   OBSERVED (DATE:)	D POTENTIAL	D ALLEGED
None known or reported.			
01   K. DAMAGE TO FALINA 04 NARRATIVE DESCRIPTION (INCLUDE Name), 2) Of Expected)	02 🗆 OBSERVED (DATE:)	G POTENTIAL	C ALLEGED
None known or reported.			
01 D L CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02   OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
None known or reported.			
01 \$\overline{\o	02 DOBSERVED (DATE:)	12 POTENTIAL	C ALLEGED
OS POPULATION POTENTIALLY AFFECTED: 4,511	04 NARRATIVE DESCRIPTION		
The landfill is unlined. The depression water table.	th of the landfill is only	a few ft a	above the
01 C N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 G OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
None known or reported.			
01 C O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTP8 04 NARRATIVE DESCRIPTION	02 G OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
. None known or reported.			
01 © P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE:)	- POTENTIAL	□ ALLEGED
None known or reported.	-	, 	
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEG	ED HAZARDS		
None known or reported.			
III. TOTAL POPULATION POTENTIALLY AFFECTED: 4,5	511	<del></del>	
IV. COMMENTS			
V. SOURCES OF INFORMATION (Cite apacific references. e. g., state files, sa	ampie analysts, reports;		
USGS. 1980 photorevised. 7.5-Mir NYSDOT. 1973. 7.5-Minute Planime Appendixes 1.1-2, 1.1-3, 1.1-4, 1.	etric Series. Bearsville (	Quad.	uad.

	POT	ENTIAL HAZA	RDOI	IC WASTE SIT	E	L IDEN	TIFICATION
<b>\$EPA</b>	• • •		F INSPECTION OI STATE OF			02 SITE NUMBER	
VLIA	PART 4-	PERMIT AND DE			TION	NY	D980505763
II. PERMIT INFORMATION							
01 TYPE OF PERMIT ISSUED (Check of ther apply)	02 PERMIT NUM	BER 03 DATE	ISSUED	04 EXPIRATION DAT	TE 05 COMMENTS	;	
A. NPDES					1		
D B. UIC		<del></del>		<del> </del>	+		
□ C. AIR	<del></del>			<del> </del>	+		
D. D. RCRA	-+		<del></del>	<del> </del>	+		<del></del>
E. RCRA INTERIM STATUS	<del></del>			<del> </del>	+		<del></del>
E. F. SPCC PLAN	<del></del>				+		
©G. STATE (Specify)	0549	3/14	779	3/14/82	DOT Anti	1 - 27	
☐ H. LOCAL (Specify)			<u>/ · · ·                                </u>	3/14/04			7. Title 5,
□ I. OTHER (Specify)		<del></del>			Part 360	·	
D.J. NONE					+		
III. SITE DESCRIPTION				<u> </u>			
D1 STORAGE/DISPOSAL (Creat at that apply)	02 AMOUNT 03	3 UNIT OF MEASURE	1 Q4 TF	REATMENT (Check of that	s armen's	05 OTH	(FR
☐ A. SURFACE IMPOUNDMENT		,	l	•	<b>4.</b>		Paul 1
☐ B. PILES				INCENERATION		150	A. BUILDINGS ON SITI
© C. DRUMS, ABOVE GROUND			1 _	UNDERGROUND INJ			
D. TANK, ABOVE GROUND			1	CHEMICAL/PHYSICA BIOLOGICAL	AL		•
☐ E. TANK, BELOW GROUND						06 ARE	A OF SITE
& F. LANDFILL	unknown		1	WASTE OIL PROCES SOI VENT RECOVER		100	AUFSIE
G. LANDFARM				SOLVENT RECOVER		1	15
H. OPEN DUMP			1 _	OTHER RECYCLING	RECOVERT	-	(Acr
D I. OTHER	***************************************		/ U m.v	OTHER	>=cafy)	Ì	
7 COMMENTS			I			l	
V. CONTAINMENT							
11 CONTAINMENT OF WASTES (Check one)				<del></del>	<del></del>		
☐ A. ADEQUATE, SECURE	B. MODERATE	. 2Ō C. IN	ADEQU	ATE, POOR	D. INSECUI	RE, UNSOL	UND, DANGEROUS
2 DESCRIPTION OF DRUMS, DIKING, LINERS,	, BARRIERS, ETC.						
The landfill is unli	ned and has	no leachat	ie co	ollection s	ystem.		
/. ACCESSIBILITY							
01 WASTE EASILY ACCESSIBLE: YE 02 COMMENTS	S 52 NO			٠			
I. SOURCES OF INFORMATION (Case	ipecific references, e.g. state f	Res. sample analysis, report	ts)				
Appendixes 1.1-2 and	1.1-3.						
EA Site Inspection.							

### POTENTIAL HAZARDOUS WASTE SITE

L IDENTIFICATION

SFPA	, ,	SITE INSPEC				N N	D9805057636	
<b>V</b>	PART 5-WATER	, DEMOGRAPHI	C, AND ENVI	RONM	ENTAL DATA			
IL DRINKING WATER SUPPLY								
01 TYPE OF DRINGING SUPPLY (Check as applicable)		02 STATUS	Unknow	n	$\epsilon_{\rm x}$	٥	S DISTANCE TO SITE	
SURFACE	WELL	ENDANGER		ED i	MONITORED		2.9	
COMMUNITY A. D	<b>8</b> . DX	A.D	B. C		C. 🗅	^	0.04	
NON-COMMUNITY C. 🗆	D. Q:	<b>D</b> . 🗅	E. 0		F. 🗅		(mi)	
EL GROUNDWATER								
01 GROUNDWATER USE IN VICINITY (Check	pne)							
20 A. ONLY SOURCE FOR DRINKING	B. DRINKING     (Other sources availate     COMMERCIAL. IN     (No other water source)	DUSTRIAL, IRRIGATIO	(Limite)		INDUSTRIAL, IRRIGAT cee everable)	TION	D. NOT USED, UNUSEABLE	
02 POPULATION SERVED BY GROUND WAT	ER 4,511	_	03 DISTANCE TO	NEARES	ST DRINKING WATER I	WELL	0.04 (mi)	
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GRO	DUNDWATER FLOW	06 DEPTH TO AC		07 POTENTIAL YIEL	٥	08 SOLE SOURCE AQUIFER	
20	SSW		OF CONCER!		OF AQUIFER	4	gg YES □ NO	
				(ft)		(gpd)	<u> </u>	
09 DESCRIPTION OF WELLS (including useage.	depth, and location relative to	population and buildings;		,	1 1	773	Vollor	
Ground water in the	aquifer of o	concern has	been de	veTol	ped by the	Hua.	son valley	
Water Company No. 4,	Trnka Farms	s Mobile Ho	ome Park,	and	numerous	priv	ate water	
supply sources.						•		
			11 DISCHARGE	VREA				
10 RECHARGE AREA  IN YES COMMENTS			DYES C	MMENT	rs			
D NO			□ NO					
					-		<del></del>	
IV. SURFACE WATER								
01 SURFACE WATER USE (Check one)  Ø A. RESERVOIR, RECREATION	B. IRRIGATIO	N, ECONOMICALLY	C. CON	<b>IME</b> RCIA	AL, INDUSTRIAL	0	D. NOT CURRENTLY USED	
DRINKING WATER SOURCE		TI NESSONISES		<del>,</del>				
02 AFFECTED/POTENTIALLY AFFECTED BC	IDIES OF WATER						DICTANCE TO CITE	
NAME:					AFFECTED		DISTANCE TO SITE	
Saw Kill							0,19 (mi)	
						_	(mi)	
						_	(mi)	
	VINEODMATION			7				
V. DEMOGRAPHIC AND PROPERT	INFORMATION		<del></del>	02	DISTANCE TO NEARE	ST POPL	JLATION	
01 TOTAL POPULATION WITHIN			== == ==					
	0 (2) MILES OF SITE 3.021		3) MILES OF SITE 7,432	-		0.0	).4(mi)	
A. 597 NO. OF PERSONS	NO. OF PERSONS		O. OF PERSONS					
03 NUMBER OF BUILDINGS WITHIN TWO (2)	MILES OF SITE		D4 DISTANCE TO	NEARES	T OFF-SITE BUILDING			
					0.25		mi)	
			L				,	
05 POPULATION WITHIN VICINITY OF SITE (	Trovide nerrative description of	nggure of population within	ricinity of site, e.g., rul	al, village. d	ensely populated urban an	<b>PE</b> )		
Site is located in a	rural area	with mediu	m density	v res	idential d	leve]	opments to the	
west and southwest.	rurar area	with media		,			•	

# POTENTIAL HAZARDOUS WASTE SITE

L IDENTIFICATION

VI. ENVIRONMENTAL INFORMA		ECTION REPORT PHIC, AND ENVIRONMENTAL DATA	01 STATE 02 SITE NUMBER NY D9805057636
		, AND ENTINORMENTAL DATA	
01 PERMEABILITY OF UNSATURATED ZO		· · · · · · · · · · · · · · · · · · ·	
□ A. 10-6 - 10-	8 cm/sec	☐ C. 10 <sup>-4</sup> ~ 10 <sup>-3</sup> cm/sec   25 D. GREATI	ER THAN 10 <sup>-3</sup> cm/sec
02 PERMEABILITY OF BEDROCK (Chace of	unknown		
C A. IMPERM Late then Fo		ABLE C C RELATIVELY PERMEABLE C	D. VERY PERMEABLE (Greater than 10 <sup>-2</sup> ont/zec)
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMENATED SOIL ZONE	05 SOIL pH	
approx. 0 (m)	Unknown	<u>unknown</u>	
06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE	
(in)	(in)	STE SLOPE DIRECTION OF SITE	SLOPE TERRAIN AVERAGE SLOP
09 FLOOD POTENTIAL N/A SITE IS INYEAR FLOO	DOPLAIN SITE IS ON BAR	RRIER ISLAND, COASTAL HIGH HAZARD ARE	A, RIVERINE FLOODWAY
1 DISTANCE TO WETLANDS /5 acre minimus	m)	12 DISTANCE TO CRITICAL HABITAT (of endanger	red species)
ESTUARENE	OTHER		(mi)
A(mi)	B(mi)	ENDANGERED SPECIES:	
3 LAND USE IN VICINITY			
DISTANCE TO:			
COMMERCIAL/INDUSTRIA	RESIDENTIAL AREAS: NATION FORESTS, OR WILDLE		ICULTURAL LANDS ND AG LAND
A(mi)	B0.25		(mi) D (mi)
4 DESCRIPTION OF SITE IN RELATION TO	SUPPORTUDING TOPOGRAPHY		
480 ft above mean 1-3 percent, howeved to 45 percent. divert runoff away the ditchline which	sea level. Large are ver, working faces of Two drainage ditches y from the landfill op	and has an elevation of as of the landfill have the landfill have sloped to the north and south deration. The surface ret. Regional slope of to hwest at 1 percent.	a slope of s ranging from of the landfill unoff follows
	Cate specific references. e.g., state files, semble enelysis.		
		dixes 1.3-1 through 1.3-es. Woodstock Quad5-Minute Topographic Seication, 6 March. er System Sources. Systems. Volumes I and	3 and 1.5.5. ries. Woodstock Qu

,	{	Ì	E	F	7	1
L	8	AN	PU	ES	TA	KE
	S	AM	PLE	17	PE	

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION

O1 STATE 02 STE NAMER

NY D9805057636

SURFACE WATER  WASTE  ARR RUNOFF  SPILL  SOL  VEGETATION  OTHER  III. FIELD MEASUREMENTS TAKEN  OT TYPE  Slope  Esitmated with a Suunto Clinometer.  IV. PHOTOGRAPHS AND MAPS  OT TYPE & GROUND © AFRIAL  ON MAPS  BY YES  EA Science and Technology  V. OTHER FIELD DATA COLLECTED (Press warmers our reconsole)	VLIA	•	PART	6 - SAMPLE AND FIELD INFORMAT	TION LINE	D 7 0 0 3 0 3 . 0 0 0
SAMPLE TYPE  SAMPLE TYPE  GROUNDWATER  SURFACE WATER  WASTE  AR  RUNOFF  SPLL  SOL  VEGETATION  OTHER  ILL FIELD MEASUREMENTS TAKEN  OT TYPE  Slope  OF COMMENTS  Esitmated with a Suunto Clinometer.  IV. PHOTOGRAPHS AND MAPS  OT TYPE & GROUND   EARIAL  OTHER SIZE  OTHER FIELD OF AND	IL SAMPLES TAK					
SURFACE WATER  WASTE  AIR  FILNOFF  SPIL  SOIL  VEGETATION  OTHER  OT TYPE  Slope  FIL SILD MEASUREMENTS TAKEN  Estimated with a Suunto Clinometer,  FIL SILD MEASUREMENTS TAKEN  TV. PHOTOGRAPHS AND MAPS  OT TYPE SI GROUND I AFRIL  ON MAPS  SI YES  EN SCIENCE and Technology  V. OTHER FIELD DATA COLLECTED (Proces parameter descreptor)  V. OTHER FIELD DATA COLLECTED (Proces parameter descreptor)	SAMPLE TYPE	01 NUMBER SAMPLES	OF 02 STANCEN	I SAMPLES SENT TO		03 ESTIMATED DATE RESULTS AVAILABLE
AR  RUNOFF  SPIL  SOIL  VEGETATION  OTHER  IL FIELD MEASUREMENTS TAKEN  OT TYPE  Slope  So COMMENTS  Esitmated with a Suunto Clinometer.  IV. PHOTOGRAPHS AND MAPS  OT TYPE & GROUND I AFRIL  ON MAPS  S YES  S YES  E A Science and Technology  V. OTHER FIELD DATA COLLECTED (Proces assume escretario)  V. OTHER FIELD DATA COLLECTED (Proces assume escretario)	GROUNDWATER	·				
RUNOFF  SPIL  SOR.  VEGETATION  OTHER  III. FIELD MEASUREMENTS TAKEN  OT TYPE  Slope  Esitmated with a Suunto Clinometer.  IV. PHOTOGRAPHS AND MAPS  OT TYPE & GROUND C AEPRAL  OT TYPE	SURFACE WATE	R				
RUNOFF  SPIL.  SOR.  VEGETATION  OTHER  II. FIELD MEASUREMENTS TAKEN  OTTIVE  Slope  Esitmated with a Suunto Clinometer.  IV. PHOTOGRAPHS AND MAPS  OT TYPE & GROUND   AERIAL  OS MAPS  & YES  ON MAPS  E A Science and Technology  Flowing of organization or individual  Technology  V. OTHER FIELD DATA COLLECTED (Provine marriage describitor)	WASTE	·				
SPIL SOR	AIR					
VEGETATION  OTHER  GIL FIELD MEASUREMENTS TAKEN  OT TYPE  Slope  OZ COMMENTS  Esitmated with a Suunto Clinometer,  FIL PHOTOGRAPHS AND MAPS  OT TYPE & GROUND C AFFAL  OT TYPE	RUNOFF					
OTHER  BIL FIELD MEASUREMENTS TAKEN  OI TYPE  Slope  Esitmated with a Suunto Clinometer.  IV. PHOTOGRAPHS AND MAPS  OI TYPE & GROUND & AERIAL  O2 N CUSTODY OF EA Science and Technology  Diame of organization or more duals  OF TYPE & GROUND & AERIAL  O2 N CUSTODY OF EA Science and Technology  O3 MAPS  O4 NO  V. OTHER FIELD DATA COLLECTED (Proviso servative oscication)	SPILL					
OTHER  III. FIELD MEASUREMENTS TAKEN  OT TYPE  Slope  Esitmated with a Suunto Clinometer.  IV. PHOTOGRAPHS AND MAPS  OT TYPE & GROUND - AERIAL  O3 MAPS BYES C NO  V. OTHER FIELD DATA COLLECTED (Provision manusimes description)	SO(L					
II. FIELD MEASUREMENTS TAKEN  O1 TYPE  Slope  Esitmated with a Suunto Clinometer.  IV. PHOTOGRAPHS AND MAPS  O1 TYPE & GROUND G AFRAL  O2 N CUSTODY OF EA Science and Technology  Planne of organization or movious?  O3 MAPS EA Science and Technology  Planne of organization or movious?  V. OTHER FIELD DATA COLLECTED (Provide Marriable observation)	VEGETATION					
Slope Esitmated with a Suunto Clinometer.    V. PHOTOGRAPHS AND MAPS	OTHER					
Slope Esitmated with a Suunto Clinometer.    V. PHOTOGRAPHS AND MAPS	OL FIELD MEASU	REMENTS TAKEN				
Slope Esitmated with a Suunto Clinometer.    V. PHOTOGRAPHS AND MAPS			rs			
IV. PHOTOGRAPHS AND MAPS  01 TYPE & GROUND AFRIAL  02 IN CUSTODY OF EA Science and Technology  Diame of organization of movious)  03 MAPS  EA Science and Technology  EN O  V. OTHER FIELD DATA COLLECTED (Provide negrative description)		Esitma	ated wit	th a Suunto Clinometer.		
IV. PHOTOGRAPHS AND MAPS  01 TYPE & GROUND - AERIAL						
IV. PHOTOGRAPHS AND MAPS  01 TYPE & GROUND AFRIAL  02 IN CUSTODY OF EA Science and Technology  Diame of organization of movious)  03 MAPS  EA Science and Technology  EN O  V. OTHER FIELD DATA COLLECTED (Provide negrative description)			· · · · · · · · · · · · · · · · · · ·	<del></del>		
IV. PHOTOGRAPHS AND MAPS  01 TYPE & GROUND AFRIAL  02 IN CUSTODY OF EA Science and Technology  Rearre of organization of movious?  03 MAPS  EA Science and Technology  EN O  V. OTHER FIELD DATA COLLECTED (Provide Marrative description)						
O1 TYPE & GROUND C AERIAL  O2 IN CUSTODY OF EA Science and Technology  Distance of organization of individual)  O3 MAPS  EA Science and Technology  EN OTHER FIELD DATA COLLECTED (Provide narrative description)						
O1 TYPE & GROUND C AERIAL  O2 IN CUSTODY OF EA Science and Technology  Distance of organization of individual)  O3 MAPS  EA Science and Technology  EN OTHER FIELD DATA COLLECTED (Provide narrative description)	IV. PHOTOGRAPI	IS AND MAPS				
O3 MAPS  BYES  EA Science and Technology  NO  V. OTHER FIELD DATA COLLECTED (Provide Regressed description)			02 1	N CUSTODY OF EA Science and	Technology	
V. OTHER FIELD DATA COLLECTED (Provide nervisive description)		04 LOCATION OF MAPS EA Science	e and Te			
	□ NO					
	V. OTHER FIELD	DATA COLLECTED (Provide	летавче деастро	on)		•.
	VI. SOURCES OF	INFORMATION (Cito specific i	references. J.g., Sti	iate files. Sample analysis, reports)		
			<u> </u>			
VI. SOURCES OF INFORMATION (Cite specific references, e.g., state free, sample analysis, reports)	EA Site In	spection.				
	Į					

	POT		ZARDOUS WASTE SITE	I. IDENTI	TIFICATION	
<b>€EPA</b>		SITE INSPECTION REPORT			OLSTATE OZ SITE NUMBER NY D9805057636	
		PARI 7 - UV				
	02 D-	+B NUMBER	OB NAME		09 (	)+B NUMBER
		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD F, etc.)			11 SIC CODE
D6 STAT			12 City	13 STAT	E 142	UP CODE
NY	12	477			1	
	02 D	B NUMBER	08 NAME		09 0	+8 NUMBER
		04 SIC CODE	10 STREET ADDRESS (P.O. Box. AFD #, etc.)	· · · · · · · · · · · · · · · · · · ·	1	11 SIC CODE
06 STAT	E 07 Z	P CODE	12 CITY	13 STATI	14 Z	IP CODE
L	02 D	+B NUMBER	OB NAME		09 D	+B NUMBER
	1	A SIC CODE	10 STREET ADDRESS (P.O. Box, RFD F, etc.)	<del></del>		11SIC CODE
	1-2-2-					
D6 STATE	E 07 ZB	CODE	12 CITY	13 STATE	14 21	PCODE
<u> </u>	02 D+	B NUMBER	OS NAME		090	+B NUMBER
		4 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		1	11 SIC CODE
OB STATE	E 07 ZB	CODE	12 City	13 STATE	142	P CODE
	<u> </u>		IV. REALTY OWNER(S) (If appareable) list i	most recent first)		· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·	02 D+	8 NUMBER	01 NAME		02 D-	B NUMBER
	1					
	T	4 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD #, etc.)		T	04 SIC CODE
06 STATE	07 ZIP	CODE	05 CITY	06 STATE	07 ZI	CODE
	02 D+1	BNUMBER	01 NAME		02 D	+ B NUMBER
	10	4 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		T	4 SIC CODE
OS STATE	07 ZIP	CODE	05 CITY	06 STATE	07 <b>Z</b> IF	CODE
	02 D+	B NUMBER	01 NAME	I	02 D+	B NUMBER
··-	0	SIC CODE	03 STREET ADDRESS (P.O. Box. RFD P. etc.)		10	4 SIC CODE
O6STATE	07 25	CODE	05 CITY	06 STATE	07 <b>2</b> 39	CODE
					<del></del>	
citic references.	e.g., state	Des, semple analysis	a. reports)			<del></del>
	O6 STATE  O6 STATE  O6 STATE	06 STATE 07 ZB  06 STATE 07 ZB  06 STATE 07 ZB  02 D+  06 STATE 07 ZB  02 D+  02 D+  04 STATE 07 ZB  02 D+  04 STATE 07 ZB  05 STATE 07 ZB  06 STATE 07 ZB	O2 D+B NUMBER  O4 SIC CODE  O5 STATE O7 ZIP CODE  O6 STATE O7 ZIP CODE  O7 ZIP CODE  O8 STATE O7 ZIP CODE  O8 STATE O7 ZIP CODE  O8 STATE O7 ZIP CODE  O6 STATE O7 ZIP CODE	DISTATE   OT ZIP CODE   12 CITY   OS STATE   OT ZIP CODE   OS STREET ADDRESS (P.O. BOL. RFD P. etc.)   OS STATE   OT ZIP CODE   OS STREET ADDRESS (P.O. BOL. RFD P. etc.)   OS STATE   OT ZIP CODE   OS CITY   OS STREET ADDRESS (P.O. BOL. RFD P. etc.)   OS STATE   OT ZIP CODE   OS CITY   OS STREET ADDRESS (P.O. BOL. RFD P. etc.)   OS STATE   OT ZIP CODE   OS CITY   OS STREET ADDRESS (P.O. BOL. RFD P. etc.)   OS STATE   OT ZIP CODE   OS CITY   OS STREET ADDRESS (P.O. BOL. RFD P. etc.)   OS STATE   OT ZIP CODE   OS CITY   OS STREET ADDRESS (P.O. BOL. RFD P. etc.)   OS STATE   OT ZIP CODE   OS CITY   OS STREET ADDRESS (P.O. BOL. RFD P. etc.)   OS STATE   OT ZIP CODE   OS CITY   OS STREET ADDRESS (P.O. BOL. RFD P. etc.)   OS	SITE INSPECTION REPORT   PART 7 - OWNER INFORMATION   PARENT COMPANY (** sections)	DISTATE   OX SPECTION REPORT   DISTATE   OX SPECTION   DISTATE   DISTATE   DISTATE   DISTATE   DISTA

	POTENTIAL HAZ/		HAZAF			L IDENTIFICATION		
<b>\$EPA</b>	S.FPA :		SITE IN	NSPEC'	TION REPORT OR INFORMATION	O1 STATE O	2 STE NUMBER 09805057636	
IL CURRENT OPERAT	OR Proving & althorate for				OPERATOR'S PARENT COMPAN	NY (7 appetrages)		
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es city		06 STATE	07 ZIP CODE		14 CITY	15 STATE	16 ZIP CODE	
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EPA FORM 2070-13 (7-81)

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

LIDEN	TEFICATION
O1 STATE NY	D9805057636

<b>VEFA</b>	PART 10 - PAST RESPONSE ACTIVITIES		MI	0507007030
IL PAST RESPONSE ACTIVITIES None			***************************************	
01 C A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE	03 AGENCY		
01   B. TEMPORARY WATER SUPPLY PROVIDE 04 DESCRIPTION	ED 02 DATE	03 AGENCY		
01 [] C. PERMANENT WATER SUPPLY PROVIDE 04 DESCRIPTION	ED 02 DATE	03 AGENCY		
01 () 0. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY		
01 D E CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY		
01 D F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY		
01 C WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	-	03 AGENCY		
01 C H. ON SITE BURBAL 04 DESCRIPTION	02 DATE			
01 C L IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY		
01 E J. IN STU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY		
01 D K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY		
01 D L ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY		
01 DM. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY		
01 I N. CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 AGENCY		
01 D. EMERGENCY DIKING/SURFACE WATER 04 DESCRIPTION	R DIVERSION 02 DATE	03 AGENCY		
01 E P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY .		
01 © Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE	03 AGENCY		

9	

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10. PAST RESPONSE ACTIVITIES

L IDEN	TIFICATION
01 STATE	02 SITE NUMBER

	PART 10 - PAST RESPONSE ACTIVITIES	NY D980505763
PAST RESPONSE ACTIVITIES (COMPAND)		
01 - R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 D.S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY
01 C. T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY
01 D U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 © V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY
01 D W. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 C X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 © Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 D Z. AREA EVACUATED 04 DESCRIPTION	O2 DATE	03 AGENCY
01 🗆 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 🗇 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY
01   3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	O2 DATE	03 AGENCY

IIL SOURCES OF INFORMATION (Cite apacitic references, e.g., etzer files, aampie analysis, raports)

Chapter 3.



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

L IDENTIFICATION

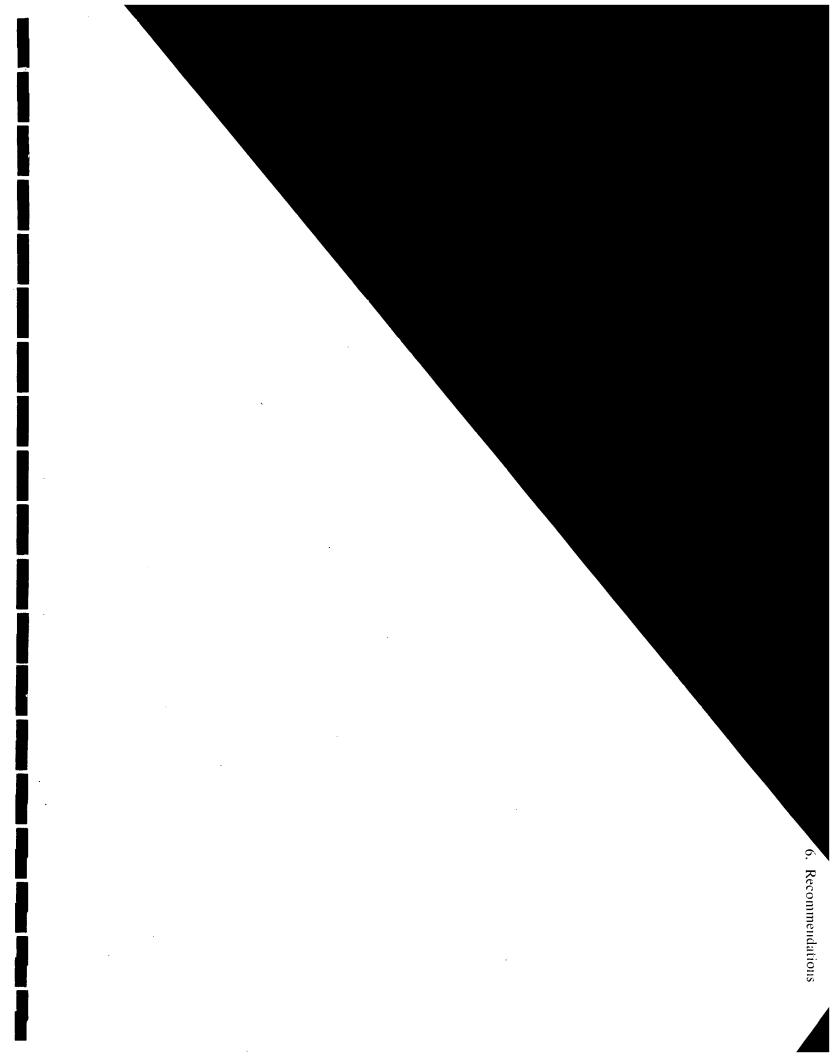
01 STATE 02 STE NAMES D9805057636

IL ENFORCEMENT INFORMATION

02 DESCRIPTION OF FEDERAL STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state lifes, sample energias, recorts)

Chapter 3.



#### 6. ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

#### 6.1 ADEQUACY OF EXISTING DATA

The available data are considered insufficient to prepare a final HRS score for this site. Sediment, ground-water, and surface water Hazardous Substance List (HSL) quality data are lacking.

#### 6.2 RECOMMENDATIONS

In order to prepare a final HRS score for this site, analytical data regarding the HSL quality of the ground water, surface water, and sediment will be necessary, thus requiring performance of a Phase II investigation. The proposed Phase II study would include the installation of six test borings/ observation wells, and the collection and analysis of ground-water, surface water, and sediment samples.

#### 6.3 PHASE II WORK PLAN

#### 6.3.1 Task 1 - Mobilization and Site Reconnaissance

Project mobilization includes review of the Phase I report and updating the site database with any new information made available since completion of the Phase I report. Based on that review, a draft scope of work for this site will

be agreed to and a project schedule developed. At this time, a draft Quality Assurance/Quality Control (QA/QC) document will be prepared in accordance with the most up-to-date NYSDEC guidelines.

Site reconnaissance will be performed to examine general site access for Phase II studies. Site reconnaissance will familiarize key project personnel with the site, enable the project geologists to evaluate potential boring/well locations, and enable the project Health and Safety Officer to develop specific health and safety requirements for the field activities. Emergency, fire, and hospital services will be identified. Standard practice during site reconnaissance is an air survey with a photoionization detector (HNU). The air survey would be performed around the site perimeter and throughout the site for safety purposes. Detection of releases to air during site reconnaissance may warrant further confirmation studies. Based on the Phase I study, it is expected that field activities will require only Level D health and safety protective measures.

#### 6.3.2 Task 2 - Geophysics

Multidepth EM and earth resistivity surveying will be performed around the site area perimeter to evaluate the extent of the fill area, the potential presence of ground-water contaminant plumes, and stratigraphic conditions. The number of stations and value of depth settings will be determined on the basis of field conditions. Results of the geophysics will be used to refine the specifications for locations, depths, and number of observation wells to be installed.

#### 6.3.3 Task 3 - Preparation of Final Sampling Plan

All data collected during Tasks 1 and 2 will be evaluated to finalize sampling and boring/well locations. The final sampling plan will be developed and submitted to NYSDEC for approval. The plan will include final sampling locations, boring and well specifications, and reference pertinent portions of the QA/QC Plan. A final budget will be developed to complete the drilling and sampling program.

#### 6.3.4 Task 4 - Test Borings and Observation Wells

Although there are two existing onsite monitoring wells, their integrity is unknown because they are unsecured (casing not locked), as observed during EA's Site Reconnaissance. Therefore, based upon currently available information, the drilling program is proposed to include the installation of six test borings/observation wells: one well upgradient (apparently southwest of the "old disposal area") of the entire site, two wells downgradient (apparently north to northeast) of the "original disposal area", and three wells downgradient (apparently south to southeast) of the current landfill This work would be performed under the fulltime supervision of a geologist. It is anticipated that the hollow-stem auger drilling method will be used in the unconsolidated sediment, and NX-coring in bedrock. Prior to the drilling of each boring/well, and at the completion of the last boring/well, the drilling equipment which comes in contact with subsurface materials will be steam-cleaned, as well as the split-spoon sampler after obtaining each sample. Soil sampling will be performed as necessary using a split-spoon sampler at approximately 5-ft intervals and at detected major stratigraphic changes.

An HNU would be used to monitor the potential organic vapors emitted during drilling operations and from each soil sample. Samples of major soil/ unconsolidated sediment will be collected for grain-size and/or Atterburg Limits analysis.

It is anticipated that the six wells will be completed in the shale/sandstone bedrock, approximately 10-15 ft below the water table. Standard construction of a well completed in bedrock would include 4-in. diameter steel pipe set approximately 5 ft into bedrock, grouted to ground surface, and completed with a locked steel cap. The bedrock well would be continued as an open NX-core hole below the surface.

Upon completion and development of the wells by air surging/pumping, the vertical elevation of the upper rim of each well casing and the horizontal location will be surveyed in order to aid in evaluation of the ground-water flow direction. Depending upon the yield of each Phase II well, a short-term, low-yield pumping test will be performed in each well.

For cost estimating purposes, it is assumed that:

- a. The depth of each of the three wells proposed to be located in the vicinity of the "original disposal area" will be 30 ft below grade.

  The depth of each of the three wells proposed to be located south to southeast of the current landfill area will be 20 ft below grade.
- b. The six wells will require 13 days to install, develop, and test.

- c. All drill sites are accessible by truck-mounted drilling rigs as determined by the driller.
- d. There are no excessive amounts of cobbles/boulders which would increase drilling time.
- e. Steam-cleaning of drilling/sampling equipment will be performed at each boring/well location. The fluids will be discharged to ground surface.
- f. All drill cuttings, fluids, and development water will be left on, or discharged to, the ground surface in the immediate area of the activity.
- g. That permission from appropriate land owners to drill borings/wells on their property will be a simple process (expedited by the NYSDEC, if necessary) so that delays during field operations are not incurred.

#### 6.3.5 Task 5 - Sampling

All sampling and analysis will be conducted in accordance with the project QA/QC Plan. The analytical program for every water sample will include the 130 organic and 25 inorganic parameters listed in Statement of Work

No. 784. New York State Department of Environmental Conservation Superfund and Contract Laboratory Protocol, January 1985. Also, all additional non-priority pollutant GC/MS major peaks will be identified and quantified. Major peaks will be considered as those whose area is 10 percent or greater than the

calibrating standard(s). Based upon the currently available information, collection and analysis of the following numbers and types of samples is recommended:

- 6 Ground-water samples (one from each Phase II well).
- 1 Composited surface water sample (comprised of one sample from each of the drainage ditches where they flow beyond the southern edge of the landfill).
- 1 Composited sediment sample (comprised of sediment from the two composited surface water sample locations).

#### 6.3.6 Task 6 - Contamination Assessment

EA will evaluate the data obtained during the records search and field investigation: prepare final HRS scores and documentation forms; complete EPA Form 2070-13 and part One of 2070-12; summarize site history, site characteristics, available sampling and analysis data; and determine the adequacy of the existing data to confirm release, and if there is a population at risk.

#### 6.3.7 Task 7 - Remedial Cost Estimate

EA will evaluate remedial alternatives for the site and develop a list of potential options given the information available on the nature and extent of contamination. Approximate cost estimates for the selected potential remedial options will be computed. This work is not intended to be, or a substitute for, a formal cost effectiveness analysis of potential remedial actions.

#### 6.3.8 Task 8 - Final Phase II Report

In accordance with current (January 1985) NYSDEC guidelines, the Phase II report will include:

- a. The results of the Phase II investigation, complete with boring logs, photos, and sketches developed as part of the Phase II field work.
- b. Final HRS scores with detailed documentation.
- c. Selected potential remedial alternatives and associated cost estimates.

In addition to the final Phase II report, the following raw data and resulting reduction would be provided to NYSDEC:

- a. geophysical
- b. well logs
- c. all sampling forms and data
- d. all analytical data
- e. chain-of-custody forms
- f. other pertinent collected information.

#### 6.3.9 Task 9 - Project Management/Quality Assurance

A Project Manager will be responsible for the supervision, direction, and review of the project activities on a day-to-day basis. A Quality Assurance Officer will ensure that the QA/QC Program protocols are maintained and that the resultant analytical data are accurate.

#### 6.4 PHASE II COST ESTIMATE

Based on the scope of work and assumptions described above, the estimated costs to complete the Phase II investigation of the Town of Saugerties Landfill site are as follows:

Consultant Costs (including labor, direct costs, fee)	\$39,850
Drilling Contractor	16,350
Laboratory	13.300
Total	\$69,500

RECEIVED JUN 1 1 1986

GLORIA M. SCHOVEL SUPERVISOR



Appendix 1.1-1

MEMBERS OF TOWN BOARD

JOSEPH J. FABIANO

FRANCIS P. FLORIO

JOHN SERRA. JR.

GEORGE J. TERPENING. JR.

May 31, 1986

EA Science and Technology R. D. #2 Box 91 Goshen Turnpike Middeltown, New York 10940

Dear Ms. Bidwell :

Enclosed is the corrected interview summary.

Also enclosed are copies of the only maps and drawings on file in this office.

There are no barrels buried at the site that we know of.

If we can be of any further help to you, please do contact us.

Sincerely,

Gloria Schovel

Supervisor, Town of Saugerties

GS:cm

Persons Making Contact:

EA Representatives:

Bidwell/Lapins

Site Name: Town of Saugerties Landfill I.D. Number: 356003

Person Contacted: Mrs. Schovel <u>Date</u>: 23 April 1986

<u>Title</u>: Town Supervisor

Affiliation: Town of Saugerties Phone No.: (914) 246-2809

Address: Town Hall

Main Street

Saugerties, New York 12477

Type of Contact: In Person

#### Interview Summary:

The Town of Saugerties landfill began operation after Memorial Day weekend of 1970 or 1971, when the neighboring Town of Woodstock ceased to accept its garbage. Initially, the Town of Saugerties dug three trenches on property purchased from Mr. Charles Keaton. The approximately 40-acre parcel was previously used in a shale mining operation, but currently the land is used solely as a landfill. After the three original trenches were filled in, the Town employed the "cell method" of landfilling in the southern section of the property. Current Town employees estimate the waste material in the first cell to be 30-40 feet below ground surface. The second and third cells lie on top of the first. The Town plans to expand the landfill to the shale mining pit after completion of the third cell.

A few weeks after the landfill originally opened, two monitoring wells were installed at the site. Both State and County agencies dictated the location and construction of the wells, and they are still sampled on a regular basis. Because the Town of Saugerties is a rural area, there are few industries that dump in the landfill. Ferrox Cube, a local electronics manufacturer, has dumped various sludges over the years, but since 1979 has been permitted by the New York State Department of Environmental Conservation (NYSDEC) to do so. The sludge is high in iron, zinc oxide, and manganese oxide and is mixed right in with the residential garbage. At one time, leachate was observed emanating from the northern edge of "Cell 2." The Town responded by constructing a 3:1 clay bank over the leachate, and employees believe the problem has been The original three trenches were filled in and seeded, but currently the Town uses the area to dump sludge from the Village treatment plant. Out of the entire 40 acres purchased from Mr. Keaton, the Town estimates only 15 have been landfilled. The entrance gate is locked at night and none of the current employees have seen nor heard of evidence of hazardous or illegal dumping at the landfill.

#### Acknowledgement:

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to EA Science and Technology interviewers, or as I have revised below, is an accurate account.

Revisions (please write in corrections to above transcript):

purchased from Chas Keefe

WAS NEVER PREVIOUSLY USED AS SHALE MINING OPBATION. (Town does not

OWNERING AREA AT ENTRANCE TO LANDFILL

IS mixed on landfill anea to rear and side of Building.

Signature: Bloria Ochowe Date: June 6,1986

Date: June 6,1986

Dear Mrs Bidweel:

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Could find in the files.

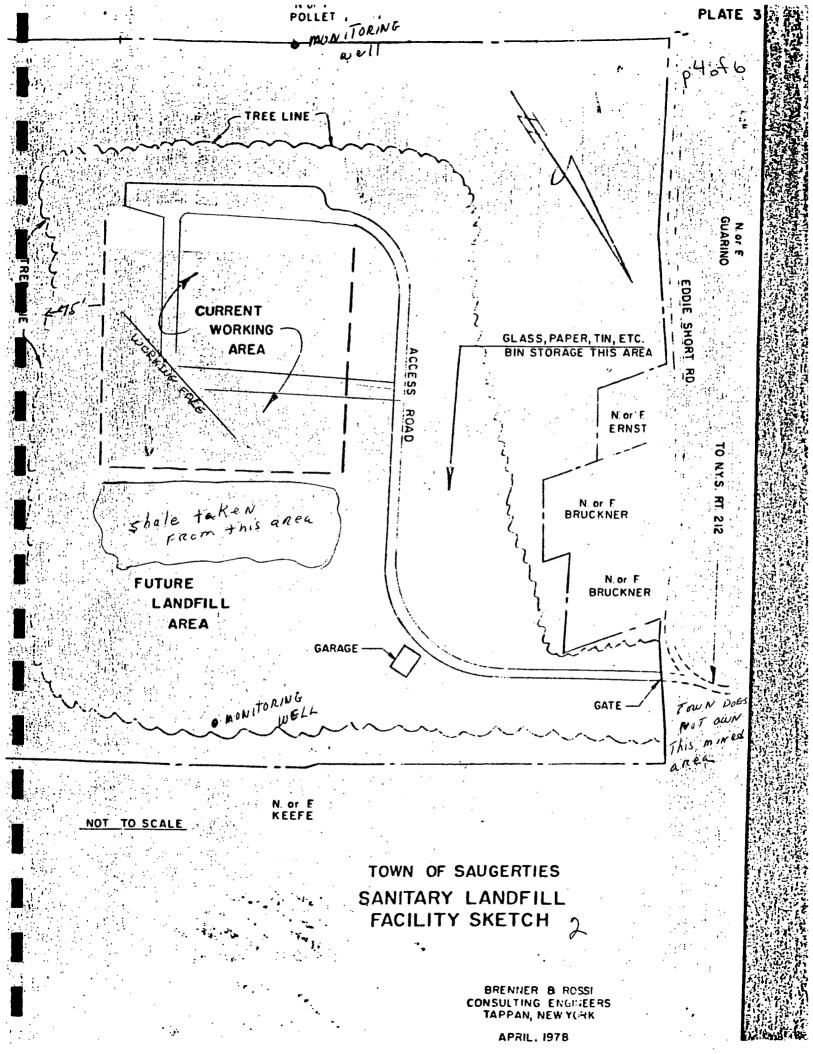
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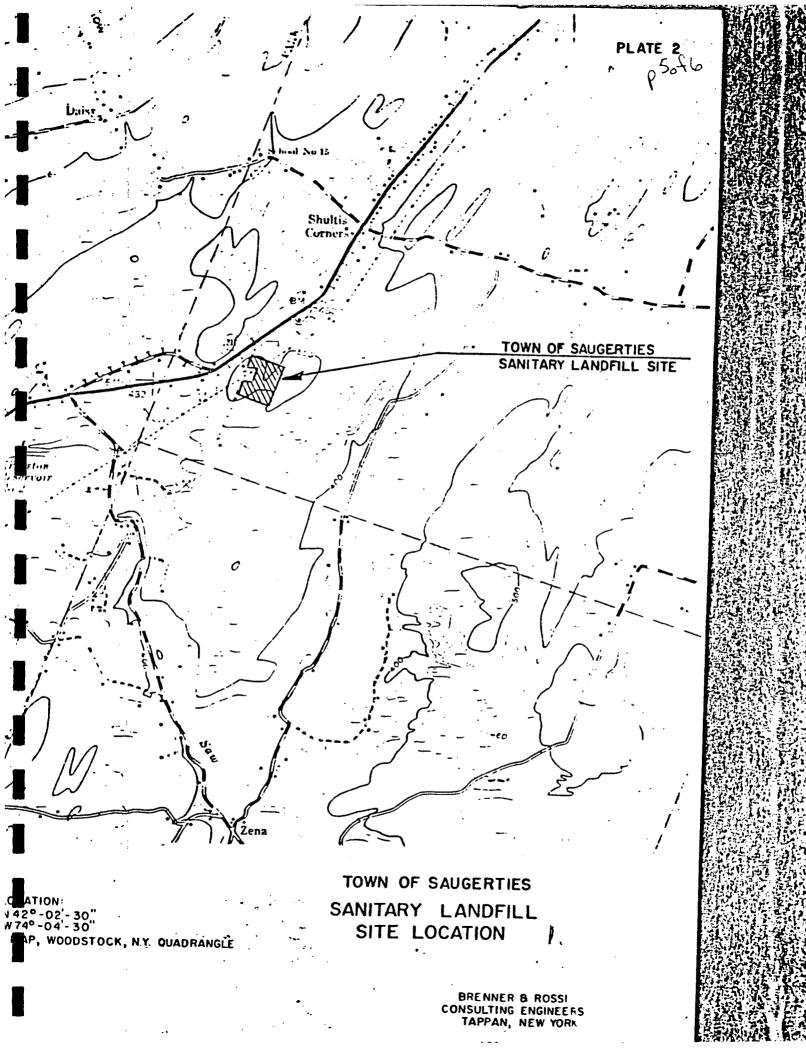
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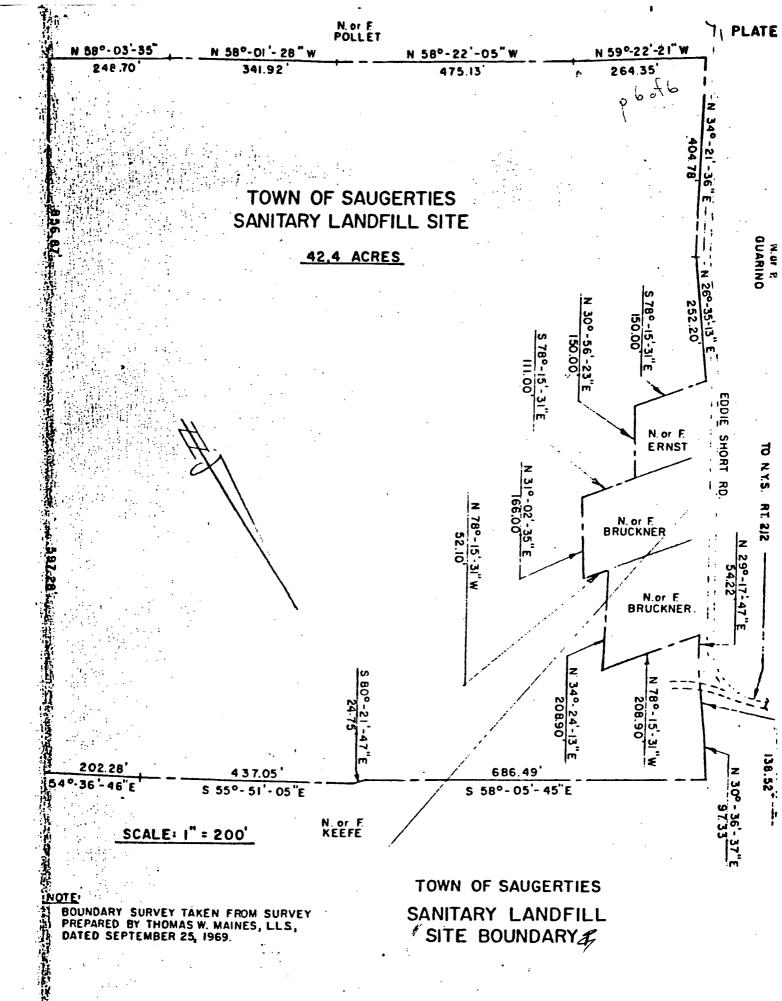
let me know,

Sincerely.

Gloria Phone







BRENNER & ROSSI CONSULTING ENGINEERS TAPPAN, NEW YORK

M.Y. Dept. of Health Bereau of Toxic Substance own of Saugerties Ulster County New York

56519 Appendix 1.1-2 710419

## SANITARY LANDFILL REPORT

Accompanying

Application for Approval to Construct and Operate a Solid Waste Management Facility

April, 1978

Brenner & Rossi Consulting Engineers 4 Independence Avenue Tappan, New York 10983 (914) 359-2210

#### TABLE OF CONTENTS

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Plan of Operati	on	1
Contingency Pla	n	4
Compliance With	Section 360.8	5
	equirements for Waste Manage- lities	5
<del>-</del>	nts for Specific te Management s	7
Closure Plan		10

### Plates

Plate	1	Site	Boundary
Plate	2	Site	Location
Dlate	3	Facil	lity Sketch

PLAN OF OPERATION

# I. Plan of Operation

chased a 40 + acre parcel of land abutting New York State
Route 212 and approximately one mile south of Glasco Turnpike,
for the sole purpose of operating its own sanitary landfill.
On June 3, 1969, the Town received approval to establish a
refuse disposal area on said site from the Ulster County
Department of Health. (San. Form 240, executed by Dr. V.B.
Link, M.D.)

In September of that year a boundary survey of subject site was prepared by Thomas W. Maines, L.L.S., and an operational plan was prepared by Mr. Maines. Said plan showed the access road into the site, the garage, and areas designated for current and future landfill operations. The drawing also contained spot elevations and a benchmark system for vertical control. This drawing provided the operator with the method of fill progression at the site. A topographic survey of the site was never completed.

Data is not available to substantiate depth of past filled areas nor whether final elevations of the fill areas were achieved. An inspection of the site does indicate that previously filled areas do conform with surrounding contours and provide a gradually sloped and drainable area.

Currently, as has been the practice in the past, only refuse generated in the unincorporated part of the Town is deposited at the site. The Village of Saugerties has its own facility.

The quantity of refuse delivered to the site is unknown as this data is not collected by the operator. However, an estimate on quantity can be arrived at by use of standard per capita values. If this information is needed, it will be forthcoming in a subsequent report.

At the present time, the facility is operating under a "cell" method and layers of new refuse are being placed upon consolidated solid waste material. The current operational area is several acres with an available lift height of eight to ten feet.

To prepare for future expansion, the Town sells shale, mined from the site, to a private contractor. The contractor excavates the shale basically to bedrock depth. The excavated area then serves as the future landfill working site.

The life of the landfill depends upon the resolvement of whether the facility can be horizontally expanded into the new mined area.

B. The operator controls the height of each lift by making each new fill section the same general shape as the previous one. The filling starts at the working face, and as the fill progresses its height decreases. An access road leads directly to the working face. By starting the fill at the operating face, obviously good access is afforded to all vehicles. Further, the passing of the vehicles over the covered refuse aids in the compaction process. In addition, the operator constructs drainage ditches on the access road side of the working face. Sloping the surface of the fill away from the working face and toward the ditch directs surface water off the refuse area and does not allow this water to pond or infiltrate into this fill.

In order to maintain desired finished grades at the site, a final contour plan will be established, and the operator will set grade stakes along the working fill area in accordance with the final contour plans.

- C. As mentioned previously, surface water is directed to the ditch area by sloping the top of the fill. The surface runoff follows the ditch line away from the landfill operation. There are no provisions at the present time for underground drainage structures in the vicinity of the fill area.
- D. The sanitary landfill is fenced at either side of the entrance gate. A sign located at the entrance gate states who may use the facility and gives the schedule of operation. Internal signs delineate the recycle area, the refuse area, the non-putrescible area, and the area where trees and brush may be deposited. In the recycling area, individuals may separate their deposits into glass, aluminum, paper, etc.

The Town issues permits to individuals, businesses, and commercial carriers who wish to utilize the facility. Again, only refuse from the unincorporated area of Town is permitted. There is currently no charge to any Town resident, business, or commercial carrier for use of the landfill.

E. The facility is open Monday thru Friday from 8:30 A.M. to 4:30 P.M., on Saturday from 8:30 A.M. to 3:30 P.M., and is closed on Sundays and Holidays.

A heated building for the storage of the 1974 Caterpillar 977L Loader is located within reasonable proximity to the fill area and serves as a shelter for the operator during inclement weather and as a place to perform routine maintenance on equipment.

During the day, the operator polices the site, checks to insure that only authorized vehicles use the facility, and carries out the basic landfill operations such as spreading, compacting, and covering refuse. The Town has hired a second man to assist the operator. This person checks the vehicles and directs them to the proper disposal areas. At the end of each working day the operator makes such that the entire face of the fill is covered.

F. The operator takes no special precautions during inclement weather except to stockpile cover material in close proximity to the face of the fill. To ensure that satisfactory access is maintained during the winter period, the Town's Highway Department services the road network.

The Town is currently constructing a new road to the landfill site. Once completed, this road will provide better access to the site during the winter period.

CONTINGENCY PLAN

P1289

# II. Contingency Plan

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#### A. Equipment Breakdown

In the event of any equipment breakdown, the Town's Highway Department furnishes the landfill operator with a front-end loader for use until repairs are completed on the landfill equipment.

### B. Air or Water Contamination Due to Operations

Open burning is not permitted at the site as a general rule. However, when a large quantity of brush and trees accumulate at the landfill, the operator obtains the necessary DEC permit to burn said debris. Further, all refuse is covered at the end of each day's operation. Accordingly, operations at the site do not result in any air or odor problems.

There have been no reported complaints of groundwater contamination at the site. However, some leachate production is evident at the site especially during wet periods. Said productions is minimal during dry summer months. Further, the landfill operator has significantly minimized leachate production by construction of a drainage ditch and use of less permeable soil cover material. If the regulatory agencies demonstrate that a problem does exist, the Town will construct an empoundment area so that the liquid can be tested. If a monitoring program is established, the operator will receive adequate training to ensure that the program is effective and that regulatory requirements are adhered to.

#### C. Fires

Since the operation of the facility commenced in 1969, there have been no serious fires at the landfill. An adequate water supply system exists to control any small fires.

### D. Spills or Releases of Hazardous or Toxic Materials

Hazardous and toxic materials are not permitted at the landfill site. Further, there have been no recorded incidences of the presence of, or the spill or release of, these materials.

COMPLIANCE WITH SECTION 360.8

#### III. Compliance with Section 360.8

The following are point by point responses to Section 360.8 of the Rules and Regulations for Solid Waste Management Facilities.

## A. General Requirements for All Solid Waste Management Facilities

- (1) There are no surface waters crossing the 40 acre site. Solid wastes are presently being deposited on landfilled area. Horizontal expansion of the landfill is being prepared by removal of material from the adjoining area. Adequate cover on the landfill area prevents surface runoff from penetrating the landfill. Runoff from the adjoining excavation area is channeled to a ditch adjacent to the landfill area. Groundwater appears to be well below the excavation level. Therefore, solid waste is not deposited in, and is prevented from entering, surface waters or groundwaters.
- (2) Solid waste is not being deposited on any agricultural lands designated Class 1 and/or Class 2 (N.Y.S. Inventory of Soil and Water Conservation Needs, 1967).
- (3) In accordance with data on file at the Ulster County Department of Health, some leachate production was evident at the site especially during wet periods. Further, said production is minimal during dry summer months. A wet area downstream from the landfill site receives landfill drainage; however, said flow ceases during dry seasons. The landfill operator has significantly minimized leachate production by construction of a drainage ditch and use of less permeable soil cover material.

A serious leachate problem does not exist. However, if the regulatory agencies demonstrate that a problem does exist, the Town will construct an empoundment area so that this liquid can be tested and the proper method of treatment can be administered.

- (4) The operator allows salvaging at the site only where metals are stockpiled. Salvaging is not permitted at any other location. The metal stockpile is totally divorced from the working face of the fill. What little salvaging exists is totally controlled by the operator and does not interfere with day to day landfill operations or with any person utilizing the facility.
- (5) The gate at the entrance to the facility controls access to the site. Therefore, the facility cannot be used unless the attendant is present.

- (6) A sign is posted at the access gate which stipulates the hours of landfill operation. Internal signs control traffic into the site to the working face, and further designate specific areas for deposit of metals, brush, and recycled materials.
  - (7) The blowing of paper and other litter is not a problem at this site since the landfill area is surrounded by tall trees, and since adequate windrows exist in front of the face of the fill. Further, the operator polices the site as is required.
  - (8) Dust and odors do not appear to create a nuisance at the site. Further, there is no serious vector problem as the refuse is covered at the end of each working day. The operator has been instructed to institute a control program if a substantial build-up in the rodent population becomes evident.
  - (9) The present access road is unpaved, and some difficulty is experienced during winter months due to a steep incline at the entrance to the site. The Town is presently in the process of constructing a new access road which will greatly improve access to the facility. The internal road network is well maintained and provides good access to the operating face.
  - (10) The site is frequented by a limited number of collectors, businesses and individuals. To date, there has not been any serious accident at the site.
  - (11) The 40 acre site is well recessed from New York State Route 212. As a result of the site's remote location, and the fact that only a few pieces of equipment operate at the facility, there have been no complaints from residents near the area about excess noise.
  - (12) The heated garage at the site houses the land-fill's tractor/loader and provides a shelter for operating personnel. The garage has adequate work and storage areas and has water, sewer and telephone facilities.
  - (13) The equipment used at the sanitary landfill is a 1974 Caterpillar 977L loader and a 1969 White dump truck. The tracked loader is well suited for a sanitary landfill operation in that it can spread, compact and cover refuse.

The operator is trained to perform routine maintenance and repairs on the equipment. In the event of a major breakdown, the operator uses a 1975 International 175 loader on loan

from the Town's Highway Department during the down period.

- (14) As previously stated, the heated garage is adequate for providing shelter to both machine and operator, and has sufficient area for the operator to perform routine equipment maintenance.
  - (15) Open burning is not permitted at the sanitary landfill. When a large quantity of brush and trees accumulate at the site, the operator obtains a DEC permit to burn said debris. Adequate water facilities are available at the site to extinguish a fire.
  - (16) All refuse is deposited in one location on the site and is confined between windrows in front of the operating face. The placement of adequate signs and the scrutiny of the operator ensures that refuse is directed only to the face of the fill area.
  - (17) No hazardous wastes are deposited at the Town's sanitary landfill.
    - (18) Not Applicable.
    - (19) Not Applicable.
    - (20) Not Applicable.
  - (21) The Town's sanitary landfill is not located in a floodplain.
    - B. Requirements for Specific Solid Waste Management Facilities

#### (1) Sanitary Landfill

(i) At the present time new refuse is being deposited upon previously compacted beds. Accordingly, a minimum of five feet is being maintained between the solid waste and groundwater or bedrock. However, this working area is a few acres and will afford only a limited landfill life. A new area is presently being prepared by the Town. To accomplish this, the Town sells mined material to a private contractor. The contractor excavates the material basically to bedrock depth. The excavated area then serves as a future landfill site.

The depth from the top of the adjacent completed, final lift to the bottom of the current mined area varies from ten to fifteen feet. To

require a five feet vertical separation from bedrock will drastically reduce the life of the landfill. This would place undue, severe, economic
hardships on the Town. Further, previous operation has gone to bedrock and there has been no
reported adverse affects. Accordingly, a waiver
of this specific requirement for future operations
is requested.

- (ii) The operation of this facility is in an excavated area, the method of operation is the "cell" type, and the operator uses extreme care to channel surface runoff from the working face. Accordingly, the operator has not had problems with surface runoff.
- (iii) At the present time, there are no groundwater monitoring wells at the landfill. This is a continuing operation and there are no reports of groundwater contamination.
- (iv) As stated, there are no monitoring wells located at the site. Accordingly, a monitoring program does not exist. (See Item 3.)
- (v) Since this is an existing landfill, this requirement is not applicable.
- (vi) There have been no reported problems pertaining to gases being generated at the existing landfill. Accordingly, no special precautions are being taken to control any gases that may be generated.
  - (vii) a) All refuse is deposited, spread and compacted in layers of less than two feet across the face of the fill.
  - b) Average lift height does not exceed ten feet.
  - c) A minimum of six inches of cover is placed over the face of the refuse area at the end of each day.
  - d) A compacted layer of at least 12 inches of cover material will be placed over all surfaces of the landfill where no additional refuse will be deposited within 30 days.

- e) Final cover has been placed on that portion of the landfill adjacent to the existing garage. This area has been idle for several years and has a well established stand of grass.
- (viii) As has been done in the past, all fill areas are graded to prevent ponding and erosion.
- (ix) As soon as a final elevation is reached on any portion of the landfill, or if any lift is not to be covered by an additional lift within 90 days, a stand of grass, weather permitting, will be established.
- (x) The Town will maintain for a period of five (5) years beyond the date that the final cover is completed, all soil cover integrity, slopes, cover vegetation, drainage structures, groundwater monitoring facilities, and gas venting structures, if applicable, pursuant to the permit issued by the New York State Department of Environmental Conservation.
- (xi) As previously stated, hazardous materials are not deposited in the Town's sanitary landfill.
- (xii) No portion of the existing landfill is within 50 feet of a property line. Current excavated areas are not within 50 feet of a property line. The landfill is presently surrounded by a treed area which provides an excellent natural buffer.
  - (xiii) Existing records indicate that spot elevations were taken, date unknown, with the establishment of a benchmark at the garage of elevation 500.00. This benchmark has served as vertical control at the facility.
    - (xiv) Not Applicable.
  - (xv) If additional requirements are established by DEC, the Town will comply with those requirements if it is economically feasible to do so.
  - (2) <u>Secure Landburial Facility</u>
    Not Applicable.
  - (3) Industrial Waste Disposal Facilities
    Not Applicable.
  - (4) <u>Incinerators</u>
    Not Applicable.

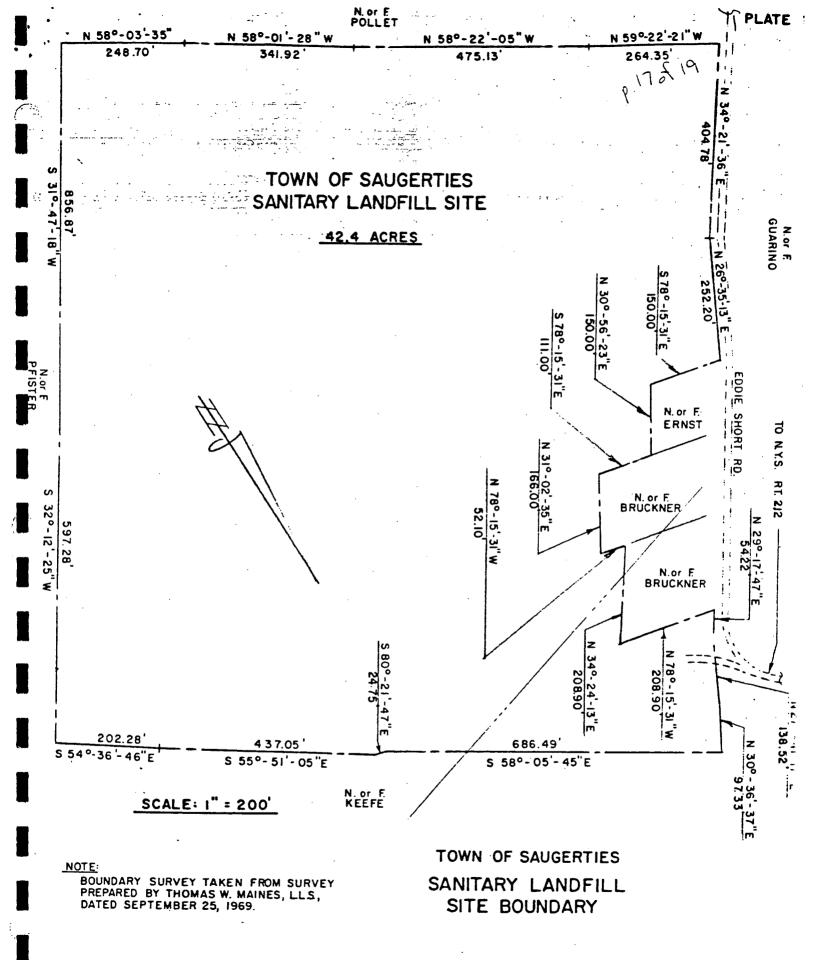
CLOSURE PLAN

#### IV. Closure Plan

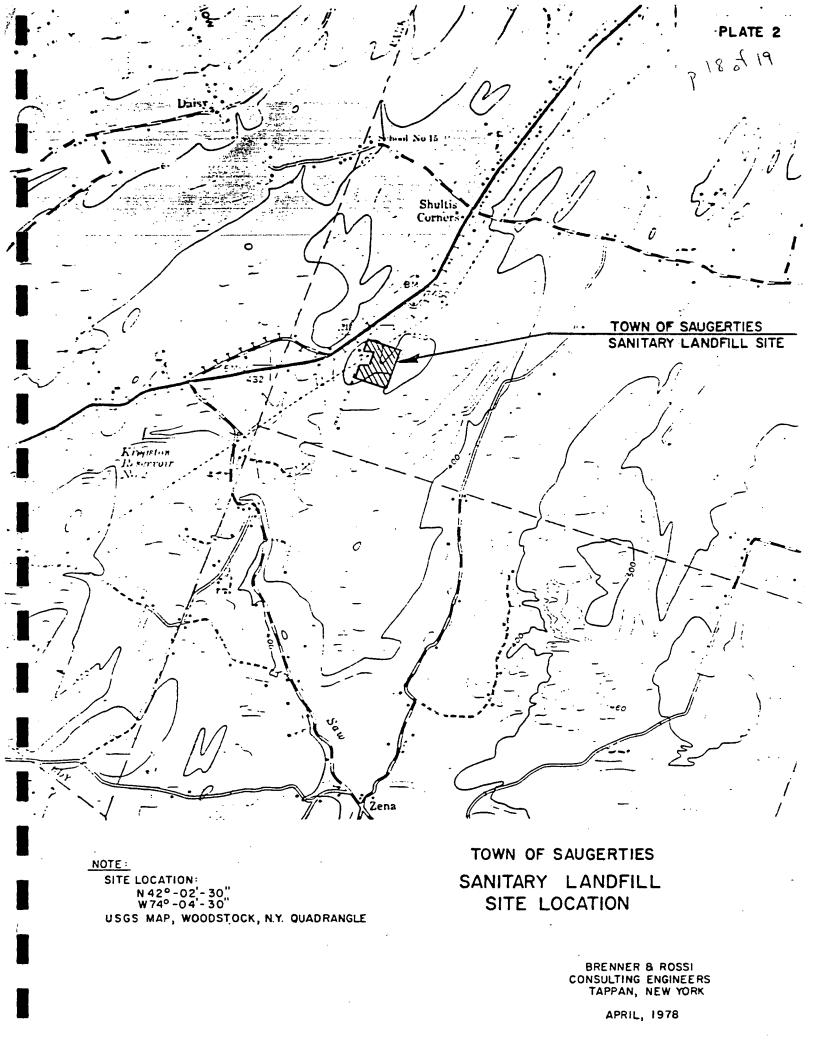
The Town is currently working on the adoption of a master plan and zoning ordinance. Accordingly, the zoning of land in the vicinity of the landfill property has yet to be determined. The landfill site has a useful life of some 10-15 years. In that span of time it would certainly be plausible to expect changes in any master plan which may be adopted at this time.

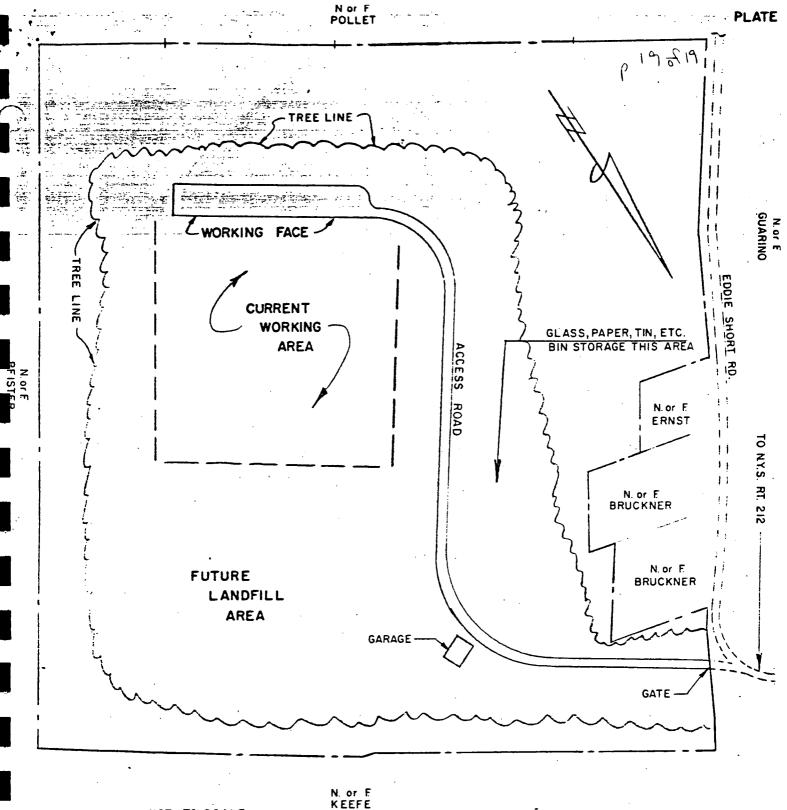
In any event, the Town has no definite plans for property development when its use as a sanitary landfill has been terminated.

The final plans, such as they are, will require a two (2) feet layer of cover material over the entire fill area, sloped to provide adequate drainage and seeded to produce a good stand of grass.



BRENNER & ROSSI CONSULTING ENGINEERS TAPPAN, NEW YORK





NOT TO SCALE

TOWN OF SAUGERTIES

SANITARY LANDFILL FACILITY SKETCH

> BRENNER & ROSSI CONSULTING ENGINEERS TAPPAN, NEW YORK

**APRIL, 1978** 

N. T. Dept. of Beelth Dertail of Torte Select

Append x 1.1-3

ULSTER COUNTY HEALTH DEPARTMENT

TOWN OF SAUGERTIES

LANDFILL REPORT

SUPERVISOR \* GEORGE TURNER

OPERATOR \* STANLEY DUMAN

ASST. OPERATOR \* GILBERT HARTRUM

REQUEST FOR NEW PERMIT TO INSTALL TOWN REFUSE

ON EXISTING WORK AREA

TOWN PUP. 17,995

VILLAGE POF. 3,882 (Village joining town in 1978)

AMOUNT OF PERMITS 5,517

INDUSTRIAL FLANTS USING LANDFILL

ROTRON

K.T.B.

F.L. RUSSELL

FERROXCUBE

1. Landfill in operation 13 years
Work area rectangular described on map.
Begining at South Easterly pipe in fence
North 675 feet then Westerly 725 feet then
Southerly 675 feet, then easterly to point
of begining 725 feet.

Creating 487,375 square feet approx. 14' deep an average of approx. 14 to 15 inches a year. 44 Ton 76

2. A Fire pit is provided for burning of brush, with a workable Indian Tank at hand.

Permit approved by Forest Ranger Roger Blatter.

3. Recycling areas are provided with two 35' trailers for paper and magazines.

Shipped to J.C. Paper Co. of Foughkeepsie, N.Y. when filled.

4. Glass bins are owned by Recyceling Entprise of Mass.

5. Steel and tin recycling.

Are compacted onLandfill site once every 4 months by;

Millens & Son , Kingston, New York

- 6. All areas are clearly marked by signs.
- 7. New road topping from entrance to work area of crushed shale has been completed.
- 8. At the request of E.P.A.

Two montering wells have been drilled.

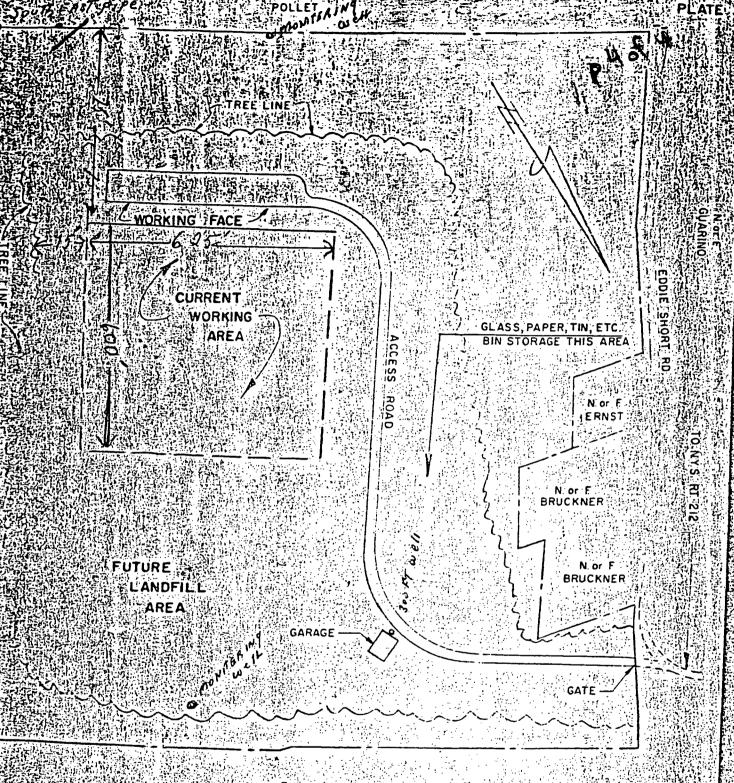
9. By order of the county health department.

3 in 1 slopes on Eastern and Southern side of work area with approx. 200 feet of dirt is to be completed this spring.

10. Equipment.

1980 955 Cat Loader with ripper and 4 in 1 bucket -- Replaces 1972 977 loader.

11 Remaining Copperty Syrs in AREA



NOT TO SCALE

N or F KEEFE

TOWN OF SAUGERTIES SANITARY LANDFILL FACILITY SKETCH

BRENNER & ROSSI CONSULTING ENGINEERS TAPPAN, NEW YORK

APRIL, 1978

## BRENNER & ROSSI

CONSULTING ENGINEERS

Town of Saugerties
App # Y56519

4 INDEPENDENCE AVENUE TAPPAN, NEW YORK 10983 (914) 359-2210

DONALD B. Appendix 1.1-4

(914) 623-2021

ALFRED T. ROSSI, P.E. P 62

(914) 623-2731

RECEIVED

JUL

May 29, 1978

N.Y.S. D.E.C. WHITE PLAINS OFFICE

Mr. Dean N. Palen, P.E. County of Ulster Department of Health 300 Flatbush Avenue Kingston, New York 12401

Re: Solid Waste Management Facility, Saugerties, New York

Dear Mr. Palen:

We are in receipt of your letter dated May 16, 1978, requesting additional information regarding the Sanitary Landfill Report for the above captioned facility.

The responses herein below are in the same order as listed in your letter of May 16th.

## Application for Approval to Operate

3a. As stated in the Sanitary Landfill Report dated April 1978, the operation of this facility is in an excavated area, and the method used is the "cell" type. At the present time, new refuse is being deposited upon previously compacted beds. The current operational area is several acres with an available lift height of eight to ten feet. The fill progression starts at the working face, and proceeds northerly into the working area as shown on Plate 3 in the Report. To prepare for future expansion, the Town is excavating an area northerly of the current working area, also as shown on Plate 3.

3b. As stated in part B of the Plan of Operation, the operator controls the height of each lift by making each new fill section the same general shape as the previous one. The fill starts at the working face, and as the fill progressed its height decreases. Further, sloping the fill away from the working face and toward the ditch directs surface water off the refuse area and does not allow this water to pond or infiltrate into this fill.

Re: Solid Waste Management Facility, Saugerties, New York

The current working area is in a previously excavated area. The final lift height has been the height of adjoining terrain. There are no plans to date to have lift heights in excess of adjoining contours. Accordingly, the operator's present method of control is the adjoining grade.

A benchmark system does exist at the site. An elevation of 500.00 (garage floor elevation) has served as vertical control at the facility.

3c. A well adjacent to the garage and approximately 500 feet from the current working area was driven 301 feet, and provides approximately 1 gpm. Discussions with the facility operator reveals that a vein was tapped during well construction at a depth of approximately 20 feet. Accordingly, there is evidence of groundwater at a depth of approximately 20 feet.

The excavation of the landfill area has not exceeded 20 feet. There is no evidence of groundwater within the bed of the landfill.

As previously stated the Town is currently preparing for future expansion by excavating an area northerly of the current working area. Operation at this location indicates approximately 1 foot of overburden before shale strada is reached. Excavation of the shale generally has not exceeded 20 feet. Therefore, the depth to bedrock can generally be stated as approximately 20 feet.

4c. The closest firehouse is located in Centerville, approximately 4 miles from subject facility.

7c. The 40+ acre site is relatively flat as shown on Plate 2 in the Report (USGS Map). Since the current working area is a previously excavated area, finish grades have, and to date, will continue to match adjoining existing grades.

7f. The prevailing wind is generally from the West.

A further point to note is that the facility operator has attended a D.E.C. sponsored course held in New Paltz on May 18th.

We trust that the above information is sufficient for your office and the Regional Office to consider the Town of Saugerties application as complete and ready for formal review.

ATR/err

cc: Supervisor Greco

Very truly yours,

Alfred T. Rossi, P.E.

7-20-2 (8/77)	MISDEC Region PE	V8411 0	Ec Rey3	FACILITY NO. 3681.  0549  EXPIRATION DATE
Under	the Environmental Conservat	tion Law, Article 27, Title 7, Pa	REISSU	Appendix 1.1-5
PERMIT ISSUED TO	OPERATION	ADDRESS OF PERMITTEE	MODIFICA	TION SA 4
TOUT OF S		Town Hall Saugerties, Environmental Cons	Y servation Regional Office	914-246-2800
Faugert DESCRIPTION OF PROJ		ster 202 Mamaron	ON-SITE SUPERVISOR	e Plains, W 10601
Operation	of a Sanitery Landfill	CENERAL CONDITIONS	Mr. 3tanley	246-9866
wation Region work at least shall also not of the work.  2. The permitted representative may order the v  3. As a condition cepted express responsibility and by whomev and has agreed actions, damage	shall file in the office of the Environmental (above, a notice on intent 48 hours in advance of the time of countries of the said office promptly in writing of the Department of Environmental (above, suspended if the public interest in of the issuance of this permit, the say, by the execution of the application all damages, direct or indirect, of the resultence of the project of the indemnify and save harmless the ges and costs of every name and descripted.	ion to commence plans and specimencement and properties of the completion so that completion provides the completion provides applicant has acconditions. All the full legal whatever nature, described herein state from suits, cription resulting plans and speciment of the completion.  John March 1988 of the provides of	is responsible for ob- ements and rights-of-wa- e of this permit, the per- son strict compliance in ny variances granted by	t shall conform to the approved ments must be approved by the vation prior to their implementaining any other permits, apply which may be required for mittee agrees that the permit is with Part 360 and the special the Department of Environmental riting and attached hereto.
1) The followers to	owing wastes shall not reatment plant sludge s	be accepted at this site: and sludge from the Ferrox	hazardous, incube plant.	ndustrial, septace,
2) Prior to its comp of test the lepar excavation 3) "Daily Co	the disposal of any reliance with Section 360 pits witnessed by a represent. The depth and on.	efuse in a newly mined are 0.5(b)(1)(i). This shall resentative of the Ulster number of test pits shall on the working face and "1	a, the Fermita be accomplished County Health be determined	Department and/or at the time of
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6) Rostine	THE CONTRACT OF THE PROPERTY O	own-gradient will be recu	ニーストレー きゅうりょう しゅついたい	。 (1) 10 10 11 12 12 12 12 12 12 12 12 12 12 12 12
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ISSUE DATE	issuing Officer  John F. Betelson	SIGN.	ATURE	2/14,77
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# NOTICE OF PERMIT

	for:		
	CONSTRUCTION	MINITIAL ISSUE	REISSUANCE
·	<b>OPERATION</b>	RENEWAL	MODIFICATION
has	been issued to: <u>Tov</u>	VN OF SAUGER	TIES
addre	ess: Town Hall, M.	AIN STREET, SAU	GERTIES, N.Y.
for a	project described as	: OPERATION OF A	SANITARY LANDFILL
	r the Environmental C 27, Title 5, Part 360 (Solid Wast	•	

### NOTE:

- This Notice of Permit must be posted on the project site in such a manner that it is protected from weather and is in a location readily visible to the public.
- A copy of the Permit with the general and special conditions noted thereon will be shown to anyone upon request.

New York State
Department of Environmental Conservation

JOHN E. HARRISON, P.E.
Issuing Officer Regional Solid Waste Engineer

202 MAMARONECK AVENUE

Address WHITE PLAINS, N.Y. 10601

O549 MARCH 14,1979 MARCH 14,1982

Permit No. Issue Date Expiration Date

Dean Palen, Ulster Co. Dept. of Health Richard Gardineer, D.E.C., Region 3. White Plains SAUGERTIES (T) SANITARY LANDFILL, APPLICATION NO. Y56S19

March 14, 1979

Enclosed please find a Permit and a Permit Placard for the subject application. Please forward these to the Town and inform them that the submission schedule for the well sampling and annual report shall be sent to them at a later date.

RAG:fk bcc: Reg. Dir. FILE

## New York State Department of Environmental Conservation 202 Mamaroneck Avenue, White Plains, N.Y. 10601 (914) 761-6660



-	Date MARCH 19, 1979 Robert F. Flacke
	Project Number <u>Y56519</u>
Bureau Divisi	Mafrici, P.E., Director  of Management Programs on of Solid Waste Management  Dept. of Environmental Conservation
Albany	Re: Application for:  Sanitary Landfill Construction and Demolition Incinerator Resource Recovery (Materials) Processing (Shredding, Baling) Transfer Stations
Dear M	r. Mafrici:
Enclos Constr	ed please find the following material pertaining to Application(s) for Approval to uct and/or Operate a Solid Waste Management Facility in Region 3:
	Construction Application - Project No. X Assigned
	Operation Application - Project No. Y Assigned
	Application Processing Check List
	Application Project Review Dates
	Notice of Incomplete Application
	Notice of Complete Application (Completeness)
	Plans and/or Engineering Report
	Supplemental Material Transmittel Nemo to U.C. att.
	Permit Issued No. 0549
<u> </u>	
_	have any questions, please do not hesitate to contact:
	Mr. John E. Harrison
	Mr. Salvatore Ervolina
	Mr. Richard Gardineer
l	•Very truly yours,
t	John E. Harrison
, <sub>^</sub>	John E. Harrison, P.E. Regional Solid Waste Engineer

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

Received from MYSDEC Region

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treet Address		Shultis Corne	rs			
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PAGE C-3-61

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

	Priority Code: Site Code: 3: Name of Site: County: ULS Street Address	56003 (T).	SAUGERTIES Town/G	Received f NYSDEC Region: SAUGERT	~ \ <i>∞</i> ∠ .
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ACCEPT	ED PRIOR	TO ISSUAN	· :		
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	Company Code
. Waste Characterization and Management	Practice
(Use separate form for each waste stre	eam)
1. Waste Stream No. 1 (from Form I	, Number 17)
2. Description of process producing w	raste WASTEWATER TREATMENT
Air.	1312 27112
3. Brief characterization of waste	SLUDGE CONTAINING FE, O3, ENO
Mr CO3 W	1TER
4. Time period for which data are rep	resentativeto
5. a. Annual waste production 5.5 Y	3
b. Daily waste production	
	<del></del>
c. Frequency of waste production:	//seasonal //occasional //continual
4	//other (specify)
6. Waste Composition	
a. Average percent solids % b.	. DH range to
c. Physical state: //liquid, //s.	
//other (specia	fy)Average //wet weight
d. Component	Concentration dry weight
1. Fe, O3	/_/wt.% /_/ppm
	/_/wt.% /_/ppm
4. VIATOMACEOUS EPRTH	/_/wt.% //ppm
6	
	/_/wt.%
•	<del>-</del>
9	
10	/_/wt.% /_/ppm

٠.		Company Code
		company code
	e.	Analysis of composition is //theoretical //laboratory //estimate (attach copy of laboratory analysis if available)
	f.	Projected //increase, //decrease in volume from base year. O to by July 1977;
		O * by July 1983.
	g.	Hazardous properties of waste: //flammable //toxic //reactive //explosive
		//corrosive //other (specify) UNKNOWN
7.	On	Site Storage
	а.	Method: //drum, //roll-off container, //tank, //lagoon, //other(specify)
	ь.	Typical length of time waste stored / //days, //weeks, //months
	c.	Typical volume of waste stored 1,25 //tons, //gallons VD3
		Is storage site diked? //Yes ØKNS
	е.	Surface drainage collection / Yes 🔯No
8.	Tr	ansportation
	a.	Waste hauled off site by //you //others
	Þ.	Warme of waste hauler KEN DACHENHAUSEN
		Address Rox 21 RURY
		Street City
		Address  Rox 2   Street  State  Roy 2475 (94) 246 - 5201  State
		eatment and Disposal
	a.	Treatment or disposal: Ton site /Xoff site
	b.	Naste is //reclaimed //treateJ //land disposed //incinerated
		//other (specify)
	c.	Off site facility receiving waste
		Name of Facility SAUGERTIES LANDEILL
		Facility Operator
		Facility Location
		Street City
		State Zip Code Phone

47-15-4(12/76)

	Company Code
II. Waste Characterization and Management Practi (Use separate form for each waste stream)	CE L.T. PLANT
1. Waste Stream No. 12 (from Form I, Numb	er 17)
2. Description of process producing waste	GRINDING SWARF
<u></u>	· · · · · · · · · · · · · · · · · · ·
3. Brief characterization of waste	IRON OKIDE, HOO, OIL
4. Time period for which data are represent	ative1976to
5. a. Annual waste production 348 🗷	tons/yr. //gal./yr.
b. Daily waste production	/tons/day //gal./day
c. Frequency of waste production: //seas	sonal $\overline{//}$ occasional $\not{\!$
<u></u>	er (specify)
6. Waste Composition	
a. Average percent solids $95$ b. pH re	ange_ to
c. Physical state: //liquid, //slurry,	<u>/</u> sludge, <b>Ø</b> /solid,
//other (specify)	
d. Component	Average //wet weight Concentration //dry weight
1. FRON CXIDE	95-100 Mywt. % //ppm
3. OIL	
4	
z.	/wt.% //ppm
7	
8	
9.	
10	/_/wc.* //ppm

		Company Code
	e.	Analysis of composition is //theoretical //laboratory //estimate (attach copy of laboratory analysis if available)
	f.	Projected //increase, //decrease in volume from base year: to y July 1977;
		\$ by July 1983.
	g.	Hazarous properties of waste: //flammable //toxic //reactive //explosive
		//corrosive //other (specify) UNKNOWN
7.	On	Site Storage
	а.	Method: drum, //roll-off container, //tank, //lagoon, //other(specify)
		Typical length of time waste stored / //days, //weeks, //months
		Typical volume of waste stored <b>E</b> A tons, / gallons
		Is storage site diked? Tyes MNo
	e.	Surface drainage collection //Yes // No
8.	Tr	ansportation
		Waste hauled off site by / you / Oothers
	ъ.	Name of waste hauler KEN DACHEN HAUSEN
		Address
		Street City
		State Eig Code Phone
9.	Tre	eatment and Disposal
	a.	Treatment or disposal: //on site //off site
	b.	Waste is //reclaimed //treatel // land disposed //incinerated
		//other (specify)
	c.	Off site facility receiving waste
		Name of Facility SAUCCETIES LANDFILL-
		Facility Operator
		Facility Location
		Street City ( )
		State Zip Code Phone

47-15-4(12/76)

•	•	Company Code
	te Characterization and Management Practice	0.00
	e separate form for each waste stream)	P. M. PONT
	Waste Stream No. 13 (from Form I, Number	
2.	Description of process producing waste	GRINDING
3.	Brief characterization of waste	GRINDING SUPPE
		tive 1976 to
5.	a. Annual waste production 750 At	•
	b. Daily waste production/t	cons/day //gal./day
	c. Frequency of waste production: $\overline{//}$ seaso	onal //occasional //continual
	/_/other	(specify)
6.	Waste Composition	
	a. Average percent solids% b. pH ran	age_ to
	c. Physical state: //liquid, //slurry, /	/sludge, //solid,
	//other (specify)	
	d. Component	Average //wet weight Concentration //dry weight
	1. CNKNOWN	//wt.% //ppm
		/_wt.% //ppm
	3	
	4	
	5	
	6. <u>**</u> **	/_/wt.% /_/ppm
	8	//wt.% //ppm
	9	//wt.% //ppm
	10	

7 70 0/74

•	•	Company Code
	e.	Analysis of composition is //theoretical //laboratory //estimate
		(attach copy of laboratory analysis if available)
	f.	Projected //increase, //decrease in volume from base year: \$ by July 1977;
		* by July 1983.
	g.	Hazardous properties of waste: //flammable //toxic //reactive //explosive
		//corrosive //other (specify)
7.	Oπ	Site Storage
	a.	Method: Adrum, //roll-off container, //tank, //lagoon, //other(specify)
	ь.	Typical length of time waste stored / //days, //weeks, //months
	c.	Typical volume of waste stored //tons, //gallons
	đ.	Is storage site diked? //Yes ///No
	<b>e</b> .	Surface drainage collection //Yes /Lyno
8.	Tr	ansportation
	a.	Waste hauled off site by //you /Yothers
	ь.	ware of waste hauler KEN DAMENHAUSEN
		Address
		Street City
		State Zip Code Phone
9.	Tre	eatment and Disposal
	a.	Treatment or disposal:on site
	ь.	Waste is
		//other (specify)
	c.	Off site facility receiving waste
		Name of Facility SQUCERTIES CANDFILL
		Facility Operator
		Facility Location
		Street City
		State Zip Code Phone

47-15-4(12/76)

KEN DACHENHAUSEN

KILLES DE BOY 21

RUBY NY 12475

TEL '314-246-5201 DE

WASTE DISPOSAL UL

WASTE DISPOSAL ULSTER COUNTY
12 MONTH PERIOD SWREY, DET FILTER CALCE, GRINDING SWREE,

		1.5.0	-
FERRITE WOSTE	HOPPER (3/440)	BARRELLS	BAREKLL
At .	4	78	- ~10°/
2	3	12	- 301
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· <b>4</b>	5	30	_
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7	4	18	<del>-</del>
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	6	71	(230)
10	<b>,</b> 6	16	(1· 3· C)
$\mathcal{H}$	8	117	320).
12	7,	67	t30.
13	6.	121	154
14		118	1,69
		696	,55 .3
	55.5 Y 03		6.94

54.5 / J

1.00	/ <u>`</u> /:	/ 40	xcua	Œ CORPOR	ATION		
		P.O. BO)	X 359, SAUGER Code 914 246	TIES, N. Y.			53583
	1 21 76				save .	: .	
SOLD .	NARISOL INC. 125 FACTURY L HIGDLESEX, N.	NIE J. 00846	٠.	8HIP • 70 •	:	<b>S</b>	•
SHIP VIA		PREPAID PPD &	CHGE COLLECT DATE		R ORDER NO.	0174 00	FC10
QUAN, ORDERED	PROD. CODE	PART	NO. & DESCRIPTIO		012 QUAN. SHIPPED	PRICE	AMOUNT
2 DEUMS 2 DEUMS		SOLDER FLUX INHIBISOL, DE	ETAR			-	
9 DRUPS 3 DRUPS		CRANE OIL, DI INHIDISOL CRANE OIL, DI ACETONE		•			
1 DRUM	-	ACETORE, INT	idisol, ethy	'L ACETATE			
		VASTE CHEMIC					
		(\$10 CHARGE I	PER DRUH)				-
:	. ;						
DISPOSITION	ISSUE CRE	DIT & REBILL	ISSUE CREDIT	ONLY F	XC PROPERTY TO	D BE RETURN	ED
<b>⊕</b> FORM #5000-000	11-000		PURCHASIN				·
	1 dr	Che	rothing	HU		0.25	'9al 16/2.2
•			150	cal		,	\$ 372

1 de Charother Mll 0.259al 16/2.2

50 gab \$\frac{\partial}{37.2}

Proposition o-174.5810

## DEBIT MEMO



## FERFIOXCUBE CORPORATION

No. 53584

P.O. BOX 359, SAUGERTIES, N. Y. Area Code 914 246-2811

1 21 76

HARISOL INC. 125 FACTORY LANE RIDDLESSE, N. J.

SAKE

1 DRUH	PROD. CODE		,	ART NO.						
1 DRUH					DESC	RIPTION		QUAN. SHIPPED	0 174 0	AMOUNT
KUNG I	:			A 5 E NU	٠				.\$07 G-L. .25/CAL	25.00 12.25
		•		٠,	٠.					\$37.25
		TO BI	E PIC	KED UF	BY I	rendor				
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			· :		( · ).	.55 ( <u>1</u> . 15)	•			
				11.12	· ;		·			

APD AS		) FERRO	COUSE C	ORPORATION	No.	53679
RM .	_ 4976		359, SAUGERTIES, N. Code 914 246-2811	Y.		• • • • •
SOLD .	MARISCI INC	N.J. 08846	SHIP . TO .	SAMP OUR ORDER NO.		
UAN, ORDERED	PRÓD. CODE	PART NO		69218	ACCOUNT NO.	
9 Druis			DESCRIPTION  III. ETHYL ACET	OUAN, SHIPPED	PRICE	00 5810 AMOUNT
L DRUM	,	SOLDER FLUX (				
		TO BE PICKED I		Isposal		
		(\$10.00 CHARGE	FER DRUM)			-
						-
			•	1 1	1	
ion [	ISSUE CREDIT & F	REBILL ISSUE C	REDIT ONLY FXC	PROPERTY TO BE	RETURNED	
78000-00011-000	1. Line 1. Lin	PURCH	ISING			<u>]</u>
· :	•••				· .	7
		· · · · · · · · · · · · · · · · · · ·				
					<u> </u>	
					:	



## FERROXCUBE CORPORATION

No. 53680

P.O. BOX 359, SAUGERTIES, N. Y. Area Code 914 246-2811

INVOICE DATE . 4 9 76

SOLD

KARISCL INC. 125 FACTORY LANE UNDDLESEX. N.J. 08646

QUAN. ORDERED PROD. CODE PART NO. & DESCRIPTION PRICE AMOUNT 4 DRUES CHLCROTHENE NU 50 GALS. EA. 200 GALS. .25/GAL. 50.00 50 CALS. EA. 6 DRUMS PRECR 300 GALS. .50/GAL 150.00 TO BE PICKED UP BY VENDOR ISSUE CREDIT & REBILL DISPOSITION ISSUE CREDIT ONLY

PURCHASING

PORM #5000-00011-000



## FERROXCUBE CORPORATION

No. 53747

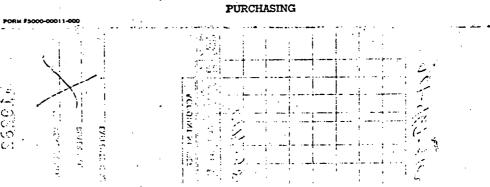
APD	XX
A5	
RM	

P.O. BOX 359, SAUGERTIES, N. %. Area Code 914 246-2811

INVOICE DATE . 5 26 76

. MARISOL INC. 125 FACTORY LAME . MIDDLESEX, H.J.

IIP VIA			PREPAID P	PD & CHGE	COLITCI	DATE SHIPPED	OUR O	RDER NO.	ACCOUNT NO.	
·							69	221	0 174 0	
UAN. ORDERED	PROD. CODE		P/	ART NO.	& DESC	RIPTION		QUAN. SHIPPED	PRICE	AMOUNT
7 DRUMS	<b>.</b> :	CHLORO' CRANE I	THERE DIL, (	NU, E DETAR	THYL	ACETATE,				
1 DRUH		CHLGRO' ACETIC	THENE ACID	KU, G	LACIA	L REENAINX	-	,		-::-
	•			• •;			4. *	,		
		TO BE	PICKE	UP D	Y VEN	DOR				
		EASTE (	CHENIC	ALS -	ALL	FOR DISPOSA	L			
	* *	(\$10.00	CHAR	IGE PE	r dru	м)				
ļ										•
		-			*,			254	gul,	
		. •						P .		
SPOSITION	ISSUE CRE	OIT & REBIL	L	Is	SUE CR	EDIT ONLY	FXC	ROPERTY TO	BE RETURNE	D .
	•	•		PÜ	RCHA	SING				





#### FERROXCUBE CORPORATION

No. 53144

•	APD	<b>}</b> ×
	A5	
	RM	

P.O. BOX 359, SAUGERTIES, N. Y. Area Code 914 246-2811

INVOICE DATE . 5 26 76

	· MARISOL INC.
SOLD	• 125 FACTORY LANE
TO	· MIDDLESEX, M.J. 08846

. SAME

TO .

ENIP VIA

PART NO. 8 DESCRIPTION

SULAN. ORDERED

PROD. CODE

PART NO. 8 DESCRIPTION

SULAN. SHIPPED

PRICE

AMOUNT

SULAN. STORY

SULAN. STOR

PURCHASING

### DERLE INEMO

No. 53863



## FERROXCUBE CORPORATION

Area Code 914 3-16-2811

9 13 76 INVOICE DATE .

HARISOL INC. 125: FACOTRY LANE HIDDLESEX, H.J. 08846 SAME

69230 0 174 00 5810 PRICE AMOUNT QUAN. ORDERED PROD. CODE HU ACETATE CRAHE OIL DETAR 7 DELINS HU ACETATE CRANE OIL DETAR ET ACETONE e druis CRAME OIL 4 DRUMS (15 GAL.) DE SCALING ACID 4 CARBOYS TO BE PICKED UP BY VENDOR WASTE CHEMICALS - ALL FOR DISPOSAL

SPOSITION	L	ISSUE CREDIT & REBILL	ISSUE CREDIT ONLY	لــا	FXC PROPERTY TO

PURCHASING

No. 53862



## FERROXCUBE CORPORATION

P.O. BOX 359, SAUGERTIES, N. Y. Area Code 914 246-2811

RM

INVOICE DATE .

SOLD

. 9 13 76 . MARISOL INC.

. MARISOL INC. . 125 FACTORY LANE . MIDDLESEX, R.J. 08846

X, R.J. 08846

SAPLE

PREPAID PPD & CREE COLLECT DATE SHIPPED OUR ORDER NO. O. 17/OUAN. ORDERED PROD. CODE PART NO. & DESCRIPTION SHIPPED PRICE AMOUNT

CHLOROTHENE NU 50 GALS. EA. .25/GAL 75.00

TO BE PICKED UP BY VERDOR

DISPOSITION	$\overline{}$	ISSUE CREDIT & REBILL	Г	ISSUE CREDIT ONLY	_	FXC PROPERTY TO BE RETURNS
DISPUSITION	L	ISSUE CREDIT & REBILL	_	ISSUE CREDIT ONLY	Ц.	PAC PROPERTY TO BE RETURNE

RM #5000-00011-000

PURCHASING

Asset Services			
AS AX		5083 KINGS HIGHWAY, SAUGERTIES, N. Y.	
RM		Area Code 914 246-2811	
		the state of the s	
INVOICE DATE .	6 77		•
<b>2.</b> 0	ARISOL INC.	₩	
SOLD 🚼 . 1.	25 FACTURY L	.™E SHP •	•
10 🚂 🛭	IDELESEX, W.	.J. 03246 <sup>TO</sup> • SAME	
. <del></del>		•	
SHIP VIA		PREPAID PPD & CHGE COLLECT DATE SHIPPED OUM ORDER NO.	ACCOUNT NO 1 511 5100
		905:33 OUAN.	4 542 5100
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			1 . 1
13 DRUMS	,	NU ACETATE BRAS CRAHE OIL ACETONE DETAR	R/C
·		4. 4044. 4.0776	1
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5 DELBOYS		SEXETALLUXARID DESCALING ACID	11/0
•	. •		
-			
1			1 . 1
		TO BE PICKED UP BY YERBOR	
		TO BE FICKED OF DI VENOVA	
		MASTE CHENICALS - ALL FOR DISPOSAL	
	•	-	
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DISPOSITION	ISSUE CRE	DIT & REBILL ISSUE, CREDIT ONLY FXC PROPERTY TO	BE RETURNED
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*		PURCHASING	
<b>⊕</b> FORM # 5000-0001	11-000		•
ساعدوه ووالمسادين		الأصاب الأخراء المتحدة المصطبقات الأحد والمصطبقين المصيدة المتحدة المطابقية المعطبية المدارية المتحد والأوراق ال الأ الأراد الأراد الأراد المصطبقات الأحد والمصطبقين المصيدة المتحدة المطابقية المعطبية المحددة المتحددة الأراد ال	د . د مستدارهها
		5.25	6
	>		<b>/</b> .
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		[34] [4] [4] [4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-	. 7
	<del>-</del> ??		16
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3	, <b>£</b> ,		W 1
		T.	•

No. 54016

FERROXCUBE CORPORATION



APD

5083 KINGS HIGHWAY, SAUGERTIES, N. Y. Area Code 914 246-2811 AS INVOICE DATE 1 6 77 MARISCL INC. 125 FACTORY LANE MIDDLESEX, N.J. 03846 SOLD TO SA:E 1 511 5100 4 542 5100 QUAN. SHIPPED QUAN. ORDERED PROD. CODE PART NO. & DESCRIPTION AMOUNT 5 DRUKS MU SO GALS. EA. .25/GAL FECT 50 GALS. .50/GAL 1 DRUM TO BE PICKED UP VERCOR ISSUE CREDIT & REBILL ISSUE CREDIT ONLY FXC PROPERTY TO BE RETURNED DISPOSITION **PURCHASING** FORM # 5000-00011-000 G)

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID WASTE MANAGEMENT

#### **FACILITY INSPECTION REPORT**

CENTRAL OFFICE COPY

	-	_			
		18	7	_	154CHATE
		- 1			LEACHATE
					1. Leachate is entering surface water.
		- 1		_	2. Leachate is known to be contravening groundwater standards.
		- 1			3. Refuse is being placed into water.
	07	,			but an extended of the control of th
	Dept. Of Health An of Toxic Substances	) [			BURNING
	2	!!			4. Refuse is burning without permit or not under permit conditions.
	5	1			5. There is evidence of unapproved previous burning.
	~	i i		-	
_	e ë				COVER
7	قہ تا	<b>i</b>			6. Previous days refuse is not covered.
,	- =	:		I	7. Refuse is protruding through daily, intermediate or final cover.
1	ã c	•			8. Intermediate or final cover is not in place or improperly applied.
ď	¥ .,	.			
۰	~ 3				GRADING
۹	M N	1			9. Depressions, ponding, cracked cover, or slopes steeper than 3 to 1 exis
1		<b>i</b>			10. Vegetative cover is missing or inadequate on completed areas.
	-	1		i	11. Soil erosion or other drainage problems exist.
		. 1			11. Soil erosion or other drainage problems exist.
1	K 7	: I:	(Z		SEPARATION DISTANCES
4	5	' 1	≋		12. Refuse is closer than 50 feet to site boundaries.
í	5 z	ı	7		
•	`` : <b>(</b>	1	Š		13. Refuse is being placed less than 5 feet above groundwater or bedrock.
ŀ		) [	REMARKS		14. Refuse is being placed too close to surface water.
,	Berest	!	2		
۰	3 2	!!			NUISANCE CONDITIONS  15. Odors are detectable off site.
,	5 P	'			15. Odors are detectable off site.
		I			16. Blowing dust or dirt is a nuisance.
		- 1		_	17. Papers are uncontrolled or are blowing off-site.
		ı			18. Methane gas is known to be leaving the site.
,	ì	- 1			10, Methatie gas is known to be leaving the site.
	1	- 1		٠	19. Noise is a nuisance off-site.
	,				
	14 TIME 17	0		-	OPERATION CONTROL  Operation Permit conditions are being violated. (List violations)
	62			-	20. Operation remitt conditions are define violations (and violations)
	15	ĽVĽ			21. Refuse is not sufficiently confined or controlled.
	ΙĒ				22. Refuse is spread in layers thicker than 2 feet.
	12	"Д			23. Refuse is not compacted or compacted insufficiently.
	-				
		•			24. The working face height is greater than 10 feet.
	13	2	88		25. Equipment on the site is not adequate for proper operation.
	1	Us_	<u>د</u>		
	63		37	Н	SAFETY AND HEALTH
	DATE	$Q_{\perp}$		<del>V</del> ⊢	26. Salvaging is uncontrolled or is creating a nuisance.
	∢	٦.	ဗ္ဗ	. <b>7</b> -	27. Rodents, insects, birds, or other vectors are not controlled.
	ΙΩ	~_		1_	28. Unsafe conditions or equipment exist. (List items)
		X	ļ.	7	200 Charle Conditions of Equipment Colors (Cost Norma)
	∞ .	ი	臼	<i>o</i> 7	ACCESS CONTROL
	<u></u>	<u> </u>	≍ '	W-	වි. Access to the site is improper, unsafe, or inadequately controlled.
	-	///	ا≥ا	<b>λ</b> -	30. The site is open without an attendant.
	lo 1	//	Z	2	
	Ž	0	153	<b>/</b> -	31. Information about the site is not posted. (e.g., hours of operation)
	≻	_	15	4	₹ 32. Access to the operating area is poor or unsafe.
	2 FACILITY NO. 7	` >	INSPECTOR'S NAME	4	1
	님	$\sim$	ည	4-	OTHER .
	Ö	<i>,</i> -	ᄩ	b-	33. Uncontrolled leachate is visible on, or near the site.
	].<	\Q_	NO.	. 0	34. The quality of cover material is inadequate.
	154	<b>1</b> ~_	]≧\	V	
,	10	<u> </u>	1	.7-	35. The working face is steeper than a 3 to 1 slope.
١	r-3	•	1 (	17	36. Monitoring wells are not operative.
١	ᇤ		22	NU	37. Unapproved wastes have been deposited since last inspection.
Į	<b>∑</b> •		62		38. Operator is unfamiliar with wite boundaries, operation plan or permit
١	F 3	T	12		[ <del>1</del> ]
1	TRANS.TYPE	A Add	2	_	1 2 4
ı	4 -	<u>.</u> .	191	Ĕ .	MARK BOXES WITH "X" ONLY IF ANSWER IS YES
1	<u> </u>	X	ולון	<b>5</b>	MARK BOXES WITH "X" ONLY IF ANSWER IS YES
١	H	C,	CARD	<b>⊢</b> _	Central Office Copy
1			آما	_	Lie Ti Central Unice Copy

RTLIL Uline Induquities Indangenties

G. Hartum Operator

SITE SKETCH/COMMENTS (additional sheets attached YES NO)

# 17 Papers blown into wooded area East of working face #33 Leachate along tol of Worth Stope



Appendix 1.1-10

p 1.51

#### COMMUNICATIONS RECORD FORM

Distribution: (8 Town of Sanglettes LF ()
()
( ) Author
Person Contacted: Edward Kahill / Edwin Schonniken Date: 12-18-85
Phone Number: 331-9300 Title: assistant Public Health Engineers
Affiliation: Water Co. Dept. of Health Type of Contact: intervein
Address: 244 Fair St. Person Making Contact: L. Wilson
Kongator N.Y.
Communications Summary: Town of Saugenties L.F. 356003
Elivated levels of iron and mangrasa are found
in ground water at site. The site is an old
quary. There is only shale under the L.F.
There has been no recent problem with leash to
drawing into an against strawn.
(see over for additional space)
Signature: Larry Wilson

Appendix 1.1-11

Received from

MYSDEC Region 3 p 1.44

Jean Ed,

I have exclosed a copy of test result of the

faugestic Fundfills two monitoring wells. I have also

scheduled a meeting of our Town Engineering from the UCBH at our fand fell or April 11. at I for I hope you

will be able to attended.

Thank Jan

John Herra (48 Clirmond St. Sung) Vangentus Town Board

## EnviroTest 😂 Laboratories. Inc.

## RECEIVED

MAR 21 1985

## New Putz

DATE REC'D: 85/02/07 LAB#: 33467A

NAME: (T) Saugerties

: 550

: 11

: <2 ug/l

: 0.30

: < 0.01

SOL

SPL LOCATION: Landfill, North GWMW

DATE COLL'D: 85/02/07 STATUS: closed

FNAME:

STATE: CITY:

COLL'D BY: E. Andersen, EnviroTest

EPORT TO: TO:

COL1:	Cr+6 →: <0.05	COD : 450
COLI:	Phenol: <0.005	HARD-T : 1000
SFC :	CH :	Ca Hard:
= :	₽ :	<b>S</b> 03 :
03 : 1.2	Br :	Cl : 410
NO2 :	Color : 2.5 Pt-Co	Alk : 110
T-P04 :	odor : 1	BOD-Inf:
F-P04 :	Turb :	<pre>EOD-Eff:</pre>
54 : 110	pH :.7.4	EOD-S :
MBAS : <0.02	LI :	TSS-Inf:
mi02 :	Cond : 150 uMH0S	ISS-Eff:
28 :	NH3-T : <0.4	.MLSS :
NH3-C :	TKN : 8.3	MLVSS :
<b>.</b>	ca : 19.8	: :
	OF : <0.05	90 : ⟨2 U¢/

Co Ciu

Au Fe

PE Ma

Mri

Ha Mo

Ni

Pd

1	. (0.7			-
	: 8.3	MLVSS		•
	: 77.28	;	:	·
	: <0.05	泛杂	:	<2 uc/l
	:	. A⊈	:	v0.01
	: 140.05	Na	:	12
	:	71	:	
	: 12	Sri	:	
	: <0.05	Ti	:	•
	:	V	:	
	: 0.95	Zri	:	0.11
	: 0.4 ug/l	THM	:	
	•	TOC	:	4.9
	: 0.11			
		Sr	:	<0.1

Remotes: All results in mo/1 unless otherwise indicated.

Ronald A. Bayer Laboratory Director∬

3/4/85

p 3.f4

```
DATE COLL'D: 85/02/07 STATUS: closed
                   DATE REC'D: 85/02/07
LAB#: 334678
LNAME: (T) Saugerties
                                            FNAME:
                                            CITY:
                                                                 - STATE:
STREET:
                                                                              ZIP:
SPL LOCATION: Landfill, South GWMW
REPORT TO-
9 LLL
        10:
                             Cr+6
                                                       COD
                                                               : 550
T COLI:
                                    : <0.05
                                                       HARD-T : 550
F COLI:
                             Phenol: 0.010
                                                       Ca Hard:
SPC
                             CN
                             В
                                                       S03
                                                       Cl
                                                                 97
NO.3
       : 6.2
                             Br
                                    : 50 Pt-Co
                                                       Alk
                             Color
                                                               : 1400
MG2
                                    : 3
                                                       BOD-Inf:
T-P04 :
                             0dor
                                                       BOD-Eff:
0-P64 :
                             Turb
         72
S04
                             PH
                                      6.9
                                                       BOD-S
                                                       TSS-Inf:
MBAB
         0.21
                             L.I
                                                       TSS-Eff:
31021
                             Cond
                                    : 2200 uMH05
H23
                             MH3 -T
                                    . 91
                                                       141.38
MHTHO
                             TKN
                                      100
                                                       MLV38
VSS
                             Cal
                                      2.3
TS
                             0r
                                    : <0.05
                                                       Se
                                                              : <2 ug/l
V3
                             Co
                                                       Αg
                                                              : <0.01
TDS
         1700
                             Cu
                                      <0.05
                                                       Na
                                                              \pm .320
33
                                                      TI
                             Au
% SOL
                             Fe
                                    : 35
                                                       Sn
630:
                                                       Τi
                             Pb
                                    : <0.05
                                                       V
Al
        1.4
                             Ma
Sb
                                      1.5
                                                       ZΠ
                                                              : 1.5
                             Mri
                                    :
45
       : 4.2 \text{ ug/l}
                             Hq
                                      <0.4 \text{ ug/l}
                                                       THM
Вa
                                                       TOO
                                                              : 56
       : 0.31
                             Mo
Be
                             Νi
                                      0.17
       : <0.01
                             Pd
                                                      Sr
                                                             : <0.1
```

Ronald A. Bayer Laboratory Director

3/4/85

Remarks: All results in mg/l unless otherwise indicated.

## FERROXCUBE

DIVISION OF AMPEREX ELECTRONIC CORP.

Seugerues, NY 12477 914-246-2811 TWX 510-247-5410 R&E/2-76

April 12, 1982

Town of Saugerties Town Hall Main Street Saugerties, NY 12477

ATTN: George Turner, Town Supervisor

RE: Ground Water Well Monitoring Analysis

(T) Saugerties Landfill 3/27/82

Dear Mr. Turner:

The results of the referenced analyses are as follows:

Parameter	Unit	1-North Well	2-South Well	3-House Well
Chlorides	mg/l	13	280	50
Conductivity	umhos/cm	220	1800	640
pН	standard	6.7	6.5	9.2
TOC	mg/l	15	21	7
Aluminum	mg/l	<1.0	<0.1	<0.1
- Barium	mg/l	<0.5	<0.5	<0.5
- Chromium (T)	mg/l	<0.1	<0.1	<0.1
Chromium (Hex)	mg/l	< 0.05	< 0.05	<0.05
Iron	mg/l	0.7	4.7	0.1
Manganese	mg/l	<0.1	7.3	<0.1
Nickel	mg/l	<0.1	0.1	<0.1
Strontium	mg/l	0.4	2.3	<0.1
zinc	mg/l	<0.1	<0.1	<0.1

If there are any questions regarding this data, please do not hesitate to contact the undersigned.

Very turly yours,

Joseph L. Wolf, Jr. Environmental Engineer

cc: E. Jones

S. Dahlman (T) Saugerties

KEULVED

APR 15 1992

/cab

ULSTER COUNTY HEALTH DEPARTMENT 0483

#### NEW YURK STATE DEPARTMENT OF HEALTH DIVISION OF LABORATORIES AND RESEARCE ENVIRONMENTAL HEALTH CENTER

RECEIVED FROM USEPA

REGION II

RESULTS OF EXAMINATION (PAGE 1 OF 2)

LAB ACCESSION NO: 00692 YR/MO/DAY/HR SAMPLE RECID: 79/05/22/11

REPORTING LAB: 10 EHC ALBANY

PROGRAM: 124 .

STATION (SOURCE) NO:

DRAINAGE BASIN: 13 NY GAZETTEER NO: 5564 COUNTY: ULSTER

DEG ! COORDINATES: DEG "N,

COMMON NAME INCL SUBWISHED: IN SAUGERTIES UPGRADIENT MONITOR WELL FOR

GROUND WATER

EXACT SAMPLING POINT: 9FT BELOW GROUND SURFACE

TYPE OF SAMPLE: 25 GROUND WATER

MO/DAY/HR OF SAMPLING: FROM 00/00 TO 05/21/14

REPORT SENT TO: CO (1) RO (1) LPHE (1) LHO (0) FED (0) CHEM (0)

PARAM	ETER	TINU	RESULT	NOTATION
000401	FLUORIDE, FREE	MG/L	0,13	
000801	NITROGEN, NITRATE&NITRITE	MG/L	0.60	
009401	BARIUM	MG/L	0,5	LT
010301	MERCURY, TOTAL	MG/L	0.0004	LT
010601	SILVER	MG/L	0.02	LT
309301	ARSENIC	MG/L	0.01	LT
309701	CADMIUM	MG/L	0.003	
309801	CHRONIUM	MG/L	0.05	
310101	LEAD	MG/L	0.01	
310501	SELENIUM	MG/L	0.01	LT
001900	PH (LABORATORY)		7.0	
001001	CHLORIDE	MG/L	3.	
002401	SULFATE AS SO4	MG/L	11.	
	000401 000801 009401 010301 010601 309301 309701 309801 310101 310501 001900 001001	000801 NITROGEN, NITRATE&NITRITE  009401 BARIUM  010301 MERCURY, TOTAL  010601 SILVER  309301 ARSENIC  309701 CADMIUM  309801 CHROMIUM  310101 LEAD  310501 SELENIUM  001900 PH (LABORATORY)  001001 CHLORIDE	000401       FLUORIDE, FREE       MG/L         000801       NITROGEN, NITRATE&NITRITE       MG/L         009401       BARIUM       MG/L         010301       MERCURY, TOTAL       MG/L         010601       SILVER       MG/L         309301       ARSENIC       MG/L         309701       CADMIUM       MG/L         309801       CHROMIUM       MG/L         310501       SELENIUM       MG/L         001900       PH (LABORATORY)         001001       CHLORIDE       MG/L	000401       FLUORIDE, FREE       MG/L       0.13         000801       NITROGEN, NITRATE&NITRITE       MG/L       0.60         009401       BARIUM       MG/L       0.5         010301       MERCURY, TOTAL       MG/L       0.0004         010601       SILVER       MG/L       0.02         309301       ARSENIC       MG/L       0.01         309701       CADMIUM       MG/L       0.03         309801       CHROMIUM       MG/L       0.02         310101       LEAD       MG/L       0.01         310501       SELENIUM       MG/L       0.01         001900       PH (LABORATORY)       7.0         001001       CHLORIDE       MG/L       3.

DATE COMPLETED: 7/30/79

AUG 1 1979

ULSTER COUNTY HEALTH DEPARTMENT

SUBMITTED BY: SCHONMKE

DIRECTOR OF ENVIRONMENTAL SANITATION ULSTER COUNTY HEALTH DEPARTMENT 300FLATBUSH AVENUE KINGSTON, NEW YORK 12401

0484 -

## NEW JRK STATE DEPARTMENT OF HEALTH DIVISION OF LABORATORIES AND RESEARCH ENVIRONMENTAL HEALTH CENTER

1.2014

PECETVED FROM USEPA

REGION II

RESULTS OF EXAMINATION

(PAGE 2 OF 2)

YR/MO/DAY/HR SAMPLE REC'D: 79/05/22/11

REPORTING LAB: 10 EHC ALBANY

PROGRAM: 124

STATION (SOURCE) NO:

LAB ACCESSION NO: 00692

DRAINAGE BASIN: 13 NY GAZETTEER NO: 5564 COUNTY: ULSTER

COORDINATES: DEG ' "N, DEG ' "W

COMMON NAME INCL SUBWISHED: IN SAUGERTIES UPGRADIENT MONITOR WELL FOR

GROUND WATER

EXACT SAMPLING POINT: 9FT BELOW GROUND SURFACE

TYPE OF SAMPLE: 25 GROUND WATER

MO/DAY/HR OF SAMPLING: FROM 00/00 TO 05/21/14

REPORT SENT TO: CO (1) RO (1) LPHE (1) LHO (0) FED (0) CHEM (0)

PARAMETER		UNIT	RESULT	NOTATION
311101	ALUMINUM	MG/L		NA
009901	COPPER	MG/L	0.05	LT
010001	IRON	MG/L	(0.76).	$a \leftarrow lon^{-3}$
010201	MANGANESE	MG/L	0,18	
010901	ZINC	MG/L	0.14	

Constrained Comment

DATE COMPLETED: 7/30/79

BECEIVED

AUG 1 1979

ULSTER COUNTY HEALTH DEPARTMENT

DIRECTOR OF ENVIRONMENTAL SANITATION ULSTER COUNTY HEALTH DEPARTMENT 300FLATBUSH AVENUE KINGSTON, NEW YORK 12401

SUBMITTED BY: SCHONMKE

#### NEW . RK STATE DEPARTMENT OF HEALTH DIVISION OF LABORATORIES AND RESEARCH ENVIRONMENTAL HEALTH CENTER

1.314

PRCEIVED FROM USEPA REGION II

RESULTS OF EXAMINATION (PAGE 1 OF 2)

LAB ACCESSION NO: 00686 YR/MO/DAY/HR SAMPLE RECID: 79/05/22/11

REPORTING LAB: 10 EHC ALBANY

PROGRAM: 124

STATION (SOURCE) NO:

DRAINAGE BASIN: 13 NY GAZETTEER NO: 5564 COUNTY: ULSTER

COORDINATES: DEG ' "N, DEG ! "W

COMMON NAME INCL SUBWISHED: TH SAUGERTIES LANDFILL DOWNGRADIENT GRO

UNDWATER MONITOR WELL

EXACT SAMPLING POINT: 11 FEET BELOW GROUND SURFACE

TYPE OF SAMPLE: 25 GROUND WATER

MO/DAY/HR OF SAMPLING: FROM 00/00 TO 05/21/14

REPORT SENT TO: CO (1) RO (1) LPHE (1) LHO (0) FED (0) CHEM (0)

PAR	AMETER	UNIT	RESULT	NOTATION
000401	FLUORIDE, FREE	MG/L	0.1	LT
000801	NITROGEN, NITRATE & NITRITE	MG/L	0,2	LT
009401	BARIUM	MG/L	0,5	LT
010301	MERCURY, TOTAL	MG/L	0.0004	LT
010601	SILVER	MG/L	0,02	LT
309301	ARSENIC	MG/L	0.01	
309701	CADMIUM	MG/L	0,002	LT
309801	CHROMIUM	MG/L	0,01	
310101	LEAD	MG/L	0.01	LT
310501	SELENIUM	MG/L	0,01	LT
001900	PH (LABORATORY)		6.5	
2001001	CHLORIDE	MG/L	130.	
002401	SULFATE AS 504	MG/L	110.	

DATE COMPLETED: 7/30/79

RECEIVED

AUG 1 1979

ULSTER COUNTY HEALTH DEPARTMENT

SUBMITTED BY: SCHOONMAK

DIRECTOR OF ENVIRONMENTAL SANITATION ULSTER COUNTY HEALTH DEPARTMENT 300FLATBUSH AVENUE? KINGSTON, NEW YORK 12401

#### NEW JORK STATE DEPARTMENT OF HEALTH DIVISION OF LABORATORIES AND RESEARCH ENVIRONMENTAL HEALTH CENTER

PECEIVED FROM USEPA REGION II

RESULTS OF EXAMINATION

(PAGE 2 OF 2)

LAB ACCESSION NO: 00686 YR/MO/DAY/HR SAMPLE REC'D: 79/05/22/11

REPORTING LAB: 10 EHC ALBANY PROGRAM: 124 \_

STATION (SOURCE) NO:

DRAINAGE BASIN: 13 NY GAZETTEER NO: 5564 COUNTY: ULSTER

COURDINATES: 1 "N, DEG DEG

COMMON NAME INCL SUBWISHED: TN SAUGERTIES LANDFILL DOWNGRADIENT GRO

UNDWATER MONITOR WELL

EXACT SAMPLING POINT: 11 FEET BELOW GROUND SURFACE

TYPE OF SAMPLE: 25 GROUND WATER

MO/DAY/HR OF SAMPLING: FROM 00/00 TO 05/21/14

REPORT SENT TO: CO (1) RO (1) LPHE (1) LHO (0) FED (0) CHEM (0)

■ PAR	AMETER	UNIT	RESULT	NOTATION
311101	ALUMINUM	MG/L	0.76	• •
010201	MANGANESE	MG/L	(6,0),	2 ->-
010901	ZINC	MG/L	0.15	
009901	COPPER	MG/L	0.05	LT
010001	IRON	MG/L	(8,3), (	) · > · .

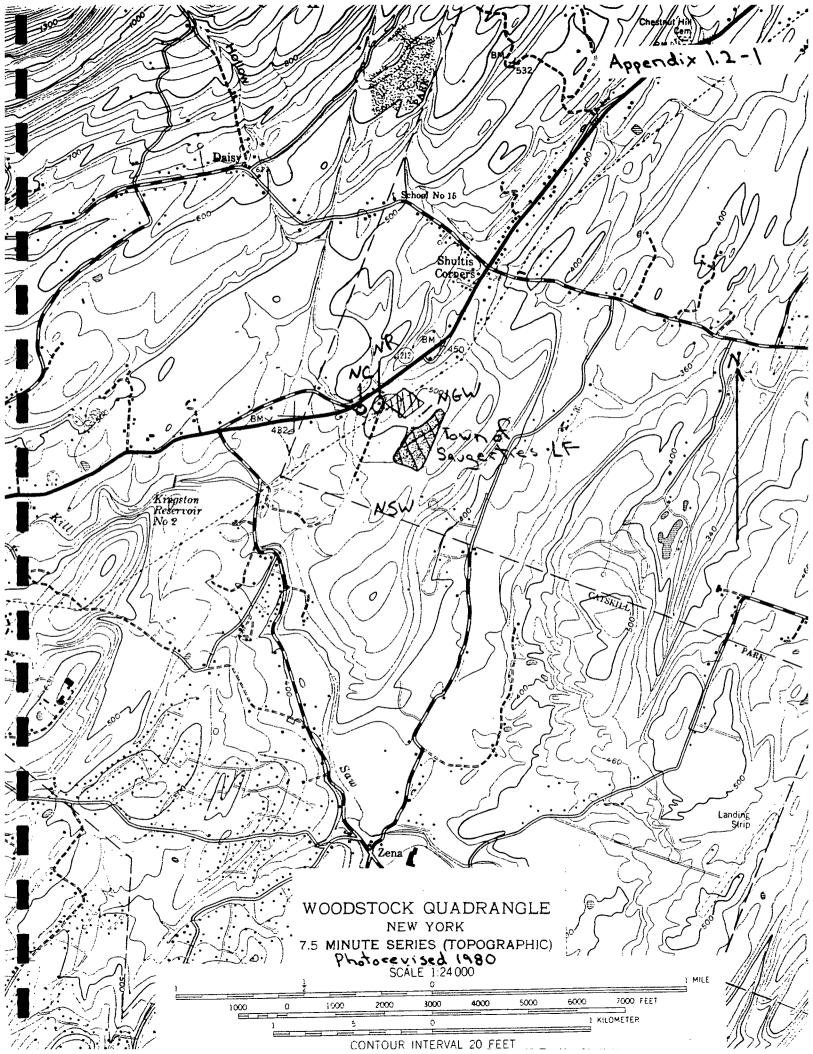
DATE COMPLETED: 7/30/79

AUG - 1 1975

ULSTER COUNTY HEALTH DEPARTMENT

DIRECTOR OF ENVIRONMENTAL SANITATION ULSTER COUNTY HEALTH DEPARTMENT 30 FLATBESH AVENUE KINGSTON, NEW YORK 2 12401

SUBMITTED BY: SCHOONMAK



2701

# Ground-Water Resources of Orange and Ulster Counties, New York 77457

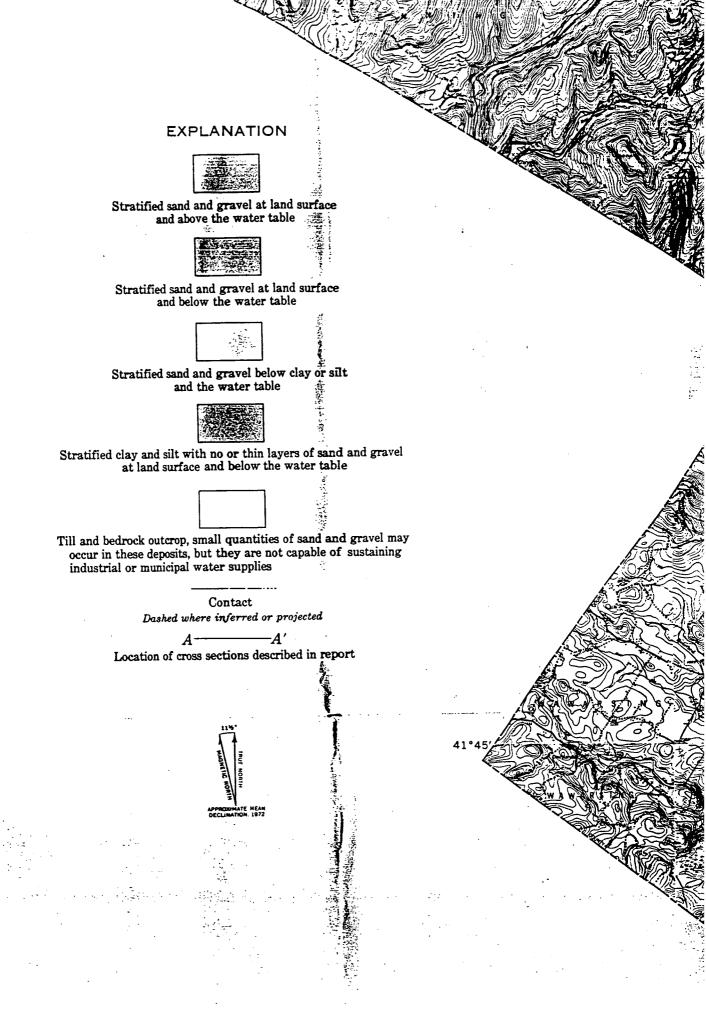
By MICHAEL H. FRIMPTER

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1985

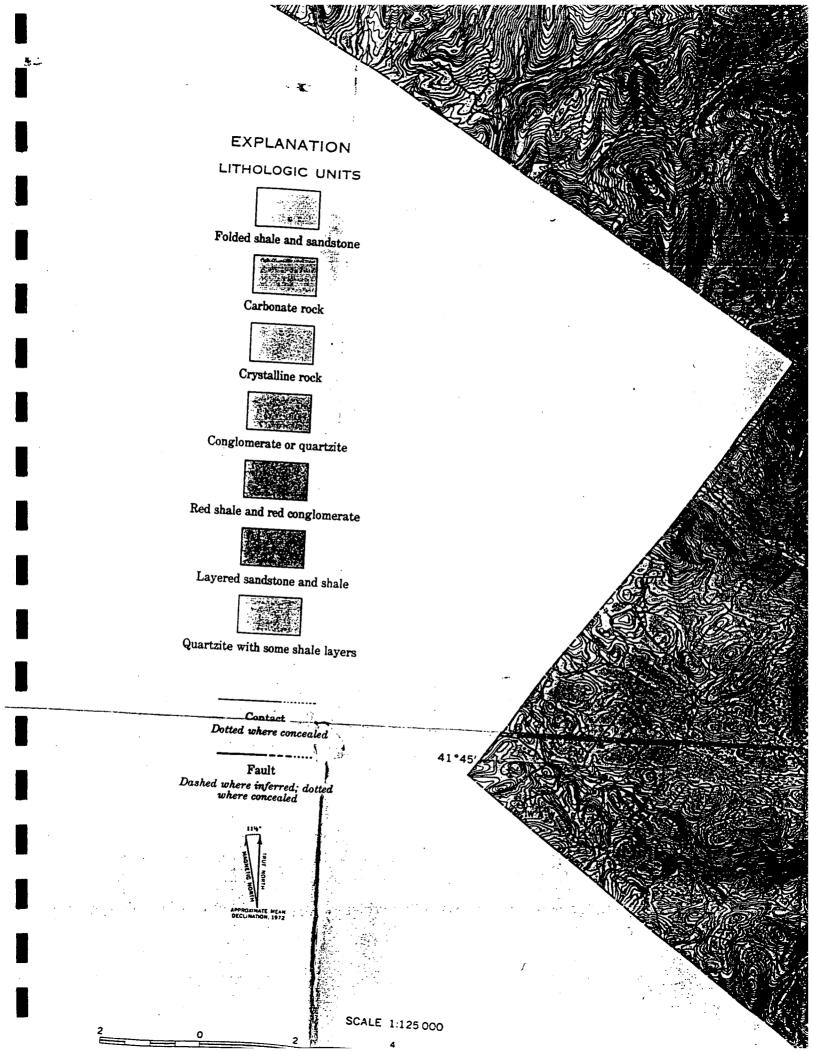
Prepared in cooperation with the New York State Conservation Department



UNITED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON: 1972







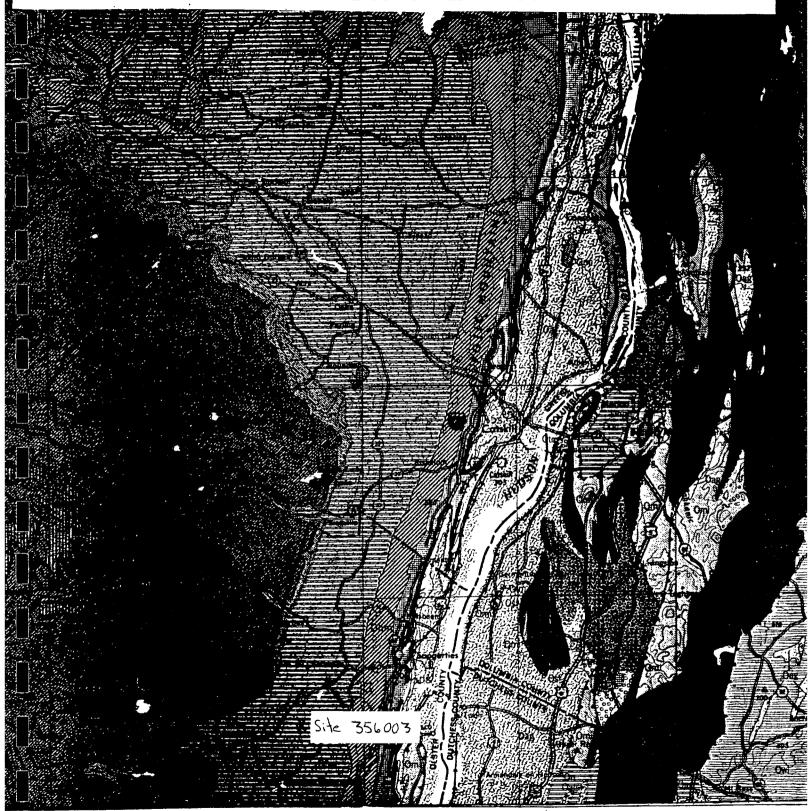


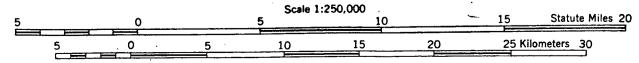
## GEULUGIC MAP OF NEW YURK

1970

Appendix 1.3-2

## Hudson-Mohawk Sheet

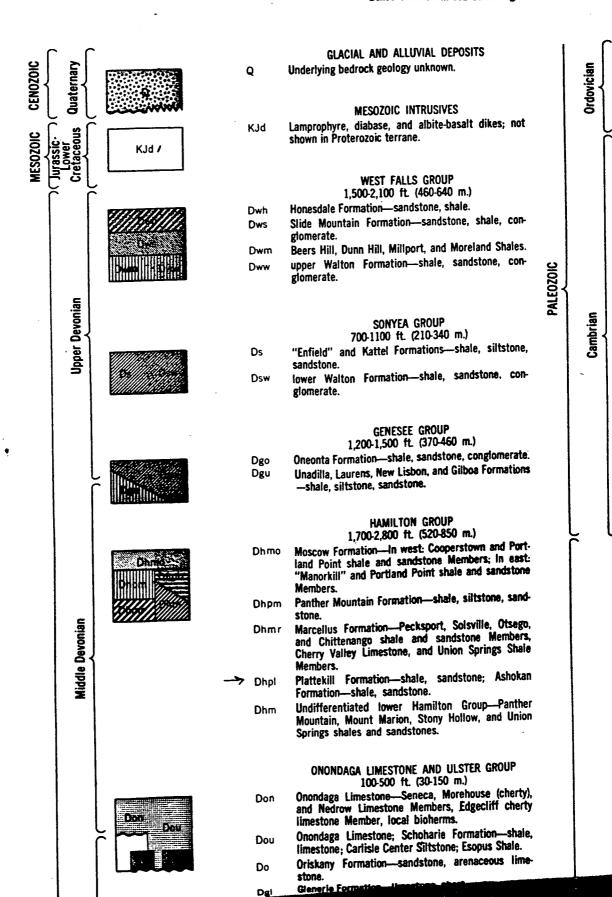




Randem dash, V, and — patterns: igneous or meta-igneous rocks
A query (?) placed before the symbol of a mapping unit significant may be older than the age indicated. A query placed after to a mapping unit signifies doubt concerning the identification of the irregular lower margin on the "color bexes" signifies that an unconformable relationship with subject units, however no with the next unit listed. Wavy lines signify parallel unconformable tooth lines signify angular unconformities.

Bexes cuttined in red denote igneous or meta-igneous recks.

Ont !



15'

43000

## GROUND-WATER BASIC DATA ? lof 4 RANGE AND III COM-ORANGE AND ULSTER COUNTIES **NEW YORK**

BY

MICHAEL H. FRIMPTER U.S. GEOLOGICAL SURVEY



Prepared by

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY in cooperation with

NEW YORK WATER RESOURCES COMMISSION

STATE OF NEW YORK CONSERVATION DEPARTMENT WATER RESOURCES COMMISSION

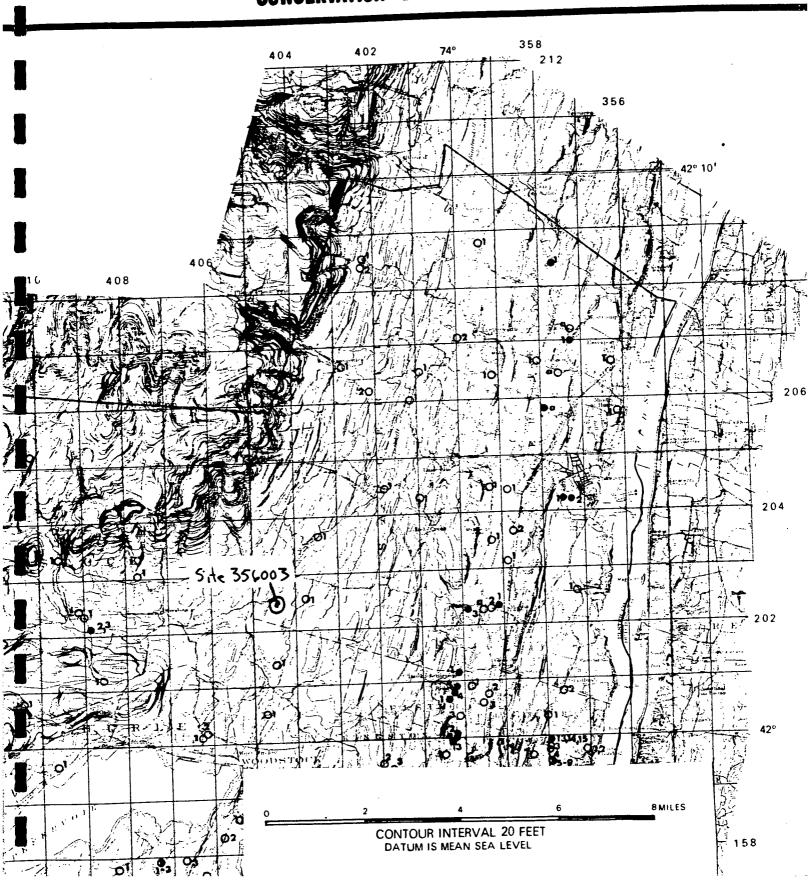
Table 1. -- Records of selected wells and springs (Continued)

		Reported yield		Method of	Depth		Length		Water delow	I gve 1	Topo- graphic	Altitude	
Meli number	Owner's name	(gallons per minute)	Use	construction; completion	of well (feet)	Diameter (inches)	of casing (feet)	Aquiter	land Surface (reet)	bate	tion	Sea level (feet)	Kemarks
204-427-1	Richard Gavette	12	D		r72	7	68	Sands tone	110	s/ 1766	٧ř	1,375	
-2	John Rossitz	40	D	Dr; O€	r96	1	97	Gravel	110	6/12/65	vf	1,375	Backfilled L It,
204-418-1	Mr. Michels		0	Du; P	18	36	18	titi .	6.0	2/25/49	115	820	
204-412-1	Howard Humphries	20	٥	Dr; OH	135	6	20	Sandstone	6.0	6/16/65	115	1,110	
204-411-1	School No. 5		ı		61	6		do.	Llows	7/25/66	vf	1,200	Partial analy temp 1/2-27/25/66.
204-401-i	Mr. Talia		0		rHS	6		do.			45	320	
204-400-1	Mr. Kanen	6	0	Dr; OH	45	6		do.	••		VI	370	
204-359-1	Unknown		A		r125	6	6	Shale	1 lows	//13/49	Hs	190	Han.
204-358-1	Arthur V, Wallot	52	0	'	r107	ь	56	Carbonate	15	1956	VI	105	Ün.
204-357-1	Ar, Schranter		T	0r; 0E	r114		114	·lay	+13		٧٠	65	Log; destrayed.
-2	do.		T	Or; Of	r25		25	Sand	ιä	••	٧-	>₫	'tag.
203-419-1	Paul Miller	10	D		440	8, 6	5/0	Sandstone	150	8/23/49	415	1,200	
203-409-1	A, D. Harris		0		r167	6	30	Shale			V)	360	
203-407-1	Mr. Greenwood	7	0		r 176	6	10	Sandstone	* ••	••	115	750	
203-403-1	John Messelgrave	••	D		107	6		Shale	lt,t	D)\n/60	44	345	
203-359-1	D. Camposa	••	0		r145	6		do.	+5	7/14/49	9	260	1172.
203-358-1	Charles Bennett	••	0		166	· 6		Carbonate	1,5	(1)/10760	<b>V</b> F	165	0n.
-2	Unknown	26	0		r45	6	30	do.	126	5/23/49	VF	160	
202-417-1	D, Schaffer	30	0		120	6	90	Sandstone	tions	7/25/49	v.f	717	
202-416-2	Charles Gustafson	10	D		260	6	170	do,	1.0	1340	нь	/40	
202-409-1	McDaniel and Wingert		c		r265	6		do.	e\$0		iis	£ 70	
202-408-1	Richard E. Bark		C		r199	6	50	do,	28.3	15314560	Vř	/ so	Partial analy Mys.
-2	Village of Woodstock	250	P	Dr; S	r 36	10	26	Gravel	19	57 8760	VF	630	Log; packfilled 64 it.
-3	do.	250	₽	Or; \$	r36	10	26	do.	eti	9/ 8/60	VF	630	
202-403-1	Mr. Marek	19	D	Dr; OH	r80	6		Sandstone			Yer	365	ngs.
202-359-1	John Greco	12	0		r135	6	135	Gravel	r40	97 /59	VF	175	
-2	George Hoffman	60	ρ		r157	6	130	Carbonate	r#4	7/14/49	Ter	130	H <sub>2</sub> S; tog.
-3	Mount Marion Water Co., Inc.		ρ	Dr; S	rBI	12	66	Sand	••		Ter	180	
202-357-1	Henry Fuller	20	C, D		r165	6	140	Shale	r40	7/14/49	Ter	155	Partial anal; log.
201-442-1 Sp	Fred Shaver	20	A					Gravel	0	10/26/66	VF	1,960	Spring in old stream channel,
-2	do.		A, D	Ou; P	3	60	4	Titl	0	10/26/66	its	1,900	Neveloped spring; supplies four nouses and a barn; filted in 1 t
201-415-1	Howard C. Umbay	20	0	Dr; QE	r90	6 '	90	Gravul			Нъ	910	
201-414-1	Perrine Studios	3	D	Dr; OH	r83	6		Sandstone			Hs	350	

Table 1.--Records of selected wells and springs (Continued)

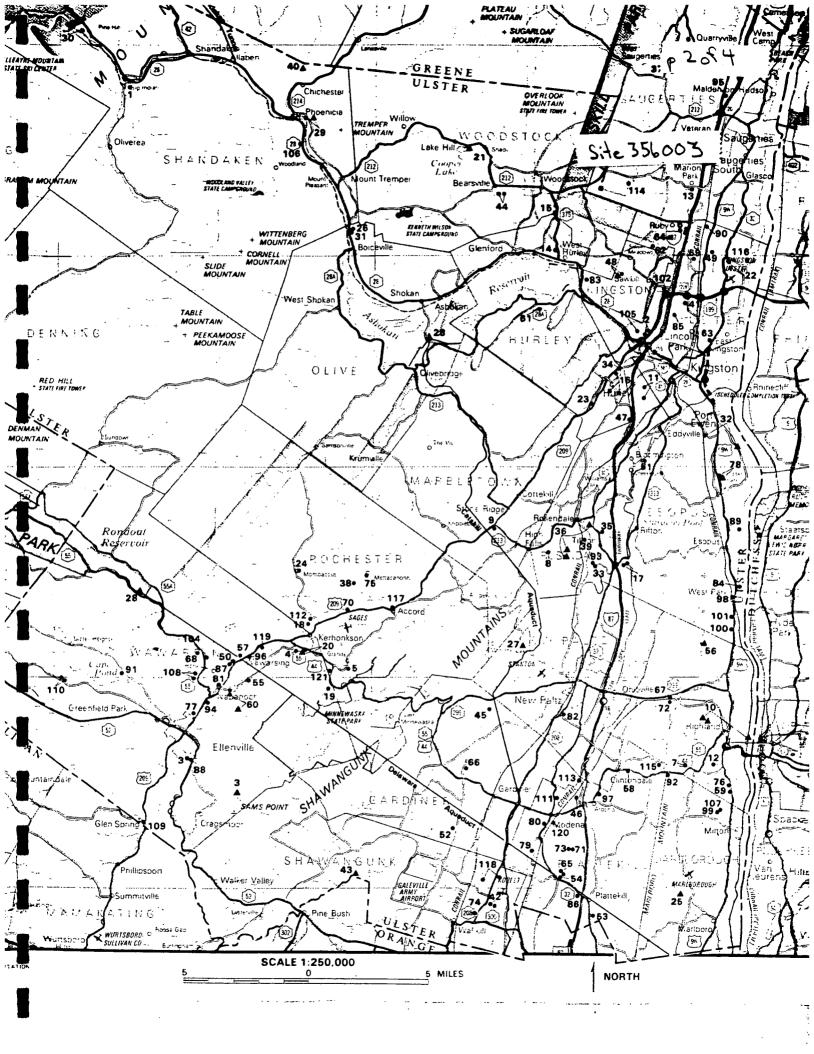
		yleld		Method of	D				Wate	r level	Topo-	Altitude	
Mell number	Owner's name	(gallons per minute)	Use	construction; completion	Depth of well (feet)	Diameter (Inches)	Length of casing	Aquifer	Below land surface	Date	graphic titua-	above sea level	
201-413-1	Wittenberg Grade School	3	1		r90	6	((eet)		(feet)			(feet)	inmarks
201-411-1	E, Lester	12	0		r135	6	30	Sandstone	0.0	7/19/49	Н	820	
201-410-1	D. B. Schultis		D				10	do.			Hs	820	Iron.
201-408-1	Irving Parker				r92	6		do.		••	VF	860	
201-404-1	E. A. Schnack		D	••	r138	6		do.			VF	930	
201-400-1	Town of Ulster		r		r60	6		do.			٧F	380	
200-446-1	Anthony and Roserio Genguzza	••	Α	Dr; OE	r71	8	71	Send and gravel	r12.5		Hs	160	lng.
200-416-1	Beechford Farms, Inc.	20		Or; OE	33	6	36	Gravel	12.4	10/26/66	VF	1,650	Filled in 3 ft.
200-415-1	V. Slegel		A, D	0r; OH	202	10, 8	202	Sandstone	flows	1945	VF	680	
200-410-1	August Hay		A, D		181	6	180	do.	flows	8/ 4/49	Hş	760	Flows 4 gpm from reduced outlet,
200-406-1	,	9 .	D		r149	6	29	do.	r33	7/29/49	н	950	
-2	Richard S. Gibbs	12	D		r98	6	22	do,	r30	1955	Hs	590	
200-404-1	Edward and Jeanette Lasagni	7	D		r180			do.	*2	1956	Hs	600	
200-400-1	Donald Osgood		D		rBO	6		Shale	r6	9/13/60	Hs	418	H <sub>2</sub> 5.
	John Fredricks		U	Du; P	19	30	19	Grave1	13	10/18/60	Hs		
-2	Town of Ulster		т	Dr; OE	r64	8	64	do	••		vr	500	
-3	do.		T	Dr; OH	r47	8	ولمياء	Shale			Hs	150	Log: backfilled 2 fg.
-4	Halcyon Park Water Dist.	200	P	Dr; S	+74	6	57	Gravet	12.4	12/ 7/65		160	Log.
-5	N. Y. State Thruway Authority	200	P		r72	6		do.	r31		Hs 	172	0 <sub>0</sub> ,
200-359-1	L. R. Hall		D	<b>5 2</b>					. ,,,	9/29/53	Hs	165	dd 17 after pumping B hours; log: temn 8,1 9/79/57,
-2	B. Bishop	30	D	Dr; OH	r97	6	7	Shale		•-	Hs	160	
-3	Town of Ulster				r123	6	7	Carbonate			VF	115	
200-357-1	Harry Carle		Ť	•• ••	r153	8	149	Shale	r24.5		Ter	150	Log,
-2	R. Deininger	3	D		r! 28	6	20	Carbonate	9.1	10/20/60	Hs	180	cirg.
159-413-1	Kingston YMCA	5	D		rlin	6	40	Shale	r17	1951	Ter	190	
-2	do,		,	Du; P	\$	120	9	Gravel	flows	9/22/64	Н	1,270	T
159-409-1		6	1	Dr; OH	r136	6		Sendstone			Hs.		Temp 10,8 9/22/64,
159-401-1	Charles Smishkoff	20	C, D		r128	6	8	do,	r46	7/29/49	H <sub>S</sub>	1,330	
	Cecella and Anna Oldpaugh	••	D		103	6		do.	15.6	9/71/60		730	
-2	Anne and Ernst Moss!	3 1/2	D	•• ••	r136	6	10	do.	r60		VF 	140	
-3 50 has 1	Unknown	3 3/4	D		r293	6	16	do.	r90	1952	Hs.	380	
59-400-1	Paul Clark	4	D		r162			do,	r112	10/ /58	Нş	400	
-2	Town of Ulster		T	Dr; OE	r74	8 .	74	None		10/18/60	Н	210	
-3	do.	10	r	Dr; OE	r75	8		Gravel			ĄF	145	log.
59-358-1	Kingsvale Water Co.	40	T	Dr; OH	r180	6					VF	145	dd 4; log; heckfilled 2 ft.
						-		Shale	r0	1955	*Ter	157	dd 140 after pumping 24 hours: Tog.

## BULLETIN 65 PLATE Z Published by NEW YORK STATE WATER RESOURCES COMCONSERVATION DEPARTMENT, DIVISION OF WATER RESO





.TH ION ION Appendix 1.3-4



ID NO

COMMI

Non-Manicipal Co
68 Golden L
69 H & H Mc
70 H E Geot
71 Hideway
72 Highland
73 Hilltop
74 Hudson
75 Larsons
76 Longs
F77 McDole

78 Mirror 79 Modena 80 Modena 81 Napanoc 82 New Pal 83 Onteora 84 Order o 85 Phil an 86 Plattek 87 Quicks 88 Randzin 89 Redempt 90 Reillys 91 Renaiss 92 Rhodes 93 River F 94 River S 95 Robins 96 Robinso Trai 97 Rolling 98 Rosema 99 Sagare 100 Saint 101 Santa 102 Sawkil 103 Schaal 104 Shady 105 Skytop 106 Sleepy 107 Strawb 108 Swan A 109 The GI 110 The Gr Cent 111 Timber 112 Timoth 113 Treeli 114 Trnka 115 Trout 116 Ulster 117 Valley 118 Wallk 119 Werne 120 Winte 121 Zolota

## ULSTER COUNTY

L	JLSTER COUNTY		
ID	NO COMMUNITY WATER SYSTEM	POPULATION	SOURCE
w	lunicipal Community		the Line (Seminas)
•	and Indian Water Association	25 · ·	Wells (Springs)
	a paint Acres Water Company	りいいり	INKE MALACONES
	S ELIANVILLE VILLEGE	211	WELLS
	4 Fern Hill Water Association	45	Weils
	Z HOLCOUR PACK MOLCI DITT	211	WELLS
	7 Heritage Estates Water Company		Weils
	A U.Ah Binge Water Company	7668	nuu son iii iii ii
	AN ULANIANA WALEL DISLIVO	1, 0, 11	WEIIS
	12 Hudson Walley Water Company #1	190	Wells
$\rightarrow$	15 Hudson Valley Water Company #4 16 Hurley Water Company	1529	.Wells Well (Springs)
	16 hulley water of Brothers.	400	11-11-
	17 Hutterian Society of Brothers		.Wells (Springs)
	18 Joint Venture Water Company. 19 Kerhonkson Heights Association. 20 Kerhonkson Water District.	650	Kerhonkson Reservoir, No.
	21 Mindeton City Mover Pi-	11 4 11	WELLS
	AN DINNEVALE WALE: OUMPEND	105	WELLS
	23 Leewood Knolls Water Company. 24 Linden Hills Water Company.	27	Wells 
	26 Mt Agiles Voice	. 8500.	Neser voir o
	27 New Paltz Village		Ashokan Reservoir (Catskill
	System (Page 76)		Aqueduct System)
	·		Rondout Reservoir (Delaware Aqueduct System)
	·	650	promunic Wells
	29 Phoenicia Water District 30 Pine Hill Water Company	210.	Wells, Wells (Springs)
	30 Pine Hill Water Company. 31 Piney Point Water Company. 32 Port Ewen Water District. 33 Piver Road Water Supply.	40.	. Wells
	22 DOLL FORD MATEL DISC.	30	WELLS
	34 Rolling Meadows Hotoling	160.	, Wells - I Descripting
	at pacendale Water Discitor	<b>₹</b> 1100	Platfekili Gleek Kees
	3/ Saugerties Village Company	80.	WE 113
	38 Sylvan Grade Materworks	440	ov Clove Creek Reservoir
	38 Sylvan Glade Water Company. 39 Tillson Estates Waterworks. 40 Tiskilwa Water Association. 41 Ulster Water District.	5300	. Wells
	43 Watchtower Farms	4300.	
			•
	Non-Municipal Community	20	Wells
	he Alay Thoben Trailer Park	150	Wells
	45 Alex Thoben Trailer Park 46 Aloha Home Acres	60.	Wells
	17 Albine Relation Italia,	18()	RESELVOIT, HOTTE
	THO C K W ITALIE! ISIN.	אר	. WEII3
•	En cozy traffer court.	ΔM	WELLS
	E1 Creekingks Housie Home	311	_Wells
	E2 Denardo Abaltimento.	06	wells
	54 Depew and Harris Trailer Park. 55 Diener Trailer Park. 55 Diener Trailer Park.	30.	Wells
	EZ DIVIEION TOL TOUCH HISH	1100	. CHOOTKEE Lane
	Occupational Education.		Wells
	E7 Dogwoods Mobile Pain	211	Wells
	58 Dormir Iralier Park	33.	, WE 113
	ZO ESCHALL MEM IOLY OFF.	700	LESCI VOII)
	Facility	90	Wells
;	ZO LAMOR P FILIDED 10011-	N A	MEIIS
	29 EVANUE ITALIEL LOIN	115	WELLS
	Ch Fordes Ifalle (alm)	506	WELLS
	65 Forest Park Mobile Home Park. 66 Gardiner Town House Apartments	57	Wells
	66 Gardiner Town House Apartments 67 Georgetown Bluffs		

?

1	ID NO COMMUNITY WATER SYSTEM	POPULATION	SOURCE
	Non-Municipal Community		•
(Springs)	68 Golden Lane Mobile Park	36	Wells
	by H & H Modile Home Park	. 132	Valle
a <b>e</b> tanza	/U H E George Trailer Sales,		.Wells
-	/T Hideway Acres	18	.Wells
	12 Highland Woods Trailer Park	54	Wells
	/3 Hilltop Apartments, , , , , ,	208	Wells
	74 MUOSON VALIEV ESTATES	120	Wells
· ·	75 Larsons Adult Mobile Home Park.	36	.Wells
River, Reservoirs	76 Longs Trailer Park,	45	Wells
MITTEL, RESERVOITS	77 McDole Mobile Home Park	54	Wells
	78 Mirror Lake Trailer Park	NA	.MITTOT Lake, Wells
	80 Modena Trailer Park	78	Wells
-	81 Napanoch Trailer Park	30	Wells
	82 New Paltz Nursing Home		Wells
_	83 Unteora Lake Park,	30	Wells
Wall (Springs)	84 Order of the Holy Cross	25	Wells
	85 Phil and Pauls Trailer Park	135	Wells
Springs)	86 Plattekill Mobile Home Park	24	Wells
cson Reservoir, Wells	8/ Quicks Trailer Park	27	Wells (Springs)
Lake	oo kanuzin irailer park,		Wells
16	89 Redemptorist Fathers of New York	110	.Wells (Infiltration Gallery)
	90 Reillys Trailer Park	42	. Wells
o Reservoir	91 Renaissance Project Inc 92 Rhodes Trailer Park	/5	Wells
The server	93 River Road Mobile Home Park.	117	Wells
i 📕	94 River Street Mobile Home Park.	115	Wells
	95 Robins Trailer Park	47 US	Wells
Reservoir (Catskill	yb Kodinson's Old Homestead		
uct System)	Trailer Park	60	Wells
meservoir (Delaware ud System)	9/ KOILING ACTES MODILE Park	120	.Wells
uc System)	98 Kosemarie Mobile Home Park	51	Wells
in Wells	99 Sagarese Trailer Park,	25	.Wells
Wells (Springs)	100 Saint Cabrini Home Inc	140	Wells Walls (Sarings)
Piller Motte	iui Santa Maria-Unristian Brothers	20	Wells Wall (Springe)
Rimer, Wells	102 Sawkii Irailer Park	186	Volle
	103 Schaals Trailer Park.	42	.Wells
<del></del>	104 Shady Acres Mobile Home Park	135	.Wells
ond, Reservoirs	105 Skytop Apartments	140.	Wells
il <b>ii</b> Creek Reservoir	107 Strawberry Acres Trailer Park	36	Wells
	108 Swan Acres Mobile Home Park	117	Wells
	109 The Glen Mobile Home Park	96	Wells
Creek Reservoir	110 The Greenwood Rehabilitation		
. 🖛	Center Inc	210	Wells
ve s (Springs)		54	Walls
	112 limothy Estates Apartments	35	Walls
_	113 Treeline trailer Park	51	Wells
	7114 ITHKA FARMS MODILE HOME PARK	138.	WP!IS
	115 Trout Brook Trailer Park	36	Wells
	116 Ulster Landing Mobile Court 117 Valley Gardens Trailer Park	84	Weils
<b>—</b>	118 Wallkill Correctional Facility.	700	Wells
	119 Werners Trailer Park	30	Wells
r Wells	120 Winters Trailer Park	27	Wolle
<b>a</b>	121 Zolota Osin Inc	101	Wells

Appendix 1.5-1

p lof1

## COMMUNICATIONS RECORD FORM

iet-ibution:	()
TOP! TARETAR.	(), ()
	( ) Author
	ted: Walt Myer Date: 11/6/86
erson Contac	
hone Number:	(914)338-8443 Title:
ffiliation:	Ulster (ounty DOH Type of Contact: phone
ddress: 300	Flathrush Ave Person Making Contact: L. Rosess
Kin	reston New York 12401
	the rest Yerry Hill Rd to the southwest Park  the rest Plachman lane to the east; (alifornia Queri  clift Road to the north.
ommunication	is Summary: Woodstock water water by
)- 10 + 11	the outh Plachman lane to the east; California Queri
A & Burd	olff Road to the north.
14 / 3/14	Perimeters for o
Audson Va	alle, Water Co. No. 4 are Britteny Dr. Helland
Dr. Ridge	Perimeters for o alle, Water (u. No. 4 are Britteny Dr. Halland Dr. 1, 9 Rt 375
<u> </u>	
	(see over for additional space)

Signature: Son Pogen



A Division of EA Engineering, Science, and Technology, Inc.

R.D. 2, Box 91 • Goshen Turnpike • Middletown, New York 10940 Telephone: (914) 692-6706

7 March 1986

Mr. George A. Sisco District Consvst. Ulster SWCD 380 Washington Avenue UPO Box 97 Kingston, New York 12401

Dear Mr. Sisco:

EA Science and Technology, a Division of EA Engineering, Science, and Technology Inc., is conducting Phase I engineering investigations and assessments at inactive hazardous waste sites for the New York State Department of Environmental Conservation—attached is a copy of an authorization letter signed by Commissioner Williams. We need a particular piece of information which we believe your office has access to. Specifically, our assessments must include the number of acres of land irrigated with water (surface or ground water) drawn from the area within a 3-mile radius of each site.

Please examine the locations of sites in your county (site list and locator maps attached) and determine whether, to the best of your knowledge, there are any sources of irrigation water within approximately 3 miles of these sites... and estimate the <u>number of acres</u> of land irrigated by these sources. You could indicate the numbers of acres on a copy of the attached site list and simply return it to us.

This request is based on recent conversations with several Soil Conservation Service (SCS) offices which have indicated that SCS conducts an agricultural information survey periodically, and would in most cases have some information regarding acres irrigated. If your particular office believes there are no irrigated areas near these sites, or if you cannot estimate the number of acres involved, please reply in some fashion so that we can produce a reference to our attempt to obtain this information.

Thank you very much for your cooperation. If you have questions, please do not hesitate to call at the above number.

Sincerely yours,

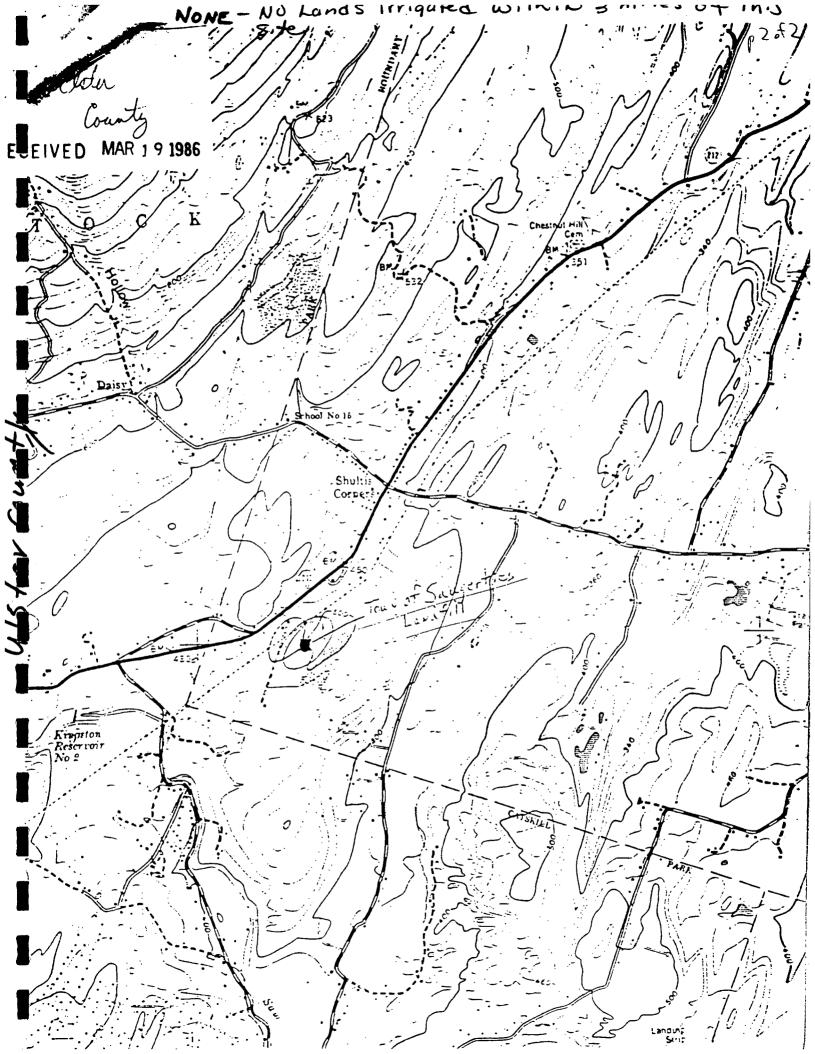
William L. Going

Manager, Environmental
Assessment Studies

Willen J. Born

WLG/rlc Enclosure

BALTIMORE - CHICAGO - CINCINNATI - LINCOLN - NEW YORK - SAN FRANCISCO



## Appendix 1.5-3

## CONDIUNICATIONS RECORD FORM

17019

Distribution: () T. of Saugertes L.F. ()
(), ()
( ) Author
117191
Person Contacted: Mr Wayne Elliot Date: 11/3/86
Phone Number: (914)255-5453 Title: Regional Fisheries Manager
Affiliation: DEC Region 3 Type of Contact: phone
Affiliation: DEC Region 3 Type of Contact: phone  Address: 21 Soth Corners Road Person Making Contact: L. Rogers  New Paltz NY
communications Summary: Mr Elliot stated that the Sau Kill is used frequently for fishing a is considered a recreational resource.
is used frequently for fishing & is considered a
recreational resource.
(see over for additional space)
Signature: San Voys

## Appendix 1.5-4

## CONDIUNICATIONS RECORD FORM

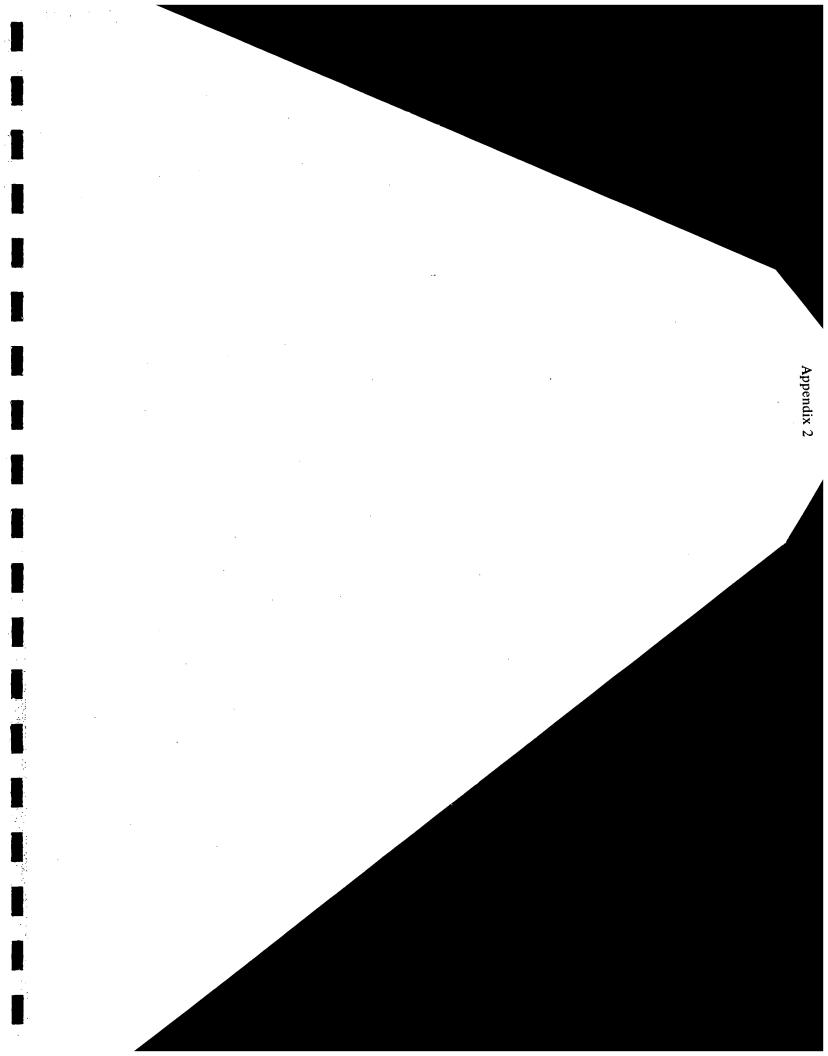
P 104 1

Distribution: () Tour of Saugerties LF, ()
· (), ()
( ) Author
Person Contacted: Mr George Sisco Date: 11/3/86  Phone Number: Title: District Conservationist
Phone Number: Title: District Conservationist
Affiliation: Ulster SWCD Type of Contact: phone
Address: 380 Washington Ave Person Making Contact: L. Rogers  Kingston, NY 12401
Communications Summary: The nearest agricultural land is located at the intersection of Saukill Rd & Route 212.
·
(see over for additional space)
Signature: Low Your

## Appendix 1.5.5

## COMMUNICATIONS RECORD FORM

Distribution: () Tot Sangerties C.F. ()
(), ()
( ) Author
Person Contacted: John Wood  Phone Number: (914) 246-1479 Title: Fire Chief  Date: 12/19/8
Phone Number: (914) 246-1479 Title: Fire Chiet
Affiliation: Town of Saugestics Type of Contact: phone
Address: CRO Box 1724 Person Making Contact: C. Rogers  Kingston, NY 12401
Communications Summary: Mr Wood did not consider the Tot Saugerties Candfill a fire or explosion threat
3
(see over for additional space)
Signature: Son Towns



(47-15-11 (10/83)

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

PRIORITY CODE:		SITE CODE: 356003
NAME OF SITE:	Town of Saugerties Landfill	REGION: 3
STREET ADDRESS	Route 212	
		NTY: Ulster
	T AUDIT OF FITTA MAN of Course	
	TOWNER OF SITE: Town of Sauge	, Main Street Saugerties, NY 12477
ADDRESS OF COR		
TYPE OF SITE:	OPEN DUMP STRU	CTURE LAGOON LAGOON
	LANDFILL	TREATMENT POND
ESTIMATED SIZE	:15 ACRES	
SITE DESCRIPTI	ON:	
owned was i to ac For a 750 t swarf waste	5-acre active municipal landfill by the Town of Saugerties. The saud a NYS permit in March 1979 cept hazardous industrial wastes number of years, the site report ons of grinding swarf (component (95+ percent iron oxide with ois water treatment sludge (high in ) per year from Ferroxcube.	e landfill, active from 1969,  O under which it was not allowed  s or septic sludges.  Stedly received approximately  as unknown), 350 tons of grinding  il and water), and 55 yd <sup>3</sup> of
	TE DISPOSED: CONFIRMED TITY OF HAZARDOUS WASTES DISPOSE TYPE Unknown	SUSPECTED (POUNDS, DRUMS, QUANTITY TONS, GALLONS)

PAGE

TIME PERIOD SITE WAS USED FOR HAZAR	
OWNER(S) DURING PERIOD OF USE:	TO, 19
SITE OPERATOR DURING PERIOD OF USE:	
ADDRESS OF SITE OPERATOR: Route 212	
ANALYTICAL DATA AVAILABLE: AIR	SURFACE MATER SROUNDWATER SEDIMENT NONE SEDIMENT
CONTRAVENTION OF STANDARDS: GROUND SURFA	NDWATER DEINKING WATER DAIR DAIR
SOIL TYPE:	
STATUS: IN PROGRESS TO PROPOSED IN PROGRESS TO PROPOSED TO PROPOSED TO PROPOSE TO PROPOS	UNDER DESIGN
ASSESSMENT OF ENVIRONMENTAL PROBLEMS	<b>:</b>
Ground-water contamination: elevation in a downgradient monitoring	ated levels of manganese, zinc, and well.
ASSESSMENT OF HEALTH PROBLEMS:	
None known or reported.	
PERSON(S) COMPLETING THIS FORM:  FOR NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION	NEW YORK STATE DEPARTMENT OF HEALTH
NAME EA Science and Technology	NAME
TITLE	TITLE
NAME	NAME
TITLE : 20 Oarshan 1086	DATE:
DATE: 29 October 1986	