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INVESTIGATION

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915053-
**ENGINEERING INVESTIGATIONS AT
INACTIVE HAZARDOUS WASTE SITES**

PHASE I INVESTIGATION

Houdaille Industries-Strippit Division

Site No. 915053

Village of Akron

Erie County

Date: January 1986



Prepared for:
**New York State
Department of
Environmental Conservation**

50 Wolf Road, Albany, New York 12233

Henry G. Williams, *Commissioner*

Division of Solid and Hazardous Waste

Norman H. Nosenchuck, P.E., *Director*

By:

ENGINEERING-SCIENCE

In Association With

DAMES & MOORE

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

HOUDAILLE INDUSTRIES STRIPPIT DIVISION
NYS SITE NUMBER 915053
TOWN OF AKRON
ERIE COUNTY
NEW YORK STATE

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

ENGINEERING-SCIENCE
290 ELWOOD DAVIS ROAD
LIVERPOOL, NEW YORK 13088

In Association With

DAMES & MOORE
2996 BELGIUM ROAD
BALDWINVILLE, NEW YORK 13027

DATE OF SUBMITTAL: JANUARY, 1986

HOUDAILLE INDUSTRIES STRIPPIT DIVISION

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SECTION I

EXECUTIVE SUMMARY

HOUDAILLE INDUSTRIES STRIPPIT DIVISION

This report, prepared for the New York State Department of Environmental Conservation (NYSDEC), presents the results of the Phase I investigation of the Houdaille Industries Strippit Division site (NYS Number Site 915053, EPA Site Number D039115621) located in Akron, Erie County, New York (see Figure I-1).

SITE BACKGROUND

This site was owned by the Buffalo Arms Corporation from about the 1940's until 1950, and by Houdaille Industries Strippit Division from 1956 to present. While under the ownership of the Buffalo Arms Corporation (prior to 1956), the site was used for the disposal of scrap metal from the manufacturing of machine guns (Interagency Task Force on Hazardous Waste, NYSDEC, 1978; Bartha, 1987). Starting in 1956, Houdaille disposed of approximately 20,000 gals/yr of biodegradable, water based coolants, 3 tons/yr of heat treatment sludge, and 450 cubic yards/yr of refuse were disposed (NYSDEC, 1982) of in a two acre area, on-site. An estimated five 55 gallon drums/yr of waste solvent generated at the plant was used to open burn the plant's solid waste. Solvents were not known to be disposed of on the ground. Typically, waste oils from the plant were collected and recycled off-site. From 1968 to present, all coolants have been collected and stored in an on-site underground storage tank (Bartha, 1985). Residues of trichloroethylene solvents and non-combustible phenolic-based (prior to mid 1960's) coolants are suspected to be present in the disposal area (NYSDEC, 1978). In 1979, the disposal area was covered with approximately 5 feet of clean fill from

on-site during the expansion of the Houdaille plant. A NYSDEC Hazardous Waste Investigation found significant concentrations of arsenic, lead, zinc, chromium, and halogenated organics in soil samples, however, the samples were collected outside of the landfill and may not be indicative of constituents in the fill. Analysis of surface water samples collected from the drainage ditch along the landfill detected low concentrations of several constituents including selenium, arsenic, lead, and zinc (NYSDEC, 1982).

ASSESSMENT

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

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

- o S_M reflects the potential for harm to humans or the environment from migration of a hazardous substance away from the facility by routes involving groundwater, surface water or air. It is a composite of separate scores for each of the three routes (S_{GW} = groundwater route score, S_{SW} = surface water route score, and S_A = air route score).

- o S_{FE} reflects the potential for harm from substances that can explode or cause fires.
- o S_{DC} reflects the potential for harm from direct contact with hazardous substances at the facility (i.e., no migration need be involved).

The preliminary HRS score was:

S_M	=	20.47	S_A	=	0
S_{GW}	=	34.29	A_{FE}	=	0
S_{SW}	=	8.81	S_{DC}	=	0

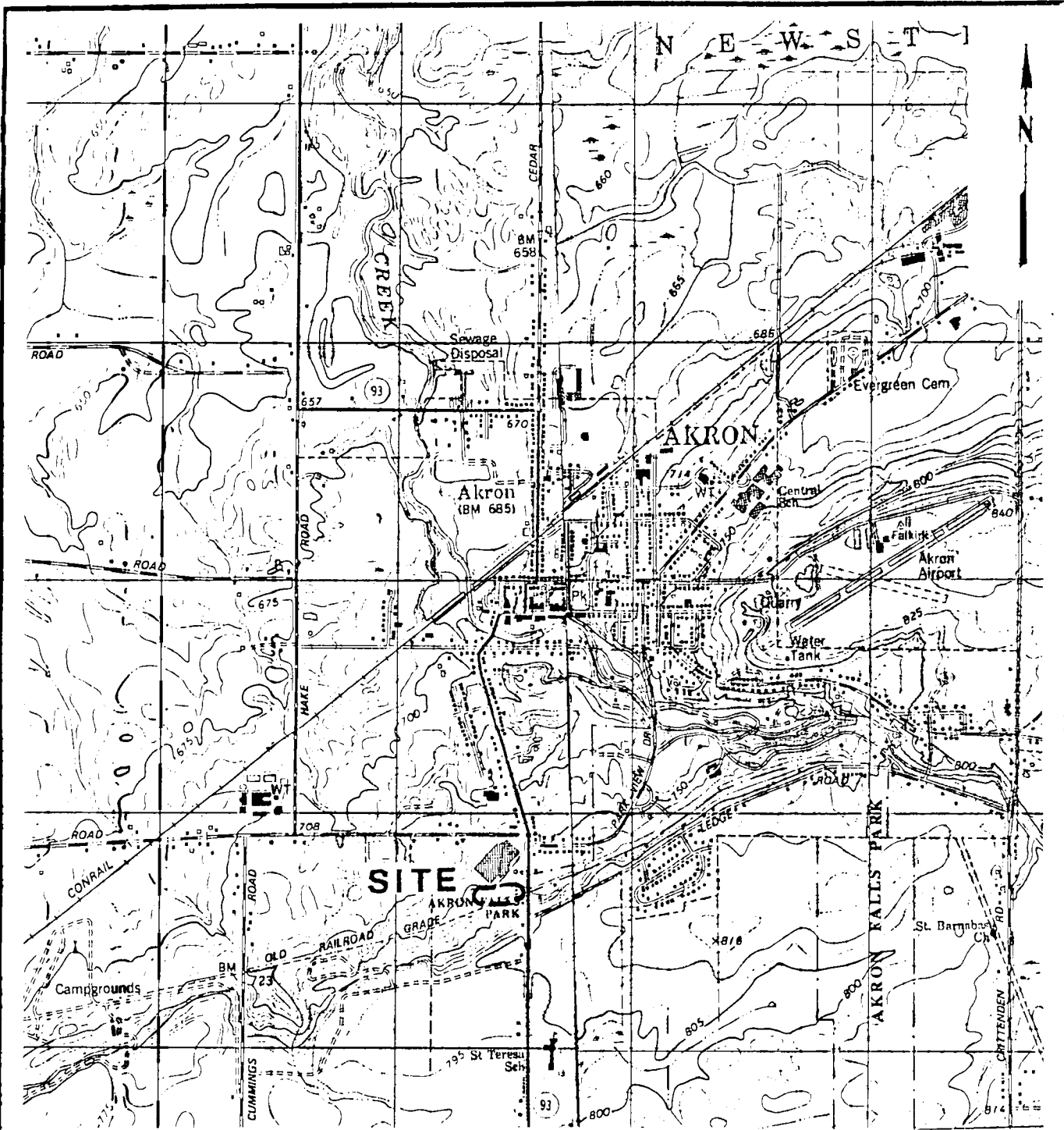
These scores are based on both shallow soil and deep bedrock aquifers. The groundwater migration score reflects the toxic nature of the landfill waste; the surface water migration score reflects the observed release of contaminants in the on-site stream.

RECOMMENDATIONS

The following recommendations are made for completion of Phase II:

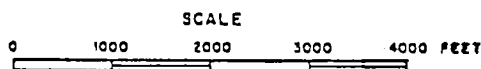
- o Geophysical study consisting of electrical resistivity survey.
- o Groundwater monitoring system consisting of one upgradient and two downgradient wells.
- o Surface water and sediment monitoring system consisting of two monitoring stations.
- o Sample analyses to include priority pollutants.

The estimated man-hour requirements to complete Phase II are 746, while the estimated cost is \$49,606.



LATITUDE: 43° 00' 27"

LONGITUDE: 78° 30' 14"



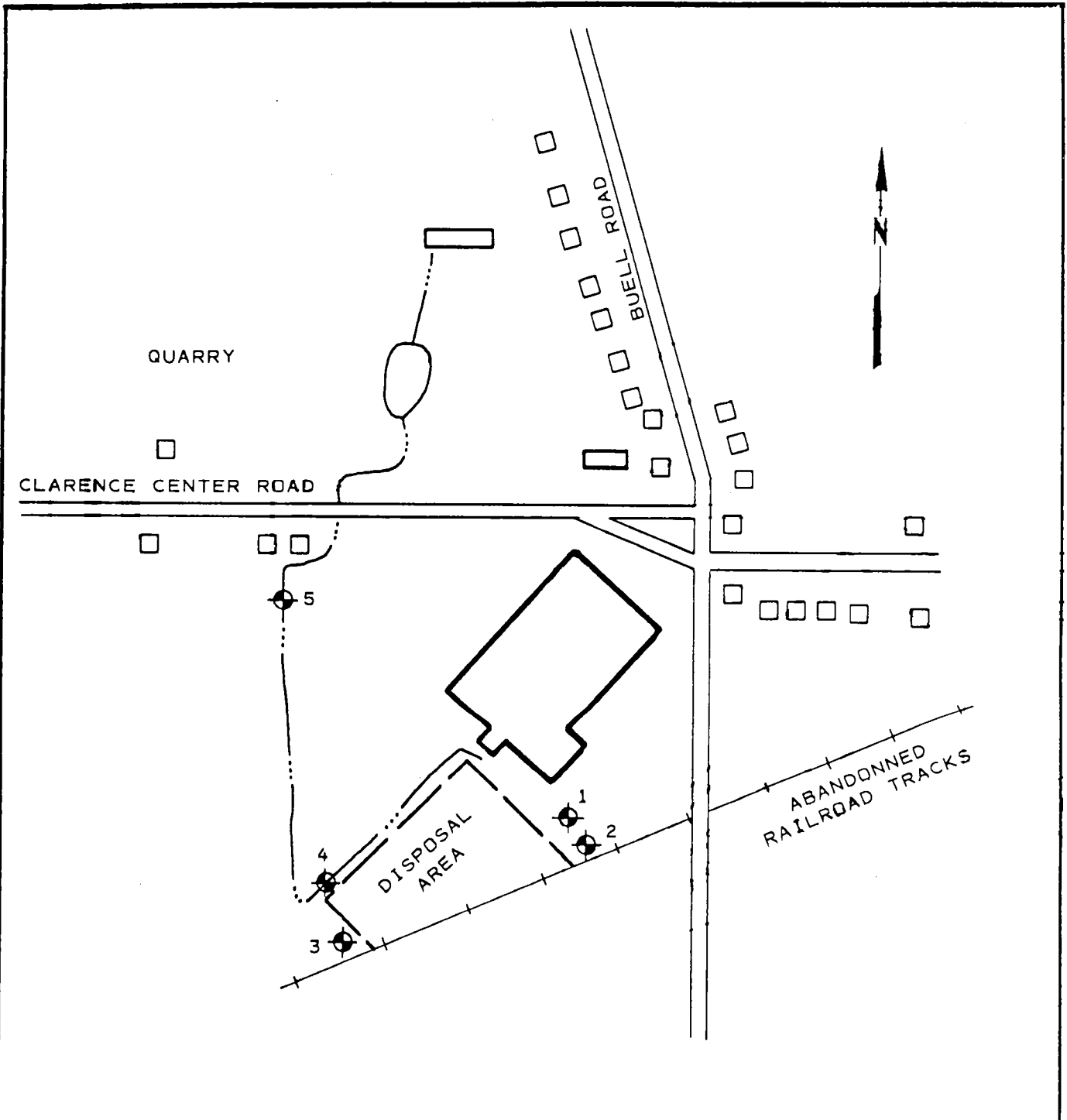
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SITE LOCATION MAP
HOUDAILLE INDUSTRIES
(STRIPPIT DIV.)


REFERENCE: U.S.G.S. 7.5' Topographic Map
Wolcottville, NY (1980) and
Akron, NY (1980) Quadrangles

FIGURE I-1



NOT TO SCALE

EXPLANATION:

- 
 NYSDEC SAMPLE POINT
 (Dec. 15, 1981)

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PLOT PLAN HOUDAILLE INDUSTRIES (STRIPPIT DIV.)
FIGURE I-2



SECTION II

PURPOSE

The purpose of the Phase I investigation at the Houdaille Industries Stripplit Division site was to assess the hazard to the environment caused by the present condition of the site. This assessment is based on the Hazard Ranking System, which involves the compilation and rating of numerous geological, toxicological, environmental, chemical, and demographic factors and the calculation of an HRS score. Details of HRS implementation are included in Section V. During the initial portion of the investigation, available data and records, combined with information collected from a site inspection, were reviewed and evaluated. The investigation at this site focused on disposal of cutting oils, coolants, degreasing solvents, heat treatment sludge and refuse in the on-site disposal area. Based on this initial evaluation of the Houdaille Industries Stripplit Division site, a Phase II Work Plan has been prepared for collecting any additional data needed to complete the HRS score. In addition, a cost estimate for the recommended Phase II work is provided.



SECTION III

SCOPE OF WORK

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

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



SECTION IV

SITE ASSESSMENT

SITE HISTORY

The site was owned by Buffalo Arms Corporation from approximately 1940 to 1950. Buffalo Arms was engaged in the manufacturing of machine guns for the U. S. government. While under the ownership of the Buffalo Arms Corporation, the site was used for the disposal of scrap metal and the test firing of machine guns (Bartha, 1987). Houdaille Industries Strippit Division has owned and occupied the site from 1956 to the present. Starting in 1956, Houdaille disposed of approximately 20,000 gals/yr of biodegradable, water based coolant, 450 cubic yards/yr of general plant refuse, and 3 tons/yr of heat treatment sludge from the metal fabrication operations on the 2-acre site located adjacent to the plant (NYSDEC, 1978). An estimated five 55 gallon drums/yr of waste solvent generated at the plant was used to open burn the plant's solid waste. Solvents were not known to have been poured directly on the ground (Bartha, 1985). Typically, plant cutting oils were collected and sold to Booth Oil Company recycling. From 1968 to present, all coolants have been collected and stored in an on-site underground storage tank prior to off-site recycling (Bartha, 1985). The ash from open burning of solid waste and other non-combustible material such as the heat treatment sludge were left uncovered on the site (ES and D&M Site Inspection, 1985). Some of the heat treatment sludge was stored in an estimated 216 drums on the site. In 1979, the waste site, including the heat treatment sludge drums, were covered with approximately 16,000 cubic yards of clean fill from an on-site plant expansion project (EPA, 1980). Since 1979, Houdaille has contract hauled waste materials off-site for disposal and the landfill has been used only for storage of old plant equipment.

SITE TOPOGRAPHY

The Houdaille Industries Stripplit Division site is located in Akron, Erie County, New York State. The disposal site is a landfill south of the plant building. The original ground surface was fairly flat, sloping gently to the north. The landfill has raised the ground surface by approximately 10 feet. At present, a variety of hard fill materials are visible in the landfill.

The rectangular site is located at the edge of a rural village. South of the site is unused property. East of the site are railroad tracks, across which are residential homes within the village. North of the site is the plant factory along Clarence Center Road, farther north of which is additional Houdaille property and a grocery store. West of the site is an unused field; further to the west is a residential farm property. Surface water runoff flows into a ditch along the western and northern borders of the disposal area. The ditch conducts water north across the Houdaille property, forming a north-flowing unnamed stream, which flows towards the grocery store. There are two deep gas wells on the property. One is located within the disposal area; the other is located on the northernmost boundary of Houdaille property, adjacent to the grocery store. There is a private well serving approximately 400 people living in Quarry Hills Estates, located 2.5 miles southeast of the site (NYS Atlas of Community Water System Sources, 1982).

Local Sensitive Environments

There are no designated wetlands or critical habitats for endangered species in the immediate area.

SITE HYDROLOGY

This summary of site hydrogeology is based on information from USGS Topographic Maps, NYS Museum and Science Service Bedrock Geology Map and Quaternary Geology Map, a recent site visit (1985), and site profiles by the Erie County Department of Environment and Planning (ECDEP) and the NYSDEC.

Regional Geology and Hydrology

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

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

As glacial ice retreated from the region, meltwater formed lakes in front of the ice margin. The Erie County region is covered by lake sediments, the most recent being from Lake Warren (a larger predecessor to Lake Ontario and Lake Erie). The sediments consist of blanket sands and beach ridges which are occasionally underlain by lacustrine silts and clays (indicating quiet or deeper water deposition).

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

Site Hydrogeology

The site is located near the base of the Onondaga Escarpment. Bedrock beneath the site is expected to be Akron Dolomite, possibly occurring at a depth of 35 ft. This rock unit may be jointed and fractured and may form a bedrock aquifer.

Above the top of bedrock, a high-lime till blankets the site. This soil unit may be sandy in zones and may form a low-yield shallow aquifer or possibly perched aquifer. A permeability of 10^{-5} cm/sec to 10^{-7} cm/sec (Freeze, 1979) has been assumed for HRS scoring purposes. Fill material has been placed above the surface till.

SITE CONTAMINATION

According to Houdaille Industries (NYSDEC, 1978; Bartha, 1985), approximately 20,000 gals/yr of biodegradable, water based coolant (1956 to 1968), 3 tons/yr of heat treatment sludge (1950 to 1979), and 450 cubic yards/yr of refuse (1956 to 1979) were disposed of in the on-site landfill. The solvents and combustible refuse were burned, and the resulting ash and non-combustible coolant and sludge were landfilled. In the past, waste cutting oils were typically collected and hauled off-site for recycling via Brook Oil Company. An estimated 10 to 15 55 gallon drums/yr of waste oil were generated between 1956 to 1975. From 1968 to present, all coolants have been collected and stored in an underground storage tank awaiting off-site recycling. Residues of trichloroethylene degreasing solvent and non-combustible material including suspected phenolic-based (prior to mid 1960's) coolants may be a source of contamination to the potable groundwater in the area. According to an EPA site assessment (EPA, 1980), the heat treatment sludge also poses a hazard to ground waters, although the presence of hazardous substances in the sludge is not known. Some of the heat treatment sludge was stored in approximately 216 drums. In 1979, the site was covered, including the drums containing heat treatment sludge, with approximately 16,000 cubic yards of clean fill. The landfill is enclosed by a fence.

In December 1981, the NYSDEC collected 5 soil samples and 3 water samples adjacent to the landfill, including a surface water sample draining the site (see Figure IV-1). Analysis of the soil samples found significant concentrations of arsenic, lead, zinc, chromium, and halogenated organics (NYSDEC, 1982), which have been attributed to metal fabrication operations of a previous site owner, Buffalo Arms Corporation (Bartha, 1985). Analysis of surface water samples detected mercury

and selenium concentrations at or below safe Drinking Water Standards and trace amounts of arsenic, lead, and zinc (NYSDEC, 1982). The analytical data for the soil and surface water samples collected at the site are presented in Tables IV-1 and IV-2, respectively.

HNU Meter readings were taken during a recent site inspection (ES and D&M Site Inspection, 3/27/85) and all measurements were less than 1 ppm, indicating a lack of potential air contamination.

TABLE IV-1
SOIL ANALYSES FOR HOUDAILLES INDUSTRIES STRIPPIT DIVISION

Compound	Units	#1	#2	#3	#4	#5
Antimony	ug/g dry	10	< 40	< 5	< 7	< 6
Arsenic	ug/g dry	5.5	190	2.4	14	8.2
Beryllium	ug/g dry	< 0.3	< 2	< 0.3	< 0.4	< 0.3
Cadmium	ug/g dry	0.39	< 9	< 0.1	0.44	1.2
Chromium	ug/g dry	11	18	5.7	8.8	31
Copper	ug/g dry	14	40	36	15	59
Lead	ug/g dry	19	140	21	19	100
Mercury	ug/g dry	< 0.3	< 2	< 0.2	< 0.3	0.68
Nickel	ug/g dry	15	35	12	23	29
Selenium	ug/g dry	< 0.6	< 3	0.35	< 0.2	0.7
Silver	ug/g dry	< 0.3	< 2	< 0.3	< 0.4	< 0.3
Thallium	ug/g dry	< 3	< 20	< 3	< 4	< 3
Zinc	ug/g dry	110	360	21	91	1,000
Dry Weight	%	88	16	66	82	41
Halogenated Organic Scan	ug/g dry as Cl ₂ Lindane Std.	< 0.5	< 0.5	9.5	< 0.5	26

SOURCE: NYSDEC, Site Profile Report for Houdailles Industries Stripplit Division

Sample analyses conducted by RECRA Research, Inc. January, 1982.

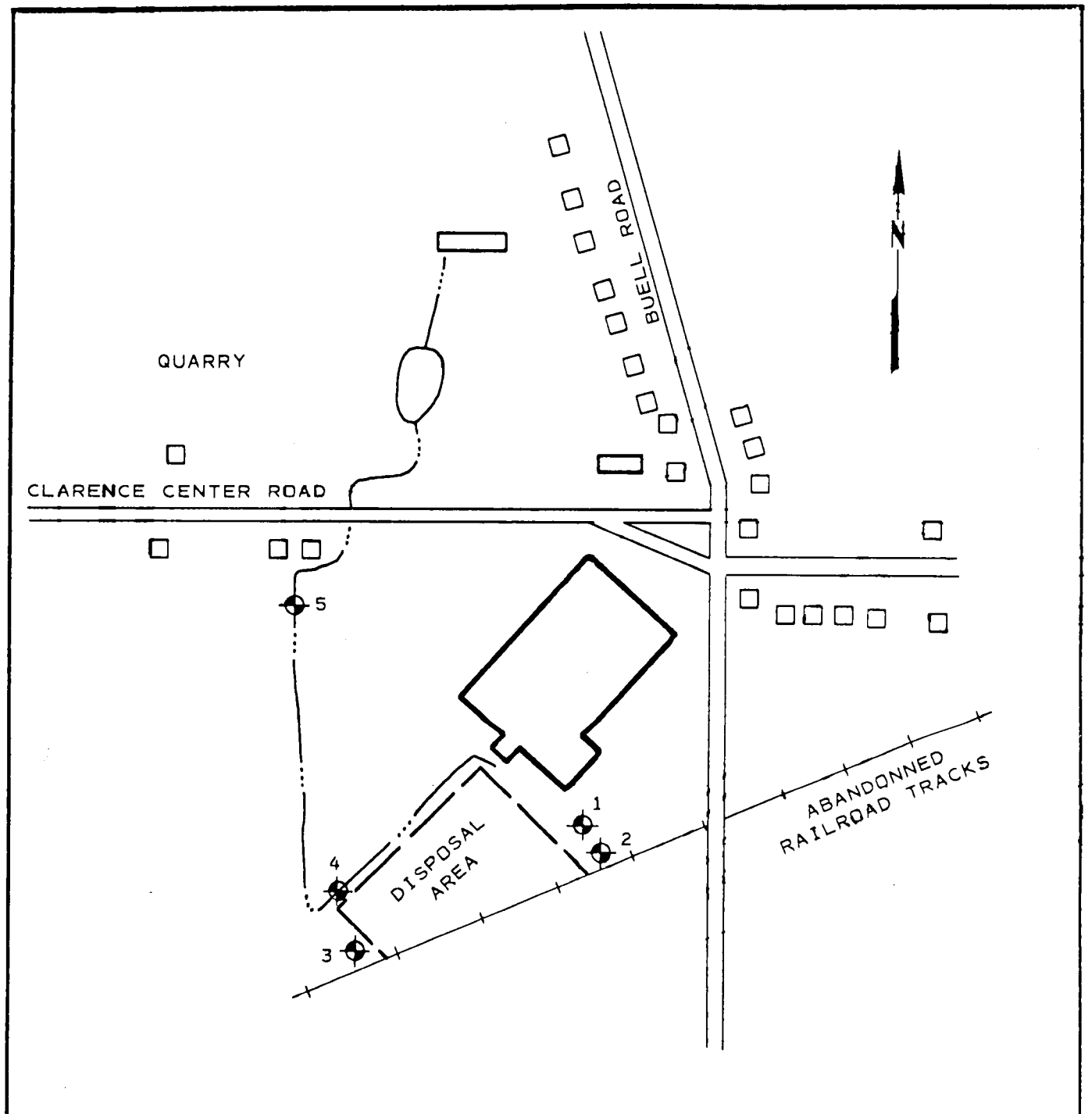
TABLE IV-2
SURFACE WATER ANALYSES FOR HOUDAILLES INDUSTRIES STRIPPIT DIVISION

Compound	Water Quality Standards	Sample Locations - Station #		
		#2	#3	#5
Antimony (mg/l)	---	< 0.2	< 0.2	< 0.2
Arsenic (ug/l)	0.5 mg/l	42	23	24
Beryllium (mg/l)	---	< 0.01	< 0.01	< 0.01
Cadmium (mg/L)	0.010 mg/l	< 0.005	< 0.005	< 0.005
Chromium (mg/l)	0.05 mg/l	< 0.005	< 0.005	< 0.005
Copper (mg/l)	1.0 mg/l	< 0.006	< 0.006	< 0.006
Lead (mg/l)	0.05 mg/l	< 0.04	< 0.04	< 0.04
Mercury (ug/l)	0.002 mg/l	< 3	< 3	< 3
Nickel (mg/l)	---	< 0.02	0.07	< 0.02
Selenium (ug/l)	0.01 mg/l	8.9	10	< 5
Silver (mg/l)	0.05 mg/l	< 0.01	< 0.01	< 0.01
Thallium (mg/l)	---	< 0.1	< 0.1	< 0.1
Zinc (mg/l)	5.0 mg/l	0.039	0.063	0.167
Halogenated Organic Scan (ug/l as Cl ₂ Lindane Std.)	0.004 mg/l	< 0.3	< 0.3	< 0.03

SOURCE: NYSDEC Site Profile Report for Houdailles Industries Stripplit Division

USEPA Criteria for Water Quality Standards, Safe Drinking Water Act.

Sample analyses conducted by RECRA Research, Inc., January, 1982.



NOT TO SCALE

EXPLANATION:



NYSDEC SAMPLE POINT
(Dec. 15, 1981)

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PLOT PLAN HOUDAILLE INDUSTRIES (STRIPPIT DIV.)
FIGURE IV-1





PRELIMINARY APPLICATION OF HAZARD RANKING SYSTEM

NARRATIVE SUMMARY

The Houdaille Strippit Division Site, which is approximately 2 acres in size, is located adjacent to the Houdaille Industries Strippit Division manufacturing facility within the Town of Akron, Erie County, New York. Houdaille Industries Strippit Division has owned the site from 1956 to present. The site was owned by Buffalo Arms Corporation during the 1940's and 1950's.

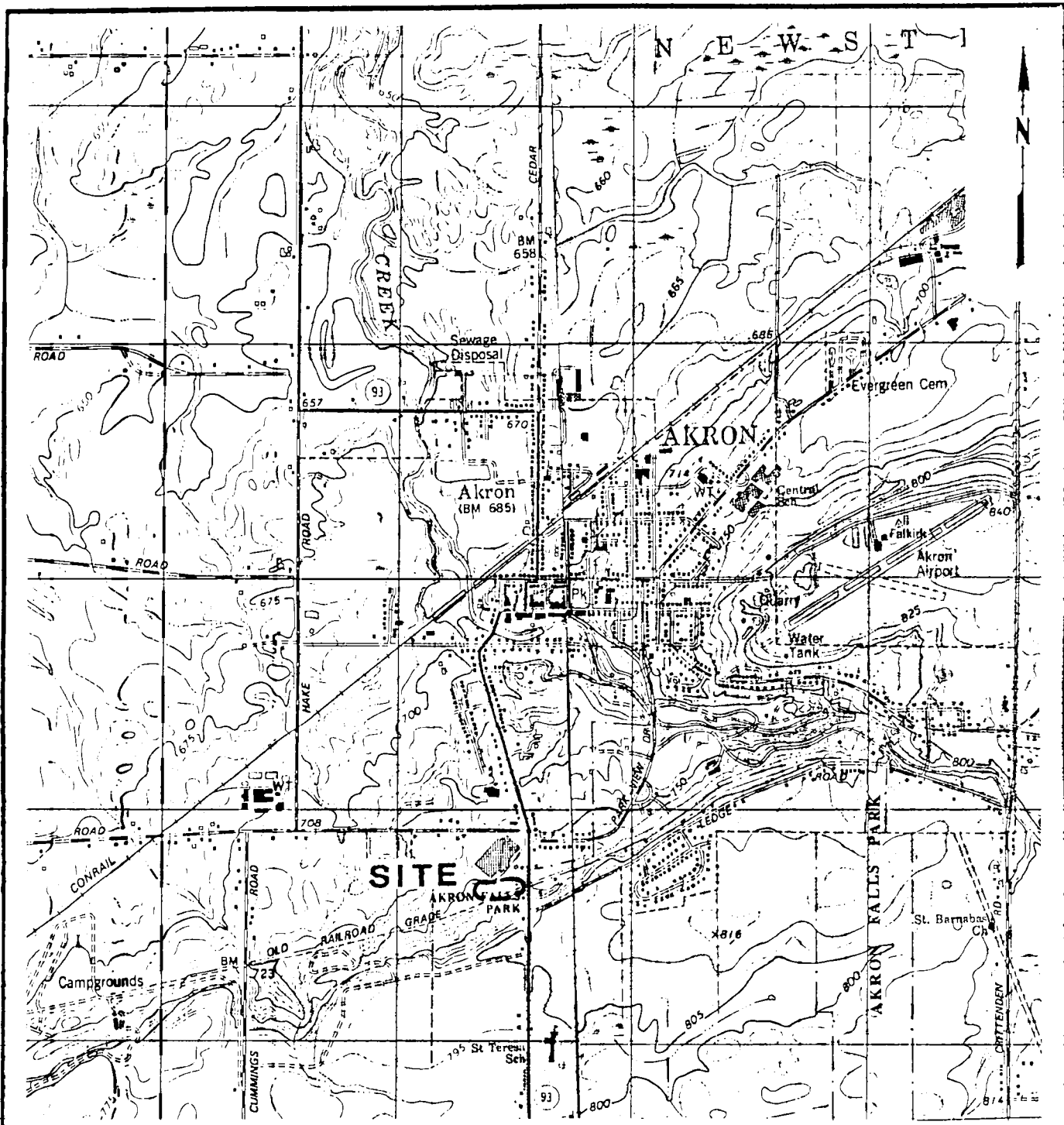
Beginning in 1956, Houdaille disposed approximately 20,000 gals/yr of biodegradable, water based coolant, 3 tons/yr of heat treatment sludge and 450 cubic yards/yr of refuse at the site (NYSDEC, 1978). Solvents generated from plant manufacturing operations were used to burn the plant's combustible solid wastes. The resulting ash and non-combustible coolants and sludge were landfilled on-site (ES and D&M Site Inspection, 1985). No solvent wastes were known to have been poured directly on the ground (Bartha, 1985). An estimated 216 drums of heat treatment sludge waste are alleged to be disposed on-site (EPA, 1980). In 1979, the site was covered with approximately 16,000 cubic yards of clean fill.

In December 1981, the NYSDEC collected 5 soil samples and 3 water samples at the landfill site. Analysis of the soil samples found concentrations of arsenic, lead, zinc, chromium, and halogenated organics (NYSDEC, 1982). Analysis of surface water samples from the drainage ditch adjacent to the landfill found selenium concentrations at or below Safe Drinking Water Standards. Trace quantities of arsenic, lead, and zinc were also detected (NYSDEC, 1982). Analysis of water samples found only trace amounts of metals including nickel, selenium, and arsenic (NYSDEC, 1982). No groundwater samples have been collected at the site.

HNu meter readings were taken during a recent site inspection (ES and D&M Site Inspection, 1985) and all measurements were less than 1 ppm.

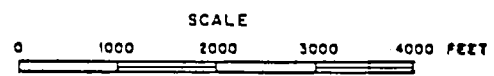
LOCATION





LATITUDE: 43° 00' 27"

LONGITUDE: 78° 30' 14"



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SITE LOCATION MAP
HOUDAILE INDUSTRIES
(STRIPIIT DIV.)

REFERENCE: U.S.G.S. 7.5' Topographic Map
Volcottsville, NY (1980) and
Akron, NY (1980) Quadrangles

FIGURE ii-1



Facility Name: Houdaille Industries Stripit Division

Location: 12975 Clarence Road, Akron, NY 14001

EPA Region: II

Person(s) in charge of the facility: Ken Bartha, Engineer

Name of Reviewer: S. Robert Steele, II Date: 4/8/85

General Description of the facility:

Houdaille Industries Stripit Division disposed of biodegradable, water based coolant, heat treatment sludge and refuse on a 2-acre site located behind their manufacturing facility. Combustible materials were burned at the disposal site and the resulting ash and non-combustibles were disposed on-site. No solvents were known to have been disposed directly on the ground at the site. Solvents generated at the plant were used as starter fluid for the solid wastes (Bartha, 1985). Contaminants including arsenic, lead, zinc, chromium and halogenated organics were detected in soil samples collected at the site. Heavy metals including mercury and selenium (at or below Safe Drinking Water Standards) and arsenic, lead and zinc (trace quantities) were detected in surface water samples collected from the drainage ditch adjacent to the landfill (NYSDEC, 1982). In 1979, the site was covered with clean fill (approximately 5 feet) from excavation during a plant expansion project. With the exception of plant equipment stored on-site, the landfill is inactive.

Scores: $S_M = 20.47$ ($S_{gw} = 34.29$ $S_{sw} = 8.81$ $S_a = 0$)

$S_{FE} = 0$

$S_{DC} = 0$

Facility Name: Houdaille / Strippit Date: 5/21/85

Ground Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	(0) 45	1	0	45	3.1	
If observed release is given a score of 45, proceed to line 4 . If observed release is given a score of 0, proceed to line 2 .						
2 Route Characteristics					3.2	
Depth to Aquifer of Concern	0 1 2 (3)	2	6	6		
Net Precipitation	0 1 (2) 3	1	2	3		
Permeability of the Unsaturated Zone	0 (1) 2 3	1	1	3		
Physical State	0 1 2 (3)	1	3	3		
Total Route Characteristics Score			12	15		
3 Containment	0 1 2 (3)	1	3	3	3.3	
4 Waste Characteristics					3.4	
Toxicity/Persistence Hazardous Waste Quantity	0 3 6 9 12 15 (18)	1	18	18		
	0 1 2 (3) 4 5 6 7 8	1	3	8		
Total Waste Characteristics Score			21	26		
5 Targets					3.5	
Ground Water Use	0 1 (2) 3	3	6	9		
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 (20) 24 30 32 35 40	1	20	40		
Total Targets Score			26	49		
6 If line 1 is 45, multiply 1 x 4 x 5						
If line 1 is 0, multiply 2 x 3 x 4 x 5			19,656	57,330		
7 Divide line 6 by 57,330 and multiply by 100			$S_{gw} = 34.29$			

GROUND WATER ROUTE WORK SHEET

Surface Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	0 (45)	1	45	45	4.1	
If observed release is given a value of 45, proceed to line 4 . If observed release is given a value of 0, proceed to line 2 .						
2 Route Characteristics					4.2	
Facility Slope and Intervening Terrain	0 (1) 2 3	1	1	3		
1-yr. 24-hr. Rainfall	0 1 (2) 3	1	2	3		
Distance to Nearest Surface Water	0 1 (2) 3	2	4	6		
Physical State	0 1 2 (3)	1	3	3		
Total Route Characteristics Score			10	15		
3 Containment	0 1 2 (3)	1	3	3	4.3	
4 Waste Characteristics					4.4	
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18		
Hazardous Waste Quantity	0 1 2 (3) 4 5 6 7 8	1	3	8		
Total Waste Characteristics Score			21	26		
5 Targets					4.5	
Surface Water Use	0 1 (2) 3	3	6	9		
Distance to a Sensitive Environment	(0) 1 2 3	2	0	6		
Population Served/Distance to Water Intake Downstream	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40		
Total Targets Score			6	55		
6 If line 1 is 45, multiply 1 x 4 x 5			5670			
If line 1 is 0, multiply 2 x 3 x 4 x 5				64,350		
7 Divide line 6 by 64,350 and multiply by 100			$S_{sw} =$	8.81		

SURFACE WATER ROUTE WORK SHEET

Facility Name: Houdaille/Strippit Date: 5/21/85

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

AIR ROUTE WORK SHEET

Facility Name: Houdaille / Strappit

Date: 5/21/87

Worksheet for Computing S_M

	S	S ²
Groundwater Route Score (S _{gw})	34.29	1,175.80
Surface Water Route Score (S _{sw})	8.81	77.62
Air Route Score (S _a)	0.0	0.0
S _{gw} ² + S _{sw} ² + S _a ²		1,253.42
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		35.40
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		20.47

WORK SHEET FOR COMPUTING S_M

Facility Name: Houdaille/Strippit

Date: 5/21/85

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

FIRE AND EXPLOSION WORK SHEET

Facility Name: Houdenville / Stripport

Date: 5/21/85

Direct Contact Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
1 Observed Incident	0 45	1	0	45	8.1	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2						
2 Accessibility	0 1 2 3	1	2	3	8.2	
3 Containment	0 15	1	0		8.3	
4 Waste Characteristics Toxicity	0 1 2 3	5	15	15	8.4	
5 Targets					8.5	
Population Within 1-Mile Radius	0 1 2 3 4 5	4	20	20		
Distance to a Critical Habitat	0 1 2 3	4	0	12		
Total Targets Score			20	32		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0	21,600		
7 Divide line 6 by 21,600 and multiply by 100			$S_{DC} = 0$			

DIRECT CONTACT WORK SHEET



DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

FACILITY NAME: Houdaille Industries Stripit Division

LOCATION: 12975 Clarence Road, Erie County, Akron, NY

GROUNDWATER ROUTE

1. OBSERVED RELEASE

Contaminants detected (5 maximum):

Ground water not analyzed for contamination (ECDEP Site Profile Report, 12/84).

Rationale for attributing the contaminants to the facility:

Not applicable.

* * *

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) in concern:

1. Shallow perched aquifer at 2 to 4 feet.
2. Possibly bedrock aquifer in jointed Akron Dolomite. (ECDEP Site Profile Report, 12/84).

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

2 feet (ECDEP Site Profile Report, 12/84).

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

Approximately 10' (ES and D&M Site Inspection, 3/27/85).

Net Precipitation

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

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

Mean annual precipitation is 32".

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

Mean annual lake evaporation is 27".

Net precipitation (subtract the above figures):

5" (32" - 27" = 5").

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Stony sand and silt, trace clay (Engineering Guide to Soil Series of NY, NYSDOT, Soil Mechanics Bureau, 1974).

Permeability associated with soil type

10^{-5} to 10^{-7} cm/sec (Freeze, R.A., and J.A. Cherry, Groundwater, 1979).

Physical State

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

Solid and liquid (NYSDEC Registry Sheet, 12/83; Interagency Task Force on Hazardous Wastes, 1978).

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Unlined landfill (NYSDEC Hazardous Waste Report, 1982).
Leaking drums (ES and D&M Site Inspection 3/27/84).

Method with highest score:

Unlined landfill and leaking drums.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Heavy metals detected in soils (arsenic, zinc, lead, and chromium).
Suspected Trichloroethylenes and phenols (NYSDEC Site Profile Report and
ES and D&M Site Inspection, 3/27/85).

Compound with highest score:

Heavy metals (toxicity = 3, persistence = 3) - 18

Hazardous Waste Quantity

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

216 drums containing heat treatment sludge (USEPA Site Assessment,
4/15/80) and 95 drums of solvent (19 years x 5/yr) = 3 (Bartha, 1985).

Basis of estimating and/or computing waste quantity:

Biodegradable, water based coolant - 20,000 gal/yr, degreasing
solvents used as starter fluid for burning plant's combustible solid
waste, five 55 gallon drums/yr (Bartha, 1985). Heat treatment sludge
(216 drums) from metal fabrication operations landfilled on-site - 3
tons/yr. Refuse (presumably non-hazardous) - 450 cubic yards/yr, burned
on-site.

NOTE: Partially buried drums were observed to be in a deteriorated
condition during the ES and D&M Site Inspection. Therefore, the drums
were presumed to be leaking.

5. TARGETS

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

Groundwater Use

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

Municipal water on the north, east, and west sides. Drinking water from bedrock aquifer to the south.

Distance to Nearest Well

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

Estimate approximately 2,000 feet to south - private home (ES/D&M Site Visit, 1985).

Distance to above well or building:

Approximately 2,000 feet (ES and D&M Site Inspection, 3/27/85).

Population Served by Groundwater Wells Within a 3-Mile Radius

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

Community Water supply well for Quarry Hill Estates located 2.5 miles southeast - 400 people (NYS Atlas of Community Water System Sources, 1982). Also have several private drinking water wells, estimated to be less than 100 people (Campbell, 1985).

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

None within 3 miles.

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

400 people in Quarry Hill Estates plus residents with private wells, estimate 100; total population 500.

SURFACE WATER ROUTE

1. OBSERVED RELEASE

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

Mercury and selenium (at or above Safe Drinking Water Standards).
Arsenic, lead, and zinc (trace quantities).
(NYSDEC Site Profile Report, 1982).

Rationale for attributing the contaminants to the facility:

Surface water samples were collected from the drainage ditch along the perimeter of the site.

2. ROUTE CHARACTERISTICS

(USGS Topographic Maps: Wolcottsville, NY and Akron, NY Quadrangles)

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Approximately 2%.

Name/description of nearest downslope surface water:

Murder Creek.

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

3.1%.

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

No.

The facility completely surrounded by areas of higher elevation?

No.

1-Year 24-Hour Rainfall in Inches

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

Distance to Nearest Downslope Surface Water

4,000 ft. (USGS 7.5' Topographic Map: Wolcottsville and Akron Sheets).

Physical State of Waste

Solid and liquid (NYSDEC Registry Sheet, 12/83).

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Unlined landfill with permeable cover.

Method with highest score:

Unlined landfill with permeable cover and no diversion system (ES and D&M Site Inspection, 3/27/85).

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Heavy metals detected in soils (arsenic, zinc, lead, and chromium). Suspected Trichloroethylenes and phenols (NYSDEC Site Profile Report and ES and D&M Site Inspection, 3/27/85).

Compound with highest score:

Heavy metals (toxicity = 3, persistence = 3) - 18

Hazardous Waste Quantity

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

216 drums containing heat treatment sludge (USEPA Site Assessment, 4/15/80) and 95 drums of solvent (19 years x 5/yr) = 3 (Bartha, 1985).

Basis of estimating and/or computing waste quantity:

Biodegradable, water based coolant - 20,000 gal/yr, degreasing solvents used as starter fluid for burning plant's combustible solid waste, five 55 gallon drums/yr (Bartha, 1985). Heat treatment sludge (216 drums) from metal fabrication operations landfilled on-site - 3 tons/yr. Refuse (presumably non-hazardous) - 450 cubic yards/yr, burned on-site.

NOTE: Partially buried drums were observed to be in a deteriorated condition during the ES and D&M Site Inspection. Therefore, the drums were presumed to be leaking.

* * *

5. TARGETS

Surface Water Use

(ES and D&M Site Inspection, 3/27/85)

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

Recreation.

Is there tidal influence?

No.

Distance to a Sensitive Environment

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

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

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

None within 1 mile (Sneider and Wilkinson, 1985).

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

None within 1 mile (Sneider and Wilkinson, 1985).

Population Served by Surface Water

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

None within specified distances (NYS Atlas of Community Water System Sources, 1982).

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

Not applicable.

Total population served:

Not applicable.

Name/description of nearest of above water bodies:

Not applicable.

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

Not applicable.

AIR ROUTE

1. OBSERVED RELEASE

Contaminants detected:

None. HNU meter readings were taken and all readings were less than 1 ppm, indicating no air releases.

Date and location of detection of contaminants:

ES and D&M Site Inspection, 3/27/85.

Methods used to detect the contaminants:

HNU meter.

Rationale for attributing the contaminants to the site:

Not applicable.

* * *

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Not applicable, no reactive compounds are known to be disposed of on-site.

Most incompatible pair of compounds:

Not applicable, no incompatible compounds are known to be disposed of on-site.

Toxicity

Most toxic compound:

Trichloroethylene and phenols are suspected to be on-site (NYSDEC Site Profile Report). However, to have an observed release and score a waste for the air pathway, an air survey must be conducted to document the presence of the contaminant.

Hazardous Waste Quantity

Total quantity of hazardous waste:

The quantity of hazardous waste disposed on-site which could affect the air pathway is unknown.

Basis of estimating and/or computing waste quantity:

See above comment.

* * *

3. TARGETS

Population Within 4-Mile Radius

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

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

12,868 people (Compiled from US Census Data, 1980).

Distance to a Sensitive Environment

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

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

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

None within 1 mile (Sneider and Wilkinson, 1985).

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

None within 1 mile (Sneider and Wilkinson, 1985).

Land Use

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

0.2 miles (ES and D&M Site Inspection, 3/27/85).

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

More than 2 miles (USGS Topographic Maps: Wolcottsville and Akron, Quadrangles, 1980).

Distance to residential area, if 2 miles or less:

0.1 mile (ES and D&M Site Inspection, 3/27/85).

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

0.1 mile (USGS Topographic Maps: Wolcottsville and Akron, Quadrangles, 1980).

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

Unknown.

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

No.

FIRE AND EXPLOSION

1. CONTAINMENT

Hazardous substances present:

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

Type of containment, if applicable:

Not applicable, see above comment.

* * *

2. WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

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

Ignitability

Compound used:

No ignitable compounds are known to exist on-site.

Reactivity

Most reactive compound:

No reactive compounds are known to exist on-site.

Incompatibility

Most incompatible pair of compounds:

No incompatible compounds are known to exist on-site.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

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

Basis of estimating and/or computing waste quantity:

No applicable, see above comment

* * *

3. TARGETS

Distance to Nearest Population

Residential area is located 0.1 mile from the site (ES and D&M Site Inspection, 3/27/85).

Distance to Nearest Building

Approximately 200 feet to plant building (ES and D&M Site Inspection, 3/27/85).

Distance to Sensitive Environment

Distance to wetlands:

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

Distance to critical habitat:

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

Land Use

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

0.2 mile (ES and D&M Site Inspection, 3/27/85).

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

More than 2 miles (USGS Topographic Maps: Wolcottsville and Akron, Quadrangles, 1980).

Distance to residential area, if 2 miles or less:

0.1 mile (ES and D&M Site Inspection, 3/27/85).

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

0.1 mile (USGS Topographic Maps: Wolcottsville and Akron, Quadrangles, 1980).

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

Unknown.

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

No.

Population with 2-Mile Radius

69,083 people (US Census Data, 1980).

Buildings Within 2-Mile Radius

18,180 buildings (USGS Topographic Maps: Wolcottsville and Akron, Quadrangles, 1980).

DIRECT CONTACT

1. OBSERVED INCIDENT

Date, location, and pertinent details of incident:

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

* * *

2. ACCESSIBILITY

Describe type of barrier(s):

The site is enclosed by a fence, but there is no separate means to control entry (ES and D&M Site Inspection, 3/27/85).

* * *

3. CONTAINMENT

Type of containment, if applicable:

The site has been covered with clean fill from an on-site excavation project. Therefore, any on-site hazardous wastes are not accessible for direct contact.

* * *

4. WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Heavy metals detected in soil (arsenic, zinc, lead, and chromium suspected trichloroethylenes and phenols (NYSDEC Site Profile Report).

Compound with highest score:

Heavy metals - toxicity = 3.

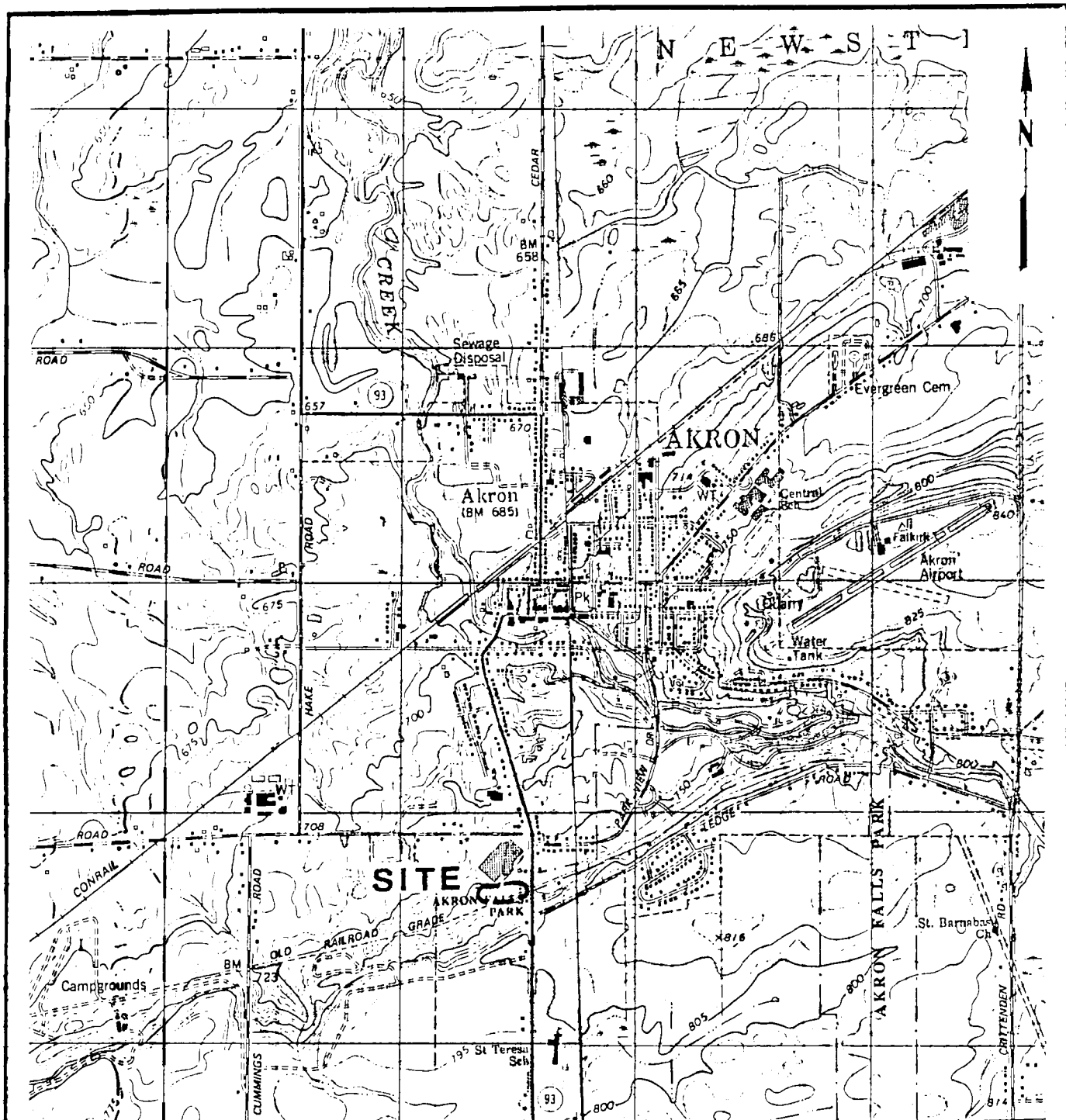
5. TARGETS

Population within one-mile radius

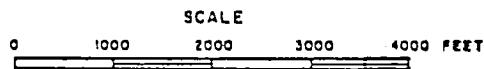
12,868 people (US Census Data, 1980).

Distance to critical habitat (of endangered species)

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



LATITUDE: 43°00'27"
 LONGITUDE: 78°30'14"

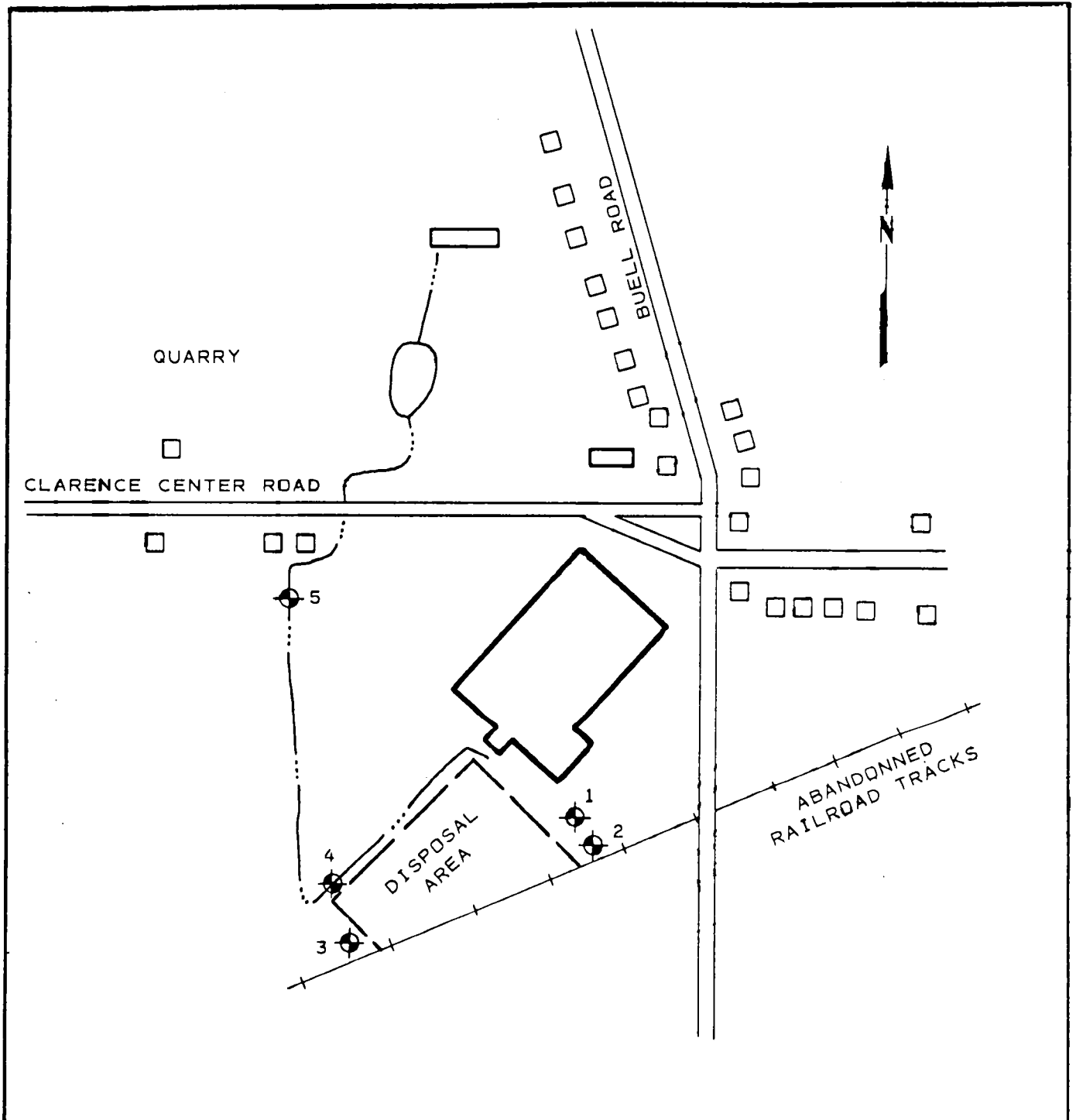


REFERENCE: U.S.G.S. 7.5' Topographic Map
 Wolcottville, NY (1980) and
 Akron, NY (1980) Quadrangles

ENGINEERING-SCIENCE, INC.
 IN ASSOCIATION WITH
 DAMES & MOORE
 NEW YORK STATE DEPARTMENT
 OF ENVIRONMENTAL CONSERVATION
 PHASE I REPORT


SITE LOCATION MAP
 HOUDAILLE INDUSTRIES
 (STRIPIT DIV.)

FIGURE iv-1



NOT TO SCALE

EXPLANATION:

- 

 1 NYSDEC SAMPLE POINT
 (Dec. 15, 1981)

ENGINEERING-SCIENCE, INC. IN ASSOCIATION WITH DAMES & MOORE
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE I REPORT
PLOT PLAN HOUDAILLE INDUSTRIES (STRIPPIT DIV.)
FIGURE iv-2

HRS REFERENCES

1. Campbell, D., ECDEP, Personal Communication, 25 October 1985.
2. Code of Federal Regulations, Protection of Environment, No. 40, Parts 190 to 399, 1983.
3. ES and D&M Site Inspection, March/April, 1985.
4. Freeze, R. A., and Cherry, J. A., Groundwater, 1985.
5. NYS Atlas of Community Water System Sources, NYS Department of Health, 1982.
6. NYSDEC, Inactive Hazardous Waste Disposal Sites Registry Sheet, 12/83.
7. NYSDEC Hazardous Waste Questionnaire, Interagency Task Force on Hazardous Wastes, 1978.
8. NYS DOT, Engineering Guide to Soil Series of New York, Vols. I and II, Soil Mechanics Bureau, 1974.
9. NYS Museum and Science Service Bedrock Geology Map, Map and Chart Series, No. 15 (compiled by Rickard, L. V., and Fisher, D. W.).
10. NYS Museum and Science Service Bedrock Geology Map, Map and Chart Series, No. 28 (compiled by Muller, Ernest, H.), 1977.
11. Sneider, Jim and Wilkinson, Mike, NYSDEC Division of Fish and Wildlife, Personal Communication, 1/10/85 through 1/11/85.
12. US Census Data, 1980.
13. US Department of Commerce. "Climatic Atlas of the United States". 1979.

14. US Department of Commerce Technical Paper No. 40. "Rainfall Frequency Atlas of the United States". 1963.
15. USEPA, Potential Hazardous Waste Site Identification and Preliminary Assessment Inspection Form, 15 April 1980.
16. USGS Topographic Maps: Wolcottsville, NY and Akron, Ny Quadrangles.

RECORD OF TELEPHONE CONVERSATION

DATE 10/25/85

JOB NO.: 13305-019

RECORDED BY: JCB

OWNER/CLIENT: NYS DEC

TALKED WITH: Don Campbell OF Erie Co. Dept. of Envir. Planning

NATURE OF CALL: INCOMING OUTGOING

ROUTE TO: INFORMATION ACTION

AMS

Susan Powers - ES.

MAIN SUBJECT OF CALL: Wells @ Houdaille site - Stripait Div.

ITEMS DISCUSSED:

Don Campbell says that there appears to be several ^{private} wells serving less than 100 people in the vicinity of the Houdaille site. He could not be more specific than this.

JCB

Code of
Federal Regulations
1980

DEPARTMENT OF
Environment

REF-2



40

PARTS 190 to 399
Revised as of July 1, 1983

CONTAINING
A CODIFICATION OF DOCUMENTS
OF GENERAL APPLICABILITY
AND FUTURE EFFECT
AS OF JULY 1, 1983

With Ancillaries

Published by
the Office of the Federal Register
National Archives and Records Service
General Services Administration

as a Special Edition of
the Federal Register

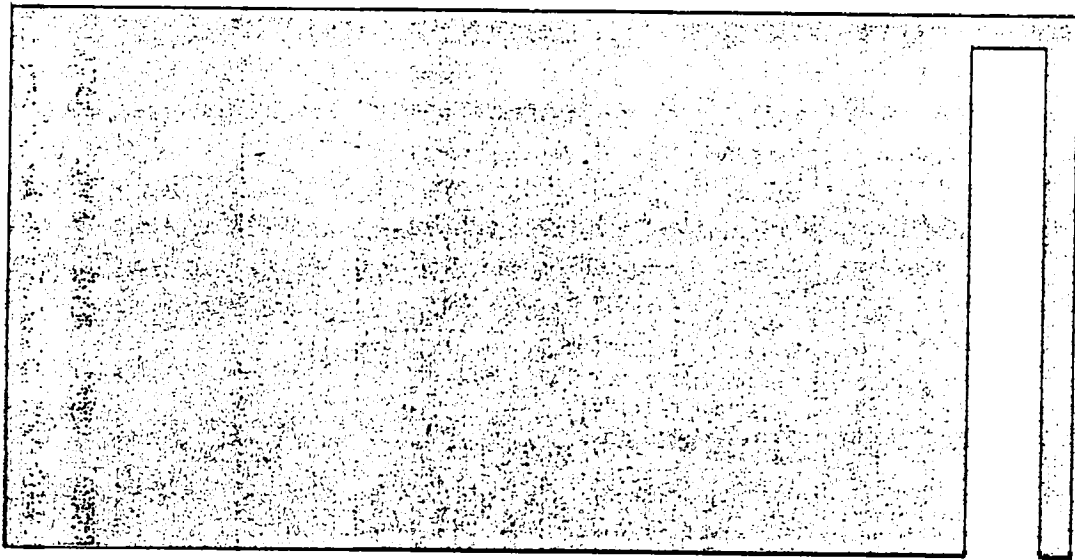


ES AND D&M SITE INSPECTION

Observations made during the ES and D&M Site Inspections are provided on US EPA Forms 2070-12 and 2070-13. Field notes were used to complete these EPA Forms, and are not included herein.

REF-4

4



R. Allan Freeze

Department of Geological Sciences
University of British Columbia
Vancouver, British Columbia

John A. Cherry

Department of Earth Sciences
University of Waterloo
Waterloo, Ontario

GROUNDWATER

Prentice-Hall, Inc.
Englewood Cliffs, New Jersey 07632

(1984)

Table 2.2 Range of Values of Hydraulic Conductivity and Permeability

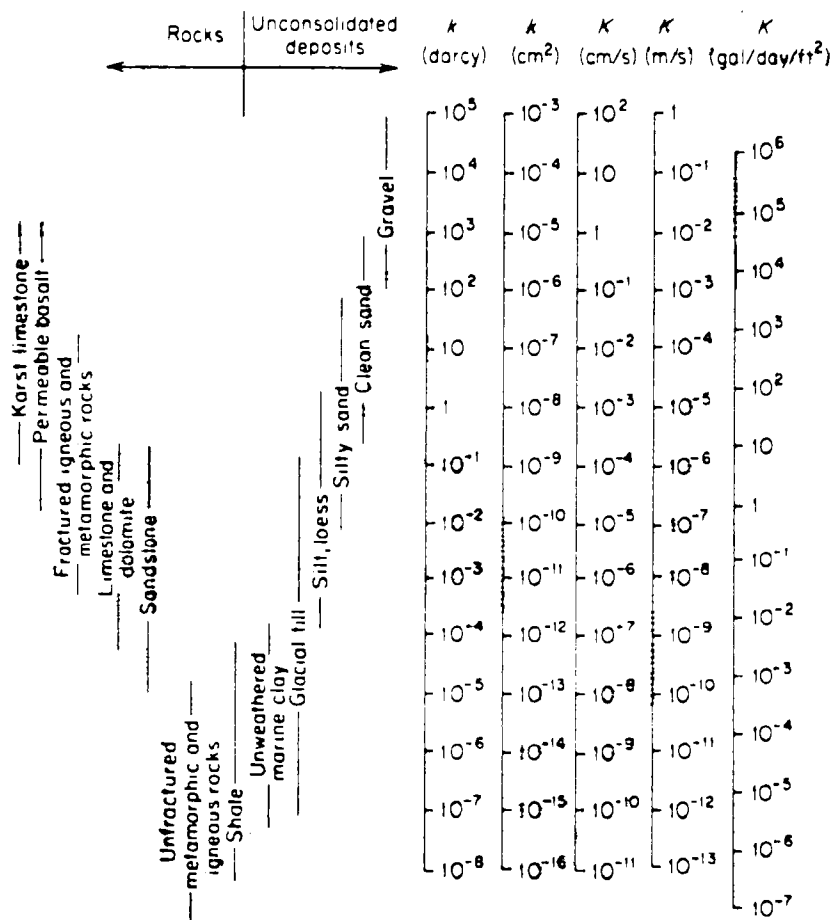


Table 2.3 Conversion Factors for Permeability and Hydraulic Conductivity Units

	Permeability, <i>k</i> *			Hydraulic conductivity, <i>K</i>		
	cm ²	ft ²	darcy	m/s	ft/s	U.S. gal/day/ft ²
cm ²	1	1.08 × 10 ⁻³	1.01 × 10 ⁸	9.80 × 10 ⁻²	3.22 × 10 ³	1.85 × 10 ⁹
ft ²	9.29 × 10 ²	1	9.42 × 10 ¹⁰	9.11 × 10 ³	2.99 × 10 ⁸	1.71 × 10 ¹²
darcy	9.87 × 10 ⁻⁹	1.06 × 10 ⁻¹¹	1	9.66 × 10 ⁻⁶	3.17 × 10 ⁻³	1.82 × 10 ¹
m/s	1.02 × 10 ⁻³	1.10 × 10 ⁻⁶	1.04 × 10 ³	1	3.28	2.12 × 10 ⁸
ft/s	3.11 × 10 ⁻⁴	3.35 × 10 ⁻⁷	3.15 × 10 ⁴	3.05 × 10 ⁻¹	1	6.46 × 10 ³
U.S. gal/day/ft ²	5.42 × 10 ⁻¹⁰	5.83 × 10 ⁻¹³	5.49 × 10 ⁻²	4.72 × 10 ⁻⁷	1.55 × 10 ⁻⁶	1

*To obtain *k* in ft², multiply *k* in cm² by 1.08 × 10⁻³.

New York State Atlas of Community Water System Sources

NEW YORK STATE
DEPARTMENT OF HEALTH

1982

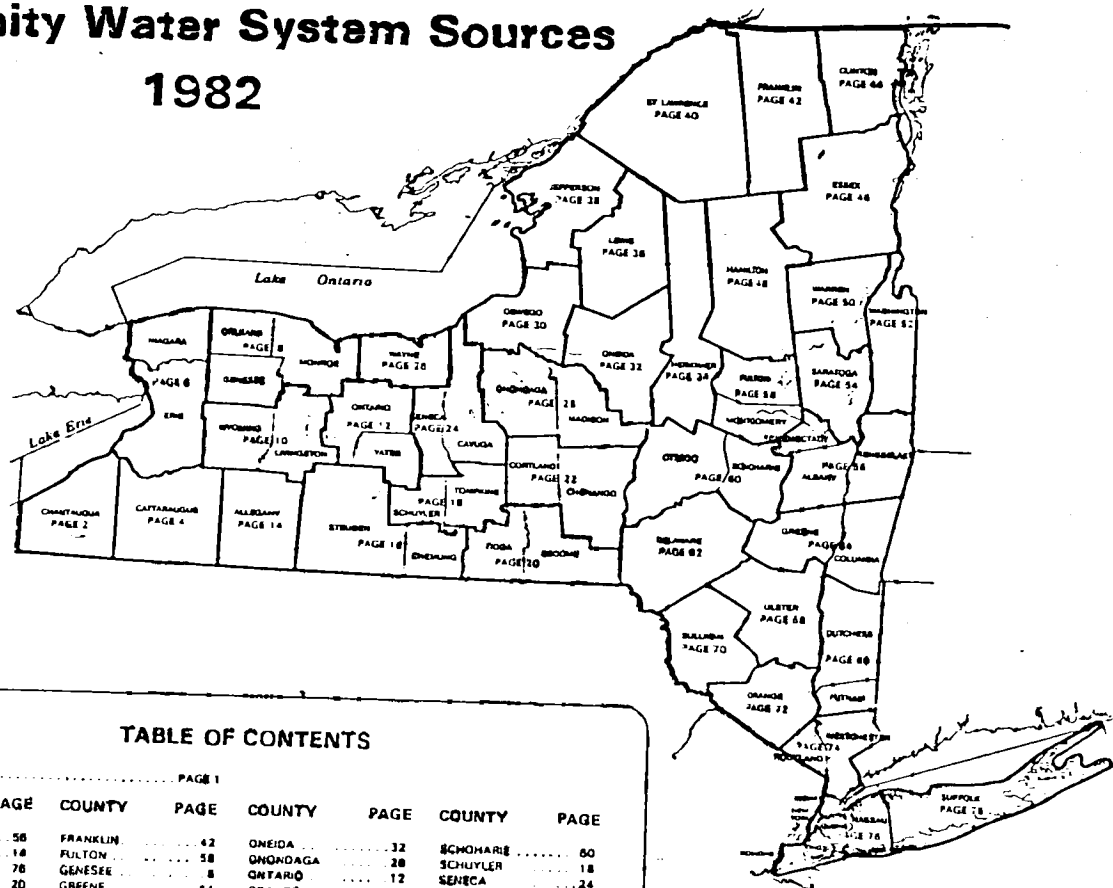


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LEGEND

BOUNDARIES AND PLACES

International	-----
State	-----
County	-----
Town	-----
Indian Reservation	-----
City	-----
Village	-----
Unincorporated Place	-----
Federal Reservation	-----
Built-up Area (Over 25 000 population including any contiguous city or village)	-----

CLASSIFICATION OF POPULATED PLACES

100,000 or more	YONKERS
50,000 to 100,000	Levittown
12,500 to 50,000	Poughkeepsie
2,500 to 12,500	Hamilton Bays
250 to 2,500
250 or less

TRANSPORTATION

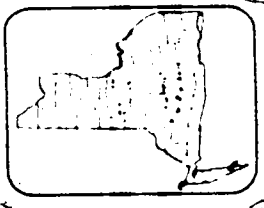
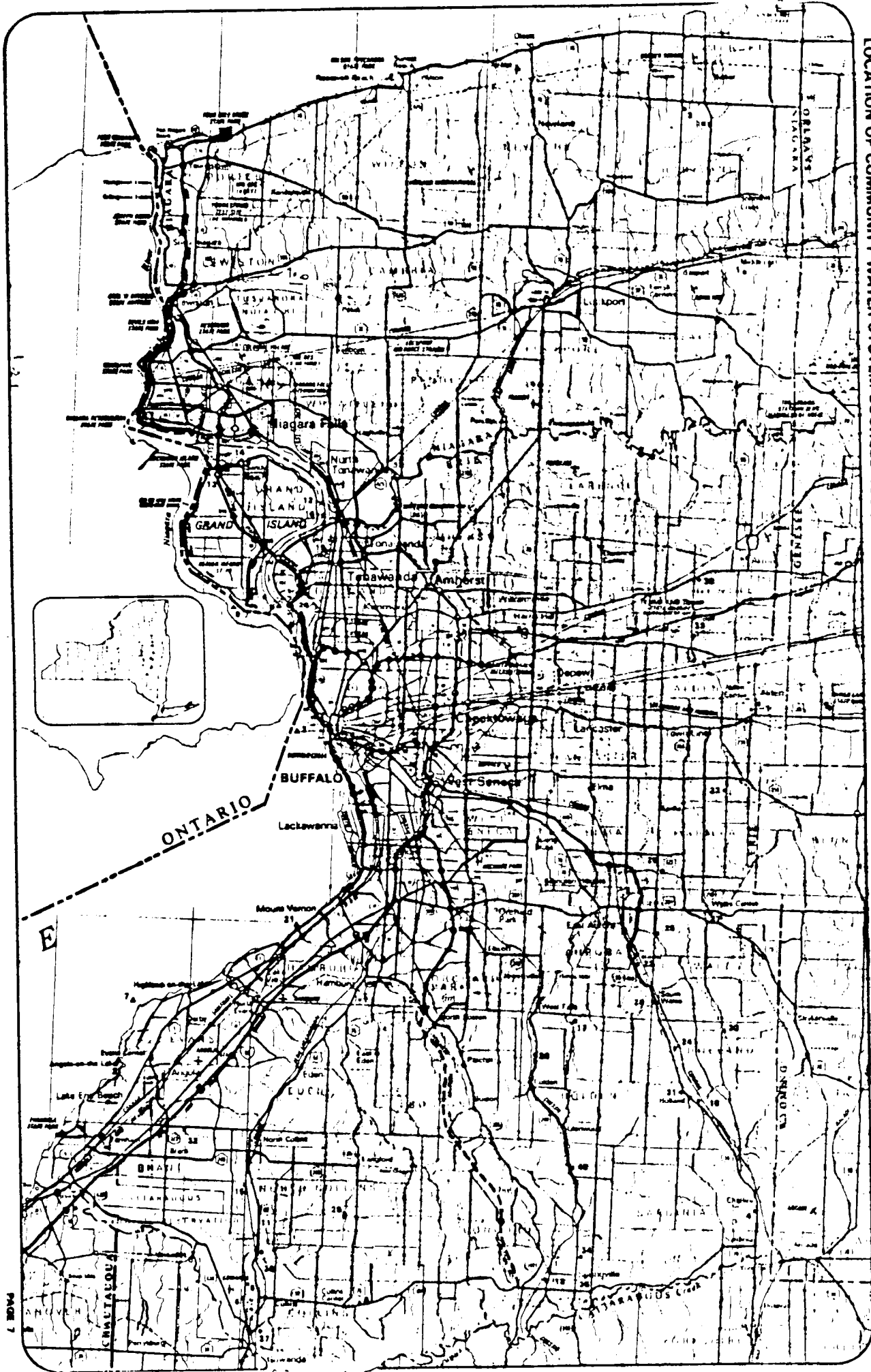
Highways	
Divided Highways	-----
Full Control of Access	-----
Partial or No Control of Access	-----
Undivided Highway	-----
Interchange	-----
Touring Route (State, U.S. Interstates or State Parkway)	-----
Touring Route Markers	-----
State U.S. Interstate	-----
Railroads	
Operating Line	-----
Service Discontinued	-----
Operator	-----
Owner (If Other than Operator)	-----
Company Having Trackage Rights	-----
Airports (Open to the Public, Military)	
Runway under 4000'	-----
Runway over 4000'	-----
Rest Areas	
Food, Gas, Rest Rooms	-----
Rest Rooms	-----
Gas, Rest Rooms	-----
Parking Only	-----

RECREATION FACILITIES

State or National Recreation Area	-----
State Campground	-----
State Boat Launching Site	-----
State Canal Park	-----
State Fish Hatchery	-----
Other State Recreation Site	-----

DET-5

LOCATION OF COMMUNITY WATER SYSTEM SOURCES - 1982



NEW YORK STATE DEPARTMENT OF HEALTH
 DIVISION OF ENVIRONMENTAL PROTECTION
 BUREAU OF PUBLIC WATER SUPPLY PROTECTION

ERIE and NIAGARA COUNTIES

ERIE COUNTY

ID NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE
Municipal Community			
	Akron Village (See No 1 Wyoming Co, Page 10)	3640	
1	Alden Village	3460	Wells
2	Angola Village	8500	Lake Erie
3	Buffalo City Division of Water	357870	Lake Erie
4	Caffree Water Company	210	Wells
5	Collins Water District #1	704	Wells
6	Collins Water Districts #1 and #2	1384	Wells
7	Erie County Water Authority (Sturgeon Point Intake)	375000	Lake Erie
8	Erie County Water Authority (Van Dewater Intake)	NA	Niagara River - East Branch
9	Grand Island Water District #2	9390	Niagara River
10	Holland Water District	1670	Wells
11	Lawtons Water Company	138	Wells
12	Lockport City (Niagara Co)	NA	Niagara River - East Branch
13	Niagara County Water District (Niagara Co)	NA	Niagara River - West Branch
14	Niagara Falls City (Niagara Co)	NA	Niagara River - West Branch
15	North Collins Village	1500	Wells
16	North Tonawanda City (Niagara Co)	NA	Niagara River - West Branch
17	Orchard Park Village	1671	Pipe Creek Reservoir
18	Springville Village	8769	Wells
19	Tonawanda City	18538	Niagara River - East Branch
20	Tonawanda Water District #1	91269	Niagara River
21	Wenckah Water Company	10750	Lake Erie
Non-Municipal Community			
22	Aurora Mobile Park	125	Wells
23	Bush Gardens Mobile Home Park	270	Wells
24	Circle B Trailer Court	50	Wells
25	Circle Court Mobile Park	125	Wells
26	Creekside Mobile Home Park	120	Wells
27	Donnelly's Mobile Home Court	99	Wells
28	Gowanda State Hospital	NA	Clear Lake
29	Hillside Estates	160	Wells
30	Hunters Creek Mobile Home Park	150	Wells
31	Inor Apartments	NA	Wells
32	Maple Grove Trailer Court	72	Wells
33	Milgrove Mobile Park	100	Wells
34	Parsons Trailer Park	75	Wells
35	Quarry Hill Estates	400	Wells
36	Springville Mobile Park	114	Wells
37	Springwood Mobile Village	132	Wells
38	Taylor's Grove Trailer Park	39	Wells
39	Valley View Mobile Court	82	Wells
40	Village Apartments	NA	Wells

NIAGARA COUNTY

ID NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE
Municipal Community			
	Lockport City (See No 12, Erie Co)	25000	
1	Middleport Village	2000	Wells (Springs)
	Niagara County Water District (See No 13, Erie Co)	48	
2	Niagara Falls City (See also No 14 Erie Co)	77384	Niagara River - East Branch
	North Tonawanda City (See No 16 Erie Co)	36000	
Non-Municipal Community			
3	Country Estates Mobile Village	28	Wells

(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: 3 SITE CODE: 915053
NAME OF SITE: Houdaille Ind. Stripit Division REGION: 9
STREET ADDRESS: 12975 Clarence Road
TOWN/CITY: Akron COUNTY: Erie

NAME OF CURRENT OWNER OF SITE: Houdailles Industries - Stripit Div.
ADDRESS OF CURRENT OWNER OF SITE: Buell & Clarence Rds, Akron, NY 14001

TYPE OF SITE: OPEN DUMP STRUCTURE LAGOON
LANDFILL TREATMENT POND

ESTIMATED SIZE: 2 ACRES

SITE DESCRIPTION:

Stripit Division of Houdaille Industries and its predecessors used this site to dispose cutting oils, solvents, paint, coolants and heat treatment sludge during the period 1955-1975. In 1981, DEC took soil and ground water samples. The soil samples indicated moderate to high concentration of lead, zinc and halogenated organics. The water samples indicated moderate to high concentration of arsenic. The disposal site has been covered. A gas well has been drilled through the site.

HAZARDOUS WASTE DISPOSED:	CONFIRMED <input type="checkbox"/>	SUSPECTED <input checked="" type="checkbox"/>
TYPE AND QUANTITY OF HAZARDOUS WASTES DISPOSED:		QUANTITY (POUNDS, DRUMS, TONS, GALLONS)
<u>Cutting oils, solvents, paints</u>		<u>20,000 gallons/yr</u>
<u>Heat treatment sludge</u>		<u>3 tons/yr</u>
<u>Coolant</u>		<u>20,000 gallons/yr</u>
_____		_____
_____		_____

TIME PERIOD SITE WAS USED FOR HAZARDOUS WASTE DISPOSAL:

_____, 1955 TO _____, 19 75

OWNER(S) DURING PERIOD OF USE: Houadille Ind. - Strippit Div.

SITE OPERATOR DURING PERIOD OF USE: Houadille Ind. - Strippit Div.

ADDRESS OF SITE OPERATOR: Buell & Clarence Rd., Akron, NY 14001

ANALYTICAL DATA AVAILABLE: AIR SURFACE WATER GROUNDWATER
SOIL SEDIMENT NONE

CONTRAVENTION OF STANDARDS: GROUNDWATER DRINKING WATER
SURFACE WATER AIR

SOIL TYPE: Moderately drained lime soil

DEPTH TO GROUNDWATER TABLE: Not known

LEGAL ACTION: TYPE: None STATE FEDERAL
STATUS: IN PROGRESS COMPLETED
REMEDIAL ACTION: PROPOSED UNDER DESIGN
IN PROGRESS COMPLETED
NATURE OF ACTION: None

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

From the available data, there is an indication of environmental problems at this site. More investigations are required to make full assessment of the potential environmental problems.

ASSESSMENT OF HEALTH PROBLEMS:

IDENTIFICATION INFORMATION

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NAME Abul Barkat
TITLE Sr. Sanitary Engr.
NAME Peter Buechi
TITLE Assoc. Sanitary Engr.
DATE: Nov. 10, 1983

NEW YORK STATE DEPARTMENT OF HEALTH
NAME R. Tramontano
TITLE Bur. Tox. Subst. Assess.
NAME _____
TITLE _____
DATE: 12/83

(NYSDEC, 1978)

NOV 07 1978

REF-7

INTERAGENCY TASK FORCE ON HAZARDOUS WASTES
H.P.O. Box 561
Niagara Falls, New York 14302
(716) 285-3057

I. General Information

1. Company Name STRIPPIT, Division of Houdaille Ind., Inc.

Mailing Address 12975 Clarence Center Rd., Akron, New York 14004
Street City State Zip

Present Plant Location Same as Above
Street City State Zip

2. If Subsidiary or Division, Name of Parent Company Houdaille Industries, Inc.

3. Person Responsible for Present Plant Operations Mr. Kenneth L. Slawson
Name

President 542-3611
Title Telephone

4. Person Answering this Questionnaire Kenneth Bartha
Name

Method's Engineer 741-1772
Title Telephone

II. Company History

1. Date Company Founded December 16, 1925

Date and State of Incorporation December 16, 1925 New York

Date Company Began Operations in Erie or Niagara County December 16, 1925

2. Other Company Names since 1930 (specify time periods) Buffalo Alarm Clock Casting Co. 1925-35
Wales Strippit Corporation 1935-50
Strippit Corporation 1956-present

3. Other Plant Locations in Erie or Niagara County since 1930 (specify locations and time periods) Niagara Street, Buffalo, N.Y. 1935-42
North Tonawanda, New York 1942-55

4. Names of Companies Acquired which have Operated Plants in Erie or Niagara County since 1930 (specify name of company, date of acquisition, location of plant, and periods of operation). Houdaille Electronics
11200 Main Street, Clarence, N.Y. 1956-present

(NYSDEC, 1978)

III. Company Personnel

1. Identify all plant managers from 1930 to present. Indicate years of service in that position, last known address and telephone number.
2. Identify all plant purchasing agents from 1930 to present. Indicate years of service in that position, last known address and telephone number.
3. Identify all plant personnel with supervisory responsibility for treatment or disposal of industrial wastes from 1930 to present. Indicate years of service, last known address and telephone number.

IV. Industrial Waste Production, Treatment and Disposal

1. Processes Used at Plant (1930-1975)

<u>Processes</u>	<u>Dates</u>
a. <u>Heat Treat Tool Steels</u>	a. <u>1956 - 1975</u>
b. <u>Coolants & Cutting Oils for Machining</u>	b. <u>1956 - 1975</u>
c. <u>Degreasing Parts</u>	c. <u>1956 - 1975</u>
d. <u>Boiler Treatment Solutions</u>	d. <u>1956 - 1975</u>
e. <u>Painting of Machines & Parts</u>	e. <u>1956 - 1975</u>
2. Products (1930-1975)

a. <u>Heat Treat Sludge</u>	a. <u>1956 - 1975</u>
<u>Cutting Oil Compounds and</u>	
<u>Cutting Coolants Water Soluble</u>	b. <u>1956 - 1975</u>
c. <u>Chlorinated Solvents</u>	c. <u>1956 - 1975</u>
d. <u>Alkaline Cleaners</u>	d. <u>1956 - 1975</u>
e. <u>Paint Thinners</u>	e. <u>1956 - 1975</u>
3. On Site Waste Treatment (1930-1975)

a. <u>Incinerate all combustibles</u>	a. <u>1956 - 1975</u>
b. <u>Buried all non-combustibles on</u>	
<u>refuse disposal site.</u>	b. <u>1956 - 1975</u>
c. <u>Diluted alkaline cleaners and</u>	
<u>disposed of in sanitary sewer.</u>	c. <u>1956 - 1975</u>
d. <u>Coolant dumped on refuse disposal site.</u>	d. <u>1956 - 1975</u>
e. <u>Oil compounds collected in holding tank.</u>	e. <u>1968 - 1975</u>
4. List all Waste Haulers since 1930 including Your Company

Name <u>Strippit, Division of Houdaille Industries, Inc.</u>		
Address	<u>12975 Clarence Center Road</u>	<u>Akron, New York</u>
	Street	City State
Telephone	<u>542-4511</u>	
Name <u>Buffalo Waste Oil Service</u>		
Address	<u>76 Robinson Street</u>	<u>North Tonawanda, New York</u>
	Street	City State
Telephone	<u>693-0861</u>	

(NYSDEC, 1978)

5. Identify all Treatment or Disposal Sites in Erie or Niagara County used since 1930 (use separate sheet for each site).

- a. Name of Site Lancaster Sanitary Landfill
- b. Location Lancaster, New York
- c. Owner or Operator Mr. Thomas Shipston
- d. Time Period Site was Used _____

e. Describe Waste Types Treated or Disposed at this Site	Physical State	Total Quantity	Type of Container, if Any
(1) <u>Garbage</u>	<u>Solid</u>	<u>450 cu. yds (1 Year)</u>	<u>Bulk Compactor</u>
(2) <u>Heat Treat Sludge</u>	<u>Solid</u>	<u>3 ton/yr.</u>	<u>55 gal. drums</u>
(3) <u>Coolant</u>	<u>Liquid</u>	<u>20,000 gals. (1 Year)</u>	<u>Bulk</u>
(4) _____	_____	_____	_____
(5) _____	_____	_____	_____

- f. Wastes were land disposed incinerated reclaimed treated other (specify) _____

g. Names of waste haulers including your company transporting such wastes to this site, if a disposal site.

Stripit (See address on Page 1) 542-4511
Rural Sanitation 759-8121
 Name Telephone
5040 Hillcrest Drive Clarence New York
 Street City State

Time Periods such Hauler Transported to this Site 1975 - 1978

Niagara Sanitation 421-5125
 Name Telephone
262 Woodward Avenue, Kenmore, New York
 Street City State

Time Periods such Hauler Transported to this Site 1975 - 1978

h. List Names and Addresses of other Companies using this Site, if a disposal site.

NONE
 Name of Company
 Street City State

Time Periods such Other Company Used this Site _____

(NYS DOT, 1974)

REF-8

ENGINEERING GUIDE
TO
SOIL SERIES OF NEW YORK

VOLUME I
DISCUSSION
SOIL SERIES A-L

JOHN B. FLECKENSTEIN
SENIOR AGRONOMIST

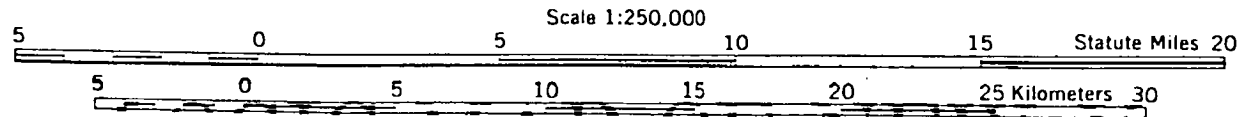
DECEMBER 1974

SOIL MECHANICS BUREAU
New York State Department of Transportation
State Campus, Albany, New York 12232

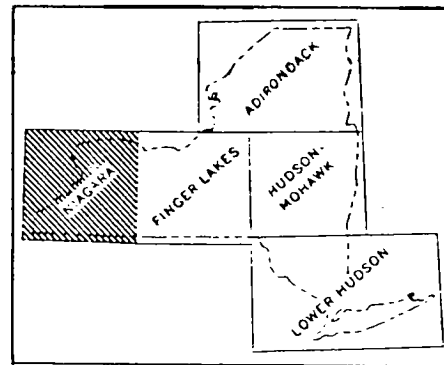
GEOLOGIC MAP OF NEW YORK

1970

Niagara Sheet



CONTOUR INTERVAL 100 FEET



Topographic Base from AMS Quadrangles 1:250,000 scale.

NEW YORK STATE MUSEUM AND SCIENCE SERVICE
MAP AND CHART SERIES NO. 15

COMPILED AND EDITED BY

Lawrence V. Rickard
Donald W. Fisher

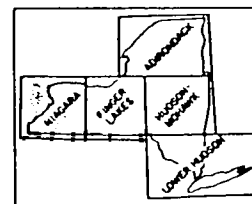
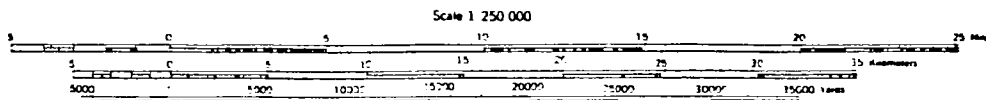
March, 1970

REF 9

QUATERNARY GEOLOGY OF NEW YORK, NIAGARA SHEET

by Ernest H. Muller

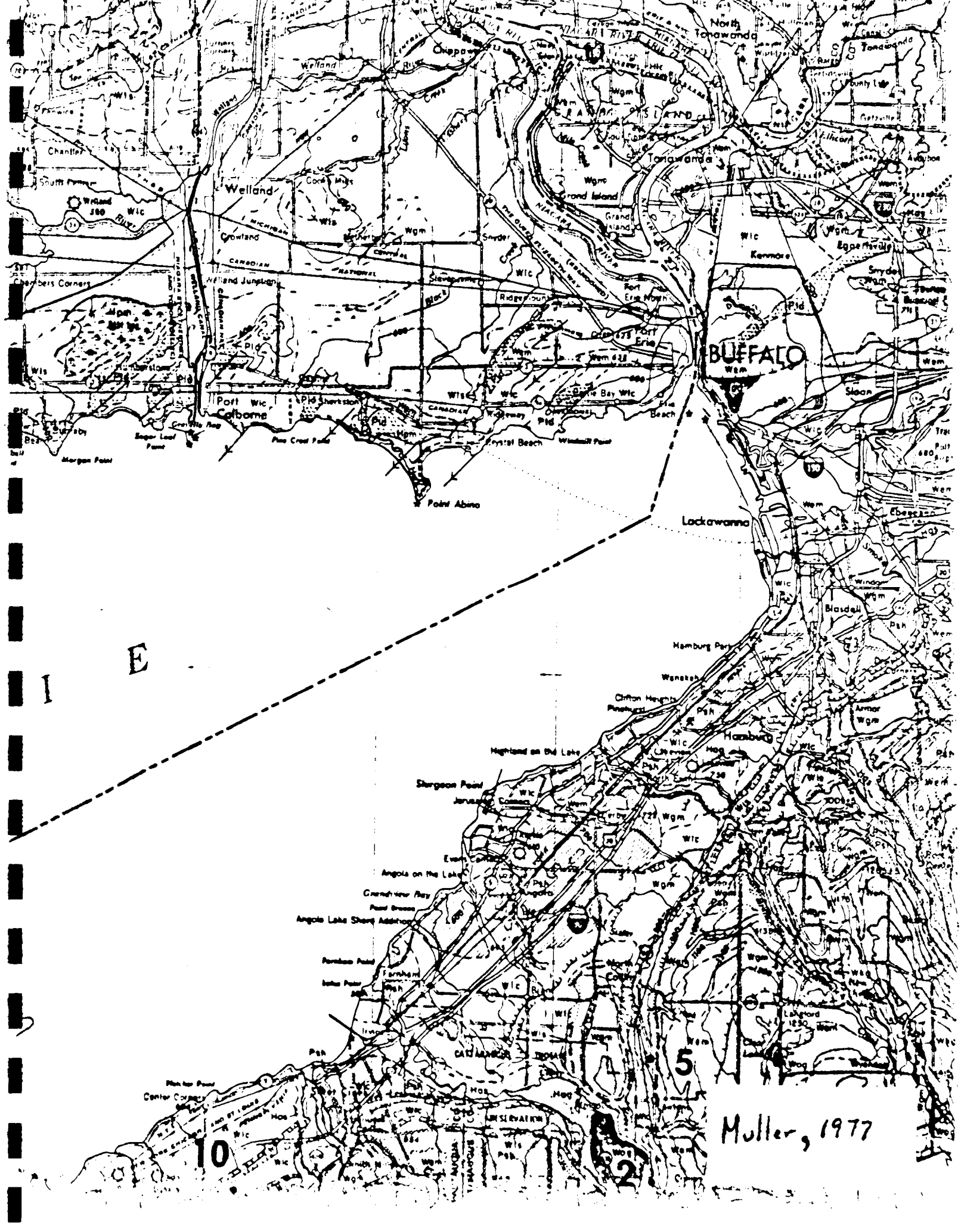
Muller, Ernest H. (1977)
New York State Museum and Science Service
Map and Chart Series Number 28



MAP DATA SOURCES

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Ref-10



E

10

5

2

Moller, 1977

INTERVIEW FORM

INTERVIEWEE/CODE Jim Sneider Mike Wilkerson
 TITLE - POSITION NVSDCC Div of Fish & Wildlife
 ADDRESS Delaware Ave.
 CITY Buffalo STATE NY ZIP _____
 PHONE () RESIDENCE PERIOD _____ TO _____
 LOCATION in DEC office INTERVIEWER Eileen Mulligan
 DATE/TIME 1/10/85 - 1/11/85
 SUBJECT: Phase I site information

REMARKS: The above-named interviewees provided us with the following information regarding our Phase I site (see attached list):

- 1) Wetlands in Niagara Co. & proximity to site
- 2) Types of fish & wildlife in Erie/Niagara area
- 3) Use by fish & wildlife of Niagara River & tributaries
- 4) Sensitive environments & proposed wetlands in the Erie/Niagara area

At the Houdaille Industries site in the Village of Akron
- No wetlands or critical habitats within one mile

I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:

SIGNATURE:

James R. Smith - Sr. Wildlife Biologist
Michael A. Wilkins - Conservation Biologist (Aquatic)

COMMENTS:

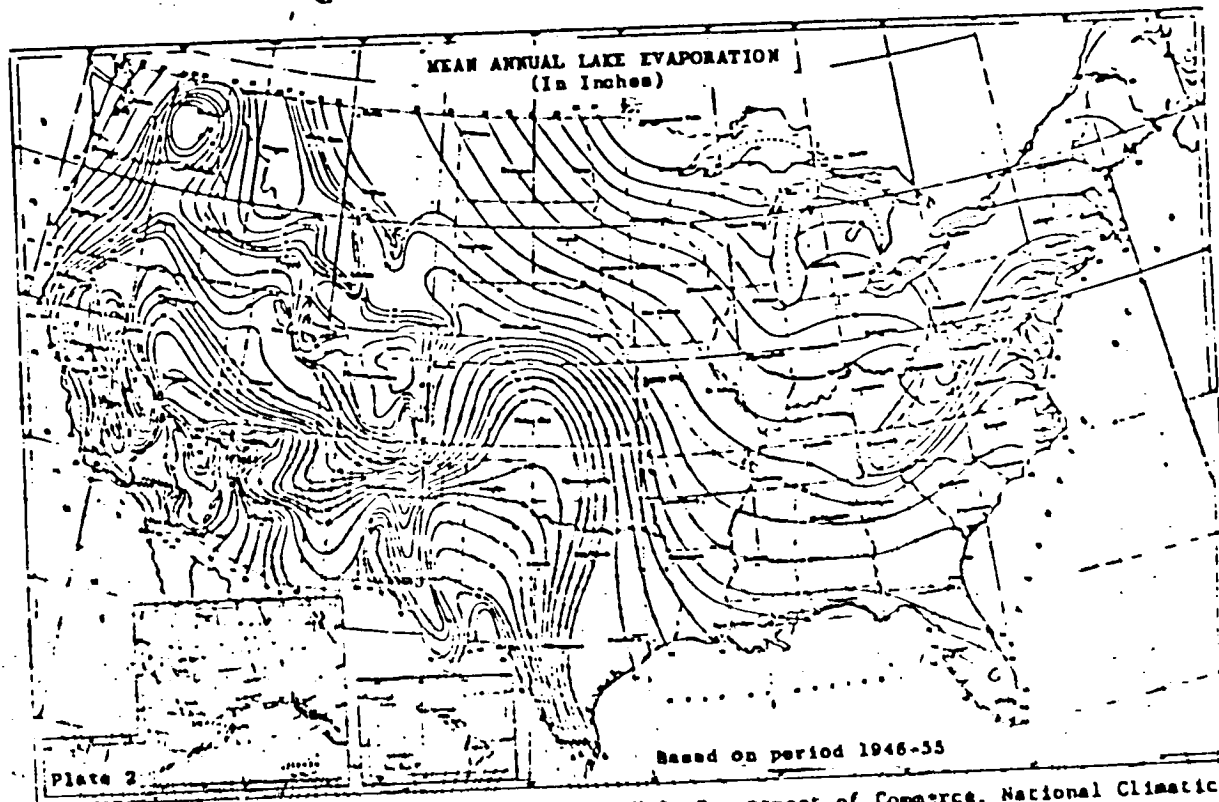
No discussion of wetlands/wildlife regarding
mine landfill site - referral to Eileen Office!

US CENSUS DATA, 1980

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

(USDOC, 1979)

676

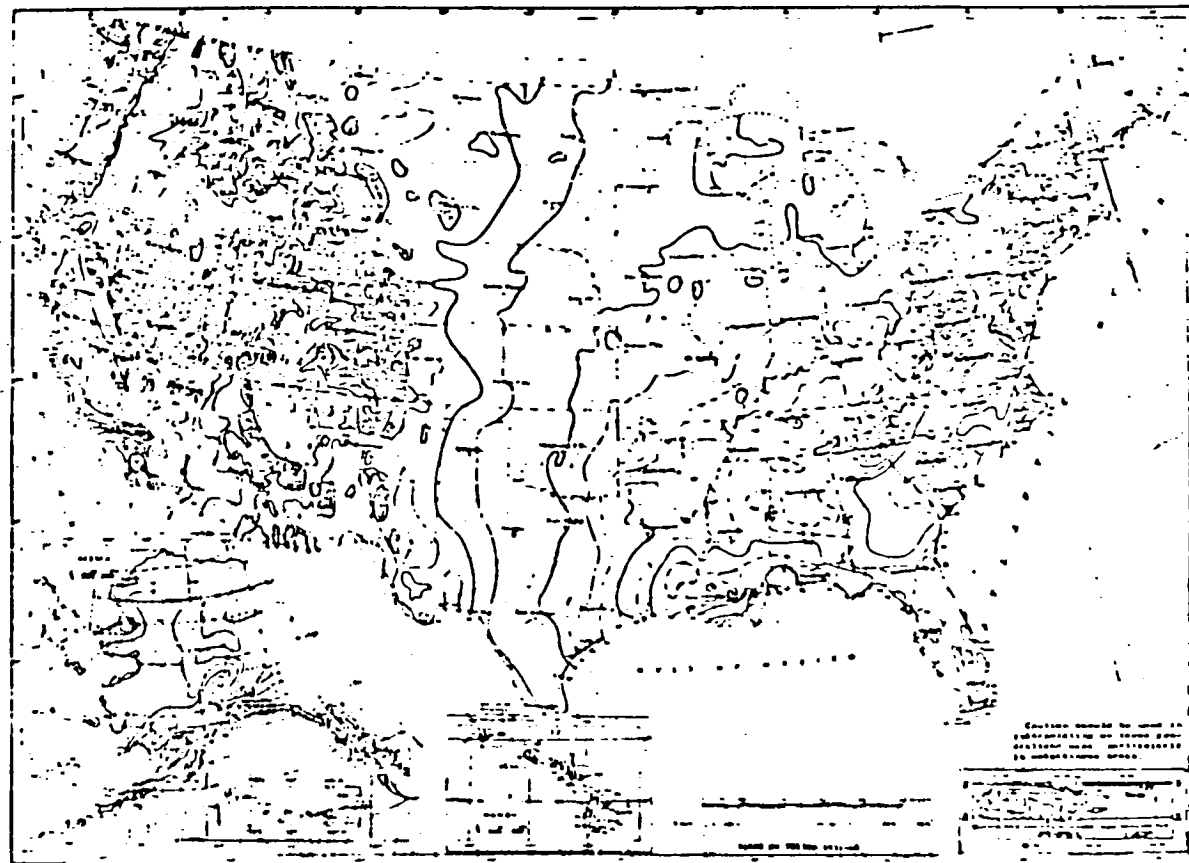


Source: Climatic Atlas of the United States, U.S. Department of Commerce, National Climatic Center, Asheville, N.C., 1979.

Figure 4
Mean Annual Lake Evaporation (In Inches)

(USDOC, 1979)

677

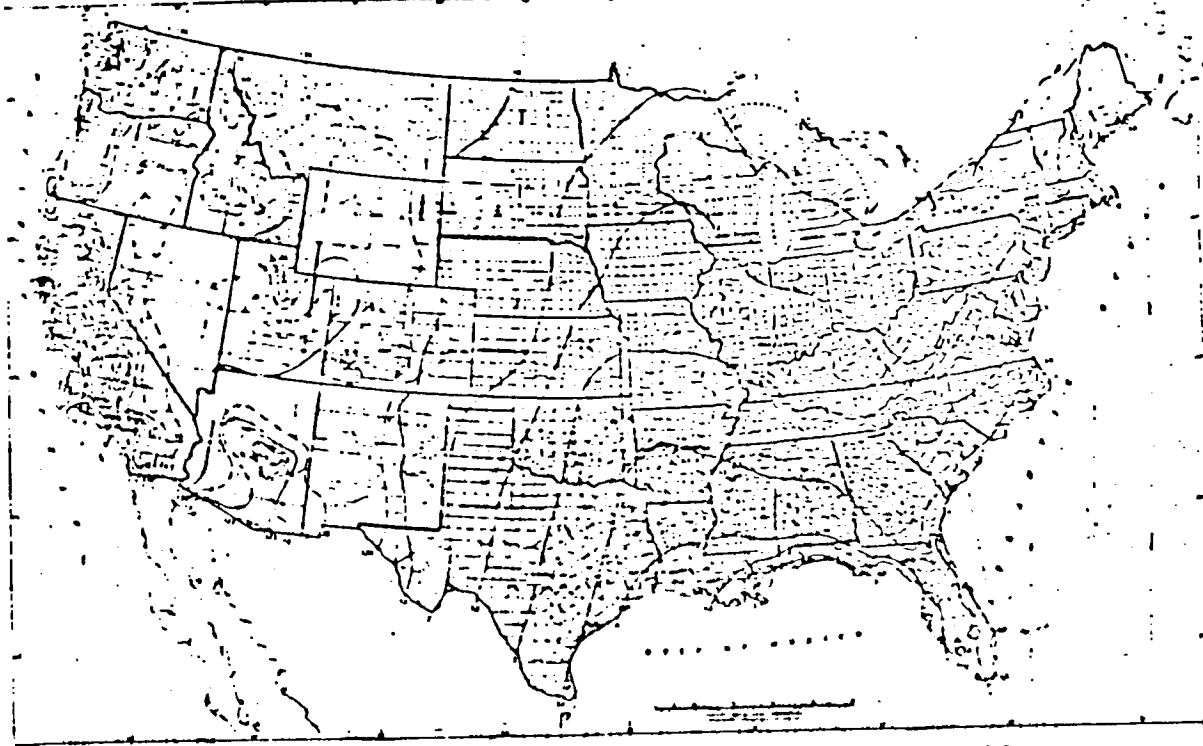


Source: Climatic Atlas of the United States, U.S. Department of Commerce, National Climatic Center, Asheville, N.C., 1979.

Figure 5
Normal Annual Total Precipitation (inches)

(USDOC, 1963)

986



Source: Rainfall Frequency Atlas of the United States, Technical Paper No. 40, U.S. Department of Commerce, U.S. Government Printing Office, Washington, D.C., 1961.

Figure 8

1-Year 24-Hour Rainfall (Inches)

REF-14



POTENTIAL HAZARDOUS WASTE SITE
IDENTIFICATION AND PRELIMINARY ASSESSMENT

REGION 2 SITE NUMBER (to be assigned by HQ)
NY000003570

(USEPA 1980)

REF-15

NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections.

GENERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II (Preliminary Assessment). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-333); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME HOUDAILLES INDUST.		B. STREET (or other Identifier) 12975 CLARENCE CTR. RD.			
C. CITY ARRON	D. STATE NY	E. ZIP CODE 14001	F. COUNTY NAME ERIC		
G. OWNER/OPERATOR (if known) 1. NAME HOUDAILLES INC.					2. TELEPHONE NUMBER
H. TYPE OF OWNERSHIP <input type="checkbox"/> 1. FEDERAL <input type="checkbox"/> 2. STATE <input type="checkbox"/> 3. COUNTY <input type="checkbox"/> 4. MUNICIPAL <input checked="" type="checkbox"/> 5. PRIVATE <input type="checkbox"/> 6. UNKNOWN					
I. SITE DESCRIPTION STRIPPIT DIV. SOLID WASTE DISPOSAL SITE USED 1957 TO 1975 FOR DISPOSAL OF ABOUT 216 DRUMS OF HEAT TREATMENT SLUDGE					
J. HOW IDENTIFIED (i.e., citizen's complaints, OSHA citations, etc.) NYS DEC					K. DATE IDENTIFIED (mo., day, & yr.) 4/15/80
L. PRINCIPAL STATE CONTACT 1. NAME PETER BUECHI					2. TELEPHONE NUMBER 716-882-5826

II. PRELIMINARY ASSESSMENT (complete this section last)

A. APPARENT SERIOUSNESS OF PROBLEM <input type="checkbox"/> 1. HIGH <input type="checkbox"/> 2. MEDIUM <input checked="" type="checkbox"/> 3. LOW <input type="checkbox"/> 4. NONE <input type="checkbox"/> 5. UNKNOWN		
B. RECOMMENDATION <input type="checkbox"/> 1. NO ACTION NEEDED (no hazard) <input type="checkbox"/> 2. IMMEDIATE SITE INSPECTION NEEDED a. TENTATIVELY SCHEDULED FOR: _____ b. WILL BE PERFORMED BY: _____ <input checked="" type="checkbox"/> 3. SITE INSPECTION NEEDED a. TENTATIVELY SCHEDULED FOR: _____ b. WILL BE PERFORMED BY: _____ <input checked="" type="checkbox"/> 4. SITE INSPECTION NEEDED (low priority)		
C. PREPARER INFORMATION 1. NAME KARL MANGELS 2. TELEPHONE NUMBER 264-1573 3. DATE (mo., day, & yr.) 11-16-81		

III. SITE INFORMATION

A. SITE STATUS <input type="checkbox"/> 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.) <input checked="" type="checkbox"/> 2. INACTIVE (Those sites which no longer receive wastes.) <input type="checkbox"/> 3. OTHER (specify): _____ (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)	
B. IS GENERATOR ON SITE? <input type="checkbox"/> 1. NO <input checked="" type="checkbox"/> 2. YES (specify generator's four-digit SIC Code): _____	
C. AREA OF SITE (in acres) UNKNOWN	D. IF APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES 1. LATITUDE (deg.-min.-sec.) 2. LONGITUDE (deg.-min.-sec.)
E. ARE THERE BUILDINGS ON THE SITE? <input type="checkbox"/> 1. NO <input checked="" type="checkbox"/> 2. YES (specify): PLANT	

IV. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

A. TRANSPORTER	B. STORER	C. TREATER	D. DISPOSER
1. RAIL	1. PILE	1. FILTRATION	1. LANDFILL
2. SHIP	2. SURFACE IMPOUNDMENT	2. INCINERATION	2. LANDFARM
3. BARGE	3. DRUMS	3. VOLUME REDUCTION	3. OPEN DUMP
4. TRUCK	4. TANK, ABOVE GROUND	4. RECYCLING/RECOVERY	4. SURFACE IMPOUNDMENT
5. PIPELINE	5. TANK, BELOW GROUND	5. CHEM./PHYS. TREATMENT	5. MIDNIGHT DUMPING
6. OTHER (specify):	6. OTHER (specify):	6. BIOLOGICAL TREATMENT	6. INCINERATION
		7. WASTE OIL REPROCESSING	7. UNDERGROUND INJECTION
		8. SOLVENT RECOVERY	8. OTHER (specify):
		9. OTHER (specify):	

E. SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED

V. WASTE RELATED INFORMATION

A. WASTE TYPE
 1. UNKNOWN 2. LIQUID 3. SOLID 4. SLUDGE 5. GAS

B. WASTE CHARACTERISTICS
 1. UNKNOWN 2. CORROSIVE 3. IGNITABLE 4. RADIOACTIVE 5. HIGHLY VOLATILE
 6. TOXIC 7. REACTIVE 8. INERT 9. FLAMMABLE
 10. OTHER (specify):

C. WASTE CATEGORIES
 1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT 12	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT ?
UNIT OF MEASURE DRUMS	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE
<input checked="" type="checkbox"/> (1) PAINT, PIGMENTS	<input checked="" type="checkbox"/> (1) OILY WASTES	<input checked="" type="checkbox"/> (1) HALOGENATED SOLVENTS	<input checked="" type="checkbox"/> (1) ACIDS	<input checked="" type="checkbox"/> (1) FLYASH	<input checked="" type="checkbox"/> (1) LABORATORY PHARMACEUT.
(2) METALS SLUDGES	(2) OTHER (specify):	(2) NON-HALOGENATED SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL
(3) POTW		(3) OTHER (specify):	(3) CAUSTICS	(3) MILLING/MINE TAILINGS	(3) RADIOACTIVE
(4) ALUMINUM SLUDGE			(4) PESTICIDES	(4) FERROUS SMLTG. WASTES	<input checked="" type="checkbox"/> (4) MUNICIPAL
(5) OTHER (specify): HEAT TREATMENT SLUDGE (~ 216 DRUMS)			(5) DYES/INKS	(5) NON-FERROUS SMLTG. WASTES	(5) OTHER (specify):
PROCESS USED BaCl ₂ Na NO ₃ SALTS			(6) CYANIDE	(6) OTHER (specify):	
			(7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			(10) METALS		
			(11) OTHER (specify):		

V. WASTE RELATED INFORMATION (continued)

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending order of hazard).

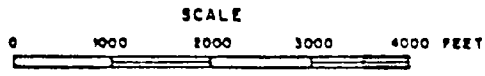
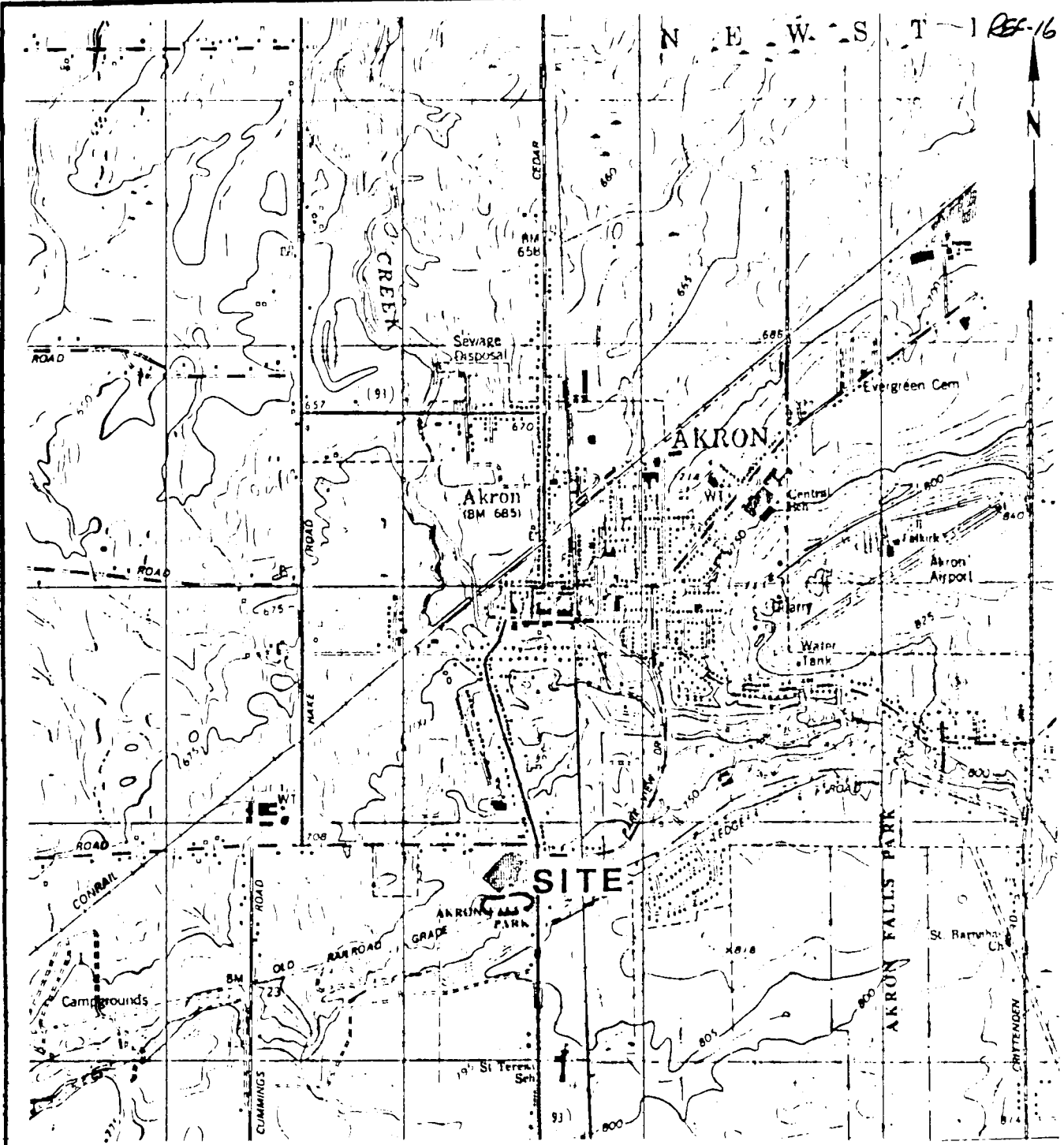
HEAT TREATMENT SLUDGE FROM STRIPPIT DIV
SPENT CARTRIDGES, LEAD AND STEEL FROM BUFFALO ARMS COMPANY FORMER OWNER

4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.

DUMP SITE IS CLOSED AND GRADED

VI. HAZARD DESCRIPTION

A. TYPE OF HAZARD	B. POTENTIAL HAZARD (mark 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (mo., day, yr.)	E. REMARKS
1. NO HAZARD				
2. HUMAN HEALTH				
3. NON-WORKER INJURY/EXPOSURE				
4. WORKER INJURY				
5. CONTAMINATION OF WATER SUPPLY	X			
6. CONTAMINATION OF FOOD CHAIN				
7. CONTAMINATION OF GROUND WATER	X			
8. CONTAMINATION OF SURFACE WATER				
9. DAMAGE TO FLORA/FAUNA				
10. FISH KILL				
11. CONTAMINATION OF AIR				
12. NOTICEABLE ODORS				
13. CONTAMINATION OF SOIL	X			
14. PROPERTY DAMAGE				
15. FIRE OR EXPLOSION	X			
16. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS				
17. SEWER, STORM DRAIN PROBLEMS				
18. EROSION PROBLEMS				
19. INADEQUATE SECURITY				
20. INCOMPATIBLE WASTES				
21. MIDNIGHT DUMPING				
22. OTHER (specify):				



ENGINEERING SCIENCE, INC.
IN ASSOCIATION WITH
DAMES & MOORE

NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION
PHASE I REPORT

SITE LOCATION MAP
HOUDAILLE INDUSTRIES
(STRIPPIT DIV.)

REFERENCE U.S.G.S. 7.5 Topographic Map
with Contour Interval of 20 Feet





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

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 1039115621

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) <i>Houdaille Inv Strippit Averson</i>		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER <i>12975 Clarence Rd</i>			
03 CITY <i>Akron</i>	04 STATE <i>NY</i>	05 ZIP CODE <i>14001</i>	06 COUNTY <i>Erie</i>	07 COUNTY CODE <i>029</i>	08 CONG DIST <i>30</i>
09 COORDINATES LATITUDE		LONGITUDE			

10 DIRECTIONS TO SITE (Starting from nearest public road)

III. RESPONSIBLE PARTIES

01 OWNER (if known) <i>Kenneth Slawson, president</i>		02 STREET (Business, mailing, residential) <i>12975 Clarence Rd</i>			
03 CITY <i>Akron</i>	04 STATE <i>NY</i>	05 ZIP CODE <i>14001</i>	06 TELEPHONE NUMBER <i>(716) 542-4311</i>		
07 OPERATOR (if known and different from owner) <i>Ken Bartha, engineer</i>		08 STREET (Business, mailing, residential) <i>12975 Clarence Rd</i>			
09 CITY <i>Akron</i>	10 STATE <i>NY</i>	11 ZIP CODE <i>14001</i>	12 TELEPHONE NUMBER <i>(716) 542-4511</i>		

13 TYPE OF OWNERSHIP (Check one)

A. PRIVATE B. FEDERAL: _____ (Agency name)

C. STATE D. COUNTY E. MUNICIPAL

F. OTHER: _____ (Specify)

G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

A. RCRA 3001 DATE RECEIVED: _____ MONTH DAY YEAR B. UNCONTROLLED WASTE SITE (RCRA 103) DATE RECEIVED: _____ MONTH DAY YEAR C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

YES DATE 4, 15, 80 MONTH DAY YEAR

NO

BY (Check all that apply)

A. EPA B. EPA CONTRACTOR C. STATE D. OTHER CONTRACTOR

E. LOCAL HEALTH OFFICIAL F. OTHER: _____ (Specify)

CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)

A. ACTIVE B. INACTIVE C. UNKNOWN

03 YEARS OF OPERATION

1956 | 1975 UNKNOWN

BEGINNING YEAR ENDING YEAR

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Solvents and cutting oils were poured onto plant refuse and burned. The resulting ash is disposed of onsite. Heat treatment sludge was placed directly on the ground and in drums. Halogenated organics and heavy metals were found in soil adjacent to the fill.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

In 1979 the fill was covered with approximately 5' of clean fill, however there is a potential for water supply, ground water, and soil contamination. The site is located in a rural area.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste information and Part 3 - Description of Hazardous Conditions and Incidents)

A. HIGH (Inspection required promptly) B. MEDIUM (Inspection required) C. LOW (Inspect on time available basis) D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT <i>John A. Botts</i>		02 OF (Agency, Organization) <i>Engineering - Science</i>		03 TELEPHONE NUMBER <i>1703 1591-7575</i>
04 PERSON RESPONSIBLE FOR ASSESSMENT <i>John A. Botts</i>		05 AGENCY	06 ORGANIZATION <i>- same -</i>	07 TELEPHONE NUMBER <i>()</i>
				08 DATE <u>4, 8, 80</u> MONTH DAY YEAR



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 10 039115621

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

<p>01 PHYSICAL STATES (Check all that apply)</p> <input checked="" type="checkbox"/> A. SOLID <input type="checkbox"/> B. POWDER, FINES <input type="checkbox"/> C. SLUDGE <input type="checkbox"/> D. OTHER _____ (Specify)	<p>02 WASTE QUANTITY AT SITE (Measure of waste quantities must be independent)</p> <p>TONS <u>10,200</u></p> <p>CUBIC YARDS _____</p> <p>NO. OF DRUMS _____</p>	<p>03 WASTE CHARACTERISTICS (Check all that apply)</p> <input checked="" type="checkbox"/> A. TOXIC <input type="checkbox"/> B. CORROSIVE <input type="checkbox"/> C. RADIOACTIVE <input checked="" type="checkbox"/> D. PERSISTENT <input type="checkbox"/> E. SOLUBLE <input type="checkbox"/> F. INFECTIOUS <input type="checkbox"/> G. FLAMMABLE <input type="checkbox"/> H. IGNITABLE <input type="checkbox"/> I. HIGHLY VOLATILE <input type="checkbox"/> J. EXPLOSIVE <input type="checkbox"/> K. REACTIVE <input type="checkbox"/> L. INCOMPATIBLE <input type="checkbox"/> M. NOT APPLICABLE
---	---	---

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	157	tons	heat treatment sludge
OLW	* OILY WASTE	380,000	gal.	water soluble cutting oils, coolants and solvents
SOL	* SOLVENTS			
PSD	PESTICIDES			
OCC	* OTHER ORGANIC CHEMICALS	26	mg/g	halogenated organics in soil
IOC	INORGANIC CHEMICALS			- also 8550 cubic yards of refuse
ACD	ACIDS			
BAS	BASES			
MES	** HEAVY METALS	500	mg/g	arsenic, lead, zinc, chromium adjacent to land fill

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

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	08 MEASURE OF CONCENTRATION
OLW	water soluble cutting oils and coolants		earthen cover	unknown	
SOL	trichloroethylene	79-01-6	unknown	unknown	
OCC	halogenated organics		unknown	26	mg/g
MES	arsenic	7440-38-2	unknown	190	mg/g
MES	lead	7439-92-1	unknown	100	mg/g
MES	zinc	7440-66-6	unknown	500	mg/g
MES	chromium	7440-47-3	unknown	20	mg/g
OCC	francis	108-95-2	unknown	unknown	

* Solvents and oil-based oils were poured onto plant - generated refuse and burned. Most of the oils and solvents were probably destroyed. The ash from the burning was disposed of onsite. In 1979 the area was covered with clean fill.

** Metals and halogenated organics were found in sample collected adjacent to the site - not within the disposal area.

V. FEEDSTOCKS (See Appendix for CAS Numbers)

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

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

- Intragency TASK Force on Hazardous Activities, 1982
- Site Inspection conducted by Ed Smith, 3/27/85



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

L IDENTIFICATION
 01 STATE 02 SITE NUMBER
 NY 0039115621

II. HAZARDOUS CONDITIONS AND INCIDENTS

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

unknown

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

Potential from runoff from landfill

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

No

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

No

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

No

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

Due to migration of contaminants into groundwater

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

No

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

Unknown

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

Unknown



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

I. IDENTIFICATION
 01 STATE NY 02 SITE NUMBER D037115621

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 <input checked="" type="checkbox"/> J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input checked="" type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
<i>unknown</i>			
01 <input checked="" type="checkbox"/> K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (include names of species)	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input checked="" type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
<i>Unknown</i>			
01 <input checked="" type="checkbox"/> L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input checked="" type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
<i>Unknown</i>			
01 <input checked="" type="checkbox"/> M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing Pools, Leaking drums) 03 POPULATION POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input checked="" type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
04 NARRATIVE DESCRIPTION: <i>unknown</i>			
01 <input type="checkbox"/> N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
<i>No</i>			
01 <input type="checkbox"/> O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
<i>No</i>			
01 <input type="checkbox"/> P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
<i>No</i>			
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS			
<i>No</i>			

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

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

Site visit 1985





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

I. IDENTIFICATION	
01 STATE NY	02 SITE NUMBER 1039115621

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Houdaille Ind. Stripit Division		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 12975 Clarence Road			
03 CITY AKRON		04 STATE NY	05 ZIP CODE 14001	06 COUNTY ERIE	
09 COORDINATES LATITUDE _____ LONGITUDE _____		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER _____ <input type="checkbox"/> G. UNKNOWN			

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 3 27 85 MONTH DAY YEAR	02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	03 YEARS OF OPERATION 1956 1975 BEGINNING YEAR ENDING YEAR	UNKNOWN
04 AGENCY PERFORMING INSPECTION (Check all that apply)			
<input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR Engineering - Science <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR _____ <input type="checkbox"/> E. STATE <input checked="" type="checkbox"/> F. STATE CONTRACTOR State of New York <input type="checkbox"/> G. OTHER _____			

05 CHIEF INSPECTOR S. Robert STEELE II	06 TITLE Environmental Scientist	07 ORGANIZATION ES	08 TELEPHONE NO. (703) 591-2525
09 OTHER INSPECTORS Felicia Colligan	10 TITLE Biologist	11 ORGANIZATION OSM	12 TELEPHONE NO. (516) 632-7002
			()
			()
			()
			()

13 SITE REPRESENTATIVES INTERVIEWED Mr. Ron Cartha	14 TITLE Engineer	15 ADDRESS 12975 Clarence Center Rd. Akron, NY 14001	16 TELEPHONE NO. (716) 542-4511
			()
			()
			()
			()
			()

17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION 9:30 AM	19 WEATHER CONDITIONS Clear
--	---	---------------------------------------

IV. INFORMATION AVAILABLE FROM

01 CONTACT S. Robert STEELE II	02 OF (Agency/Organization) Engineering - Science (ES)	03 TELEPHONE NO. (703) 591-2525
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM S. Robert STEELE II	05 AGENCY ES	06 ORGANIZATION ES
07 TELEPHONE NO. Same	08 DATE 3 27 85 MONTH DAY YEAR	



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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D 039115621

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)	02 WASTE QUANTITY AT SITE (Measure of waste quantities must be independent)	03 WASTE CHARACTERISTICS (Check all that apply)
<input checked="" type="checkbox"/> A. SOLID <input type="checkbox"/> B. POWDER, FINES <input checked="" type="checkbox"/> C. SLUDGE <input type="checkbox"/> D. OTHER _____ (Specify)	<input checked="" type="checkbox"/> E. SLURRY <input checked="" type="checkbox"/> F. LIQUID <input type="checkbox"/> G. GAS TONS <u>10,200</u> CUBIC YARDS _____ NO. OF DRUMS _____	<input checked="" type="checkbox"/> A. TOXIC <input type="checkbox"/> B. CORROSIVE <input type="checkbox"/> C. RADIOACTIVE <input checked="" type="checkbox"/> D. PERSISTENT <input type="checkbox"/> E. SOLUBLE <input type="checkbox"/> F. INFECTIOUS <input type="checkbox"/> G. FLAMMABLE <input type="checkbox"/> H. IGNITABLE <input type="checkbox"/> I. HIGHLY VOLATILE <input type="checkbox"/> J. EXPLOSIVE <input type="checkbox"/> K. REACTIVE <input type="checkbox"/> L. INCOMPATIBLE <input type="checkbox"/> M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	157	tons	heat treatment sludge
OLW	* OILY WASTE	38,000	gal.	water soluble cutting oils,
SOL	* SOLVENTS			coolants and solvents
PSD	PESTICIDES			
OCC	** OTHER ORGANIC CHEMICALS	26	mg/g	halogenated organics in soil
IOC	INORGANIC CHEMICALS			- also 8550 cubic yards
ACD	ACIDS			of refuse
BAS	BASES			
MES	** HEAVY METALS	500	mg/g	arsenic, lead, zinc, chromium

IV. HAZARDOUS SUBSTANCES (See Appendix for waste frequency codes CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	water soluble cutting oils and coolants		earthen cover	unknown	
SOL	trichloroethylene	79-01-6	unknown	unknown	
OCC	halogenated organics		unknown	2%	mg/g
MES	arsenic	7440-38-2	unknown	190	mg/g
MES	lead	7439-92-1	unknown	100	mg/g
MES	zinc	7440-66-6	unknown	3.00	mg/g
MES	chromium	7440-47-3	unknown	20	mg/g
OCC	phenols	108-95-2	unknown	unknown	

* Solvents and oil-based oils were poured onto plant-generated refuse and burned. Most of the oils and solvents were probably destroyed. The ash from this burning was disposed of onsite. In 1979 the area was covered with cement.

** metals and halogenated organics were found in sample collected adjacent to the site - not within the disposal area.

V. FEEDSTOCKS (See Appendix for CAS Numbers)

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

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

1. Intra-agency TASK Force on Hazardous Waste 1982

2. Site Inspection conducted by EPA, March 1982



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

L IDENTIFICATION
 01 STATE NY 02 SITE NUMBER 0039115621

II. HAZARDOUS CONDITIONS AND INCIDENTS

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

01 B. SURFACE WATER CONTAMINATION 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
 03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
Potential from runoff from landfill

01 C. CONTAMINATION OF AIR 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
 03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
No

01 D. FIRE/EXPLOSIVE CONDITIONS 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
 03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
No

01 E. DIRECT CONTACT 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
 03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
No

01 F. CONTAMINATION OF SOIL 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
 03 AREA POTENTIALLY AFFECTED: _____ (Acres) 04 NARRATIVE DESCRIPTION
Due to migration of contaminated local groundwater

01 G. DRINKING WATER CONTAMINATION 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
 03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
No

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

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



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

L IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 0039115621

II. HAZARDOUS CONDITIONS AND INCIDENTS <i>(Continued)</i>			
01 <input checked="" type="checkbox"/> J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input checked="" type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
<i>unknown</i>			
01 <input checked="" type="checkbox"/> K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION <i>(include name(s) of species)</i>	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input checked="" type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
<i>Unknown</i>			
01 <input checked="" type="checkbox"/> L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input checked="" type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
<i>Unknown</i>			
01 <input checked="" type="checkbox"/> M. UNSTABLE CONTAINMENT OF WASTES <i>(Spills/Runs/Leaking Drums, Leaking drums)</i> 03 POPULATION POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input checked="" type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
<i>unknown 1 person</i>			
01 <input type="checkbox"/> N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
<i>No</i>			
01 <input type="checkbox"/> O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
<i>No</i>			
01 <input type="checkbox"/> P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
<i>No</i>			
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS			
<i>No</i>			
III. TOTAL POPULATION POTENTIALLY AFFECTED: _____			
IV. COMMENTS			
V. SOURCES OF INFORMATION <i>(Cite specific references, e. g., state files, sample analysis, reports)</i>			
<i>Site visit 1985</i>			



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

I. IDENTIFICATION
01 STATE NY 02 SITE NUMBER 0029115621

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPOES				
<input type="checkbox"/> B. UIC				
<input checked="" type="checkbox"/> C. AIR				application for plant, 1982
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT	_____	_____	<input type="checkbox"/> A. INCINERATION	<input type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES	_____	_____	<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND	_____	_____	<input type="checkbox"/> C. CHEMICAL/PHYSICAL	06 AREA OF SITE 2 (Acres)
<input type="checkbox"/> D. TANK, ABOVE GROUND	_____	_____	<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND	_____	_____	<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input checked="" type="checkbox"/> F. LANDFILL	_____	_____	<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM	_____	_____	<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP	_____	_____	<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I. OTHER (Specify)	_____	_____		

07 COMMENTS

The disposal area was used to dispose of plant material and from the burning of combustible materials. Water-based coolants and cutting oils were also disposed on-site. The entire area was covered with clean fill in 1979.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

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

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

Ash from the burning of solvents and cutting oils, coolants, and heat treatment sludge were disposed of directly on the ground. In 1979 the site was covered with clean fill. There are reports of storing heat treatment sludge in drums on the site.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: YES NO

02 COMMENTS Disposal site is enclosed by a fence and the materials disposed were covered with clean excavated fill.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. 2200 files, sample analyses, records)

1. Emergency Task Force on Hazardous Waste, 1982
2. Site inspection conducted by R3 and R4M, 5/27/85



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

I. IDENTIFICATION
01 STATE: NY 02 SITE NUMBER: 039115621

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)		02 STATUS			03 DISTANCE TO SITE	
COMMUNITY	<input checked="" type="checkbox"/> SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED	A. <u>21</u> (mi)
NON-COMMUNITY	<input type="checkbox"/> C.	<input type="checkbox"/> D.	<input type="checkbox"/> A.	<input type="checkbox"/> B.	<input type="checkbox"/> F.	B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

A. ONLY SOURCE FOR DRINKING B. DRINKING (Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)

C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER: 500+ 03 DISTANCE TO NEAREST DRINKING WATER WELL: unknown (mi)

04 DEPTH TO GROUNDWATER <u>≤ 2</u> (ft)	05 DIRECTION OF GROUNDWATER FLOW <u>unknown</u>	06 DEPTH TO AQUIFER OF CONCERN <u>~ 35'</u> (ft)	07 POTENTIAL YIELD OF AQUIFER <u>unknown</u> (gpd)	08 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input type="checkbox"/> NO
--	--	---	---	--

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

No on-site wells.
1 water supply well for Quarry Hill Estates - 400 people, 0.5 miles Southeast
Several private wells.

10 RECHARGE AREA <input type="checkbox"/> YES <input type="checkbox"/> NO COMMENTS: <u>unknown</u>	11 DISCHARGE AREA <input type="checkbox"/> YES <input type="checkbox"/> NO COMMENTS: <u>Unknown</u>
--	---

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

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

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
<u>Murder Creek</u>	<input type="checkbox"/>	<u>0.8</u> (mi)
_____	<input type="checkbox"/>	_____ (mi)
_____	<input type="checkbox"/>	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE A. <u>12,868</u> NO. OF PERSONS	TWO (2) MILES OF SITE B. <u>69,083</u> NO. OF PERSONS	THREE (3) MILES OF SITE C. <u>155,332</u> NO. OF PERSONS	02 DISTANCE TO NEAREST POPULATION <u>0.1</u> (mi)
--	---	--	--

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE: 18,180

04 DISTANCE TO NEAREST OFF-SITE BUILDING: 0.1 (mi)

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

Site is on edge of small rural village. East of site is closely spaced older village homes, West of site is rural/village homes farms



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

I. IDENTIFICATION
01 STATE: NY 02 SITE NUMBER: 3039113621

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)
 A. $10^{-6} - 10^{-5}$ cm/sec
 B. $10^{-4} - 10^{-5}$ cm/sec
 C. $10^{-4} - 10^{-3}$ cm/sec
 D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)
 A. IMPERMEABLE (Less than 10^{-6} cm/sec)
 B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec)
 C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec)
 D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK: ~ 35 (ft)
 04 DEPTH OF CONTAMINATED SOIL ZONE: unknown (ft)
 05 SOIL pH: unknown

06 NET PRECIPITATION: 5 (in)
 07 ONE YEAR 24 HOUR RAINFALL: 2.1 (in)
 08 SLOPE: SITE SLOPE: ~~2.0~~ 2.0 % | DIRECTION OF SITE SLOPE: NE | TERRAIN AVERAGE SLOPE: 3.1 %

09 FLOOD POTENTIAL
 SITE IS IN 7100 YEAR FLOODPLAIN
 SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)
 ESTUARINE: > 2 (mi)
 OTHER: 1 (mi)
 12 DISTANCE TO CRITICAL HABITAT (of endangered species)
Migratory Birds > 1 (mi)
 ENDANGERED SPECIES: Aquila Chrysaetos
Halieetus leucocceph
Falco peregrinus

13 LAND USE IN VICINITY
 DISTANCE TO:
 COMMERCIAL/INDUSTRIAL: 0.2 (mi)
 RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES: 0.1 (mi)
 AGRICULTURAL LANDS: PRIME AG LAND: unknown (mi) | AG LAND: 0.1 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY
 Original ground surface was level with surrounding area and sloped gently to the north. Since filling, the depressed site is ~ 10' higher than surrounding areas.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
Site visit 1985 NYS Wetlands Map.
USGS maps
D&C files



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

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 10 039115431

II. SAMPLES TAKEN

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

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HNU	HNU meter readings were taken during the site inspection and all measurements were less than 2 ppm.

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>Engineering - Science</u> <small>(Name of organization or individual)</small>
03 MAPS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	04 LOCATION OF MAPS <u>Site map was updated during site inspection.</u>

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

Several rusty drums, partially exposed, were observed along the outer edges of the landfill area. The drums were presumed to be leaking, because of their condition.

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

Site inspection conducted by ES and DEM, 3/27/85



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

IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 0039115621

II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME Hondaille Street Division	02 D+B NUMBER	03 NAME Hondaille Industries	04 D+B NUMBER	05 NAME	06 D+B NUMBER	07 NAME	08 D+B NUMBER
09 STREET ADDRESS (P.O. Box, RFD #, etc.) 12975 Clarence Road	10 SIC CODE	11 STREET ADDRESS (P.O. Box, RFD #, etc.)	12 SIC CODE	13 CITY	14 STATE	15 ZIP CODE	16 ZIP CODE
17 CITY Akron	18 STATE NY	19 ZIP CODE 14001	20 CITY	21 STATE	22 ZIP CODE	23 STATE	24 ZIP CODE
01 NAME	02 D+B NUMBER	03 NAME	04 D+B NUMBER	05 NAME	06 D+B NUMBER	07 NAME	08 D+B NUMBER
09 STREET ADDRESS (P.O. Box, RFD #, etc.)	10 SIC CODE	11 STREET ADDRESS (P.O. Box, RFD #, etc.)	12 SIC CODE	13 CITY	14 STATE	15 ZIP CODE	16 ZIP CODE
17 CITY	18 STATE	19 ZIP CODE	20 CITY	21 STATE	22 ZIP CODE	23 STATE	24 ZIP CODE
01 NAME	02 D+B NUMBER	03 NAME	04 D+B NUMBER	05 NAME	06 D+B NUMBER	07 NAME	08 D+B NUMBER
09 STREET ADDRESS (P.O. Box, RFD #, etc.)	10 SIC CODE	11 STREET ADDRESS (P.O. Box, RFD #, etc.)	12 SIC CODE	13 CITY	14 STATE	15 ZIP CODE	16 ZIP CODE
17 CITY	18 STATE	19 ZIP CODE	20 CITY	21 STATE	22 ZIP CODE	23 STATE	24 ZIP CODE
01 NAME	02 D+B NUMBER	03 NAME	04 D+B NUMBER	05 NAME	06 D+B NUMBER	07 NAME	08 D+B NUMBER
09 STREET ADDRESS (P.O. Box, RFD #, etc.)	10 SIC CODE	11 STREET ADDRESS (P.O. Box, RFD #, etc.)	12 SIC CODE	13 CITY	14 STATE	15 ZIP CODE	16 ZIP CODE
17 CITY	18 STATE	19 ZIP CODE	20 CITY	21 STATE	22 ZIP CODE	23 STATE	24 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)				IV. REALTY OWNER(S) (if applicable: list most recent first)			
01 NAME	02 D+B NUMBER	03 NAME	04 D+B NUMBER	05 NAME	06 D+B NUMBER	07 NAME	08 D+B NUMBER
09 STREET ADDRESS (P.O. Box, RFD #, etc.)	10 SIC CODE	11 STREET ADDRESS (P.O. Box, RFD #, etc.)	12 SIC CODE	13 CITY	14 STATE	15 ZIP CODE	16 ZIP CODE
17 CITY	18 STATE	19 ZIP CODE	20 CITY	21 STATE	22 ZIP CODE	23 STATE	24 ZIP CODE
01 NAME Buffalo Arms	02 D+B NUMBER	03 NAME	04 D+B NUMBER	05 NAME	06 D+B NUMBER	07 NAME	08 D+B NUMBER
09 STREET ADDRESS (P.O. Box, RFD #, etc.) 12975 Clarence Rd	10 SIC CODE	11 STREET ADDRESS (P.O. Box, RFD #, etc.)	12 SIC CODE	13 CITY	14 STATE	15 ZIP CODE	16 ZIP CODE
17 CITY Akron	18 STATE NY	19 ZIP CODE 14001	20 CITY	21 STATE	22 ZIP CODE	23 STATE	24 ZIP CODE
01 NAME	02 D+B NUMBER	03 NAME	04 D+B NUMBER	05 NAME	06 D+B NUMBER	07 NAME	08 D+B NUMBER
09 STREET ADDRESS (P.O. Box, RFD #, etc.)	10 SIC CODE	11 STREET ADDRESS (P.O. Box, RFD #, etc.)	12 SIC CODE	13 CITY	14 STATE	15 ZIP CODE	16 ZIP CODE
17 CITY	18 STATE	19 ZIP CODE	20 CITY	21 STATE	22 ZIP CODE	23 STATE	24 ZIP CODE

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

Site Inspection conducted by ES and D&M, 3/27/85
Interagency TASK Force on Hazardous waste Survey, 1978



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

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER
NY | 0039115621

II. CURRENT OPERATOR <small>(Provide if different from owner)</small>				OPERATOR'S PARENT COMPANY <small>(if applicable)</small>			
01 NAME <i>Houdaille Stripart Division</i>		02 D+B NUMBER		10 NAME <i>Houdaille Industries, Inc</i>		11 D+B NUMBER	
03 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small> <i>12975 Clarence Road</i>			04 SIC CODE	12 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>			13 SIC CODE
05 CITY <i>AKRON</i>		06 STATE <i>NY</i>	07 ZIP CODE <i>14901</i>	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION <i>1956-present</i>		09 NAME OF OWNER <i>SAME</i>					
III. PREVIOUS OPERATOR(S) <small>(List most recent first; provide only if different from owner)</small>				PREVIOUS OPERATORS' PARENT COMPANIES <small>(if applicable)</small>			
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>			04 SIC CODE	12 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>			04 SIC CODE	12 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>			04 SIC CODE	12 STREET ADDRESS <small>(P.O. Box, RFD #, etc.)</small>			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, company records, etc.)

*Inter-agency Task Force on Hazardous Wastes Survey, 1978
Interview of Ken Bantha, Houdaille Stripart.*



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

I IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 1039115521

II. ON-SITE GENERATOR

01 NAME Howdville Strippit Division	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 12975 Clarence Rd	04 SIC CODE
05 CITY Akron	06 STATE 07 ZIP CODE OH 14001

III. OFF-SITE GENERATOR(S)

01 NAME not applicable	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME not applicable	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

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

ES/DE/M Site inspection, 3/27/85



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

L IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 0039115621

II. PAST RESPONSE ACTIVITIES

01 <input type="checkbox"/>	02 DATE	03 AGENCY
A. WATER SUPPLY CLOSED 04 DESCRIPTION <i>No</i>		
B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION <i>No</i>		
C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION <i>No</i>		
D. SPILLED MATERIAL REMOVED 04 DESCRIPTION <i>No</i>		
E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION <i>No</i>		
F. WASTE REPACKAGED 04 DESCRIPTION <i>No</i>		
G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION <i>No</i>		
H. ON SITE BURIAL 04 DESCRIPTION <i>No</i>		
I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION <i>No</i>		
J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION <i>No</i>		
K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION <i>No</i>		
L. ENCAPSULATION 04 DESCRIPTION <i>No</i>		
M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION <i>No</i>		
N. CUTOFF WALLS 04 DESCRIPTION <i>No</i>		
O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION <i>No</i>		
P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION <i>No</i>		
Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION <i>No</i>		



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY 0039115621

II. PAST RESPONSE ACTIVITIES (Continued)

01 R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 S. CAPPING/COVERING
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 V. BOTTOM SEALED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 W. GAS CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 X. FIRE CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 Z. AREA EVACUATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

Yes - Site is fenced

01 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

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

Site visit 1985



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

I. IDENTIFICATION

01 STATE NY 02 SITE NUMBER 039115621

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION YES NO

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

In April 1980 the EPA investigated the disposal of heat treatment sludge onsite. The investigator found 12 drums of the sludge waste, which is used in metal working processes and contains barium chloride and sodium and nitrate salts. An additional 216 drums were estimated to be onsite. An assessment of hazards found potential for contamination of the water supply, ground water and soil.

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

EPA Hazardous Waste Site Assessment, 4/15/80



SECTION VI

ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

ASSESSMENT OF DATA ADEQUACY

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

PHASE II WORK PLAN

Objectives

The objectives of the proposed Phase II activities are:

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

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

Geophysical Survey - A geophysical study consisting of an electrical resistivity survey is recommended. The electrical resistivity survey will be performed at various locations within and beyond the perimeter of the site to investigate site stratigraphy, delineate significant discontinuities and assess the presence and location of contaminant plumes.

Groundwater - A groundwater monitoring system consisting of 3 wells is recommended. Borings will be drilled to a maximum depth of 40 feet; soil samples will be taken every 5 feet or more frequently if a change in soil lithology is encountered. The wells will be placed in the aquifer of concern and constructed of 2" PVC pipe. The groundwater samples will be analyzed for priority pollutants. In addition, sieve and hydrometer analyses will be performed on representative samples of the subsurface soils. Finally, an in-situ permeability test will be performed on each well.

Surface Water and Sediment - A surface water and sediment monitoring system consisting of 2 monitoring stations is recommended. One station (S-1) will be upgradient of the site in the unnamed stream located adjacent to the site, and 1 station (S-2) will be downgradient. The surface water and sediment samples will be analyzed for priority pollutants.

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

TASK DESCRIPTION

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

COST ESTIMATE

The estimated man-hours required for the Phase II project are presented in Table VI-3 and the estimated project costs by tasks are presented in Table VI-4. The estimated total cost for this project is \$49,606.

TABLE VI-1
ASSESSMENT OF DATA ADEQUACY

HRS Data Requirement	Comments on Data
Observed Release	
Groundwater	Inadequate data to score an observed release
Surface Water	Adequate data to score an observed release
Air	No observed release, adequate for HRS score
Route Characteristics	
Groundwater	Adequate data for HRS score
Surface Water	Adequate data for HRS score
Air	Not applicable, no observed release
Containment	Adequate data for HRS score
Waste Characteristics	Adequate date for HRS score
Targets	Adequate data for HRS score
Observed Incident	Adequate data for HRS score
Accessibility	Adequate data for HRS score

TABLE VI-2
PHASE II WORK PLAN - TASK DESCRIPTION

Tasks	Description of Task
II-A Update Work Plan	Review the information in the Phase I report, conduct a site visit, and revise the Phase II work plan.
II-B Conduct Geophysical Studies	Conduct a resistivity survey.
II-C Conduct Boring/Install Monitoring Wells	Install 1 upgradient and 2 down-gradient wells. The borings will be drilled to a depth of approximately 40 feet. Wells will be constructed of 2" PVC pipe.
II-D Construct Test Pits/Auger Holes	No further construction of test pits/auger holes necessary.
II-E Perform Sampling & Analysis	
Soil samples from borings	Soil samples collected at 5 ft. intervals during drilling and at changes in subsurface lithologies. Perform one grain size analysis and permeability test per subsurface lithology change.
Soil samples from surface soils	No further studies necessary.
Soil samples from auger holes/test pits	No further studies necessary.
Sediment samples from surface water	2 sediment samples are to be collected and analyzed for priority pollutants.
Groundwater samples	3 groundwater samples are to be collected and analyzed for priority pollutants.
Surface water samples	2 surface water samples are to be collected and analyzed for priority pollutants.

TABLE VI-2 (Continued)
PHASE II WORK PLAN - TASK DESCRIPTION

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

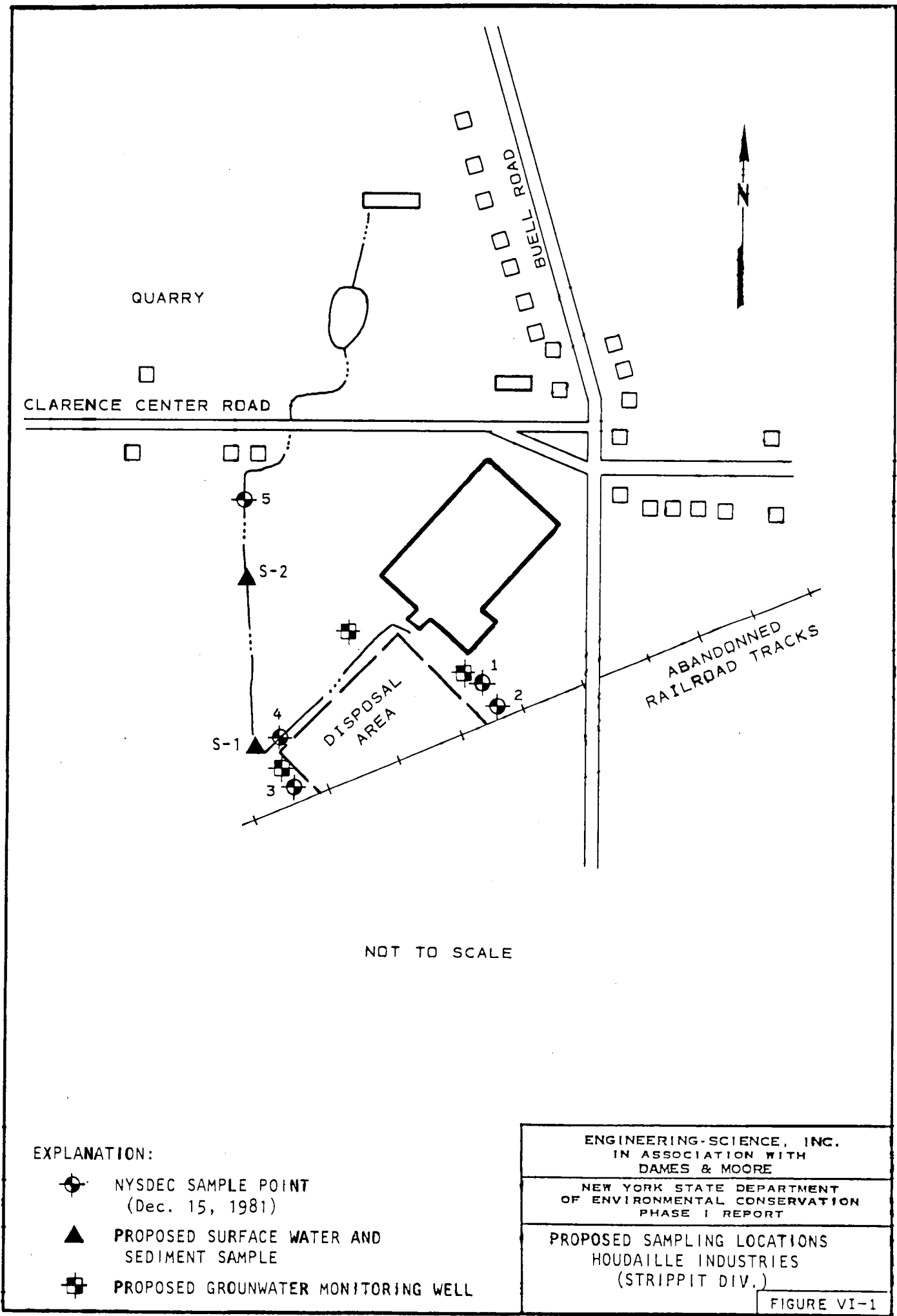
TABLE VI-3
PERSONNEL RESOURCES BY TASK
PHASE II HRS SITE INVESTIGATION (SITE: HOUDEILLE)

TASK DESCRIPTION	TEAM MEMBERS, MINHOURS												SS	TOTAL HOURS	TOTAL \$
	PIC	TSD	PM	OPM	PCN	OPN	HGN	FTL	FT	RAAL	RAAT				
II-A UPDATE WORK PLAN	1	1	8	4		4	4	16		8			28	74	1144.1
II-B CONDUCT GEOPHYSICAL STUDIES			4	1			4	8	120				40	177	1761.23
II-C CONDUCT BORING/INSTALL MONITORING WELLS			8	16		4	4	10	40				24	106	1519.48
II-D CONSTRUCT TEST PITS/AUGER HOLES														0	0
II-E PERFORM SAMPLING AND ANALYSIS															
SOIL SAMPLES FROM BORINGS			4	4		2	2	4	16				8	48	553.14
SOIL SAMPLES FROM SURFACE SOILS														0	0
SOIL SAMPLES FROM TEST PITS AND AUGER HOLES														0	0
SEDIMENT SAMPLES FROM SURFACE WATER			1	1		1	1	1	4				4	13	166.6
GROUND-WATER SAMPLES			4	4		1	1	10	48				16	84	1088.07
SURFACE WATER SAMPLES			1	1		1	1	1	4				4	13	166.6
AIR SAMPLES			1	1			1	1	4				4	12	153.68
WASTE SAMPLES														0	0
II-F CALCULATE FINAL HRS			4	4				4	4	2			4	22	394.56
II-G CONDUCT SITE ASSESSMENT	2	2	8	2				24	32	12	40		50	172	2217.02
II-H PROJECT MANAGEMENT	2		6	2	3	4	4						12	33	529.88
TOTALS	5	3	49	40	3	17	22	79	272	22	40	194	746	9618.36	

TABLE VI-4
 COST ESTIMATE BREAKDOWN BY TASK
 PHASE II HRS BITE INVESTIGATION (SITE: HOUDAILLE)




TASK DESCRIPTION	OTHER DIRECT COSTS (ODC), \$								SUBTOTAL ODC	TOTAL (\$)
	DIRECT LABOR HOURS	DIRECT LABOR COST	LAB ANALYSIS	TRAVEL AND SUBSISTANCE	SUPPLIES	EQUIP. CHARGES	SUBCON- TRACTORS	MISC.		
II-A UPDATE WORK PLAN	74	\$1,144.10		\$200.00	\$50.00	\$50.00		\$50.00	\$350.00	\$1,494.10
II-B CONDUCT GEOPHYSICAL STUDIES	177	\$1,761.23		\$1,500.00	\$50.00	\$25.00		\$25.00	\$1,500.00	\$3,261.23
II-C CONDUCT BORING/INSTALL MONITORING WELLS	106	\$1,519.48		\$350.00	\$250.00	\$300.00	\$6,420.00		\$7,920.00	\$9,439.48
II-D CONSTRUCT TEST PITS/AUGER HOLES	0	\$0.00							\$0.00	\$0.00
II-E PERFORM SAMPLING AND ANALYSIS										
SOIL SAMPLES FROM BORINGS	40	\$555.14			\$100.00	\$100.00			\$200.00	\$755.14
SOIL SAMPLES FROM SURFACE SOILS	0	\$0.00							\$0.00	\$0.00
SOIL SAMPLES FROM TEST PITS AND AUGER HOLES	0	\$0.00							\$0.00	\$0.00
SEDIMENT SAMPLES FROM SURFACE WATER	13	\$166.60	\$3,200.00	\$50.00	\$20.00	\$75.00		\$20.00	\$3,365.00	\$3,531.60
GROUND-WATER SAMPLES	84	\$1,008.07	\$3,600.00	\$600.00	\$50.00	\$150.00		\$50.00	\$4,450.00	\$5,458.07
SURFACE WATER SAMPLES	13	\$166.60	\$2,400.00	\$50.00	\$20.00	\$75.00		\$20.00	\$2,565.00	\$2,731.60
AIR SAMPLES	12	\$153.60				\$200.00			\$200.00	\$353.60
WASTE SAMPLES	0	\$0.00							\$0.00	\$0.00
II-F CALCULATE FINAL HRS	22	\$394.56				\$150.00			\$150.00	\$544.56
II-G CONDUCT SITE ASSESSMENT	172	\$2,217.02			\$750.00	\$300.00		\$75.00	\$1,125.00	\$3,342.02
II-H PROJECT MANAGEMENT	33	\$529.88	\$690.00	\$300.00	\$150.00	\$50.00		\$50.00	\$1,240.00	\$1,769.88
TOTALS	746	\$9,618.36	\$9,090.00	\$3,950.00	\$1,440.00	\$2,375.00	\$6,420.00	\$290.00	\$23,465.00	\$33,083.36

OVERHEAD= \$13,735.02
 SUBTOTAL= \$46,810.38
 FEE= \$2,788.49
 TOTAL PROJECT COST= \$49,606.66



NOT TO SCALE

EXPLANATION:

- 
 NYSDEC SAMPLE POINT
(Dec. 15, 1981)
- 
 PROPOSED SURFACE WATER AND
SEDIMENT SAMPLE
- 
 PROPOSED GROUNDWATER MONITORING WELL

ENGINEERING-SCIENCE, INC. IN ASSOCIATION WITH DAMES & MOORE
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE I REPORT
PROPOSED SAMPLING LOCATIONS HOUDAILE INDUSTRIES (STRIPPIT DIV.)
FIGURE VI-1

APPENDIX A
REFERENCES

Sources Contacted
Documentation

SOURCES CONTACTED FOR
HOUDIALLE INDUSTRIES STRIPPIT DIVISION INVESTIGATION

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

SOURCES CONTACTED FOR HOUDIALLE INDUSTRIES STRIPPIT DIVISION INVESTIGATION

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

SOURCES CONTACTED FOR HOUDAILLE INDUSTRIES STRIPPIT DIVISION INVESTIGATION

CONTACT	DATE CONTACTED	PERSON CONTACTED	TELEPHONE NUMBER	LOCATION	INFORMATION COLLECTED
NYSDEC - Regional Attorney	1/10/85	Peter J. Burke	847-4551	600 Delaware Ave. Buffalo, NY 14202	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.
NYS Dept. of Health, Buffalo Region, Public Health Engineering	1/8/85	Lou Violanti	(716) 847-4500	584 Delaware Ave. Buffalo, NY 14202	Collected information from site files.
NYSDEC - Region 9 Division of Fish and Wildlife	1/10/85 & 1/11/85	Mike Wilkinson Jim Sneider	(716) 847-4600	600 Delaware Ave. Buffalo, NY 14202	Collected information from site files
Erie County, Division of Environmental Control, Dept. of Environment & Planning	1/10/85	Don Campbell Ron Koczaja	(716) 846-6271 (716) 846-6370	95 Franklin Street Buffalo, NY 14202	Collected information from Erie County site files. Obtained additional information through interview
Erie County, Division of Economic Development and Planning	4/2/85	Mike Alspaugh	(716) 846-6013	95 Franklin Street Buffalo, NY 14202	Obtained 1980 U.S. Census Data.
Houdaille Industries Strippit Division	3/27/85	Ken Bartha	(716) 542-4511	12975 Clarence Rd. Akron, NY 14001	Interviewed about disposal of on-site wastes.

REFERENCES

17. Bartha, K. Houdaille Industries Strippit Division, Personal Communication, 27 March 1985.
18. Bartha, K., Houdaille Industries Strippit Division, Personal Communication, 20 January 1987.
19. ECDEP, Site Profile Report, 1984.
20. NYSDEC, Site Profile Report and Analytical Results, 1982.

INTERVIEW FORM

INTERVIEWEE/CODE Mr. Ken Bartha 1
 TITLE - POSITION engineer
 ADDRESS 12975 Chancelle Rd.
 CITY Akron STATE NY ZIP 14001
 PHONE (716) 542-4511 RESIDENCE PERIOD _____ TO _____
 LOCATION: Akron, NY INTERVIEWER R. Steele / J. Butts
 DATE/TIME 3/27/85 1
 SUBJECT: Houdaille Landfill

REMARKS: Mr. Bartha stated that the disposal site was active from 1956 to 1975. Wastes disposed at the site included cutting oils, coolants, solvents, heat treatment sludge and refuse. Combustible materials were burned and the resulting ash and non-combustibles were left on site. In 1979 the site was covered with approx. 16,000 cubic yards of clean excavated fill. Heavy metals found in soil samples adjacent to the site are attributed to the previous owner.
Mr. Bartha was contacted on 4/8/85 regarding the chemical constituents of coolants disposed at the site. He did not know the constituents but indicated that the company manufacturing the product is no longer in the business.

I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:

SIGNATURE:

COMMENTS:

INTERVIEW FORM

INTERVIEWEE/CODE Mr Kenneth Bartha 1
 TITLE - POSITION Engineering
 ADDRESS 12975 Clarence Carter Road
 CITY Akron STATE NY ZIP 14001
 PHONE (716) 542-4511 RESIDENCE PERIOD _____ TO _____
 LOCATION Telephone interview INTERVIEWER S.R. Steele
 DATE/TIME 1/20/87 1
 SUBJECT: site ownership

REMARKS: The inactive disposal site was owned by
the Buffalo Arms Corporation during the 1940's and
1950's. The site was reportedly used for the disposal
of lead and scrap from the manufacturing of machine
guns. In 1956, Stripart, Division of Houdaille purchased
the plant site and has owned the site to date.
Houdaille used the site for waste disposal of heat
treat sludge, ~~cutting~~ cutting oils, coolants; and solvents
was used to burn plant refuse.
Houdaille, when located on Niagara Street in Buffalo,
had several different company names including: Buffalo
Alarm Clock Casing Co (1925-35) Walas Stripart Corp
(1935-1956) Stripart Corporation 1956 - present). While
under these names, ^{no} the company had involvement with the
(prior to 1956) disposal site.

I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:

SIGNATURE:

COMMENTS:

(ECDEP, 1984)

REF-19

STRIPPIT-DIARCO DIVISION

HOUDAILLE INDUSTRIES

AKRON, NEW YORK

SITE # 915053

Prepared by:

Erie County Department of
Environment and Planning

December 1984

(ECDEP, 1984)

DISCLAIMER

The information contained in this document is presented to show environmental conditions, comparisons to ambient environmental standards and criteria and compliance status relative to applicable environmental regulations.

Any use of this information to assess the risks to personal or public health, identify potential personal or public liability or to estimate the costs of remedial activity should only be done after consultation with appropriate government agencies or private consultants.

BACKGROUND

The plant was operated by the Buffalo Arms Company during the 40's and early 50's. The Strippit Corporation purchased the plant in 1956 and used the disposal site until about 1975.

Strippit personnel reported that the Buffalo Arms Company used the site to dispose of spent cartridges, scrap lead and steel.

Prior inspection reports and ECDEP files indicate that the Strippit Corporation disposed of steel and iron fines, carbon dust, paint solids and heat treating sludge at this site.

After 1975, the site was inactive except for some clay cover over the site during a plant expansion period.

LOCATION

The plant is located at 12975 Clarence Center Road in the Town of Newstead. The disposal site is located immediately southwest of the plant fenced-in area. The disposal area is not fenced in and is accessible to foot traffic. The site is approximately 200 ft. square.

AERIAL PHOTOGRAPHY

Available photos show the site was still active in 1972. Photos prior to 1972 were not available at the time this report was prepared.

(ECDEP, 1984)

FIELD INSPECTION

Most of the disposal area has a clay cover and is overgrown with grass, shrubs and some small trees. The section nearest the plant is clay covered and has sparse vegetation. The company is storing some metal shelves and ladders in this area. Tire tracks across the site indicate that a three wheeled ATV had recently been driven in the area.

ENVIRONMENTAL DATA

Soil is silty and clayey with pH greater than 6.5. Composition is 30% to 50% sand with slow permeability.

Bedrock is jointed shale at a depth greater than 4 feet.

Water - The natural water table is perched 2 feet to 4 feet below the surface.

The area has a municipal water supply system to the east, west and north. The area immediately south of the disposal area would be served by individual wells. The slope of the land is toward the north. Natural drainage ditches on company property flow to the north and eventually empty into Murder Creek.

(ECDEP, 1984)

CONCLUSION

Groundwater effects are not known. Further test borings, samples should be taken to obtain additional groundwater quality data and properly classify the site. The site also needs to be delineated by the sampling program. The owner should be contacted to perform an acceptable testing program and site remediation.

TABLE 1

MUDAILLES INDUSTRIES - STRIPPIT DIVISION

Soil Analyses

<u>COMPOUND</u>	<u>UNITS</u>	<u>#1</u>	<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>#5</u>
Antimony	ug/g dry	10	< 40	< 5	< 7	< 6
Arsenic	ug/g dry	5.5	190	2.4	.14	8.2
Beryllium	ug/g dry	< 0.3	< 2	< 0.3	< 0.4	< 0.3
Cadmium	ug/g dry	0.39	< 9	< 0.1	0.44	1.2
Chromium	ug/g dry	11	18	5.7	8.8	31
Copper	ug/g dry	14	40	36	15	59
Lead	ug/g dry	19	140	21	19	100
Mercury	ug/g dry	< 0.3	< 2	< 0.2	< 0.3	0.68
Nickel	ug/g dry	15	35	12	23	29
Selenium	ug/g dry	< 0.6	< 3	0.35	< 0.2	0.7
Silver	ug/g dry	< 0.3	< 2	< 0.3	< 0.4	< 0.3
Thallium	ug/g dry	< 3	< 20	< 3	< 4	< 3
Zinc	ug/g dry	110	360	21	91	1,000
Dry Weight	%	88	16	66	82	41
Halogenated Organic Scan	ug/g dry as Cl ₂ , Lindane Std.	< 0.5	< 0.5	9.5	< 0.5	26

SAMPLES COLLECTED BY NYSDEC 12/15/81

(ECDEP, 1984)

TABLE 2

SURFACE
Water Analyses

<u>COMPOUND</u>	<u>UNITS</u>	<u>SAMPLE LOCATIONS - Station #</u>		
		<u>#2</u>	<u>#3</u>	<u>#5</u>
Antimony	mg/l	< 0.2	< 0.2	< 0.2
Arsenic	ug/l	42	23	24
Beryllium	mg/l	< 0.01	< 0.01	< 0.01
Cadmium	mg/l	< 0.005	< 0.005	< 0.005
Chromium	mg/l	< 0.005	< 0.005	< 0.005
Copper	mg/l	< 0.006	< 0.006	< 0.006
Lead	mg/l	< 0.04	< 0.04	< 0.04
Mercury	ug/l	< 3	< 3	< 3
Nickel	mg/l	< 0.02	0.07	< 0.02
Selenium	ug/l	8.9	10	< 5
Silver	mg/l	< 0.01	< 0.01	< 0.01
Thallium	mg/l	< 0.1	< 0.1	< 0.1
Zinc	mg/l	0.039	0.063	0.167
Halogenated Organic Scan	ug/l as Cl ₂ Lindane Std.	< 0.3	< 0.3	< 0.3

SAMPLES COLLECTED BY NYSDEC 12/15/81

STIPPIT DIV. - HOUDAILLE IND.

5-81 LOCATION OF SAMPLE POINTS IN TABLES 1 & 2

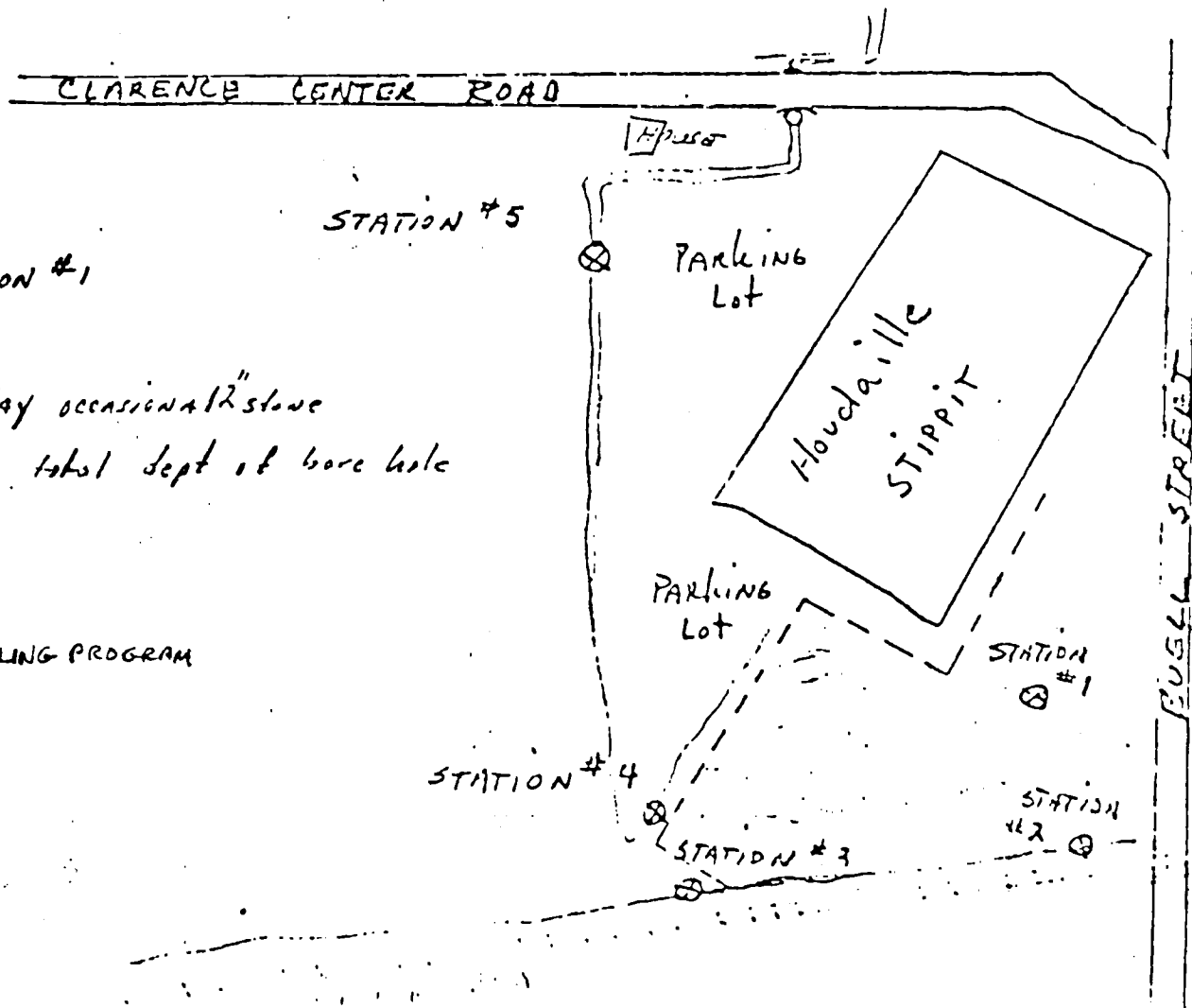
STATION #1 - soil sample cut field east side of filled AREA

STATION #2 - WATER & silt sample from ditch paralleling Rail Road bed along south side of landfill - off south east Co.

STATION #3 - WATER & silt sample from ditch paralleling Rail Road bed along south side of landfill - off South west Co. of filled area

STATION #4 - Soil sample at location west Co. of parking lot

STATION #5 - WATER & silt sample from ditch draining North side of fill AREA AND parking lot



- Hole #1 STATION #1
- 9" Top soil
- 4'3" silty Clay occasional 1/2" stone
- 5' obstruction total dept of bore hole

NYSDEC SAMPLING PROGRAM

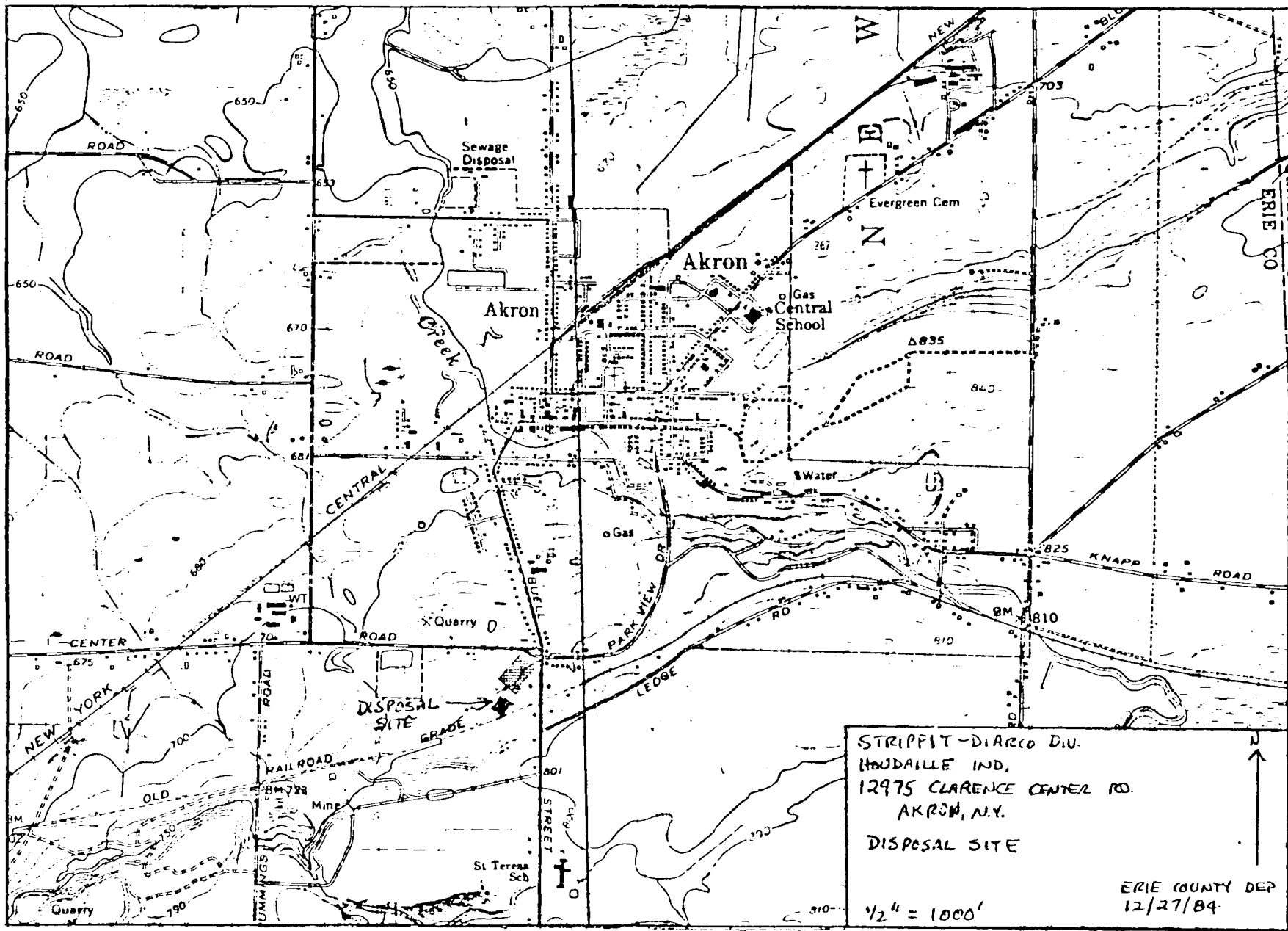


FIGURE 2

(ECDEP, 1984)

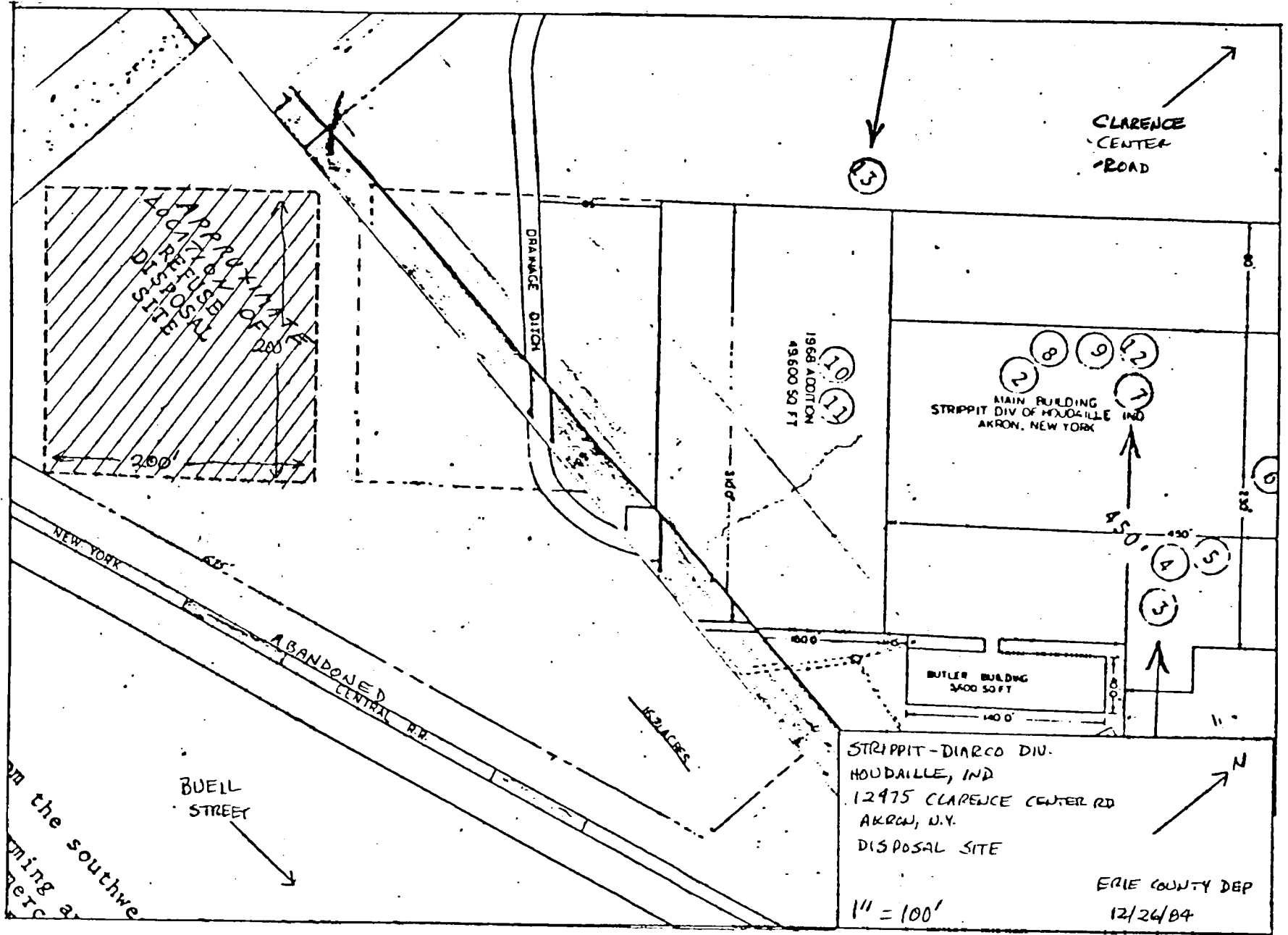


FIGURE 3

(ECDEP, 1984)

Houdaille
(NYSDEC, 1982)
REF-20

NAME OF LANDFILL: Houdailles Industries - Stripit Division

LOCATION: 12975 Clarence Road, Akron, Erie County

CURRENT OWNER: Houdaille Industries - Stripit Division

HISTORY

This was used prior to 1955 to 1975 by the Stripit Division of Houdaille Industries and Buffalo Arms. The following has been deposited: cutting oils, solvents, paint (20,000 gal/yr); heat treatment sludge (3 ton/yr); and coolants (20,000 gal/yr). The site is approximately 2 acres in size.

INVESTIGATION

An investigation was conducted at this site on December 15, 1981 by Messrs. Tygert, Christoffel, and Wozniak. Samples were taken from five locations. The first location was in a field behind the plant. A hole was augered to a depth of 5 feet and a soil sample was obtained from the soil on the drill bit. The second and third locations were from a drainage ditch along the south side of the landfill. Silt and water samples were obtained at both sites. The fourth location was in the southwest corner of a parking lot behind the plant. A soil sample was taken there. The fifth location was from a drainage ditch on the western edge of the plant property. Water and silt were taken from this station.

Site sketch showing the sampling locations is attached.

SOILS AND GEOLOGICAL INFORMATION

This site is located on an Ontario-Hilton soil association. It is an association of well and moderately well drained, medium textured, medium to high lime soils developed in glacial till. The dominant series are the well drained Ontario (35%) the moderately well drained Hilton (25%) the somewhat poorly drained Appleton (10%) and the poorly drained Lyons (10%).

The site is located on an Akron-Doldstone formation. The beds vary from a few inches to over a foot in thickness. In texture, the rock is fine grained but vuggy and roughweathering. The approximate depth to bedrock in this vicinity is 35 feet.

SAMPLE ANALYSES

The soil and water samples were analyzed for heavy metals and halogenated organics. The results of the analyses are attached.

The soil sample for Station #2 contained high concentrations of arsenic, lead and zinc. For Station #5, the sample contained high concentrations lead, zinc and halogenated organics. All three water samples contained moderate amounts of arsenic and detectable amounts of zinc.

(NYSDEC, 1982)

DISCUSSION OF RESULTS

Facility representatives stated that they observed leachate in the area of Station #4. No leachate was observed at this station during this inspection. The disposal of water contaminated with paint would account for the high concentration of lead in the soil sample at Station #2. There was a high concentration of arsenic in the soil sample at Station #2, and moderate concentrations in all three water samples. According to documents submitted by the facility to the interagency task force, arsenic is not used in any of their processes. It is possible that it was deposited by the previous owner - Buffalo Arms.

The company drilled a gas well through the landfill area. They stated that no problem was encountered either in the drilling or the bulldozing of this site.

This site is above the 100 year flood level. It has been classified as code "A" meaning further field inspection, preliminary hydrogeological information and/or additional information on chemicals present is needed.

RECOMMENDATION

It is possible that this landfill could contaminate groundwater in the area. Therefore, it is recommended that the site be covered with clay and graded to discourage leachate generation.

WHAT ABOUT FURTHER INVESTIGATION OF
DEFERRED IF GROUNDWATER IS
CONTAMINATED? SIGNIFICANT LEVELS?

(NYSDEC, 1982)

HOUDAILLES INDUSTRIES - STRIPPIT DIVISION

Original RECRA reports attached

Soil Analyses

<u>COMPOUND</u>	<u>UNITS</u>	<u>#1</u>	<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>#5</u>
Antimony	ug/g dry	10	< 40	< 5	< 7	< 6
Arsenic	ug/g dry	5.5	190	2.4	14	8.2
Beryllium	ug/g dry	< 0.3	< 2	< 0.3	< 0.4	< 0.3
Cadmium	ug/g dry	0.39	< 9	< 0.1	0.44	1.2
Chromium	ug/g dry	11	18	5.7	8.8	31
Copper	ug/g dry	14	40	36	15	59
Lead	ug/g dry	19	140	21	19	100
Mercury	ug/g dry	< 0.3	< 2	< 0.2	< 0.3	0.68
Nickel	ug/g dry	15	35	12	23	29
Selenium	ug/g dry	< 0.6	< 3	0.35	< 0.2	0.7
Silver	ug/g dry	< 0.3	< 2	< 0.3	< 0.4	< 0.3
Thallium	ug/g dry	< 3	< 20	< 3	< 4	< 3
Zinc	ug/g dry	110	360	21	91	1,000
Dry Weight	%	88	16	66	82	41
Halogenated Organic Scan	ug/g dry as Cl ₂ , Lindane Std.	< 0.5	< 0.5	9.5	< 0.5	26

(ECDEP, 1984)

LAND USE

The area to the south and west is farmland. To the east and northeast is a park. The village of Akron lies directly north of the plant.

SAMPLING

On December 15, 1981 the NYSDEC collected five soil samples and three water samples on Strippit Corporation property. The analysis report on these samples and a map showing sampling sites is attached.

SAMPLING RESULTS

Sample analyses indicate high levels of arsenic, chromium, lead and chlorinated inorganics in one or more of the soil samples. High arsenic levels are also found in all three water samples.

The sample data does not show any analysis for barium. However, barium salts were a major component of the heat treating sludge that was disposed of at this site.

(NYSDEC, 1982)

Water Analyses

<u>COMPOUND</u>	<u>UNITS</u>	<u>SAMPLE LOCATIONS - Station #</u>		
		<u>#2</u>	<u>#3</u>	<u>#5</u>
Antimony	mg/l	< 0.2	< 0.2	< 0.2
Arsenic ✓	ug/l	42	23	24
Beryllium	mg/l	< 0.01	< 0.01	< 0.01
Cadmium	mg/l	< 0.005	< 0.005	< 0.005
Chromium	mg/l	< 0.005	< 0.005	< 0.005
Copper	mg/l	< 0.006	< 0.006	< 0.006
Lead	mg/l	< 0.04	< 0.04	< 0.04
Mercury	ug/l	< 3	< 3	< 3
Nickel	mg/l	< 0.02	0.07	< 0.02
Selenium	ug/l	8.9	10	< 5
Silver	mg/l	< 0.01	< 0.01	< 0.01
Thallium	mg/l	< 0.1	< 0.1	< 0.1
Zinc	mg/l	0.039	0.063	0.167
Halogenated Organic Scan	ug/l as Cl ₂ Lindane Std.	< 0.3	< 0.3	< 0.3

APPENDIX B
PROPOSED UPDATED NYS REGISTRY SHEET

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

CLASSIFICATION CODE: 2a

REGION: 9

SITE CODE: 915053

NAME OF SITE : Houdaille Ind. Strippit Division

STREET ADDRESS: 12975 Clarence Center Road

TOWN/CITY:

COUNTY:

ZIP:

Akron

Erie

SITE TYPE: Open Dump- Structure- Lagoon- Landfill-X Treatment Pond-
ESTIMATED SIZE: 2 Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME...: Houdailles Industries - Strippit Div

CURRENT OWNER ADDRESS.: Clarence Center Rd., Akron, NY 14001

OWNER(S) DURING USE...: Houdaille Ind. - Strippit Div.

OPERATOR DURING USE...: Houdaille Ind. - Strippit Div.

OPERATOR ADDRESS.....: Clarence Center Rd., Akron, Ny 14001

PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From 1955 To 1975

SITE DESCRIPTION:

Strippit Division of Houdaille Industries and its predecessors used this site to dispose cutting oils, solvents, paint, coolants and heat treatment sludge during the period 1955-1975. In 1981, DEC took soil and groundwater samples. The soil samples indicated moderate to high concentration of lead, zinc and halogenated organics. The water samples indicated moderate to high concentration of arsenic. The disposal site has been covered. A gas well has been drilled through the site.

HAZARDOUS WASTE DISPOSED:	Confirmed-	Suspected	-X
TYPE:	QUANTITY (units)		
Cutting oils, solvents, paints			
Heat treatment sludge			3 tons/yr
Coolant			20,000 gal/yr

SITE CODE: 915053

ANALYTICAL DATA AVAILABLE:

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

CONTRAVENTION OF STANDARDS:

Groundwater- Drinking Water- Surface Water- Air-

LEGAL ACTION:

TYPE.: None X State- Federal-
STATUS: In Progress- Completed-

REMEDIAL ACTION:

Proposed- Under Design- In Progress- Completed-
NATURE OF ACTION: None

GEOTECHNICAL INFORMATION:

SOIL TYPE: Moderately drained lime soil
GROUNDWATER DEPTH: Not Known

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

From the available data, there is an indication of environmental problems at this site.

ASSESSMENT OF HEALTH PROBLEMS:

Insufficient Information

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

NAME.: E.J. Feron, Jr.
TITLE: Sr. Sanitary Engr.

NAME.: Peter Buechi
TITLE: Assoc. Sanitary Engr.

DATE.: 01/24/85

NEW YORK STATE DEPARTMENT
OF HEALTH

NAME.: R. Tramontano
TITLE: Bureau Tox.Subst. Assess.

NAME.:
TITLE:

DATE.: 01/24/85