915022

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE I INVESTIGATION

Ernst Steel

Site No. 915022

Cheektowaga

Erie County

DATE: March 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:

Recra Environmental, Inc.

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

Ernst Steel Corporation 1746 Walden Avenue Cheektowaga, Erie County, New York Site #915022

Prepared For:

Division of Solid and Hazardous Waste
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-0001

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1.0 EXECUTIVE SUMMARY

The Ernst Steel Corporation operated a steel fabrication operation on a three acre site in Cheektowaga, Erie County, New York from 1953 to 1983 (Figure 1). Waste materials from this operation included 2600 gallons per year of steel shavings, steel drillings, iron oxide dust and dirt, and 250 gallons per year of dried paint sludge which were landfilled in the northeastern part of the site (Figure 2). During site inspections by NUS Corporation (9/28/83), Recra Environmental, Inc. (1/24/86), NYSDEC Region 9 (6/13/86), and the County (7/30/86), paint residue/red granular material was observed throughout this area. The site property was vacant from 1933 to 1953. Prior to 1933, the site was used as a railroad facility and coal cinders from this operation covered the area.

Sampling by the NYSDEC in 1982 indicated elevated levels of chromium (11 to 440 ppm), copper (4 to 280 ppm), lead (8.3 to 2500 ppm), nickel (18 to 110 ppm), zinc (31 to 64 ppm), and iron (200 to 440 ppm) in four soil samples and elevated levels of lead (170 ppm), zinc (17 ppm), and iron (3.6 ppm) in a surface water sample. No groundwater sampling has been conducted at the site. Groundwater is not used as a drinking water or irrigation source within three miles of the site.

The Phase I effort included a compilation of information gathered from NYSDEC Region 9, the Erie County Department of Environment and Planning, the New York State Health Department, and an interview with Frank Ernst, Vice President of the Ernst Steel Corporation. Recra Environmental, Inc., personnel conducted a site visit on January 24, 1986.

The intent of the Hazard Ranking System (HRS) is to provide a method by which uncontrolled hazardous waste sites may be systematically assessed as to the potential risk that a site may pose to human health and the environment. The HRS is designed to provide a numerical value through an assessment of technical data and information, and relating that information with respect to:

- o migration of hazardous substances from the site (S_m)
- o risk involved with direct contact (S_{dc})
- o the potential for fire and explosion (S_{fe}) .

The risks involved with direct contact (S_{dc}) and the potential for fire and explosion (S_{fe}) are evaluated according to site specific information including toxicity of waste, quantity, site demographics, location with respect to sensitive habitats of wildlife, etc. Migration potential (S_m) is evaluated through the rating of factors associated with three routing modes: groundwater (S_{gw}) , surface water (S_{sw}) and air (S_a) . The scored value for each route is composited to determine the risk to humans and/or the environment from the migration of hazardous substances from the site (S_m) .

Based on information gathered during this investigation, the Ernst Steel Corporation site was scored according to the Mitre Corporation Hazard Ranking System (HRS) and the following scores were obtained:

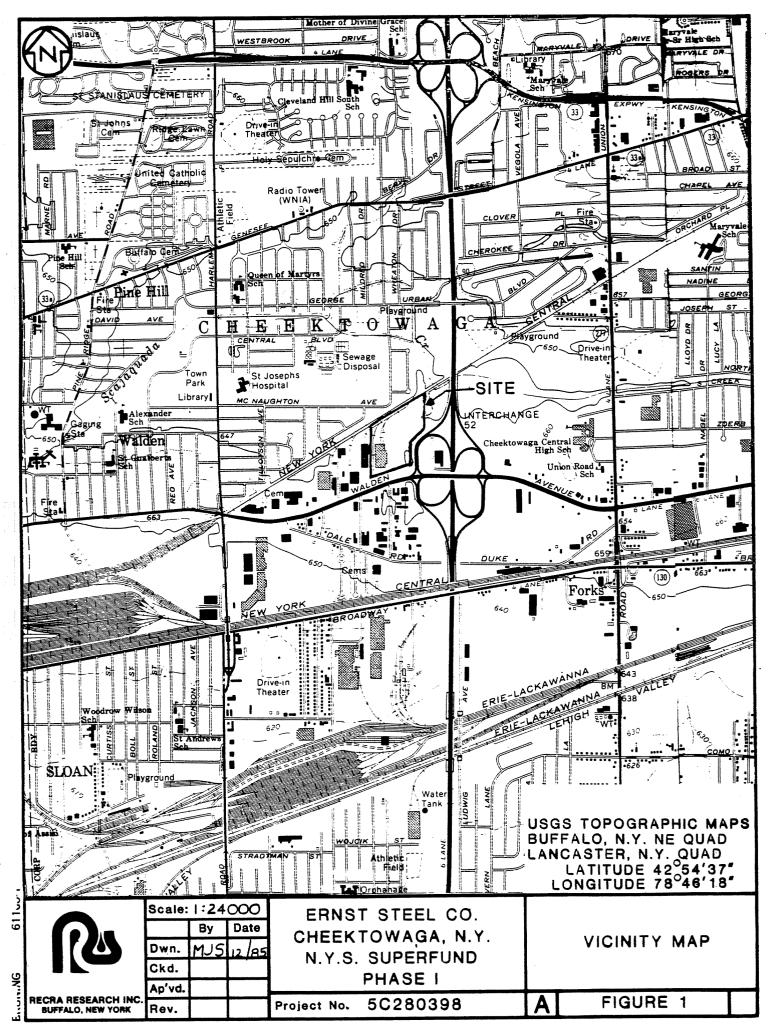
$$S_{m} = 3.44 (S_{gW} = 2.68; S_{SW} = 5.31; S_{a} = 0)$$

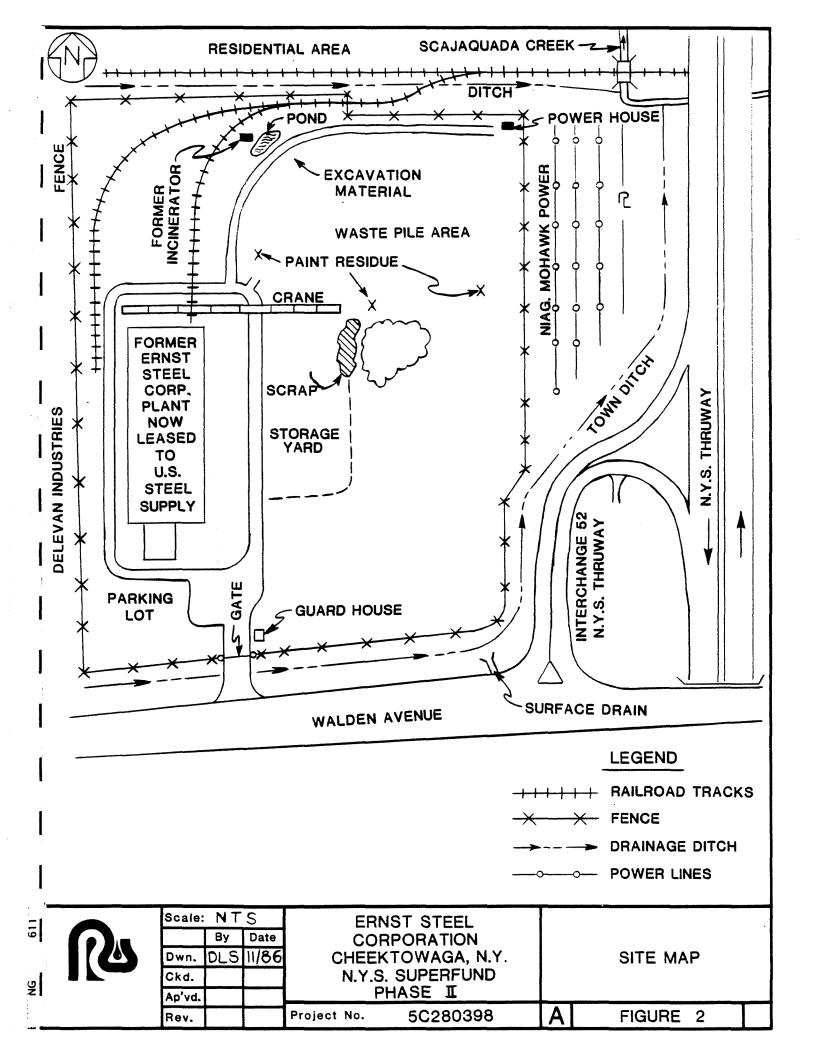
 $S_{fe} = 0$

$$S_{dc} = 0$$

A Phase II investigation at the Ernst Steel site is recommended to proceed in two steps with step two contingent upon the results of step one. Step one would be a preliminary sampling and characterization of waste piles, paint residues, and incinerator ash. Composite samples from these areas should be analyzed for heavy metals and organics. In addition, a geophysical survey should be conducted to delineate the areal and vertical extent of fill areas at the site and to detect buried drums, if present.

If analytical results indicate the presence of hazardous substances at the site, step two of the Phase II work plan would be instituted. Step two would include monitoring well installation and groundwater, soil, surface water, and sediment sampling.





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2.0 PURPOSE

The objective of this Phase I investigation is to prepare a report for the Ernst Steel Corporation site that provides a history and preliminary assessment of the site based on a review of available data, assigns a numerical value to the site through the use of the Hazard Ranking System (HRS) and develops a proposed Phase II work plan designed to address the data inadequacies identified during report preparation. The purpose of developing a Phase I report in this manner is to provide an objective assessment of the site and the potential impact it may pose to human health and the environment.

The Phase I objective was met through the following activities:

- o site inspection.
- o collection and review of available data for report preparation and preliminary scoring of the HRS.
- o evaluation of data for completeness and identification of data inadequacies.
- o development of a proposed Phase II work plan to address the data inadequacies identified.

The site inspection is an integral part of the Phase I report preparation and is conducted to confirm actual site conditions. Typically, the site visit is designed to note the general topography and geology of the site, evidence of waste disposal, form of waste disposal, visible signs of contaminant release to the environment (e.g. leachate), access to the site, and location of water resources, population centers, and sensitive environments such as wetlands.

3.0 PHASE I SCOPE OF WORK

In order to provide an accurate and thorough preliminary assessment of the Ernst Steel Corporation site, Recra personnel conducted a search of state and county office files, a review of available general information concerning regional geography, geology and hydrogeology, and a site visit that included an interview with personnel associated with site operations.

The majority of the data comprising this report was obtained from NYSDEC Region 9 located at 600 Delaware Avenue, Buffalo, New York (716-847-4600) and the Erie County Department of Environment and Planning located at 95 Franklin Street, Buffalo, New York (716-846-8390). NYSDEC Region 9 also provided floodplain information and the location of wetlands and critical habitats of endangered species in the vicinity of the site.

Recra personnel conducted an inspection of the site on January 24, 1986 to identify the present condition of the site. Weather during the site visit was cloudy and 28°F with no snow cover on the ground. No air monitoring was conducted during the inspection due to the low air temperature.

4.0 SITE ASSESSMENT

4.1 Site History

The Ernst Steel Corporation is located on a three acre site at 1746 Walden Avenue, Cheektowaga, Erie County, New York (Ref. 2 and 17). From 1953 to 1983, the company operated a steel service center and a fabrication plant for the assembly of heavy industrial equipment (Ref. 2, 4, 15, 17, 20, 21). Waste materials from this operation included approximately 2600 gallons per year of steel shavings, steel drillings, iron oxide dust and dirt, and approximately 250 gallons per year of dried paint sludge (Ref. 2, 4, 15, 17, 18, 20, 21). Waste materials were landfilled in low lying areas in the northeastern part of the plant property (Ref. 4, 15, 17, 20, 21, and 23). During site inspections by NUS Corporation (9/28/83). Recra Environmental, Inc. (1/24/86). NYSDEC Region 9 and the County DEP (7/30/86), waste piles (6/13/86). residue/red granular material was observed throughout this area (Ref. 3, 17, 22, and 23).

From 1933 to 1953, the site was vacant (Ref. 15). Prior to 1933, the property was a railroad facility (Ref. 15, 16). During this period, coal cinders from the railroad operation were reportedly disposed of on site (Ref. 15, 19).

In 1982, the NYSDEC collected three soil samples and a surface water sample in an area of the site around a small incinerator used to burn office paper waste and employee refuse (Ref. 2, 4, 15). The exact sampling locations are not known.

In 1983, the site was sold to U.S. Steel to be operated as a steel service center. Landfilling operations had ceased by this time (Ref. 2, 15, 17).

During site inspections in 1983 by NUS Corporation, and in 1986 by Recra Research, Inc., empty, rusted 55 gallon drums were observed on site (Ref. 3, 17).

4.2 Site Area Surface Features

4.2.1 Topography and Drainage

Topography in the area of the site is generally flat (Ref. 1). Most of the northeastern section of plant property where disposal activities took place formerly consisted of freshwater wetlands (Ref. 2). A ditch runs between the site and the railroad track bed near the northern boundary of the site (Figure 2). Run-off from the northern portion of the site can enter this ditch, which eventually drains to Scajaquada Creek. A ditch runs parallel with the southern boundary of the site and is directed along a portion of the eastern boundary before being diverted east of the Niagara Mohawk power lines and north to Scajaquada Creek (Ref. 22). Some surface drainage may leave the site through a break in a dike on the southeast corner of the site (Ref. 22). Railroad tracks separate the site from a residential area lying north of the plant property (Ref. 1).

Much of the site is low lying and because of the high clay content of the unconsolidated deposits underlying the site, some ponding of water occurs following periods of high precipitation (Ref. 7). Most surface water remains on site (Ref. 22).

4.2.2 Environmental Setting

Land use within one mile of the site is residential, commercial and industrial (Ref. 1, 2). Railroad tracks separate the site from a residential area to the north. New York State Thruway Exit 52W, a Niagara Mohawk substation, and power lines lie immediately east of the site. The entire property is surrounded by a fence with the site entrance and guardhouse located off Walden Avenue. Scajaquada Creek flows within 1000 feet of the northeastern section of the site (Ref. 1). Scajaquada Creek is a Class D waterway, suitable for secondary contact recreation such as boating or fishing (Ref. 11, 12). Portions of the northeastern section of the site lie within the 100-year floodplain of Scajaquada Creek (Ref. 14). There are no New York State regulated wetlands or critical habitats of endangered species found within one mile of the site (Ref. 13).

Approximately 5000 people live within one mile of the site and 40,000 people within three miles of the site (Ref. 17). All residents in the vicinity of the site are serviced by municipal water supply (Ref. 2, 6, 17). Surface water intakes for Cheektowaga municipal water are located in the Niagara River and operated by the Erie County Water Authority (Ref. 6).

4.3 Site Hydrogeology

4.3.1 Geology

The first encountered bedrock underlying the site is the Onondaga Limestone (Ref. 8). This formation consists of three members. The lowest member is a gray coarse-grained limestone, generally only a few

feet in thickness (Ref. 5). This lithology occasionally grades laterally into reef deposits which increases its thickness (Ref. 8). The middle member of the Onondaga Limestone is a cherty limestone, approximately 40 to 45 feet thick. The upper unit is a dark-gray to tan limestone with a thickness ranging from 50 to 60 feet (Ref. 5).

Depth to bedrock beneath the site has been estimated to range between 10 and 25 feet below ground surface (Ref. 2, 17).

4.3.2 Soils

Soils in the area including the site have been classified as Urban Land-Odessa, Nearly Level (Ref. 7). The urban land portion of this unit is characterized by disturbed or removed soils and is found in residential, commercial and industrial areas. The undisturbed portion is dominated by Odessa soils that formed in gravel and stone-free, lake-laid sediments having a high clay content. These soils are often poorly drained and have a seasonal high water table perched in the upper part of the subsoil during wet periods (Ref. 7).

On July 30, 1986, county personnel inspected the site and six soil borings were taken using a Veihmeyer Soil Sampler. Subsurface soils were collected to a depth of four feet and were found to consist mainly of orange silty clay (Ref. 23).

Large quantities of coal cinders have been reportedly landfilled on site from past operations (Ref. 15, 19).

4.3.3 Groundwater

There is no known groundwater information for the immediate area including the site. The Onondaga Limestone and other limestone units in the area contain waterbearing openings resulting from the solutioning of limestone by groundwater (Ref. 5). Solutioning occurs especially along vertical joints and horizontal bedding planes. The coefficient of transmissivity of the limestone units is estimated to range between 300 and 25,000 gallons per day per foot depending on the extent and magnitude of solutioning of the rock (Ref. 5).

As mentioned in Section 4.3.2, undisturbed site soils can support a seasonal high perched water table during periods of high precipitation. The depth of the perched water table has been reported to be 0.5 to 2 feet below ground surface (Ref. 2).

4.4 Previous Sampling and Analysis

4.4.1 Groundwater Quality Data

There is no available groundwater data for the site.

4.4.2 Surface Water Quality Data

The NYSDEC collected a surface water sample from an unknown location on the site on April 27, 1982 (Ref. 2, 4). According to the NYSDEC, the analyses indicated high concentrations of zinc (17 ppm) and iron (3.6 ppm) and a very high concentration of lead (170 mg/l)(Ref. 4).

4.4.3 Air Quality Data

There is no available air quality data for the site. During the NUS Corporation site investigation on September 28, 1983, air monitoring was conducted using an HNU photoionizer. No readings were obtained that exceeded background levels (Ref. 17).

4.4.4 Other Analytical Data

The NYSDEC collected four soil samples north of the plant building on April 27, 1982 (Ref. 2, 4). Three soil samples were taken at a depth of 4.5 feet and the fourth from the ground surface. These samples were analyzed for metals and total halogenated organics. The soil analyses from the four samples indicated high concentrations of chromium (11 to 440 ppm), copper (41 to 280 ppm), lead (8.3 to 2500 ppm), nickel (18 to 110 ppm), zinc (31 to 64 ppm), and iron (200 to 440 ppm) (Ref. 4). Low levels of total halogenated organics were detected (0.6 to 1.1 ppm).

5.0 PRELIMINARY APPLICATION OF THE HAZARD RANKING SYSTEM

5.1 Narrative Summary

The Ernst Steel Corporation operated a steel fabrication operation at 1746 Walden Avenue, Cheektowaga, Erie County, New York from 1953 to 1983 (Ref. 2, 4, 17). Waste materials from this operation that included 2600 gallons per year of steel shavings, steel drillings, iron oxide dust and dirt, and 250 gallons per year of dried paint sludge were landfilled on a four acre section in the northeastern part of the site (Ref. 2, 4, 17, 20, 21, and 23). During site inspections by NUS Corporation (9/28/83), Recra Environmental, Inc. (1/24/86), NYSDEC Region 9 (6/13/86), and the County DEP (7/30/86) waste piles and paint residue/red granular material were observed throughout this area (Ref. 3, 17, 22, and 23). From 1933 to 1953 the site property was vacant (Ref. 15). Prior to 1933, the site was used as a railroad car facility and the area was reportedly covered with coal cinders that came from railroad operations (Ref. 15, 16, 19). The site is presently owned by U.S. Steel and is used as a steel service center (Ref. 2, 15, 17).

Sampling by the NYSDEC in 1982 indicated elevated levels of lead (8.3 to 2500 ppm), chromium (11 to 440 ppm), copper (41 to 280 ppm), nickel (18 to 110 ppm), zinc (31 to 64 ppm), and iron (200 to 440 ppm) in four soil samples from the site and elevated levels of lead (170 ppm), zinc (17 ppm), and iron (3.6 ppm) in a surface water sample (Ref. 2, 4). The soil samples were collected north of the plant building, but it is not known where the surface water samples were taken (Ref. 2, 4). No groundwater sampling has been conducted at the site. Land use within one mile of the

site is residential, commercial and industrial (Ref. 1, 2). All residents within three miles of the site are serviced by municipal water supply (Ref. 2, 6, 17). Surface water intakes for municipal water are located in the Niagara River ten miles downstream of the site (Ref. 6).

Scajaquada Creek lies within 1000 feet of the northeastern section of the site (Ref. 1). Ditches are located along the northern, southern, and eastern boundaries of the site and are directed to Scajaquada Creek. Most surface water, however, apparently remains on site although some surface drainage may leave the site through a break in a dike on the southeast corner of the property (Ref. 22). Portions of the northeastern section of the site are located in the 100-year floodplain of Scajaquada Creek (Ref. 14). There are no regulated wetlands or critical habitats of endangered species within a mile of the site (Ref. 13).

5.2 HRS WORKSHEET

Faciny name: Ernst Steel Corporation
Location: 1746 Walden Ave., Buffalo, Erie County, New York
EPA Region:
Person(s) in charge of the facility: Frank Ernst, Vice President
P.O. Box 987
Buffalo, New York 14240
Name of Reviewer: Recra Research, Inc. Date: February 18, 1986 General description of the facility: (For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; containnation route of major concern; types of information needed for rating; agency action, etc.)
From 1953 to 1983, approximately 2600 gallons per year of steel shavings
steel drillings and iron oxide dust, and 250 gallons per year of dried
paint sludge were landfilled in low lying areas in a 4 acre section
of Ernst Steel Corporation property. Elevated levels of heavy metals
have been detected in site soils and surface water.
Scores: $S_M = 3.44(S_{gw} = 2.68 S_{sw} = 5.31 S_a = 0)$
$S_{\text{FE}} = 0$
$s_{DC} = 0$

FIGURE 1
HRS COVER SHEET

Ground Water Route Work Sheet									
Rating Factor		Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)			
1 Observed Release	e	0 45	1	0	45	3.1			
1		n a score of 45, proceed to line 4 n a score of 0, proceed to line 2].						
2 Route Characteris Depth to Aquife		0 1 2 3	2	4	6	3.2			
Concern Net Precipitation Permeability of t Unsaturated Zo	ine	0 1 2 3 0 1 2 3	1 1	2 1	3 3				
Physical State		0 1 2 3	1	2	3				
		Total Route Characteristics Score		9	15				
3 Containment		0 1 2 3	1	3	3	, 3.3			
Waste Characteris Toxicity/Persiste Hazardous Wast Quantity	ence	0 3 6 9 12 15 18 0 1 2 3 4 5 6 7 8	1 3 1	18 1	18 8	3.4			
		Total Waste Characteristics Score		19	26	·			
5 Targets Ground Water U Distance to Nea Well/Population Served	rest	0 1 2 3 0 4 6 8 10 12 16 18 20 24 30 32 35 40	3	3 0	9 40	3.5			
		Total Targets Score		3	49				
	multiply nultiply			1539	57,330				
7 Divide line 6 b	y 57,330	and multiply by 100	Sgw=	2.68					

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Surface Water Route Work Sheet									
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)				
Observed Release	0 45	1	0	45	4.1				
	If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.								
Route Characteristics Facility Slope and I	ntervening (0) 1 2 3	1	0	3	4.2				
1-yr. 24-hr. Rainfall Distance to Neares Water	0 1 2 3 t Surface 0 1 2 3	1 2	2 6	3 6					
Physical State	0 1 2 3	1	2	3					
	Total Route Characteristics Score		10	15					
3 Containment	0 1 2 3	1	3	3	4.3				
Waste Characteristics Toxicity/Persistenc Hazardous Waste Quantity		1	18 1	18 8	4.4				
	Total Waste Characteristics Score		19	26					
Surface Water Use Distance to a Sensi Environment Population Served/	Distance) 0 4 6 8 10	3 2 1	6 0	9 6 40	4.5				
to Water Intake Downstream	12 16 18 20 24 30 32 35 40	<u> </u>	-						
	Total Targets Score		6	5 5					
	Itiply 1 x 4 x 5 iply 2 x 3 x 4 x 5		3420	64,3 50					
7 Divide line 6 by 6	4,350 and multiply by 100	S _{sw} =	5.31						

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

Air Route Work Sheet									
	Rating Factor		Assigne (Circle	Multi- plier	Score	Max. Score	Ref. (Section)		
1	Observed Release	:	0	45		1	0	45	5.1
	Date and Location	ı:							
	Sampling Protocol	:							
	If line 1 is 0, the line 1 is 45,	_	D. Enter on line seed to line 2						
2	Waste Characterist Reactivity and incompatibility	tics	① 1 2	3		1	0	3	5.2
	Toxicity Hazardous Waste Quantity		0 1 2 0 1 2	3 4 5	6 7 8	3 1	9 1	9 8	
	·								
		,	Total Waste Cha	racteristic	s Score		10	20	
3	Targets Population Within 4-Mile Radius) 0 9 12 21 24 27			1	21	30	5.3
	Distance to Sensi Environment	tive	0 1 2	_		2	0	6	
	Land Use		0 1 2	(3)		1	3	3	
			Total Targ	gets Score			24	39	
4	Multiply 1 x 2	x 3					0	35,10 0	
<u></u>	Divide line 4 by 35,100 and multiply by 100 Sa = 0								

FIGURE 9
AIR ROUTE WORK SHEET

•	s	82
Groundwater Route Score (Spw)	2.68	7.18
Surface Water Route Score (S _{SW})	5.31	28.20
Air Route Score (Sa)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		35.38
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		5.95
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		3.44

FIGURE 10 WORKSHEET FOR COMPUTING S_M

Fire and Explosion Work Sheet									
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)				
Containment	<u>1</u> 3	1	1	3	7.1				
Waste Characteristics Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity	0 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 4 5 6 7 8	1 1 1 1 1	0 0 0 0	3 3 3 8	7.2				
	Total Waste Characteristics Score		0	20					
Distance to Nearest Population Distance to Nearest Building Distance to Sensitive Environment Land Use Population Within 2-Mile Radius Buildings Within 2-Mile Radius	0 1 2 3 4 5 0 1 2 3 0 1 2 3 0 1 2 3 4 5 0 1 2 3 4 5	1 1 1 1 1	3 0 3 5 3	5 3 3 5 5	7.3				
	Total Targets Score		17	24					
4 Multiply 1 x 2 x	3		0	1,440					
5 Divide line 4 by 1,44	0 and multiply by 100	SFE =	0						

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

		Direct Contact Work Sheet							
	Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)			
1	Observed Incident	<u>0</u> 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	0	3	8.2			
3	Containment	0 (15)	1	15	15	8.3			
1	Waste Characteristics Toxicity	0 1 2 3	5	15	15	8.4			
5	Targets Population Within a 1-Mile Radius Distance to a Critical Habitat	0 1 2 3 4 5 0 1 2 3	4	16 0	20 12	8. 5			
		Total Targets Score		16	32				
6	If line 1 is 45, multiply If line 1 is 0, multiply	1 × 4 × 5 2 × 3 × 4 × 5		0	21,600				
7	Divide line 6 by 21,600	and multiply by 100	S _{DC} =	0					

FIGURE 12
DIRECT CONTACT WORK SHEET

5.3 HRS DOCUMENTATION RECORDS

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY	NAME:	Ernst	Steel	Corporation	on			
LOCATION:	1746	Walder	Ave.,	Buffalo,	Erie Coun	ty, New	York	

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

No analytical data

Rationale for attributing the contaminants to the facility: N/A

* * *

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

- 1. Seasonal perched water table in unconsolidated deposits.
- 2. Onondaga Limestone

(Ref. 2,5,8,10)

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

- 1. Perched water table estimated at 0.5 to 2 feet.
- 2. Onondaga Limestone between 10 and 60 feet

(Ref. 2, 10)

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

≤4.5 feet

(Ref. 2, 17, 23)

Net Precipitation

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

36 inches

(Ref. 9)

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

27 inches

(Ref. 9)

Net precipitation (subtract the above figures):

9 inches

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Urban land - Odessa, nearly level

(Ref. 7)

Permeability associated with soil type:

$$<10^{-5} \ge 10^{-7} \text{ cm/sec}$$

(Ref. 9)

Physical State

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

Solid, fine material and dried sludge

(Ref. 2,4,15,17,18,20,21)

+ + +

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Piles - uncovered, no liner

(Ref. 2, 4, 16, 17, 22, 23)

Method with highest score:

Piles - uncovered, no liner

(Ref. 9)

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Heavy metals: Cr, Cu, Pb, Zn, Fe, Ni

(Ref. 2, 4)

Compound with highest score:

Heavy metals

Hazardous Waste Quantity

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

Sampling and analysis document the presence of hazardous substances at the site; exact quantity unknown.

(Ref. 2, 4)

Basis of estimating and/or computing waste quantity:

N/A

5 TARGETS

Ground Water Use

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

Industrial

(Ref. 5,17)

Distance to Nearest Well

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

Unknown

Distance to above well or building:

Unknown

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

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

All residents within 3 miles of the site use municipal water

(Ref. 2,6,17)

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

N/A

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

0

SURFACE WATER ROUTE

1 OBSERVED RELEASE

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

Insufficient data for HRS scoring

(Ref. 2, 4, 23)

Rationale for attributing the contaminants to the facility:

N/A

* * *

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Less than 1%

(Ref. 1)

Name/description of nearest downslope surface water:

Ditch tributary to Scajaquada Creek

(Ref. 1, 22)

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

Less than 1%

(Ref. 1)

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

No

(Ref. 1, 22)

Is the facility completely surrounded by areas of higher elevation?

No

(Ref. 1)

1-Year 24-Hour Rainfall in Inches

2.1

(Ref. 9)

Distance to Nearest Downslope Surface Water

Ditch adjacent to site runs 800 feet to Scajaquada Creek

(Ref. 1, 22)

Physical State of Waste

Solid, fine material and dried sludge

(Ref. 2,14,15,17,18,20,21)

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Waste piles - not covered; no diversion system

(Ref. 2,4,16,17,22,23)

Method with highest score:

Waste piles - not covered; no diversion system

(Ref. 9)

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Heavy metals: Cr, Cu, Pb, Zn, Fe, Ni

(Ref. 2, 4)

Compound with highest score:

Heavy metals

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):

Sampling and analysis document the presence of hazardous substances at the site; exact quantity unknown.

(Ref. 2,4)

Basis of estimating and/or computing waste quantity:

N/A

* * *

5 TARGETS

Surface Water Use

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

Secondary contact recreation including some fishing

(Ref. Recra Site Visit, 1/24/86)

Is there tidal influence?

No

Distance to a Sensitive Environment

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

N/A

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

N/A

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

N/A

Population Served by Surface Water

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

 $\ensuremath{\text{N/A}};$ surface water intakes located in the Niagara River greater than 3 miles from site.

(Ref. 6, 17)

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

N/A

Total population served:

N/A

Name/description of nearest of above water bodies:

N/A

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

N/A

AIR ROUTE

1 OBSERVED RELEASE
Contaminants detected:
No analytical data
Date and location of detection of contaminants
N/A
Methods used to detect the contaminants:
N/A
Rationale for attributing the contaminants to the site:
N/A
* * *
2 WASTE CHARACTERISTICS
Reactivity and Incompatibility
Most reactive compound:

N/A

N/A

Most incompatible pair of compounds:

11

_					•		
T	O	×	٦	~	1	۲	v
•	-	••	-	-	_	-	

Most toxic compound:

Heavy metals

(Ref. 2, 4)

Hazardous Waste Quantity

Total quantity of hazardous waste:

Sampling and analysis document the presence of hazardous substances at the site; exact quantity unknown.

(Ref. 2, 4)

Basis of estimating and/or computing waste quantity:

N/A

3 TARGETS

Population Within 4-Mile Radius

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

O to 4 mi

O to 1 mi

0 to 1/2 mi. _

0 to 1/4 mi

5000

(Ref. 17)

Distance to a Sensitive Environment

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

N/A

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

N/A

(Ref. 13)

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

N/A

(Ref. 13)

Land Use

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

.1 mile (Ref. 17)

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

N/A

Distance to residential area, if 2 miles or less:

.1 mile (Ref. 1,17)

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

N/A (Ref. 17)

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

N/A (Ref. 17)

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

NO

FIRE AND EXPLOSION

2	WASTE CRARACTERISTICS
Dir	rect Evidence
Ty	e of instrument and measurements:
N/	• •
Ign	icability
Con	mound used:
N/	A
Res	erivity
Mos	t reactive compound:
N/	A
Inc	omparibiliz <u>v</u>
Mos	c incompacible pair of compounds:
N/	'A

1 CONTAINMENT

N/A

N/A

Hazardous substances present:

Type of containment, if applicable:

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

Sampling and analysis document the presence of hazardous substances at the site; exact quantity unknown.

(Ref. 2, 4)

Basis of estimating and/or computing waste quantity:

N/A

* * *

3 TARGETS

Distance to Nearest Population

500 feet

(Ref. 1, 17)

Distance to Nearest Building

On Site

Distance to Sensitive Environment

Distance to wetlands:

>2 miles

(Ref. 13)

Distance to critical habitat:

>1 mile

(Ref. 13)

Land Use

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

500 feet

(Ref. 1, 17)

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

N/A

Distance to residential area, if 2 miles or less:

500 feet

(Ref. 1, 17)

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

N/A

(Ref. 17)

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

N/A

(Ref. 17)

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

No

Population Within 2-Mile Radius

20,000

(Ref. 17)

Buildings Within 7-Mile Radius

+700

(Ref. 17)

DIRECT CONTACT

'I OBSERVED INCIDENT

Date, location, and pertinent details of incident:

N/A

* * *

2 ACCESSIBILITY

Describe type of barrier(s):

Site is completely fenced in.

(Ref. 17)

* * *

3 CONTAINMENT

Type of containment, if applicable:

Waste is inaccessible to direct contact by the public.

(Ref. 17)

* * *

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Heavy metals: Cr. Cu, Pb, Zn, Fe, Ni

(Ref. 2, 4)

Compound with highest score:

Heavy metals

5 TARGETS

Population within one-mile radius

5000

(Ref. 17)

Distance to critical habitat (of endangered species)

>1 mile

(Ref. 13)

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5.4 EPA PRELIMINARY ASSESSMENT (FORM 2070-12)

POTE	NTIAL HAZAR	DOUS	WASTE SIT	E	I. IDENTIF	
SEPA SARY	PRELIMINARY ASSESSMENT O1 STATE O2 SITE NUMBER NY 9/50 2 2					
PART1-S	SITE INFORMAT	TION AN	D ASSESSM	MENT	[14/]	773322
II. SITE NAME AND LOCATION						
D1 SITE NAME (Logal samman, or descriptive name of site)				R SPECIFIC LOCATION	IDENTIFIER	
ERNST STEEL	İ	174	6 WALL	DOU HIVE		
03 CITY		04 STATE	05 ZIP CODE			07COUNTY 08 CONG CODE DIST
BUFFALO		N.	14240	ERIE		
09 COORDINATES LATITUDE LONGII 42°54′37″ 018 46	TUDE					
10 DIRECTIONS TO SITE (Stating from nearest quake road)						
WALDED WEDLE BAST FROM	1 BUFFALL) AP	PROXIMATE	21 15 M	سلاا	
EAST OF IUTERSECTION WITH -	HARLEM , O	NLE	FT			
III. RESPONSIBLE PARTIES						
01 OWNER IF Inspersit		02 STREET	(Business, manny,	resetted		
ELNST STEEL CORPORATION			Box			
TOSATY			05 ZIP CODE		NUMBER	
BUFFALD		M		17161894		
D7 OPERATOR (It known and different from owner)			(Business, making.			
SIME AS ABOVE						
OP CITY		10 STATE	11 ZIP CODE	12 TELEPHONE	NUMBER	
				()		
13 TYPE OF OWNERSHIP (Chock ene)	1		<u> </u>			
A. PRIVATE D B. FEDERAL:	(Aponcy name)		. C. STAT	TE D.COUNTY	G E. MUN	NICIPAL
F. OTHER:(Soechy)		G. UNKNOWN _				
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check of that apply)						
□ A. RCRA 3001 DATE RECEIVED:	B. UNCONTROLL	ED WAST	SITE ICERCIA 10	ose DATE RECEIV	ED:	Y YEAR OL ONE
IV. CHARACTERIZATION OF POTENTIAL HAZARD						
O1 ON SITE INSPECTION OYES DATE 9,283 DATE 0 A. EPI	ine epply)	CONTRA	CTOR C	C. STATE	C D OTHER	CONTRACTOR
YES DATE HONTH DAY YEAR DELO	CAL HEALTH OFFI	CIAL C	F. OTHER:		(Specify)	
CONTRA	CTOR NAME(S):	NUS	COKPO	KATION	(Specify)	
OZ SITE STATUS (Cneck ane)	03 YEARS OF OPERA	TION	199			
☐ A. ACTIVE 対 B. INACTIVE ☐ C. UNKNOWN		195 S EGINNING YE		IG YEAR	□ NNKNOM	•
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, O			······································			
CTCT						
. STEEL SCHAP, IRON YO	E DUST,	PAIN	T SLU	DGE, ME	IML S.	770 7003
						i
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR	POPULATION					
TEALS IN METALSHAPPLE AND PHINT CLUBSE.						
AMOUNTS DIKNOWN						
V. PRIORITY ASSESSMENT						
O1 PRIORITY FOR INSPECTION (Check one, if high or medium at checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)						
A. HIGH S. MEDIUM C. LOW D. NONE (Inspection required) (Inspection reported) (Inspection form)						
VI. INFORMATION AVAILABLE FROM						*
01 CONTACT	02 OF (Agency/Organia	aten)				03 TELEPHONE NUMBER
PEDRO FIERKO	RECRA	ENVI	RONMER	UTAL INC		1716 1833 - 8203
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY		ANIZATION	07 TELEPHO	NE NUMBER	OS DATE
The MOTE IN MARKET		REV	A	17/618	33-8203	MONTH DAY YEAR

					T	
	POTENTIAL HAZARDOUS WASTE SITE				I. IDENTIFICATI	
SEPA	PRELIMINARY ASSESSMENT			OI STATE OZ SITEN	O Z Z	
		PART 2 - WASTE INFORMATION				
LWASTE STATES, QUANTITIES, A	ND CHARACTER	ISTICS				
PHYSICAL STATES (Creek of that about	02 WASTE QUANT	ITY AT SITE	1	ERISTICS (Check of that apply		
A SOLIO C E SLURRY	must be	maependent)	E A TOXIC	E SOLUBLE		
S POWDER, FINES L F LIQUID	TONS .		E C RADIOA	CTIVE G FLAMMA	BLE CK REACTIN	/E
D OTHER	CUBIC YARDS	UNKNOWN	PERSIST	TENT L H IGNITABL	M NOT AP	
(Specify)	NO OF DRUMS					
WASTE TYPE						
TEGORY SUBSTANCE	VAME	01 GROSS AMOUNT	02 UNIT OF MEASURE			
SLU SLUDGE		UNKNOWN		DRIED PA	INT SLUD	G &
OLW OILY WASTE						
SOL SOLVENTS						
PSD PESTICIDES						
OCC OTHER ORGANIC C	HEMICALS					
IOC INORGANIC CHEMIC	CALS					
ACD ACIDS						
BAS BASES		<u> </u>				
MES HEAVY METALS		UNKNOWN	L	METAL STAVE	NSS FRON.	XIDE DUST
IV. HAZARDOUS SUBSTANCES 1500A	poendis for mast frequen	ny case CAS Numbers)	·			M MEASING OF
DI CATEGORY 02 SUBSTANCE	IAME	03 CAS NUMBER	04 STORAGE/DISF	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
CAKASAN					 	
						<u> </u>
V. FEEDSTOCKS (See Appendix for CAS Num	persi	1	<u> </u>			
	CK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOO	K NAME	02 CAS NUMBER
TO THE STATE OF TH		i	FDS			
		1				,
FDS N/A			FDS			
			FDS FDS			
FDS N/A						

NVS 32 PERMIT APPLICATION 1978

NYS TROUSTS INC WASTE SIEJEY 19"0

NUS SITE REPORT, 1983 NYSOEC SITE MERICE 162

SITTE MRIFILE , 1983

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40		 $\overline{}$

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

1. IDENTIFICATION

01 STATE 02 SITE NUMBER

NV 9/50 Z 2

PART 3 - DESCRIPTION OF H	AZARDOUS CONDITIONS AND INCIDENTS	$\sim 10^{\circ}$	75022
II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 2 A GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	☐ ALLEGED
POTENITIAL EXISTS BECAUSE	OF ELEVATED HEAVY MET	TAL 5	
	SURFACE NATER (Cr.		E,N,)
01 Ø 8. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	02 YOBSERVED (DATE 4/27/82) 04 NARRATIVE DESCRIPTION	POTENTIAL	ALLEGED
NYSDEC FOUND ECEVATED	HEAVY METALS	j 5/TE	~- ~ \$
AND SURFACE WHITER	(Cr, Cu, Pb, Fe, N, Zn)		
01 D C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED.	02 C OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	POTENTIAL	☐ ALLEGED
NONE LIKELY			
01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED.	02 © OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	D POTENTIAL	□ ALLEGED
NONE LIKELY			
01 TE. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED.	02 TOBSERVED (DATE	□ POTENTIAL	☐ ALLEGED
UNKNOWN			
01 DEF. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: UNKNOWN (Acres)	02 Ø OBSERVED (DATE 4/27/0 2) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	ALLEGED
NYSDEC FOUND ELEVATED	-EAVY METALS IN SITE	20,45	
(Cr, Cu, Pb, F	e, N1, Z2		
01 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	ALLEGED
NONE LIKELY			
01 C H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL .	☐ ALLEGED
NONE LIKELY			
01 🗆 I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	D ALLEGED
MORE LINERY	·		

	POTENTIAL HA	ZARDOUS WASTES	ITE	I. IDENTIFICA	TION
SEPA	PRELIMIN	ARY ASSESSMENT		OI STATE 02 SIT	E NUMBER
PARI 3 ·		ARDOUS CONDITIONS	AND INCIDENTS		
HAZARDOUS CONDITIONS AND I	NCIDENTS (Continued)			-	
1 D J DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION		02 OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
NONE OBSER	ED				
1 D K. DAMAGE TO FAUNA 4 NARRATIVE DESCRIPTION (INCAIDE NAME)	HS) of SB0C(PE)	02 OBSERVED (DATE:		D POTENTIAL	ALLEGED
None Jesepa	ė D				
L. CONTAMINATION OF FOOD CH A NARRATIVE DESCRIPTION	AIN	02 OBSERVED (DATE)	D POTENTIAL	□ ALLEGED
UNKNOWN					
M. UNSTABLE CONTAINMENT OF	WASTES	02 OSSERVED (DATE: 9	128/83)	- POTENȚIAL	() ALLEGED
POPULATION POTENTIALLY AFFECT		04 NARRATIVE DESCRIPTION	N		
NO CONTAINEN	AMPLIANCE .				
C N. DAMAGE TO OFFSITE PROPER	ITY	02 OBSERVED (DATE:)	D POTENTIAL	O ALLEGED
UNKNOWN			••	• •••	
O. CONTAMINATION OF SEWERS	STORM DRAINS, WWTPs	02 C OBSERVED (DATE:)	O POTENTIAL	O ALLEGED
UNKNOWN					
P. ILLEGAL/UNAUTHORIZED DUM	PING	02 OBSERVED (DATE:	1/28/83)	POTENTIAL	ALLEGED
NUS SITE INV	ESTIGATORS	OBSEKUED "	ALMKGE	NUMBER"	OF
DRUMS IN TH	e wooded ne	ed of the Si	TE. MOST	AMMERIED	EMINTY
DESCRIPTION OF ANY OTHER KNOW	VN, POTENTIAL, OR ALLEGI	ED HAZARDS			
UMENDEN					
TOTAL POPULATION POTENTIAL	LY ASSECTED: UNI	rnoun			
COMMENTS					
<u> </u>					
			•		
					· · ·
SOURCES OF INFORMATION (Can	specific references, e. g., state Nes, st	ample analysis, reports)			
NUS STE INSPEC	712. 9/23, 3	3	•		
NUCCES L'EC PROF		• • .			
ECBER 5 TE PRIX	166 . 1423			•	

5.5 EPA SITE INSPECTION REPORT (FORM 2070-13)

POTENTIAL HAZARDOUS WASTE SITE					[1.1]	DENTIFICAT	TION
SEPA	101	SITE INSPEC			21	STATE 02 SIT	ENUMBER
VEIN	PART 1 - SIT	E LOCATION AN) INSPE	CTION INFORM	ATION L	V) [7]	<u> </u>
II. SITE NAME AND LOC	ATION						
O1 SITE NAME (Legal, common, or			02 STRE	ET, ROUTE NO., OR SP	PECIFIC LOCATION IDENT	TIFIER	
	EZ CORPORATION	<u> </u>		746 WAL	DEN AVE		lezon med on cove
BUFFALC			NY	L US ZIP CODE	ELIE		07COUNTY 08 CONG CODE DIST
9 COORDINATES 4 2º 54'37".	078 46 18.	10 TYPE OF OWNERSH A. PRIVATE F. OTHER			C. STATE D. CO	OUNTY DE	. MUNICIPAL
III. INSPECTION INFORM							
01 DATE OF INSPECTION 1 24 86 MONTH DAY YEAR				1 1983 AR ENDING YEAR		NOWN	
04 AGENCY PERFORMING INS							
	CONTRACTOR RECEAUT	Name of firm) RESEARCH INC	□ C.M □ G.O	UNICIPAL D.M THER	UNICIPAL CONTRACT	TOR	(Name of fam)
05 CHIEF INSPECTOR		06 TITLE			07 ORGANIZATION		TELEPHONE NO.
SHELDON	S. NOZIK	ENVIRONI	MENTA	L SCIENTIS	T RECRA	107	14833-8203
09 OTHER INSPECTORS		10 TITLE			11 ORGANIZATION	121	ELEPHONE NO.
ANDRE J	LAPRES	STAFF	S EOL	0G15T	RECRA	17	161833-8203
						()
						()
						(}
						()
13 SITE REPRESENTATIVES IN	TERVIEWED	14 TITLE		15ADDRESS /280 MA/A	v STREET	1 -	TELEPHONE NO
FRANK E	+KNST	VICE PREST	SENT	BUFFALO	NEWYORK	7-239 W	16) 895 SOUD
					nuano-no.	()
						()
						()
						().
			·			. ()
17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER COND					
E PERMISSION U WARRANT	9150 HIM	PARTLY	CLU	ひるタ ユ	2° F		
IV. INFORMATION AVAIL	LABLE FROM	Too os				J	I FOR ONE NO
PEDRO F	たべょつ	DECRA EN		NMENTAL	1,1V C	1	LEPHONE NO. 1833-8203
04 PERSON RESPONSIBLE FO		05 AGENCY	06 ORG	GANIZATION	07 TELEPHONE NO.	08 DA	ΤĒ
THOMAS P	MAPRE		RECK	<i>'</i>	10 8 833-820	3 -	2 17 86

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10	亡	H	4

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

	IFICATION
01 STATE	02 SITE NUMBER
	915022

VOL			PART 2 - WAST	TE INFORMATIO	N	$\lfloor N \rangle + 9/5$	<u> </u>
II. WASTE S	STATES, QUANTITIES, AN	ND CHARACTER	IISTICS				
	STATES (Check all that apply)	02 WASTE QUANT	TITY AT SITE	03 WASTE CHARACT	TERISTICS (Check an that i	apply)	
X A SOLID	☐ E. SLURRY		of waste quantifies a maepengent)	MA TOXIC DE SOLUBLE DE HIGHLY VOLATILE			
B B POWDE	ER, FINES L) F. LIQUID	TONS .		☐ B CORRO	ACTIVE 5 G FLAN	MABLE G K REACT	IVE
•		CUBIC YARDS	UNKNOWN	D PERSIS	STENT E H IGNIT		
D OTHER	(Specify)	NO OF DRUMS					
III. WASTE T	ГҮРЕ						
CATEGORY	SUBSTANCE N	JAME	01 GROSS AMOUNT	02 UNIT OF MEASURE			
SLU	SLUDGE		UNKNOWN		DRIED PA	INT SLUDGE	
OLW	OILY WASTE						
SOL	SOLVENTS						
PSD `	PESTICIDES						
occ	OTHER ORGANIC CH	HEMICALS					
юс	INORGANIC CHEMIC	CALS					
ACD	ACIDS						
BAS	BASES						
MES	HEAVY METALS		UNKNOWN		METAL SA	AVINGS, IRON	OXINE OUST
IV. HAZARD	OUS SUBSTANCES (See AD	ppendix for most frequen	illy cred CAS Numbers)				
01 CATEGORY	02 SUBSTANCE N	IAME	03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	UNKNOWN	,					
			•				
							
			+				
			+	†			
				 			
							1
						1 .	+
	<u> </u>			<u> </u>			
	OCKS (See Appendix for CAS Numb				T 0, 5550		T 22 22 22 22 22 22 22 22 22 22 22 22 22
CATEGORY		CK NAME	02 CAS NUMBER	CATEGORY	UI FEEDSI	TOCK NAME	02 CAS NUMBER
FDS	N/A			FDS			
FDS		·		FDS			
FDS				FDS	<u> </u>		
FDS			<u> </u>	FDS	<u></u>		1
VI. SOURCE	S OF INFORMATION (Cre) Specific references, e.g)., state files, sample analysis.				
	US SITE					PERMIT APPLI	• •
\sim	SDEC SITE	PROFICE	179 L	NYS	INDUSTRIAL	WASTE SUPUE	V 1178
€ (*	DEP SITE	1916 67-16E	£ /703			17 7	•

\$EPA

POTENTIAL HAZARDOUS WASTE SITE SITE SITE INSPECTION REPORT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY 915022

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

PART 3 - DESCRIPTION OF HA	AZARDOUS CONDITIONS AND INCIDENT	S CCC 1
IL HAZARDOUS CONDITIONS AND INCIDENTS		
01 🗵 A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL ☐ ALLEGED
POTENTIAL EXISTS BECA	USE OF ECEVATED	HEAVY METALS
IN SITE SOICS AND	SUPPACE WATER (CA.	Co. Pb, Ni, Zn, Fe)
01 Ø B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 X OBSERVED (DATE: 4/27/82) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL ☐ ALLEGED
NYSDEC FOUND ELEUA		
SOIKS AND SORPACE	WATER (Cr.Cu, Pb, N., Za	$(f\epsilon)$
01 G. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	D POTENTIAL DALLEGED
NONE LIKELY		
01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL ☐ ALLEGED
NONE LIKELY		
01 DE. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL ☐ ALLEGED
UNKNOWN		
01 F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: (Acres)	02 OBSERVED (DATE: 4/27/22) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL ☐ ALLEGED
NYSDEC FOUND ELEVATED	HEAVY METALS (Cr. Cu	PEN FE, Zn) IN
SITE SOILS AND SUR	FACE WATER	
01 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL ☐ ALLEGED
MONE LIKELY	•	
01 H. WORKER EXPOSURE/INJURY O3 WORKERS POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL □ ALLEGED
NONE LIKELY		
01 I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL □ ALLEGED
NUNE		

ŞEPA PAI	O1 STATE 02	1. IDENTIFICATION 01 STATE 02 SITE NUMBER NY 9/5022		
I. HAZARDOUS CONDITIONS	AND INCIDENTS (Continued	,		
01 [] J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION		02 DOBSERVED (DATE)	POTENTIAL	☐ ALLEGED
NONE O	BSERVED			
01 K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Inc.)	luge name(s) of species)	02 OBSERVED (DATE)	D POTENTIAL	□ ALLEGED
NONE C	BSERVED			
1 D L. CONTAMINATION OF FOR	OD CHAIN	02 OBSERVED (DATE)	□ POTENTIAL	□ ALLEGED
UNKNOW	N			
1 T.M. UNSTABLE CONTAINME (Spits/RunoN/Standing bounds, Le	saking drume)	02 OBSERVED (DATE. 1/24/86)	DIPOTENTIAL	□ ALLEGED
3 POPULATION POTENTIALLY AF		O4 MARKATIVE DEGUM FROM		
1 D. N. DAMAGE TO OFFSITE PE 4 NARRATIVE DESCRIPTION	ROPERTY	02 🗆 OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
UNKNO	WN			
1 O. CONTAMINATION OF SE 4 NARRATIVE DESCRIPTION	WERS, STORM DRAINS, W	WTP8 02 OBSERVED (DATE:)	□ POTENTIAL	☐ ALLEGED
UNKNOW	WN			
P. ILLEGAL/UNAUTHORIZE	D DUMPING	02 0 OBSERVED (DATE: 1/24/86_)	POTENTIAL	☐ ALLEGED
EMPTY RU.	STED DRUMS	SCATTERED AROUND	SITE AR	FA
5 DESCRIPTION OF ANY OTHER	R KNOWN, POTENTIAL, OR	ALLEGED HAZAROS		
UNKNOW	A J			

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

NUS SITE UISIT 9/28/82 NYSDEC SITE PROFILE 1982 ECDEP SITE PROFILE 1983 RECRA RESEARCH SITE VISIT 1/24/86

IV. COMMENTS

	POTENTIA	L HAZAI	RDOUS WAS	STE SITE		DENTIFICATION
ŞEPA	70121117		PECTION	7120112	1	STATE 02 SITE NUMBER
VLIA	PART 4 - PERMI	T AND DE	SCRIPTIVE II	NFORMATION	1	NY 915022
II. PERMIT INFORMATION						
01 TYPE OF PERMIT ISSUED (Check of that apply)	02 PERMIT NUMBER	03 DATE	SSUED 04 EXPI	RATION DATE 05 CON	MENTS	
☐ A. NPDES		İ				
B. UIC						
C. AIR						
D. RCRA		1				
☐ E. RCRA INTERIM STATUS						
☐ F. SPCC PLAN					***************************************	
☐ G. STATE (Specify)					······································	
H. LOCAL (Specify)						
□ I. OTHER (Specify)						
J. NONE						
III. SITE DESCRIPTION						
01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT 03 UNIT C	F MEASURE	04 TREATMEN	(Check all that apply)		05 OTHER
A. SURFACE IMPOUNDMENT			A. INCENE	RATION		
Ř B. PILES	UNKNOWN		B. UNDER	ROUND INJECTION		A. BUILDINGS ON SITE
C. DRUMS, ABOVE GROUND	-		C. CHEMIC	AL/PHYSICAL		,
D. TANK, ABOVE GROUND	-		D. BIOLOG	ICAL		
☐ E. TANK, BELOW GROUND			☐ E. WASTE	OIL PROCESSING		06 AREA OF SITE
F. LANDFILL	UNKNOWN		☐ F. SOLVENT RECOVERY			2 //
G. LANDFARM			G. OTHER	RECYCLING/RECOV	ERY	3-4 NACE
☐ H. OPEN DUMP			☐ H. OTHER			
I. OTHER(Specify)				(Specify)		
D7 COMMENTS						<u> </u>
ON-SITE DISPO	SAL OF STE	.	CHALLIALA		٨٥	O TRAIL
OXIAE			111107106	13/8EL	ORILL.	INGS, + KON
UNIBE D	UST, DRIED PA	41NT	56006	EAND	PCAN	T WASH
IV. CONTAINMENT DI CONTAINMENT OF WASTES (Check one)						
☐ A. ADEQUATE, SECURE	☐ B. MODERATE	X C. II	IADEQUATE, PO	OR D	INSECUR	E, UNSOUND, DANGEROUS
22 DESCRIPTION OF DRUMS, DIKING, LINERS	· ·					
RUSTED D	RUMS SCAT	TERED	AROUR	O SITE		
						•
V. ACCESSIBILITY						
01 WASTE EASILY ACCESSIBLE: Y	ES NO					
02 COMMENTS						
SITE IS COME	LETELY FENC	ED W	TH LO	cked G	ATE	

NUS

SITE REPORT 9/28/83

RECRA RESEARCH, INC. SITE VISIT 1/24/86 NYSDEC SITE PROFILE 1982

I. IDENTIFICATION

SEPA	POTENTIAL HAZARDOUS WAS IE SITE O1 STATE O2 SITE NUMBER					3		
WEITH	SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA							
II. DRINKING WATER SUPPLY								
01 TYPE OF DRINKING SUPPLY (Cirect as applicable)		02 STATUS				03 D	STANCE TO SITE	
SURFACE	WELL	ENDANGERI	ED AFFE	CTED	MONITORED	,,,,	/0 ,_,	
COMMUNITY A. X	8. 🗆	A , 🗆	B . (C. 🗆	A	{(MI	
NON-COMMUNITY C.	D. 🗆	D. 🗆	E. 1	<u> </u>	F. 🗆	B	(mi)
III. GROUNDWATER								
01 GROUNDWATER USE IN VICINITY (Check A. ONLY SOURCE FOR DRINKING	B. DRINKING (Other sources evaluate		/ ILm	MMERCIAL,	INDUSTRIAL, IRRIGA ces avadabej	TION []	D. NOT USED, UNUS	SEABLE
	COMMERCIAL, INI	DUSTRIAL, IRRIGATIO	N 					
02 POPULATION SERVED BY GROUND WA	TER O	-	03 DISTANCE	TO NEARES	ST DRINKING WATER	WELL	<u> </u>)
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GRO	UNDWATER FLOW	06 DEPTH TO		07 POTENTIAL YIEL	ا ما	08 SOLE SOURCE A	OUIFER
0.5 - 2 (ft)	UNKNO	wN_	N/		N/A	_ (gpd)	□ YES .8	NO
09 DESCRIPTION OF WELLS (Inchorg useage	, depth, and location relative to p	opulation and buildings)	<u></u>					
No WELLS 1	N USE 1	BENTIFI	ε Δ					
O RECHARGE AREA			11 DISCHARG	E AREA				
☐ YES COMMENTS		:	☐ YES	COMMENT	rs		•	
			<u> </u>					
V. SURFACE WATER								
A. RESERVOIR, RECREATION DRINKING WATER SOURCE		N, ECONOMICALLY T RESOURCES	' □ c . c	OMMERCIA	AL, INDUSTRIAL	□ D .	NOT CURRENTLY	USED
2 AFFECTED/POTENTIALLY AFFECTED B	ODIES OF WATER							
NAME:					AFFECTED	1	DISTANCE TO SIT	E
SCAJA QUADA	CREEK					8	OO FEET	(max
<u>3611011 QUABA</u>	CRECR		<u> </u>		0			
					0			(mi)
/. DEMOGRAPHIC AND PROPERT	Y INFORMATION			***************************************			-	
01 TOTAL POPULATION WITHIN				02	DISTANCE TO NEAR	EST POPUL	ATION	
ONE (1) MILE OF SITE TV A. 5.000 NO. OF PERSONS	NO (2) MILES OF SITE 3. 20,000 NO. OF PERSONS	c. <u>- </u>	3) MILES OF S 40000 10. OF PERSONS	TE .	.,	< 0.1	(mi)	•
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 04 DISTANCE TO NEAREST OFF-SITE BUILDING								
> 700					<0.1	(m	n	
JS POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinary of site, e.g., rural, village, densely populated urban area)								
SITE IS LOCATED IN MEDIUM DENSITY URBAN AREA								
	RESIDENT							
INDUSTR	IAL MIX	,	1000	·117 C	7.00			

\$EPA	SITE INSPEC	RDOUS WASTE SITE CTION REPORT IIC, AND ENVIRONMENTAL DATA	I. IDENTIFICATION OF STATE OF SITE NUMBER NY 9/502 2
VI. ENVIRONMENTAL INFORM	ATION		
O1 PERMEABILITY OF UNSATURATED	ZONE (Check one)		
□ A. 10 ⁻⁶ – 10	-8 cm/sec	C. 10 ⁻⁴ − 10 ⁻³ cm/sec ☐ D. GREATER	THAN 10 ⁻³ cm/sec
O2 PERMEABILITY OF BEDROCK (Check A. IMPERI (Less than	. ,	LE C. RELATIVELY PERMEABLE D.	VERY PERMEABLE (Greater than 10 ⁻² crivsec)
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE UNKNOWN (H)	05 SOIL DH <6.5	
06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL 2./ (in)	OB SLOPE SITE SLOPE DIRECTION OF SITE S	SLOPE TERRAIN AVERAGE SLOPE
09 FLOOD POTENTIAL SITE IS IN YEAR FLO	OODPLAIN 10 N/A SITE IS ON BARRI	ER ISLAND, COASTAL HIGH HAZARD AREA,	, RIVERINE FLOODWAY
11 DISTANCE TO WETLANDS (5 acre minin	oun)	12 DISTANCE TO CRITICAL HABITAT (of endangers	
ESTUARINE	OTHER	_ <i>N/</i> ,	<u>4</u> (mi)
A. <u>N/A</u> (mi)	B(mi)	ENDANGERED SPECIES: NO	
3 LAND USE IN VICINITY			
DISTANCE TO: COMMERCIAL/INDUSTR	RESIDENTIAL AREAS; NATION SIAL FORESTS, OR WILDLIF		CULTURAL LANDS ID AG LAND
A(mi)	в	(mi) c	_(mi) D. <u>> / 0</u> (mi)
DESCRIPTION OF SITE IN RELATION	TO SURROUNDING TOPOGRAPHY		
THE SITE	IS LOCATED IN AN	AREA WITH RELA	F,VELY
	TERRAIN. SCAUAQUI		
NORTHE	ASTERN PORTION	OPTHE SITE, RA	ILROAD TRACKS
	ATE SITE FROM		

/II. S URCES OF INFORMATION (Cre specific references, e.g., state lies, sample enelysis, reports)

NUS SITE REPORT 9/28/83 ECDEP SITE PROFILE 1983 ISGS TOPOGRAPHIC MAP BUFFALO NE QUADRANGCE 1967 HRS USERS MANUAL

SEPA	1		POTENTIAL HAZ/ SITE INSPE PART 6 - SAMPLE AI	CTION REPORT	-	I. IDENTIFICATION 101 STATE OZ SITE NUMBER NY 9/5022
II. SAMPLES TAK	(EN					
SAMPLE TYPE	·	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO			03 ESTIMATED DATE RESULTS AVAILAB
GROUNDWATER	l		No	SAMPLES	TAKEN	
SURFACE WATE	R					
WASTE						
AIR						
RUNOFF						
SPILL						
SOIL						
VEGETATION						
OTHER						
III. FIELD MEASU	REMENTS TA	KEN				
1 TYPE		02 COMMENTS				
		NO F	TECO MEN	COREMENT	5 TAK	€ N
:						
:						
IV. PHOTOGRAPH	S AND MAPS	3				
01 TYPE GROUI	ND AERIAL		02 IN CUSTODY OF			
D3 MAPS U YES YO NO	04 LOCATION	OF MAPS		(Name of org	engstion or individual)	
	ATA COLLE	CTED (Provide narrative d	*scription)			
					· · · · · · · · · · · · · · · · · · ·	
£ , =						

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

		POTENTIAL HAZ	I. IDENTIFICATION		
\$EPA	SITE INSPECTION REPORT		01 STATE O	01 STATE 02 SITE NUMBER NY 9/50 22	
		PART 7 - OW	NER INFORMATION		
II. CURRENT OWNER(S)			PARENT COMPANY (# applicable)		
OI NAME ERNST STEEL CORPOR	CATION	02 D+B NUMBER	OB NAME		09 D+8 NUMBER
O3 STREET ADDRESS (P O. Box, RFD #. etc.)	,,	04 SIC CODE	10 STREET ADDRESS (P.O. Box. RFD #, etc.)		11 SIC COD€
P.O Box 987					
os city		07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
BUFFALO	NY	14209			
O1 NAME		02 D+B NUMBER	OB NAME		09 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P O. Box, RFD #. etc.)		11 SIC COD€
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
O1 NAME		02 D+8 NUMBER	OB NAME		09 0+8 NUMBER
D3 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	!	11SIC COD€
DS CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
D1 NAME		02 D+B NUMBER	O8 NAME		
03 STREET ADDRESS (P. O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P O Box, RFD #, etc.)		11 SIC COD€
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	1 4 ZIP CODE
III. PREVIOUS OWNER(S) (List most recent fit			IV. REALTY OWNER(S) (# appicable: 8		
OI NAME UNKNOWN		02 D+8 NUMBER	01 NAME N/A		02 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	,	04 SIC COD€
05 CITY	OBSTATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
DI NAME		02 D+8 NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Bos, RFD P. BIC.)		02 D+8 NUMBER	01 NAME 03 STREET ADDRESS (P.O. Box, RFD #, etc.)		02 D+B NUMBER
03 STREET ADDRESS (P.O. Bos, RFD P. stc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD F. etc.)		04 SIC CODE
03 STREET ADDRESS (P.O. Bos. RFD P. etc.)		04 SIC CODE 07 ZIP CODE	03 STREET ADDRESS (P. O. Box. RFD F. etc.)	06 STATE	04 SIC CODE

SEPA	P	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 8 - OPERATOR INFORMATION			SITE NUMBER
II. CURRENT OPERATOR (Provide & different	Irom owner)		OPERATOR'S PARENT COMPAN	Y (II applicable)	
01 NAME		02 D+B NUMBER	10 NAME		11 D+B NUMBER
U.S. STEEL SUP	PLY		N/A		
03 STREET ADDRESS IP O Box. RFD . etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
13525 S. TORRANCE	= AVE	İ			
)5 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
CHICAGO	ILL	60633			
08 YEARS OF OPERATION 09 NAME OF OWNE	R			***************************************	
III. PREVIOUS OPERATOR(S) (List most recei	nt first; provide or	nly il different from owner)	PREVIOUS OPERATORS' PARENT	COMPANIES (#	appicable)
O1 NAME		02 D+B NUMBER	10 NAME N/A		11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
15 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 09 NAME OF OWNE	R DURING THI	S PERIOD			
01 NAME		02 D+B NUMBER	10 NAME		11 D+B NUMBER
3 STREET ADDRESS (P.O. Box. RFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box. RFD #, etc.)		13 SIC CODE
05 CITY	08 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
J8 YEARS OF OPERATION 09 NAME OF OWNE	R DURING TH	IS PERIOD			
)1 NAME		02 D+B NUMBER	10 NAME		11 D+B NUMBER

04 SIC CODE

06 STATE 07 ZIP CODE

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

14 CITY

13 SIC CODE

15 STATE 16 ZIP CODE

NUS SITE REPORT 9/28/63

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

09 NAME OF OWNER DURING THIS PERIOD

03 STREET ADDRESS (P.O. Box, RFD #, MC.)

18 YEARS OF OPERATION

J5 CITY

≎ EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 9 - GENERATOR/TRANSPORTER INFORMATION			1. IDENTIFICATION 01 STATE 02 SITE NUMBER NY 9 /5022	
II. ON-SITE GENERATOR					
OI NAME ERNST STEEL CORPO	2A74.90	02 D+8 NUMBER			
03 STREET ADDRESS (P.O. Box. RFD #, etc.)	Leite Ann	04 SIC CODE			
1746 WALDEN AJENUE					
OS CITY	08 STATE	07 ZIP CODE			
CHEEKTOWAGA	NY	14240			
III. OFF-SITE GENERATOR(S)	·	·			
OT NAME NONE		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. 8ox, RFD €, etc.)		04 SIC CODE
05 CITY	08 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	01 NAME		02 D+8 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	08 STATE	07 ZIP CODE
IV. TRANSPORTER(S)		<u> </u>			
01 NAME N/A		02 D+8 NUMBER	01 NAME		02 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	Q3 STREET ADDRESS (P.O. Box, RFD €, etc.)		04 SIC CODE
OS CITY	08 STATE	07 ZIP CODE	05 CITY	08 STATE	07 ZIP CODE
O1 NAME		02 D+B NUMBER	O1 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFO P. etc.)		04 SIC CODE

RECRA RESEARCY INC. SITE INVESTIGATION. 1/24/52

06 STATE 07 ZIP CODE

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

ŞEPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10-PAST RESPONSE ACTIVITIES		I. IDENTIFICATION O1 STATE O2 SITE NUMBER NY 9/5022
L PAST RESPONSE ACTIVITIES			
01 () A WATER SUPPLY CLOSED 04 DESCRIPTION NA	02 DATE		
01 DB. TEMPORARY WATER SUPPLY PROVID 04 DESCRIPTION W/A			
01 C. PERMANENT WATER SUPPLY PROVID 04 DESCRIPTION N/A			
01 CI D. SPILLED MATERIAL REMOVED 04 DESCRIPTION // /A	02 DATE		
01 C E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION W/A	02 DATE		
01 D F. WASTE REPACKAGED 04 DESCRIPTION	O2 DATE		
01 G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION N/A	O2 DATE		
01 D H. ON SITE BURIAL 04 DESCRIPTION W/,	02 DATE		
01 D I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION // //	02 DATE		
01 D.J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION N/A	02 DATE	03 AGENCY	
01 D K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 D L ENCAPSULATION 04 DESCRIPTION N / /	02 DATE	03 AGENCY	
01 D M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 D N. CUTOFF WALLS 04 DESCRIPTION	02 DATE		
01 □ 0. EMERGENCY DIKING/SURFACE WATER 04 DESCRIPTION			
01 © P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY	

02 DATE ___

01 C Q SUBSURFACE CUTOFF WALL

03 AGENCY

ŞEPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	L IDENTIFICATION O1 STATE O2 SITE NUMBER NY 9/5000
II PAST RESPONSE ACTIVITIES (Continued)		
01 ☐ R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 S. CAPPING/COVERING 04 DESCRIPTION // /-	02 DATE	03 AGENCY
01 □ T. BULK TANKAGE REPAIRED 04 DESCRIPTION N / A	02 DATE	03 AGENCY
01 U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 U. BOTTOM SEALED 04 DESCRIPTION // /A	02 DATE	03 AGENCY
01 □ W. GAS CONTROL 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 □ X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 O Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 □ Z. AREA EVACUATED 04 DESCRIPTION N / À	02 DATE	03 AGENCY
01 1. ACCESS TO SITE RESTRICTED	02 DATE	03 AGENCY

02 DATE

02 DATE ___

03 AGENCY_

03 AGENCY__

NONE

NA

01 ☐ 2. POPULATION RELOCATED 04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION

04 DESCRIPTION

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

ŞEPA

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

1. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY 915022

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION | YES

NO

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

6.0 ADEQUACY OF AVAILABLE DATA

In completing the Hazard Ranking Score (HRS), the Ernst Steel Corporation site was found to have a migration potential (S_m) score of 3.44. This S_m score was based on the information acquired through a review of available literature. During the completion of the HRS, several data inadequacies were encountered. Information needed to address these inadequacies would include the following:

- o subsurface information including depth to the water table and/or aquifer of concern, permeability of unconsolidated deposits, ground-water quality and groundwater flow direction.
- o site soil quality including background undisturbed soil levels.
- o sediment and surface water quality in the ditch leading to Scajaquada Creek and in Scajaquada Creek upstream and downstream of the ditch confluence.
- o site drainage pattern.

7.0 PROPOSED PHASE II WORK PLAN

This section outlines the recommended procedures and technical means by which a Phase II investigation may be conducted. Any work plan which is submitted to NYSDEC for conducting a Phase II type study must follow the guidelines established by NYSDEC and subsequently be approved by NYSDEC.

7.1 Project Objectives

The purpose and objective of this proposed Phase II investigation is to obtain a final HRS score for the site as defined under the auspices of the New York State Superfund program and assess concerns regarding past disposal practices. The site investigation proposed herein is designed to generate data for the above identified tasks. The scope of this investigation may include:

- o air monitoring
- o surface geophysics
- o test bore drilling
- o monitoring well installation
- o in-situ permeability testing
- o groundwater, leachate stream, surface water, and surface sediment sampling
- o surveying and mapping
- o chemical analytical testing
- o laboratory geotechnical testing
- o groundwater well survey
- o data analysis and reporting
- o characterizing the physical and chemical nature of the site

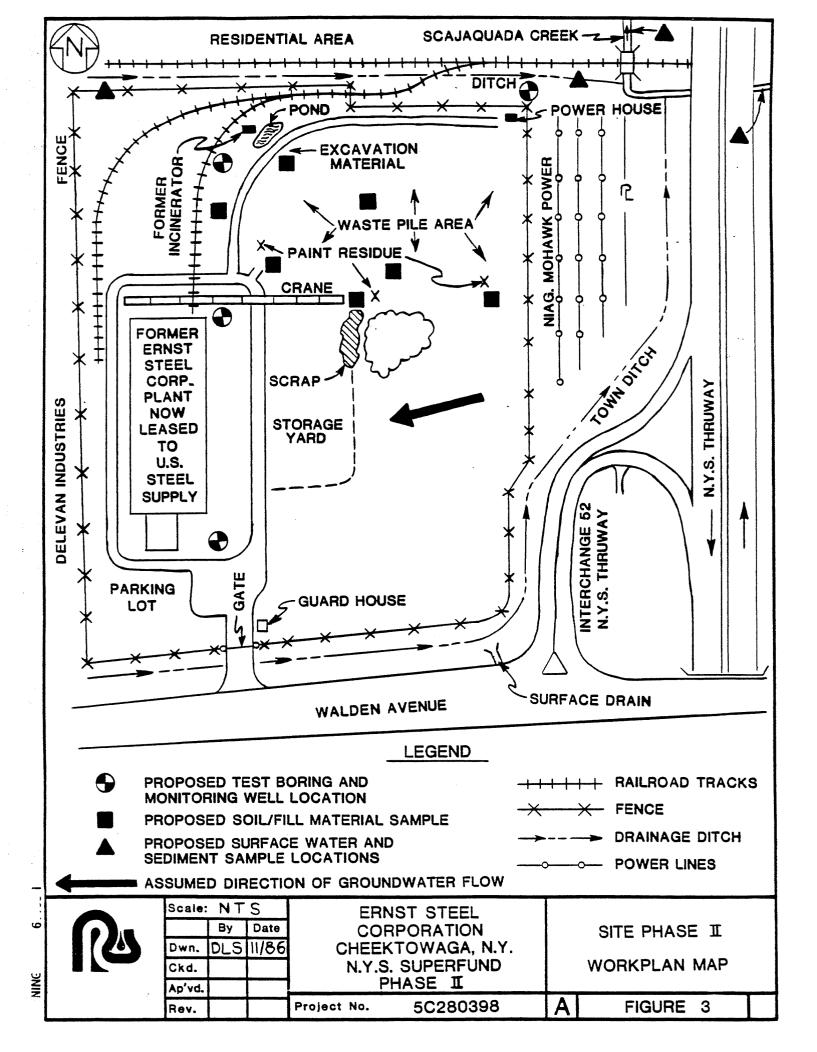
- o scoring the site under the Hazard Ranking System
- o reporting.

7.2 Scope of Work

7.2.1 Preliminary Sampling and Waste Characterization

The presence of hazardous wastes at the Ernst Steel site has not been confirmed. Records indicate on-site disposal of wastes from a steel fabricating operation included steel shavings, steel drillings, iron oxide dust, and dried paint sludge. Paint thinner used during this operation reportedly consisted of waste mineral spirits (Ref. 23). Prior to 1953, coal cinders from a railroad facility were disposed of on the area including the site. Sampling of site soils and surface water in 1982 indicated the presence of heavy metals. The sampling locations, however, are unknown and no background samples were taken.

Prior to a Phase II investigation at the site that would include monitoring well installation and groundwater testing, it is recommended that a preliminary sampling and waste characterization of the waste piles, paint residues, and incinerator ash be performed to determine if hazardous substances are present at the site. If hazardous substances are encountered at the site, the Phase II investigation outlined in the subsequent sections should be undertaken. Three shallow test borings should be excavated by hand auger in the area of waste piles (Figure 3). Borings should be excavated to a depth of five feet to ensure sufficient recovery. Each boring should be composited and analyzed for priority pollutant metals and scanned for organics (FID) and volatile halogenated organics. One of the boring composites should be analyzed for E.P. Toxicity metals.



Three surface (0-6") samples should be taken from the paint residues/red granular material, composited, and analyzed for E.P. Toxicity metals and scanned for organics (FID) and volatile halogenated organics. Similarly, two samples of incinerator ash should be composited and analyzed for the same parameters. Two composite background samples should also be collected from the site.

In addition to soil sampling, a geophysical survey should be conducted to define the limits of the fill area. The geophysical survey would also detect drums buried beneath the ground surface. The geophysical survey is described in Section 7.2.2.

7.2.2 Geophysical Survey

A geophysical survey will be conducted over the site where access and topography permit to define the vertical and horizontal extent of the fill material and establish the final locations for monitoring well installations. The geophysical survey will be conducted using Terrain Conductivity.

Terrain conductivity readings will be obtained using a Geonics Model EM 31 terrain conductivity meter. These readings will be taken on a grid system which will be established over the disposal area. The conductivity readings may serve to detect bedrock clusters of drums, tanks, cables, lateral fill variations, and contaminated groundwater plume geometry, if present.

All geophysical data and interpretations will be used to finalize the locations of proposed borings and monitoring wells. No borings or monitoring wells will be placed in the field until the final locations are determined by Recra in concurrence with NYSDEC. NYSDEC will be informed of any changes in boring and monitoring well locations, should they be necessary. However, based upon current information, it is envisioned that one monitoring well will be placed upgradient of the site, and three along the downgradient area of the site (Figure 3).

7.2.3 Test Borings

Four test borings will be advanced at the site. Based on a field review of the site, tentative locations for the borings will be selected by NYSDEC. Recommendations for the final locations will be based on the results of the geophysical survey. Final locations will be determined by Recra upon review of the geophysical data and interpretations.

Prior to initiating drilling activities, the drilling rig, augers, rods, split spoons, appurtenant equipment, well pipe and screens will be cleaned with steam. This cleaning procedure will also be used between each boring. These activities will be performed in a designated on-site decontamination area. Throughout and after the cleaning processes, direct contact between equipment and the ground surface will be avoided. Plastic sheeting and/or clean support structures will be used.

Test borings will be advanced with hollow stem augers, driven by truck mounted drilling equipment. During the drilling, an HNU photoionization detector will be used to monitor the gases exiting the hole. Auger cuttings will be contained in all downgradient borings. Soil samples will be collected using a two inch outside diameter split-barrel sampler advanced in accordance with the standard penetration test procedure (ASTM D-1586). The sample barrel(s) will be cleaned prior to each use by the following procedure:

- o initially cleaned of all foreign matter
- o washed with a detergent and water mixture
- o rinsed with potable water
- o washed with acetone
- o rinsed with distilled water
- o allowed to air dry.

An HNU detector will be used to monitor the gases from each sample as the split barrel sampler is opened. All samples will be placed in precleaned, teflon-lined screw cap glass jars. The cleaning of the sample jars will include:

- o soap wash
- o tap water rinse
- o acetone rinse (pesticide grade)
- orinse with copious quantities of deionized water (at least six rinsings) until no residual acetone is detected.

Samples will be delivered daily under chain of custody control to the Recra Environmental Laboratories in Tonawanda, New York. A composite

soil sample from each boring will be analyzed for priority pollutant metals and organics (Contract Laboratory Protocol), and PCBs. GC/MS procedures will include the identification and quantification of all peaks ten percent or greater than the nearest calibrating standard.

Split-spoon samples will be taken every five feet until the water table is reached unless there is a change in geologic material or overlying waste material is discovered through visual or HNU detection. Once encountered, continuous split-spoon sampling will be conducted through the shallow water bearing zone. Geologic classification of split-spoon samples will be performed and boring logs maintained by a Recrageologist.

At a minimum, each boring log will include:

- o date, test hole identification, and project identification
- o name of individual developing the log
- o name of driller and assistant(s)
- o drill make and model, auger size
- o identification of alternative drilling methods used and justification thereof (e.g. rotary drilling with a specific bit type to remove a sand plug from within the hollow stem augers)
- o depths recorded in feet and fractions thereof (tenths or inches), referenced to ground surface
- o standard penetration test (ASTM D-1586) blow counts
- o for samples, the length of the sample interval and the length of the sample recovered
- o the first encountered water table along with the method of determination, referenced to ground surface

- o drill and borehole characteristics
- o sequential stratigraphic boundaries.

Selected split-spoon samples obtained while sampling at five foot intervals or when a change in lithology has occurred will be analyzed for Atterberg limits and moisture content. Analysis of a selected split-spoon sample from the encountered water bearing material will be performed for grain size determination. In the event that the borehole/monitoring well must be left unattended prior to completion, the borehole/monitoring well will be properly secured to ensure its integrity.

7.2.4 Groundwater Monitoring and Sampling

Four monitoring wells will be installed at the location of the test borings. Wells will be constructed of 5-foot long, 2-inch I.D. threaded flushjointed PVC screen and riser casing. Well screens will be installed with the top of the well screen located approximately one foot above the encountered groundwater table, dependent upon the major geologic changes encountered. All installations will include a washed, graded, sand pack surrounding the screen and extending two feet above the screen top. A two-foot thick bentonite seal will be placed above the sand pack and the remaining annulus filled with bentonite/grout to within two feet of the ground surface. A four to six inch diameter steel casing with locking cap will be placed over each well and cemented in place.

Well development will be performed using a pump or bottom discharge bailer at each well no sooner than 48 hours after the well grouting has

been completed. Bailing will utilize pre-cleaned, dedicated galvanized steel bailers at each well. Pumping will utilize a surface peristaltic pump fitted with pre-cleaned, dedicated polyethylene tubing for each well.

Prior to water and sediment evacuation, static water level and well bottom measurements will be recorded at each well using an electric level sounder or fiberglass tape. These will be cleaned prior to and after each use. The well water/sediment volume will also be calculated.

Well evacuation will be supplemented by:

- o Temperature, pH, and specific conductance measurements
- o Evacuation volume measurement
- o Visual identification of water clarity and color
- o Visual identification of the physical characteristics of removed sediments

The development process will continue until a stabilization of pH, specific conductance, temperature, and clarity (goal of ≤ 100 turbidity units) of discharge is achieved.

The well development is designed to correct any clogging of the water-bearing formation which may occur as a side effect of the drilling, and remove any drilling water (if used) from the water table such that each well will yield water which is representative of the in-situ conditions. Static water level measurements will also be made following well development.

Groundwater sampling will be initiated one week after the well development has been completed. Each sample will be analyzed for priority pollutant metals and organics (Contract Laboratory Protocol), PCBs, hardness and specific conductance. GC/MS procedures will include the identification and quantification of all peaks 10 percent or greater than the nearest calibrating standard.

At each well location, initial static water level and well bottom measurements will be recorded using an electric level sounder and/or fiberglass tape which will be cleaned between each well. Well water will be evacuated prior to sample collection by bailing or pumping to dryness or removing a minimum of three equilibrated well water volumes. Precleaned, dedicated galvanized steel bailers will be used for sampling at each well.

Permeability testing of the newly installed monitoring wells will be conducted following sampling. Initial static water level measurements will be made in each well followed by the injection of a weighted slug of specific volume. An instantaneous head displacement associated with the slug volume will be created and the subsequent decline in water level will be measured with an electric water level sounder. Once head conditions reach a static state, the slug will be removed and a negative head condition will result relative to the initial static water level. The subsequent rise in water level will be measured with an electric water level sounder.

Data analysis will involve the determination of the coefficient of permeability. The analysis will utilize a technique provided by Harry R. Cedergren in Seepage, Drainage and Flow Nets, 2nd Edition, whereby the log of head ratio (dependent variable) is plotted with respect to elapsed time (independent variable). Data points for permeability determination are obtained from a linearization of this plot and utilized in an appropriate equation.

The testing will provide data on the permeability of the materials at the top of the water table. These values will subsequently be utilized for determining approximate flow rates within the saturated zone, and extrapolated to approximate permeability in the unsaturated zone as required in the scoring under the HRS. This data will be useful in assessing the rate of groundwater flow in this area and as data input in evaluating potential remedial alternatives if required.

7.2.5 Other Sampling

Sediment and surface water samples will be collected from the ditch along the north side of the site and from Scajaquada Creek (Figure 3). Samples will be collected in Scajaquada Creek upstream and downstream of the confluence with the ditch. Sediment and surface water samples will be analyzed according to the procedures outlined in Sections 7.2.2 and 7.2.3 of this report.

7.2.6 Air Monitoring

Air monitoring with an HNU photoionization detector will be performed as follows:

- o at one upwind and downwind location prior to any site work
- o during borings and monitoring well installations
- o for all split-spoon samples
- o for all surface soil and sediment samples
- o weather including wind direction and wind speed (estimate) will be recorded during sampling
- o measurements will be made within the normal breathing zone.

7.2.7 Surveying

A map will be prepared showing the location and appropriate elevations (ground surface, top of monitor well casing) for each boring sampling location, monitoring well installation, sampling locations (soil, surface water, sediment, air) and other key contour points as determined by Recra.

A licensed land surveyor will be used to establish the locations and elevations of each above-mentioned point, as follows:

- o Vertical Control Elevations (0.01') will be established for the ground surface at the well, the top of monitor well casing (T.C.), and at least one other permanent object in the vicinity of the boring and well. Elevations will be relative to a regional, local or project specific datum. USGS benchmarks will be used whenever available.
- o Horizontal Control Exploratory borings and monitor wells will be located by ties (location and distance) to at least two nearby permanent objects. USGS benchmarks will be used whenever available.

7.3 Quality Assurance and Quality Control

An overall Quality Assurance Program is essential for the production of high-quality analytical data. Such a program requires precise control of laboratory activities. For the Quality Assurance Program in effect at the Laboratories of Recra the reader is referred to a document previously submitted by Recra to NYSDEC, entitled, "Operation Manual - Field and Analytical Services."

Analytical testing performed as part of the Phase II study will follow Contract Laboratory Protocol.

7.4 Final Hazard Ranking System Score

Upon completion of all field work and laboratory analysis, the Final Hazard Ranking System score will be calculated per NYSDEC guidelines.

7.5 Phase II Report

Upon completion of the investigation, a Phase II report will be prepared in complete accordance with the NYSDEC's Phase II report format. The Phase II report will include a plot plan drawing showing the following:

- o groundwater gradient
- o topographic relief
- o sampling locations
- o physical parameters and major contaminants/concentrations identified for each sampling location
- o any contaminant plumes (based on geophysical and monitoring data).

Five copies of the draft final Phase II report and fifteen copies of the final Phase II report will be submitted.

7.6 Applicable Procedures and Standards

All work performed for this project, including but not necessarily limited to, borings, monitoring well installations, monitoring, sampling, surveying, chain of custody, sample preservation, sample extraction, sample analysis, and HRS scoring, will conform to all applicable standards, guidelines, and prescribed methods and practices of the U.S. Environmental Protection Agency (USEPA), NYSDEC, and other applicable regulatory agencies. Any changes or modifications in these specifications will require approval by NYSDEC.

7.7 Estimated Cost

The estimated cost of the preliminary sampling and waste characterization is based on the collection and analyses of three shallow boring composites, three paint residue samples, two incinerator ash composites, and two background composites.

Preliminary Sampling and Waste Characterization

\$ 6,069.00*

The estimated cost of the Phase II Work Plan is based on the placement of four monitoring wells in unconsolidated deposits at 30 feet below ground surface.

0	Subsurface Investigation	\$11,937.00
0	Analyses	23,778.00*
0	Engineering Evaluation and Report	8,000.00
0	Geophysics	5,000.00
		\$48,715.00

^{*}Prices includes Contract Laboratory Protocol for priority pollutant metals and/or organics. Prices will vary among contracted laboratories.

APPENDIX A

DATA SOURCES AND REFERENCES

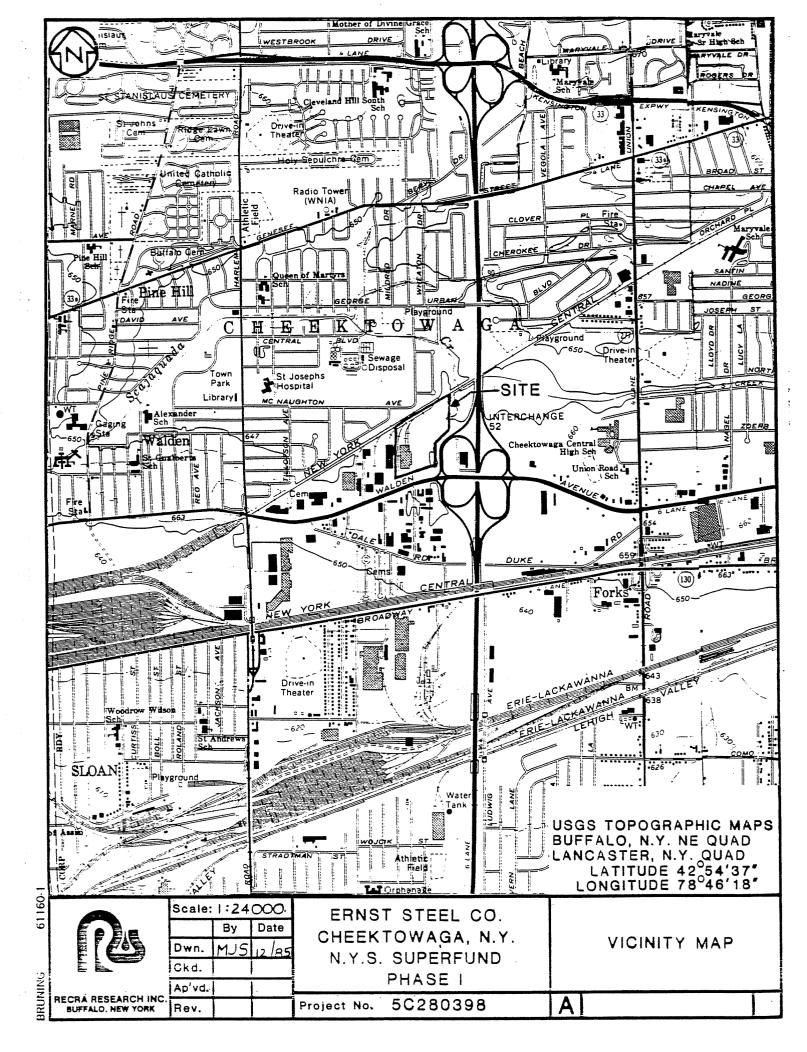
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- 1. U.S. Geological Survey Topographic Map, 7.5 Minute Series: Buffalo, NY NE Ouadrangle, 1965.
- 2. Site Profile: Ernst Steel (#915022). Erie County Department of Environment and Planning, Division of Environmental Control. December 1983.
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- 4. Site Profile: Ernst Steel. New York State Department of Environmental Conservation. April 27, 1982.
- 5. LaSalla, Jr., A. M. Ground-Water Resources of the Erie-Niagara Basin, New York; Prepared for the Erie-Niagara Basin Regional Water Resources Planning Board. 1968.
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- 7. General Soil Map and Interpretations, Erie County, New York. U.S. Department of Agriculture, Soil Conservation Service. May 1979.
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- 9. Uncontrolled Hazardous Waste Site Ranking System a Users Manual. EPA. June 10, 1982.
- 10. Preliminary Evaluation of Chemical Migration to Groundwater and the Niagara River from Selected Waste Disposal Sites. EPA (905/4-85-001). March 1985.
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- 12. New York State Water Laws. Bureau of National Affairs, Inc. Washington, D.C. November 29, 1985.
- 13. Letter from Gordon R. Batcheller, NYSDEC Region 9, Senior Wildlife Biologist to Sheldon S. Nozik, Recra Research, Inc. December 18, 1985.
- 14. Flood Hazard Boundary Map Panel 5 of 10, Town of Cheektowaga, Erie County, New York. Department of Housing and Urban Development, Federal Insurance Administration. April 8, 1983.
- 15. Letter of Documentation to Frank Ernst, Vice President of Ernst Steel Corporation from Sheldon S. Nozik, Recra Research, Inc. February 11, 1986.

- 16. Interoffice Memorandum to Peter Buechi from Lawrence Clare, NYSDEC Region 9. June 10, 1985.
- 17. Potential Hazardous Waste Site Assessment: Ernst Steel Corporation. NUS Corporation. October 17, 1983.
- 18. Letter to John Banaszak, NYSDEC Region 9, from Elmer L. Ernst, President Ernst Steel Corporation. May 1, 1979.
- 19. Memorandum to File from Lawrence Clare, NYSDEC Department of Solid and Hazardous Waste, Region 9. May 24, 1985.
- New York State Industrial Waste Survey: Ernst Steel Corporation. NYSDEC, Division of Solid Waste Management, Region 8. November 23, 1976.
- 21. NYSDEC Application for Approval to Operate a Solid Waste Management Facility. October 5, 1978.
- 22. Memorandum from Lawrence Clare to John Tygert, NYSDEC Region 9. June 13, 1986.
- 23. Letter and Field Report to Frank H. Ernst, Ernst Steel Corporation, from Cameron O'Connor, Erie County Department of Environment and Planning.

 August 11, 1986.

REFERENCE 1



REFERENCE 2

ERNST STEEL

1746 WALDEN AVENUE
CHEEKTOWAGA, NEW YORK

SITE #915022

Prepared by Erie County Dept. of Environment and Planning, December 1983

ERNST STEEL 1746 WALDEN AVENUE CHEEKTOWAGA, NEW YORK

The Interagency Task Force (IATF), in Volume III of Hazardous Waste Sites in New York State, reports that this company disposed of industrial wastes at the rear of their property. The IATF has assigned a B code to this site indicating that detailed chemical analysis and/or a hydrogeological potential for health and/or environmental impact is recommended.

BACKGROUND INFORMATION

Ernst Steel is a fabrication plant, responsible for the assembly of heavy industrial equipment. Waste materials produced in fabrication of steel equipment were landfilled on site in the past.

The IATF reports that plant waste from steel planning, drilling, welding fabrication and cleaning were generted. Ernst Steel reports that metal shavings, wood debris and iron dust (sic) (approximately 2600 lbs.//year) and dried paint sludge (250 gallons/year) were landfilled at the site.

In 1979, Ernst steel changed to a steel service center and landfilling operations ceased. The painting operation was discontinued at that time. It is now reported that the Town of Cheektowaga picks up refuse generated at the facility. Drill turnings are picked up by INS Scrap Processors for recycling. It is reported that no degreasers are used at the firm.

LOCATION

The site is located at 1746 Walden Avenue in Town of Cheektowaga. Railroad property lies north and west of the site, the New York State Thruway lies to the east (Exhibit 1).

AERIAL PHOTOGRAPHY

In 1951, Ernst Steel did not exist at this location. The area was essentially undeveloped with the exception of the railroad line and Thruway construction.

In 1959, the main building, storage areas and parking areas were complete. Railroad spurs ran from the plant to the mainline tracks.

Access roads ran from the back of the plant in a northeast direction. The main access road terminated in an area that appeared to be receiving fill (Exhibit 2). The fill areas were a uniform texture and light tone indicating either recent clean fill or fill materials less than a year old. It is probable that the filling activity is for property improvements as most of the northeast consists of freshwater wetlands.

In 1960, continued disturbance in the northeast portion was apparent. There was also disturbance as noted on Exhibit 2. A second building has been constructed on the west side of the original facility.

By 1965, it appears that much of the wetland areas located on the northeast portion of the property have been filled. Actual disturbance in this area has ceased. The configuration of the topography does not change in the 1969 or 1972 photos. Minor disturbance between the tracks located in back of the facility are apparent; however, due to the poor quality of the 1965, 1969, 1972 photos, the exact nature of the disposal could not be determined.

No large scale disposal, change in topography or lagoons were observed from the aerial photographs.

FIELD INSPECTIONS

No visual problems are associated with the site. No odors or leachate are noted.

SAMPLING

The New York State DEC took water and soil samples on April 27, 1982.

Three soil sample borings were taken as indicated on Exhibit 2. The soil borings were taken at a depth of 4.5 feet and analyzed for metals and Total Halogenic Organics. At sampling point 1 a surface soil sample and a water sample were also taken and analyzed.

The results (Exhbit 3) indicate elevated levels of cadmium, chromium, zinc in all four <u>soil</u> samples and lead in one sample. The surface <u>water</u> analyses indicated high concentration of zinc, lead and cadmium.

ENVIRONMENTAL PROFILE

SOILS AND BEDROCK

A report prepared by URS describes the soil in the area as silty and clayey soil with a pH of <6.5. Soil permeability is very slow.

The General Soil Map and Interpretation for Eri County prepared by the USDA Soil Conservation Service (1979) identifies the area as Urban land -Odessa soils. The Urban Land classification implies areas disturbed by development such as buildings, parking lots and roads. This soil would vary in degree of texture, structure and permeability. Undisturbed soil soils are formed in gravel and stone free lake laid sediments having a high clay content. The seasonal high water table is perched in the upper part of the subsoil.

There are soils in this series that are formed by end moraine development. These soils include both ablation and lodgement till, silty clay to sandy fill. The permeability is variable but generally greater than for associated ground moraine.

The formation generally occurs near waterways. The Quadernary Geology of New York (Niagara Sheet) indicates that an end moraine formation occurs adjacent to Scajaquada Creek. Consequently filling appears to have occurred in both the lake laid and moraine sediments.

Bedrock is limestone and reported to be at a depth of greater than 10 feet.

GROUNDWATER

URS reports that the depth of the natural watertable is perched to 0.5 to 2 feet below the suface.

The drinking water supply for this area is municipal with the source being Lake Erie. There are no known private groundwater drinking supplies.

SURFACE WATER

There are minor freshwater wetlands in the vicinity of the siie. The majority of these wetlands have been filled in. The site is drained by the surface water courses. Scajaquada Creek flows through the northeastern corner of the area and a tributary stream flows through the southwestern corner (See Exhibit 2).

GEOGRAPHIC DATA

Land use within a one (1) mile radius of the site is residential, commercial and industrial.

DIRECT CONTACT

Only employees of Ernst Steel would have direct contact with the former landfill site.

FIRE OR EXPLOSION POTENTIAL

None

HEALTH RISK

There is no evidence that the site represents an immediate threat to health.

DISCUSSION OF SITE

The high values for the various metals, cadmium, zinc and lead confirm the landfilling of paint sludges and metal filings.

The water sample, which was secured from a ponded (puddle) area on the former landfill, indicate high elevated levels of zinc, lead, and cadmium. Although no leachate was observed on site, materials from the site appear to be contaminating rain water that falls on the site. During periods of heavy rains, it is possible that this water could leave the site as runoff and contaminate surface drainage ways. There is, however, no analytical data to support such an assumption.

In the same vein, aerial photographs indicate disposal into freshwater wetlands. As wetlands do generally indicate a high (or seasonally high) water table, it is possible that contamination of groundwater in the unconsolidated strata could occur.

As the soils on the site area have a high percentage of clay and do not exhibit low pH (high reactivity) it is unlikely that contamination would flow vertically to the limestone bedrock and cause contamination of the deeper water bearing zones.

It has been confirmed that this site has received industrial wastes that might have a deletorious effect on the environment, however, it appears that, the landfill in itself, was a minor operation.

RECOMMENDATION

This site should be given low priority for further study.

A costly or generic sampling program should not be proposed in the near future.

Additional sampling may be warranted to determine if contamination runoff from the disposal reas is still occurring.

If so, capping the three (3) acre site with clay cover may resolve potential surface or groundwater problems.

As there is no environmentally sensitive area in the vicinity of the landfill, the groundwater is not used as a drinking water source, there are no health hazardous indicated and due to minor nature of the filling operation, environment degradation is minimal.

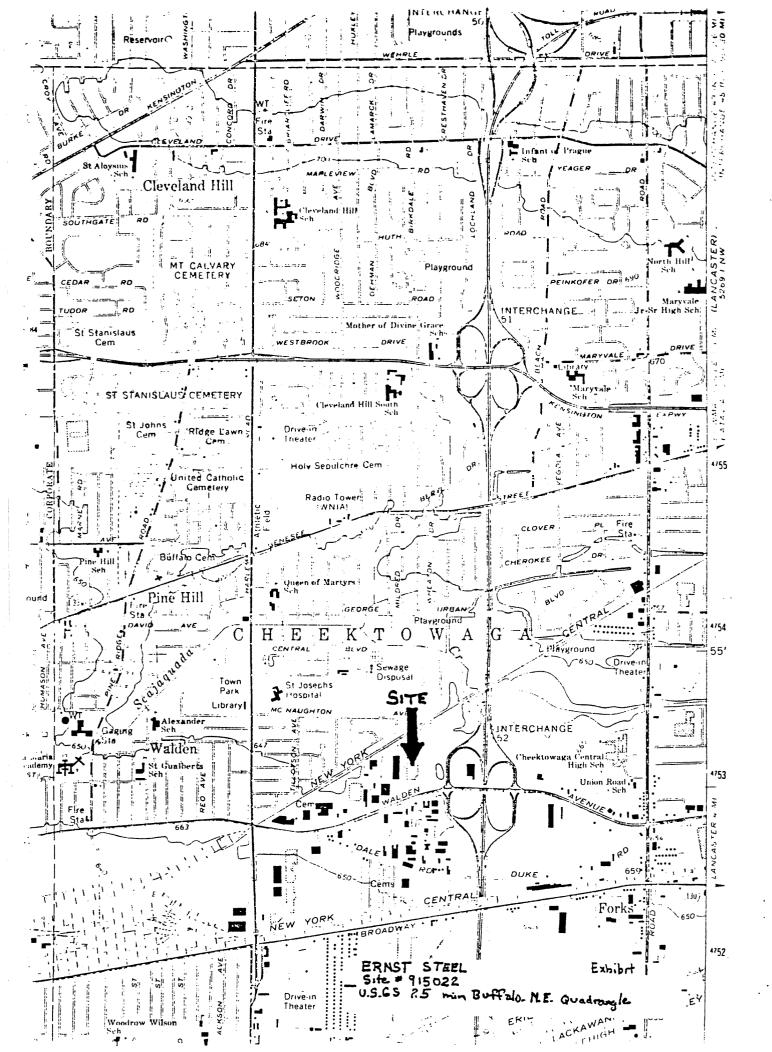
For subsequent transaction, the deed of the property should reflect past filling activities.

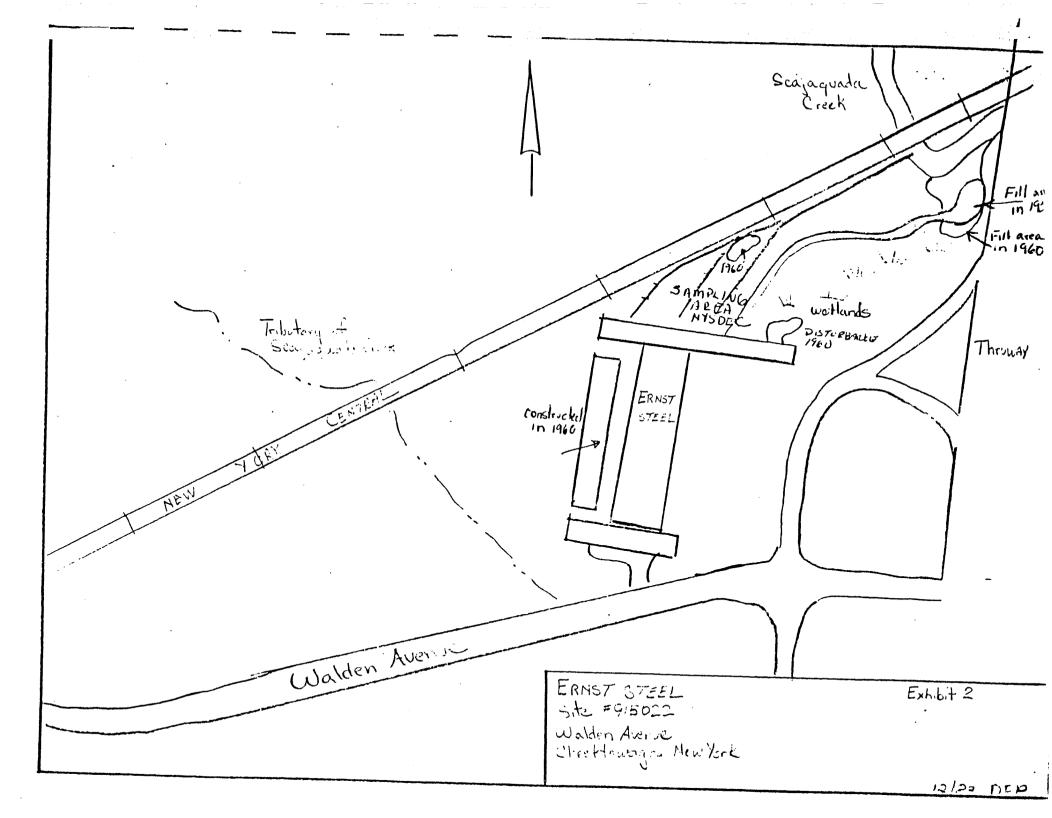
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		SAMPLE IDENTIFICATION STATION
OMPOUND	UNITS OF MEASURE	
	ug/l	45
Arsenic	mg/1	<0.01
eryllium	-	0.175
Cadmium	mg/l	0.054
hromium	mg/l	0.358
Copper	mg/l	170
ead	mg/l	4.4
Mercury	ug/l	
'ickel	mg/l	0.30
	ug/l	∠ 5
Selenium	mg/l	<0.01
lilver	mg/1	40.1
rhallium	mg/l	<0.2
Intimony		. 17
Linc	mg/l	3.6
Tron	mg/l	

Ernst Steel- Soil Analyses

•		SAMPLE IDE	SAMPLE IDENTIFICATION (Station #)		
PARAMETER	UNITS OF MEASURE	(SURFACE SOIL (1)	(1)	(2)	(3)
<i>Arsenic</i>	ug/g dry	12	9.3	25	5.1
Beryllium	ug/g dry	<0.4	<0. 5	<0.2	<0.3
Cadmium	ug/g dry	3.0	2.3	1.6	0.91
Chromium	ug/g dry	440	220	200	11
Copper	ug/g dry	41	49	280	59
_ead	ug/g dry	8.3	270	2,500	13
Mercury	ug/g dry	(0.03	<0.03	0.04	<0.03
'ickel	ug/g dry	18	35	110	21
Selenium	ug/g dry	< 0.07	0.64	0.30	0.41
ilver	ug/g dry	<0.4	<0.5	<0.2	40. 3
Thallium	ug/g dry	3.6	1.0	<0.2	< 3
ntimony	ug/g dry	11	10	<0.4	< 6
Zinc	ug/g dry	46	64	31	40
y Weight	%	68	73	79	71
Iron	ug/g dry	300	440	200	300
l logenated	ug/g dry as Cl ₂ Lindane Standard	0.59	0.94	1.1	0.99







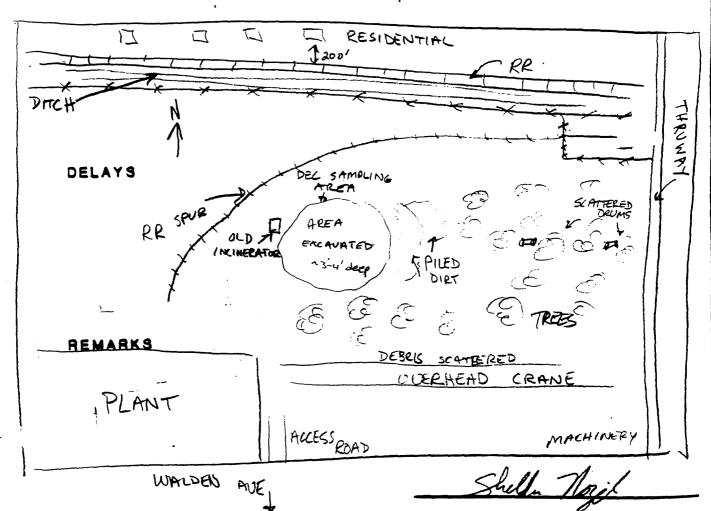
DAILY FIELD REPORT

PROJECT NO. 50280398	
DATE 1/24/86	REPORT NO.
WEATHER CONDITIONS_	Partly Cloudy, 28°F

REPORT

ACTIVITIES Andre and I on site 10:00 a.m. Frank Ernst not there so we proceed to site anyway. Property is leased by U.S Steel Supply. Area of concern is in northeast portion of property. Most of area is covered by trees.

Some empty rusted drums Scattered around area. Area near incinerator has been recently excavated 23-4 feet of diffete Pushed back towards trees. Slag, concrete "Red lead" piled around. Area excavated is currently product but frozen. See diagram below:



NAME OF SITE: Ernst Steel

LOCATION: 1746 Walden Avenue, Erie County

CURRENT OWNER: Ernst Steel

HIS TORY

The Ernst Steel Plant is a fabrication plant, responsible for the assembly of heavy industrial equipment. The material used in fabrication of steel equipment were landfilled in the past on-site. This site has been inactive for a number of years.

Materials believed to have been disposed of on-site are metal shavings, wood debris, iron oxide dust, dried paint sludge, paint, machine cutting oil and plant wash from steel painting, drilling, welding, fabrication, and cleaning.

INVESTIGATION

Three soil sample borings were taken as indicated on the enclosed drawing. The soil borings were taken at a depth of 4.5 feet and analyzed for metals, THO, and Fe. At Site #1, a surface soil sample as well as the sample indicated above was taken and analyzed for metals, THO, and Fe. Also, at site #1 a water sample was taken and analyzed for heavy metals, and Fe.

SOIL AND GFOLOGICAL INFORMATION

Unclassified city land, as its name implies, includes nonagricultural areas within the limits of the numerous towns and cities in the county. Almost 55 square miles of land in the county are accounted for in this classification. The soils at this site are classified under this heading.

The rock at this site is classified as Onondaga Limestone formed in the Middle Devonian Period of the Paleozoic Era. The group is specifically defined at this site as cherty, coral biostrome, with local bioherms.

SAMPLE ANALYSES

The soil analysis from all four samples taken exhibited high concentrations of chromium, copper, lead, nickel, zinc, and iron. The water analyses indicated high concentrations of zinc and iron and a very high concentration of lead.

DISCUSSION OF RESULTS

The sample analyses add confirmation to the deposition of paint sludges and metal shavings. According to the information compiled on this site and the analysis received from samples taken, this site was used as a landfill. If past disposal information is consistent, which the test results confirm, the landfill was a minor disposal site.

RECOMMENDATIONS

The landfill is located on the northern area of the plant property. The Ernst Steel landfill site appears to be isolated. The health risk associated with those high metal concentrations mentioned above are minimal except in standards for drinking water.

Ernst Steel - Water Analyses (4/27/82)

COMPOUND	UNITS OF MEASURE	SAMPLE IDENTIFICATION STATION #1
Arsenic	ug/l	4 5
Beryllium	mg/l	< 0.01
Cadmium	mg/l	0.175
Chromium	mg/l	0.054
Copper	mg/l	0.358
Lead	mg/l	170
Mercury	ug/l	4.4
Nickel	mg/l	0.30
Selenium	ug/l	∠ 5
Silver	mg/l	∠ 0.01
Thallium	mg/l	40.1
Antimony	mg/l	<0.2
Zinc	mg/l	17
Iron	mg/l	3.6

ERNST STEEL - Soil Analyses (4/27/32)

		SAMPLE IDE	NTIFICAT.	ION (Stat	ion #)
PARAMETER	UNITS OF MEASURE	SURFACE SOIL (1)	(1)	(2)	(3)
Arsenic	ug/g dry	12	9.3	25	5.1
Beryllium	ug/g dry	<0.4	<0.5	<0.2	<0.3
Cadmium	ug/g dry	3.0	2.3	1.6	0.91
Chromium	ug/g dry	440	220	200	11
Copper	ug/g dry	41	49	280	59
Lead	ug/g dry	8.3	270	2,500	13
Mercury	ug/g dry	€0.03	<0.03	0.04	< 0.03
Nickel	ug/g dry	18	35	110	21
Selenium	ug/g dry	< 0.07	0.64	0.30	0.41
Silver	ug/g dry	< 0.4	<0.5	<0.2	< 0.3
Thallium	ug/g dry	3.6	1.0	<0.2	< 3
Antimony	ug/g dry	11	10	<0.4	< 6
Zinc	ug/g dry	46	64	31	40
Dry Weight	%	68	73	79	71
Iron	ug/g dry	300	440	200	300
Halogenated Organic Scan	ug/g dry as Cl ₂ Lindane Standard	0.59	0.94	1.1	0.99

MALDEN AVE.

SITE LOCATION

ERNST STEEL CO. Eric County

GROUND-WATER RESOURCES OF THE ERIE-NIAGARA BASIN, NEW YORK



Prepared for the Erie-Niagara Basin Regional Water Resources Planning Board

by

A. M. La Sala, Jr.

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

in cooperation with

THE NEW YORK STATE CONSERVATION DEPARTMENT DIVISION OF WATER RESOURCES

STATE OF NEW YORK

CONSERVATION DEPARTMENT WATER RESOURCES COMMISSION

> Basin Planning Report ENB-3 1968

Yields of wells

The Camillus Shale is by far the most productive bedrock aquifer in the area. Except in the vicinity of Buffalo and Tonawanda, where industrial wells produce from 300 to 1,200 gpm, no attempt has been made to obtain large supplies from the formation. However, the inflow of water to gypsum mines near Clarence Center and Akron indicate that large supplies are not necessarily restricted to the Buffalo and the Tonawanda area. Two examples of large flows of water encountered in gypsum mining have already been mentioned. Pumpage from gypsum mines near Clarence Center (including the mine mentioned previously) is substantial. The water pumped is discharged to Got Creek. On July 2, 1963, the creek had a flow of 2.1 mgd (million gallons per day) about half a mile downstream from the mines, that was due almost entirely to the pumpage. Water for industrial use is pumped from a flooded, abandoned gypsum mine at Akron. This pumpage, at a rate of 500 to 700 gpm, has had no appreciable effect on the water level in the mine.

Probably the larger solution openings are most common in discharge areas near Tonawanda Creek and its tributaries and near the Niagara River; the flow of ground water becomes concentrated as it approaches the streams to which it discharges. Other discharge areas, such as low-lying swampy areas and headwaters of small streams that have perennial flow, are likely places to drill wells.

LIMESTONE UNIT

Bedding and lithology

The term "limestone unit" in this report is applied to a sequence of limestone and dolomite overlying the Camillus Shale. The limestone unit includes the Bertie Limestone at the base, the Akron Dolomite, and the Onondaga Limestone at the top. The lithology and thickness of these units are shown in figure 7. The Bertie Limestone and the Akron Dolomite are Silurian in age and are separated from the overlying Onondaga Limestone of Devonian age by an unconformity or erosional contact.

The Bertie Limestone is mainly dolomite and dolomitic limestone but contains interbedded shale particularly in the thin-bedded lower part of the formation. The middle part is brown, massive dolomite, and the upper part is gray dolomite and shale whose beds are of variable thickness. The total thickness of the formation is about 55 feet (Buehler and Tesmer, 1963, p. 30-31).

The Akron Dolomite is composed of greenish-gray and buff dolomite beds varying from a few inches to about a foot in thickness. The upper contact of the Akron is erosional and is often marked by remnants of shallow stream channels. Thin lenses of sandy sediments lie in the bottoms of some channels. The thickness of the formation is generally between 7 and 9 feet (Buehler and Tesmer, 1963, p. 33-34).

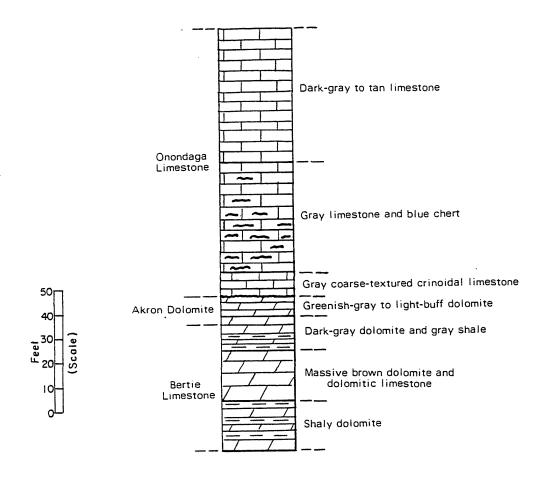


Figure 7.--Lithology of the limestone unit.

The Onondaga Limestone, about 110 feet thick, makes up the greatest thickness of the limestone unit. The formation consists of three members. The lowest member is a gray coarse-grained limestone, generally only a few feet thick. At places this member grades laterally into reef deposits which increases its thickness (Buehler and Tesmer, 1963, p. 35-36).

The middle member of the Onondaga is a cherty limestone. In some zones the chert exceeds the amount of limestone. The unit is probably 40-45 feet thick.

The upper unit is a dark-gray to tan limestone of varying texture and is probably about 50-60 feet thick.

Water-bearing openings

The limestone unit contains water-bearing openings that are similar to those of the Lockport Dolomite. Because the limestone unit is more soluble, however, solution widening of the openings appears to be more

pronounced. The types of water-bearing joints in the limestone can be seen at the falls of Murder Creek at Akron. Not all of the flow of Murder Creek plunges over the falls. A considerable part of the flow percolates into the limestone unit upstream from the falls and discharges from bedding joints both at the face and along the sides of the falls. The principal zones of discharge are at the base of the Bertie, and at a contact of a shaly zone and overlying thick-bedded dolomite 20 feet above the base.

The falls at Akron also illustrate in an exaggerated way the role of vertical joints. Water from Murder Creek percolates into the rock through solution-widened vertical joints before reaching the bedding-plane joints. The continuous and concentrated flow of water in the creek has widened the vertical joints to an unusual degree. Vertical joints are ordinarily very narrow. They probably are most effective in aiding the movement of water to the bedding joints where the bedding joints are close to the rock surface.

Locally, solution along bedding joints in the limestone unit has been great enough to cause the rock overlying the solution opening to settle. Settling of this type probably accounts for at least some of the small depressions in the outcrop belt of the Onondaga Limestone. A collapsed solution zone in the Onondaga Limestone discharges a large volume of water into a quarry (257-840-A) near Harris Hill. About 3,000 gpm is pumped from the quarry, and most of the water is reported to come from the solution zone.

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The limestone unit is cut by a fault on the east side of Batavia. Faults cutting limestone are likely to cause shattering along the fault and, thus, create a permeable water-bearing zone.

Hydrologic and hydraulic characteristics

The limestone unit is similar to the Lockport Dolomite in structure. However, its hydrology is different. The limestone unit is cut transversely by Tonawanda Creek and its major tributaries. Small tributaries flow across it in northerly and westerly directions. The limestone unit receives water in the interstream areas by percolation into joints. The water is discharged laterally to the streams and at places along the north-facing scarp or enters the Camillus Shale at depth.

The coefficient of transmissibility of the limestone unit probably ranges from about 300 to 25,000 gpd per foot. Specific capacity data are given in table 3. Drillers' reports indicate high transmissibilities for the limestone unit in Williamsville which probably arise from relatively intense circulation of ground water near Ellicott Creek. The coefficients of transmissibility given in table 3 were computed from specific capacity data by the method described by Walton (1962, p. 12-13).

Table 3.--Specific-capacity tests of wells finished in the limestone unit

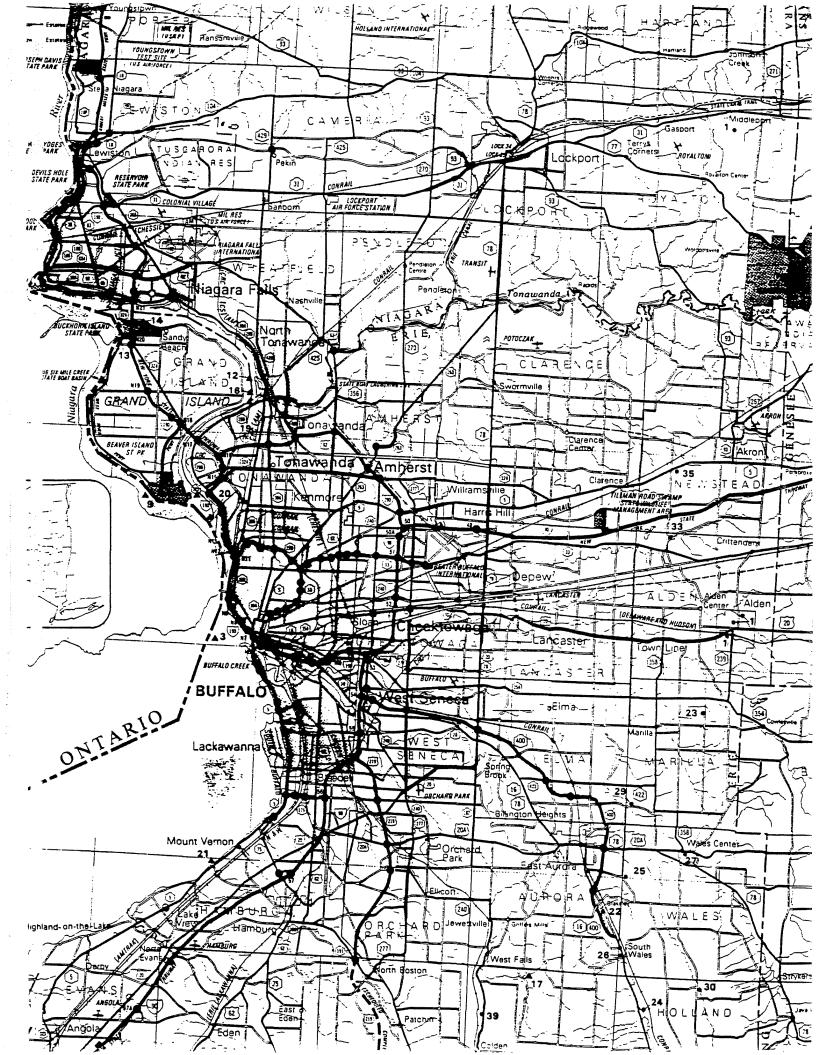
Well number	Pumping rate (gpm)	Duration of pumping (hours)	Drawdown (feet)	Specific capacity (gpm/ft)	Coefficient of transmissi- bility (gpd/ft)
252-852-1	85	34	7	12.1	25,000
-2	30		17	2	4,000
255-848-1	130		10	13	25,000
255-850-1	180	6	45	4	8,000
259-824-1	100	8	30	3.3	6,000
-2	100	8	1,2	8.3	15,000
300-824-1	104	8	28	3.7	7,000

The coefficient of storage of the limestone unit is probably between those of the Lockport Dolomite and the Camillus Shale. The storage coefficients of these three units vary mainly with the volume of the openings in the rocks which, in turn, vary with the solubility of the rocks. Limestone is more soluble than dolomite but less soluble than gypsum. Storage coefficients in the limestone unit should, therefore, be somewhat higher than those of the Lockport Dolomite but somewhat lower than those of the Camillus Shale.

Yields of wells

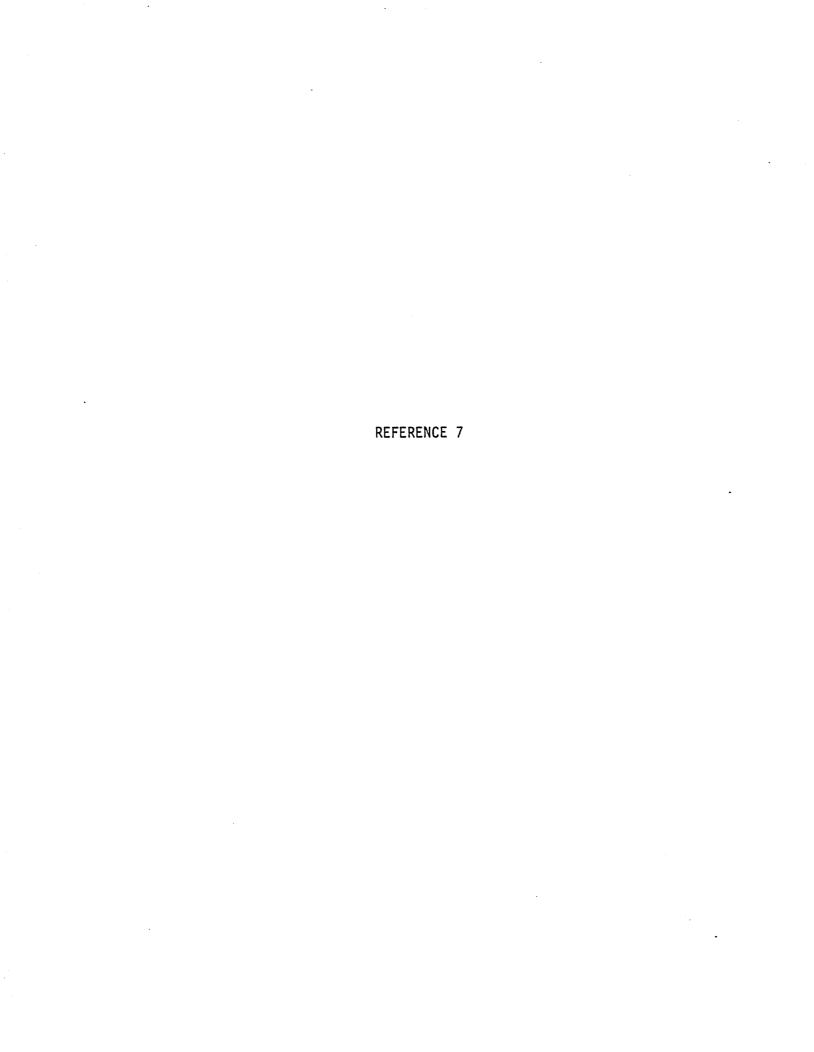
The limestone unit is more productive than the Lockport. A number of large-yield wells in Buffalo, Cheektowaga, Williamsville, Pembroke, and Batavia are finished in the limestone unit and indicate that yields of 300 gpm and possibly more can be obtained. Like the Lockport Dolomite, the yields of wells in the limestone unit range through a broad spectrum. However, the more productive wells in the limestone unit are relatively abundant when compared to those in the Lockport. Of significance also is that three wells half a mile apart drilled for an industrial firm near Pembroke, each sustained a discharge of about 100 gpm (table 6, wells 259-824-1, -2, and 300-824-1). These three wells indicate that such yields are available in some areas.

New York State Atlas of Community Water System Sources 1982

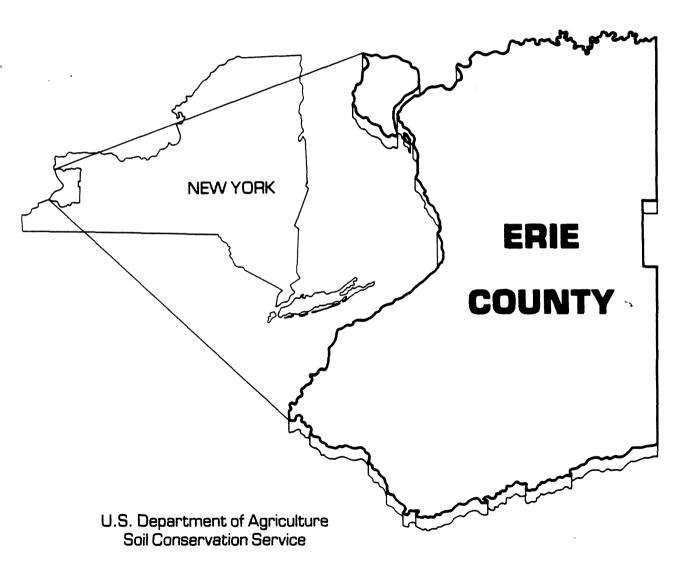


ERIE COUNTY

10 NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE
Munic	sipal Community		
Munici 1234567 8 9011234567890112345678901	Akron Village (See No 1 Wyoming Page 10)		Lake Erie . Lake Erie . Wells . Wells . Wells . Lake Erie . Niagara River - East Branch . Niagara River . Wells . Wells . Niagara River - East Branch . Niagara River - West Branch . Niagara River - West Branch . Wells . Niagara River - West Branch . Pipe Creek Reservoir . Wells . Niagara River - East Branch . Pipe Creek Reservoir . Wells . Niagara River - East Branch . Niagara River
Non-M	unicipal Community		
234567890123456789 333333333333333333333333333333333333	Aurora Mobile Park. Bush Gardens Mobile Home Park. Circle B Trailer Court. Circle Court Mobile Park. Creekside Mobile Home Park. Donnelly's Mobile Home Court. Gowanda State Hospital. Hillside Estates. Hunters Creek Mobile Home Park. Knox Apartments. Maple Grove Trailer Court. Millgrove Mobile Park. Quarry Hill Estates. Springwood Mobile Village. Taylors Grove Trailer Park. Valley View Mobile Court.		.Wells .Wells .Wells .Wells .Wells .Clear Lake .Wells



GENERAL SOIL MAP and INTERPRETATIONS



in cooperation with

Cornell University Agricultural Experiment Station and Erie County Soil and Water Conservation District

ERIE COUNTY COME S

Conservation District

21 S. Grove Street

East Aurora, N. Y. 1882

43. URBAN LAND-ODESSA, NEARLY LEVEL

Nonsoil areas, and deep, somewhat poorly drained, clayey soils, on lowland plains.

This unit is in areas of residential developments interspersed with undisturbed soils dominated by clayey sediments. Most areas extend eastward and northward from Buffalo into the suburbs. Slope ranges from 0 to 3 percent.

This unit covers about 11,100 acres or 1.6 percent of the county. Urban land makes up 65 percent of the unit, Odessa soils about 25 percent and soils of minor extent the remaining 10 percent.

The urban land portion of this unit is covered by streets, sidewalks, driveways, house foundations, and parking lots. A few areas also include shopping centers, institutional facilities and light industrial parks. All of these areas have the upper layers of soil disturbed or removed. The undisturbed soil portion of this unit is dominated by Odessa soils that formed in gravel and stone-free, lake-laid sediments having a high clay content. These soils are somethwat poorly drained and have a seasonal high water table perched in the upper part of the subsoil during spring and other wet periods. Rate of water movement through the soil is slow or very slow. Most areas of the undisturbed Odessa soils are in lawns, gardens, parks, or vacant lots.

Soils that are of minor extent are primarily those of the Cosad and Lakemont series. Cosad soils are in areas that have a surficial layer of sand overlying clayey sediments. Poorly drained and very poorly drained Lakemont soils occur in depressions and along drainageways in this unit.

Most of this unit is in residential housing. Seasonal wetness, slow water movement through the soil, clayey textures, and poor stability of the soil layers are concerns for further development of areas of this unit. In the town of Amherst, some areas are subject to ponding or slow removal of water when nearby streams are near flood stage.

GEOLOGY

OF

ERIE COUNTY

New York

Вч

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AND

IRVING H. TESMER

Professor of Geology State University College at Buffalo



BUFFALO SOCIETY OF NATURAL SCIENCES
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Buffalo, 1963



BUEHLER AND TESMER: GEOLOGY OF ERIE COUNTY, NEW YORK

ARTHROPODS

GRAPTOLITES

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Eurypterus remipes lacustris Harlan

Pterygotus sp.

Leperditia scalaris Jones

Inocaulis akronensis Ruedemann

Medusaegraptus graminiformis (Pohlmann)

Devonian System

LOWER DEVONIAN (ULSTERIAN) SERIES ORISKANY SANDSTONE

The Oriskany Sandstone is not exposed as such in western New York but sand grains at the Silurian-Devonian contact have been termed Oriskany by Clarke (1900, pp. 79, 96-98).

MIDDLE DEVONIAN (ERIAN) SERIES ONONDAGA LIMESTONE

Type Reference: Hall (1839, pp. 293-309).

TYPE LOCALITY: Onondaga County, New York. A more exact type locality has not been designated.

TERMINOLOGY: Eaton (1828, p. 153) called the Onondaga Limestone "Cornitiferous limerock." Oliver (1954) conducted the most recent and thorough study. He recognized four members: the Edegeliff (oldest), Nedrow, Moorehouse, and Seneca (see fig. 5).

Age and Correlation: The Onondaga Limestone is generally dated as early Middle Devonian but comparison with the European standard section suggests a late Early Devonian age to some (Cooper et al. 1942). This formation has been traced eastward across New York State and southward into the Appalachian Mountains. To the west, the Onondaga correlates in part with the Detroit River Group of Michigan.

THICKNESS: Complete measured sections of the Onondaga Limestone in Erie County have not been published. Luther (1906, p. 13) mentions 162 feet. Bishop (1897, p. 390) gives a more probable figure of 108 feet. The Edgecliff Member, normally only a few feet in thickness, swells to about 35 feet in the bioherm at Williamsville (filled quarry at Main Street and Kensington Avenue). This produces a local dome with dips as great as 10 degrees.

LITHOLOGY: The Edgecliff Member is a gray, coarse-textured, crinoidal limestone with abundant corals. In the Williamsville bioherm and vicinity, there are beds of green tinted shale and some disseminated bituminous matter.

The Nedrow Member is a rough-weathering, cherty limestone. The chert

363-376), Waering

ing stone

is generally blue-black in color and in some beds so greatly exceeds the limestone in amount that the term bedded chert is applicable. Fossils are not as common as in the other members.

The Moorehouse Limestone Member bears a coral-brachiopod-bryozoan fauna. The texture varies from coarse to very finely crystalline and the color from dark gray to tan. Chert, some light buff in color, and disseminated bituminous matter are present.

Oliver (1954, pp. 637-641) suggests that the Seneca, the uppermost member of the Onondaga, cannot be recognized in Erie County. The upper part of the Moorehouse may be of Seneca age. A thin layer which may represent the Tioga Bentonite occurs near the top of the Onondaga Limestone in western New York and is said to crop out in the Federal Crushed Stone quarry in Cheektowaga.

The north-facing cliff of the Onondaga escarpment consists chiefly of the Edgecliff and Nedrow Members.

PROMINENT OUTCROPS: East Amherst Street storm sewer; Buffalo Crushed Stone quarry at Wehrle and Harris Hill roads; Louisville Cement Company quarry on New York route 5 near Clarence; Murder Creek near Akron Falls Park (pl. 6, lower). There are numerous exposures along the Onondaga escarpment. The exposure at Greiner Road is especially prominent. The upper part of the Onondaga can be observed in the quarry of the Federal Crushed Stone Company on Como Park Road in Cheektowaga, and in the Lancaster Crushed Stone quarry at Clarence (pl. 7, upper).

CONTACTS: The Onondaga Limestone rests disconformably on the Upper Silurian Akron Dolostone. The contact with the overlying Marcellus Formation cannot be seen in Eric County.

ECONOMIC GEOLOGY: The Onondaga Limestone is an important source of crushed stone in Eric County and is quarried for that purpose by several companies. In the past, the Nedrow Member has been used for building stone.

PALEONTOLOGY: Oliver (1954, pp. 638-639; 1958, p. 822) lists the following species from the Edgecliff Member in Eric County:

COELENTERATES

Bethanyphyllum robustum
Billingsastraea cf. verneuili
(Edwards and Haime)
Blothrophyllum decorticatum Billings
B. promissum
Bretiphrentis vandelli
Caunopora sp.
Chonophyllum magnificum (Billings)
Coenites sp.
Cystiphylloides robustum
C. sulcatum
C. cf. conifollis

C. sp. A
Eridophyllum gigas
Favosites basalticus
F. canadensis (Billings)
F. emmonsi
F. epidermatus
F. tuberosa
F: turbinatus Billings
Heliophylloides corniculum
Heliophyllum gemmatum
H. halli (?) Edwards and Haime
H. sp. C

Heterophren:
H. prolifica (
H. sp.
Metriophyllu
(Billings)
Pleurodictyu:

Bryozoa spp.

Amphigenia Atrypa retici Centronella g Elytha fimbri Leptaena rho Leptostrophi Levenia lenti

Orthonychiu
O. dentalium
Platyceras ar
P. carinatum
P. dumosum

Phacops crist from the N

Heterophren:

from the M

Amplexiphyli
Bethanyphyli
Breviphrentis
Coenites sp.
Cylindrophy.
Cystiphylloic
Favosites bas

STRATIGRAPHIC COLUMN BERTIE-ONONDAGA

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FORMATION	MEMBER	
MARCELLUS	GATKA GREEK SHALE	
ONONDAGA FORMATION	MOOREHOUSE MEMBER	
	NEDROW MEMBER	
	EDGECLIFF MEMBER	++++
AKRON DOLOSTONE		unc.
	WILLIAMSVILLE MEMBER	
	SCAJAGUADA MEMBER	
BERTIE FORMATION	FALKIRK MEMBER	
	OATKA MEMBER	
CAMILLUS SHALE		\$ c











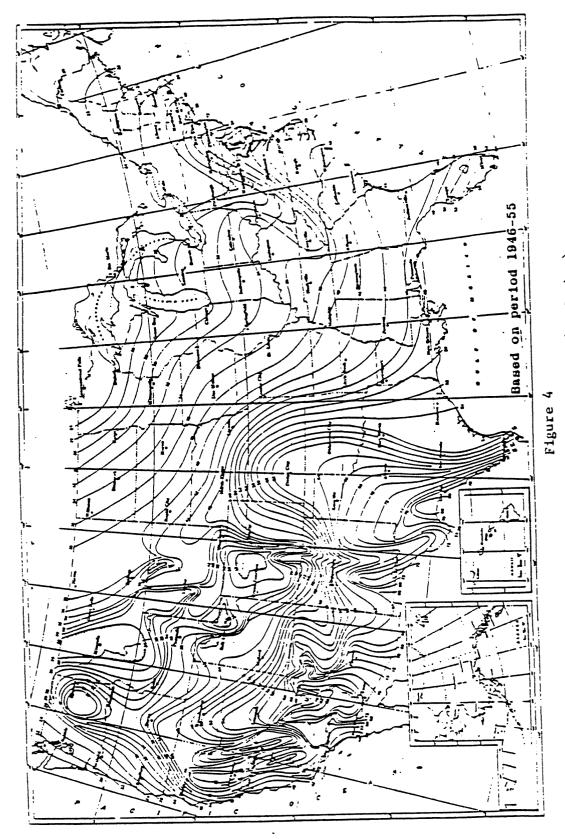
GEITZENAUER

DRAFT

UNCONTROLLED HAZARDOUS WASTE SITE RANKING SYSTEM A USERS MANUAL

DRAFT

10 June 1982 (errata included)



Mean Annual Lake Evaporation (In Inches)

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

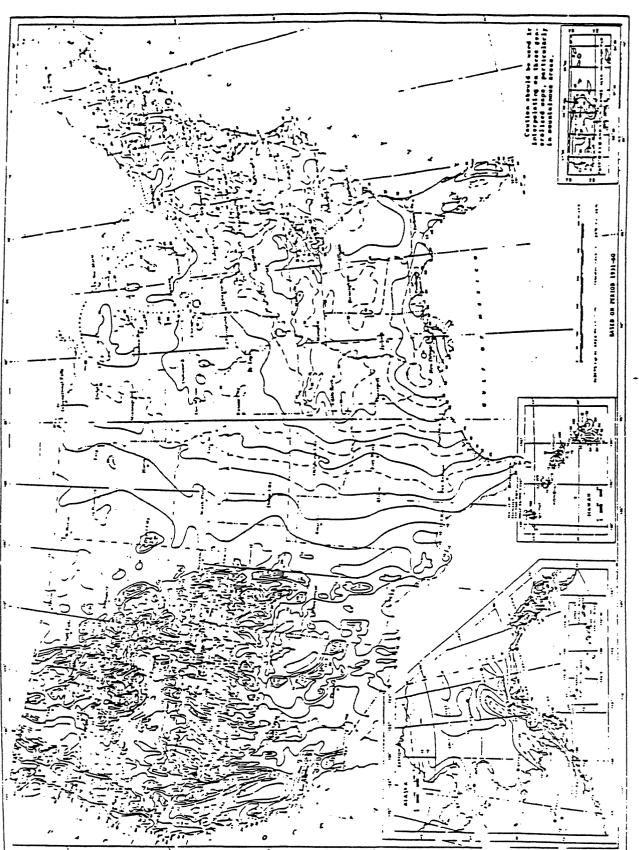


Figure 5

Source: Climatic Atlas of the United States, U.S. Department of Commerce, National Climatic Center, Normal Annual Total Precipitation (Inches)

TABLE 2

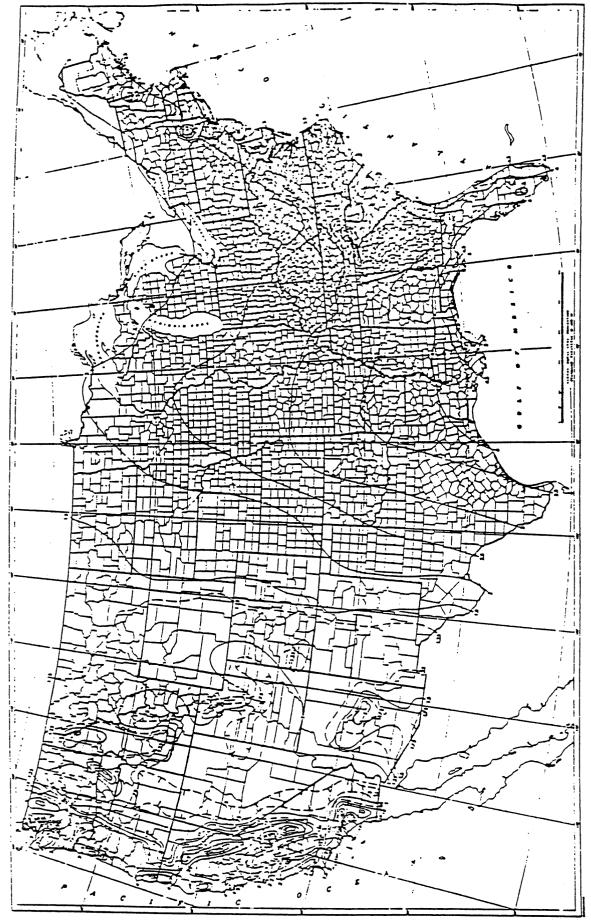
PERMEABILITY OF GEOLOGIC MATERIALS*

TYPE OF MATERIAL	APPROXIMATE RANGE OF HYDRAULIC CONDUCTIVITY	ASSIGNED VALUE
Clay, compact till, shale; unfractured metamorphic and igneous rocks	< 10 ⁻⁷ cm/sec	0
Silt, loess, silty clays, silty loams, clay loams; less permeable limestone, dolomites, and sandstone; moderately permeable till	$<10^{-5} \ge 10^{-7} \text{ cm/sec}$	1
Fine sand and silty sand; sandy loams; loamy sands; moderately permeable limestone, dolomites, and sandstone (no karst); moderately fractured igneous and metamorphic rocks, some coarse till	$<10^{-3} \ge 10^{-5} \text{ cm/sec}$	2
Gravel, sand; highly fractured igneous and metamorphic rocks; permeable basalt and lavas; karst limestone and dolomite	>10 ⁻³ cm/sec	3

^{*}Derived from:

Davis, S. N., Porosity and Permeability of Natural Materials in Flow-Through Porous Media, R.J.M. DeWest ed., Academic Press, New York, 1969

Freeze, R.A. and J.A. Cherry, Groundwater, Prentice-Hall, Inc., New York, 1979



1-Year 24-Hour Rainfall (Inches)

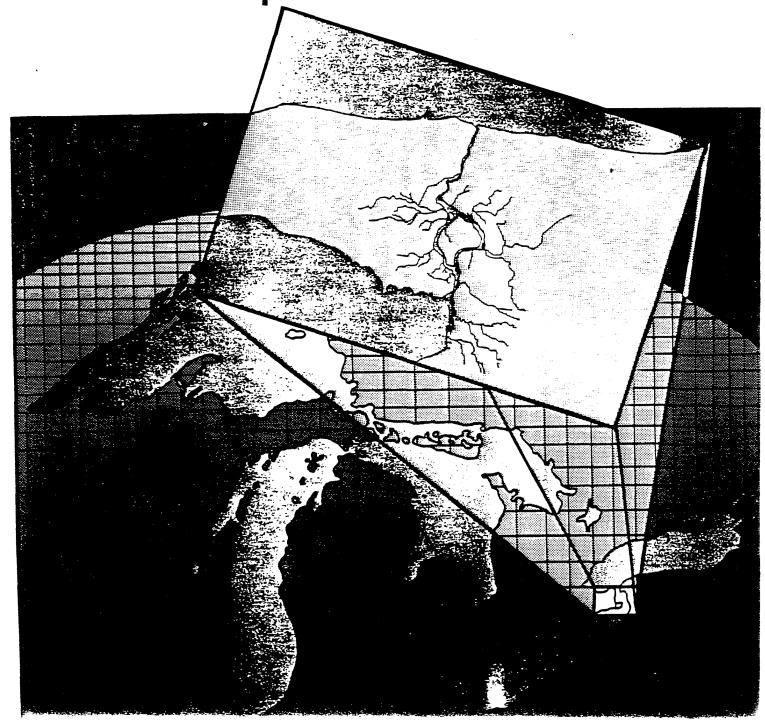
FICURE 8

Rainfall Frequency Atlas of the United States, Technical Paper No. 40, U.S. Department of Commerce, U.S. Government Printing Office, Washington, D.C., 1963. Source:



Preliminary Evaluation
Of Chemical Migration
To Groundwater and
The Niagara River from
Selected WasteDisposal Sites





BUFFALO AREA

Geology

The Buffalo study area (pl. 1) consists of units of sedimentary bedrock composed of shale, limestone, and dolomite overlain by unconsolidated deposits of clay, sand, and till. The bedrock units are of Silurian and Devonian age; the unconsolidated deposits are primarily of Pleistocene age. The extent of the sedimentary bedrock units is shown in figure 3; the distribution of the unconsolidated units is shown in figure 4.

The bedrock units of concern in this study are: Camillus Shale, Bertie Limestone, and Akron Dolomite (described as one unit); Onondaga Limestone; Marcellus Shale, and the Skaneateles Formation. The unconsolidated deposits of interest are of glacial origin and consist of a glaciolacustrine clay-sand deposit, end-moraine deposits, and an outwash-terrace-delta gravel deposit.

Bedrock Units.—The oldest sedimentary bedrock unit encountered in this study is the Camillus Shale of Silurian age (fig. 3), which occurs only in the northern part of the Buffalo area. This unit has been described by LaSala (1968) as a gray, red, and green thin-bedded shale containing massive mudstone; the unit also contains beds and lenses of gypsum approaching 5 ft in thickness. Subsurface information indicates a dolomitic mudrock to be interbedded within the unit also. The Camillus Shale, estimated to be about 400 ft in thickness, dips southward throughout the area at approximately 40 ft/mi. Information from gypsum miners indicates that the dip of the formation is undulatory within a range of a few feet.

Two other units of Silurian age overlie the Camillus Shale--the Bertie Limestone and the overlying Akron Dolomite. The Bertie Limestone is a gray and brown dolomite with some interbedded shale; the Akron Dolomite is a greenish-gray and buff fine-grained dolomite (LaSala, 1968). The Bertie Limestone, the thicker of the two units, ranges from 50 to 60 ft thick, whereas the Akron Dolomite is estimated to be 8 ft thick. Both formations dip southward, as does the underlying Camillus Shale.

The Onondaga Limestone of middle Devonian age overlies this limestone-dolomite unit; the two units are separated by an unconformity or an erosional contact. The Onondaga Limestone consists of three members. The lowest, which overlies the Akron Dolomite, is a gray, coarse-grained limestone generally a few feet thick. This member, according to Buehlor and Tesmer (1963), grades laterally into reef deposits, thereby increasing its thickness. The middle member consists of a gray limestone and blue chert and reaches a thickness of 40 to 45 ft. The upper member is a dark gray to tan limestone ranging in thickness from 50 to 60 ft. The overall thickness of the Onondaga Limestone is approximately 110 ft.

The Marcellus Shale overlies this limestone unit; the formation is described by LaSala (1968) as being black and fissile. The unit ranges in thickness from 30 to 55 ft and dips generally southward at 40 ft/mi. The uppermost unit within the study area is the Skaneateles Formation. It is olive-gray to dark-gray and black, fissile shale with calcareous beds. The lower 10 feet of the unit is gray limestone. Total thickness is 60 to 90 feet. This unit is found in the southernmost part of the study area.

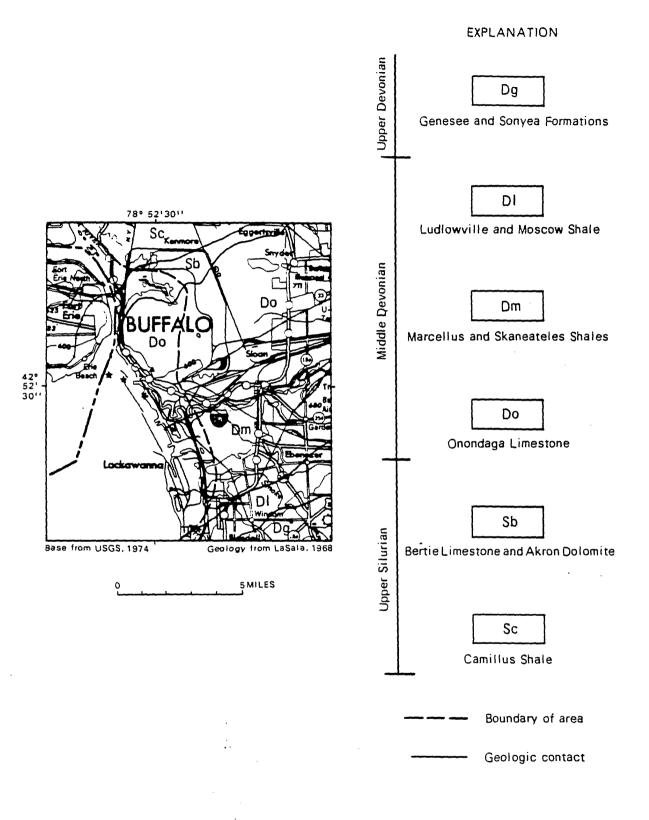


Figure 3. Bedrock geology of the Buffalo area. (Modified from La Sala, 1968.)

EXPLANATION Holocene HIc Lake silt, sand and clay 78° 52'30'' WIC Lake silt, sand and clay Pleistocene Wem 42° 52' 30' End moraine Wgm Ground moraine Base from USGS, 1974 Geology from Muller, 1977 Boundary of area

Figure 4. Surficial geology of the Buffalo area. (Modified from Muller, 1977.)

Glacial marginal position

Geologic contact, dashed where uncertain

5 MILES

No additional data on the bedrock units within the Buffalo area were obtained. The geology of the units is summarized by La Sala (1968) in his report about ground-water resources of the Erie-Niagara basin.

Unconsolidated Deposits. -- The unconsolidated units (fig. 4) consist of glacial material deposited during the latter part of the Pleistocene epoch. The main unconsolidated unit in the Buffalo area is a glaciolacustrine claysand deposit consisting of silt, fine to medium sand, and clay and containing laminae of alternating sand and clay.

Two other unconsolidated deposits of lesser extent are present in the area-an end-moraine deposit and a small area of outwash, terrace, and delta gravel. The end-moraine material, which consists of ablation and lodgment tills or poorly sorted gravel that contain more than 20 percent carbonate and crystalline clasts, was deposited at the edge of an ice sheet by meltwater either at the end of an advance or during a stillstand of glacial retreat. The outwash, terrace, and delta gravels, which consist of well-sorted pebbles and cobbles with sand, contain more than 30 percent carbonate and crystalline clasts. The material was deposited by meltwater streams forming coalescent aprons near the ice sheet or as stream terraces or terrace remnants.

Three test holes were drilled to bedrock in the Buffalo area to help define the subsurface geology; their locations are shown in plate 1. The geologic descriptions are as follows:

Boring no.	Depth (ft)	Description
SA-9	0 - 1.5 1.5 - 6.5 6.5 - 11.5 11.5 - 25.5 25.5	Topsoil Sand, brown Clay, sandy, with gravel, dark brown Clay, sand with clay, gray, wet at 11.5 ft Bedrock
SA-10	0 - 1.5 1.5 - 6.5 6.5 - 11.0 11.0	
SA-11	0 - 16.5 16.5 - 21.5 21.5 - 36.5 36.5 - 60.0 60.0	Fill, black, ground water at 10 ft Clay, silty, green Clay, silty, gray-green Clay, silty, pinkish-gray Bedrock

The geologic information from these test holes, combined with the data from the waste-disposal sites, enables a general characterization of the area.

The unconsolidated deposits, primarily the glaciolacustrine clay, tend to decrease in thickness toward the east and north, where bedrock rises to less than 5 ft below land surface. Also, the clay unit is generally less than 2 ft below land surface except where it has been removed by landfilling and wastedisposal operations or urbanization.

Aquifer Lithology and Water-Bearing Characteristics

The ground-water system within the Buffalo area consists of a fractured bedrock aquifer and an overlying aquifer of unconsolidated deposits.

Bedrock aquifer. -- The bedrock aquifer consists of all the bedrock units discussed previously. The main sources of water are the fractures and solution cavities. The specific-capacity and transmissivity values of selected bedrock aquifer units are shown below.

Bedrock unit 1		capacity ² in)/ft		ssivity ² d)/ft	
	Min	Max	Min	Max	
Akron Dolomite	2	13	4,000	25,000	
Camillus Shale	4	83	7,000	70,000	

¹ Position of units is shown in figure 3.

The specific capacity of a well is the rate of discharge of water from the well divided by the drawdown of the water level within the well. If the specific capacity is constant except for the time variation, it is roughly proportional to the transmissivity of the aquifer. Transmissivity is the rate at which water is transmitted through a unit width of the aquifer under a unit hydraulic gradient.

The data above indicate that these two properties differ considerably within and among the units. This variation reflects the amount and size of the fractures and solution cavities.

Unconsolidated aquifer.—The unconsolidated aquifer consists of a glaciolacustrine clay and sand and gravel deposits. The thicker unit is the glaciolacustrine clay. The test drilling during the summer of 1982 encountered the water table at various depths within the clay, and saturated sand stringers up to 3 inches thick were common. These stringers were not large, however, and generally thinned out within a few feet.

A seasonal water table above the clay unit was observed during wet periods but not during the summer. This water table is formed by the ponding of infiltrated precipitation above the relatively impermeable clay. As the water mounds upward, gradients toward natural or manmade topographic lows develop and eventually discharge to nearby surface-water bodies. As the season becomes drier and warmer, vegetation increases and takes up the remaining ground water through transpiration.

The hydrologic properties of the unconsolidated aquifer within the Buffalo area are also described in consultants' reports for Buffalo Color Corporation (sites 120-122), Bethlehem Steel Corporation (site 118), and the Alltift Landfill (site 162).

The general range of hydraulic conductivity was 0.0328 to 155.8 ft/d. The larger value can be attributed to slag fill material, which would have a considerably greater permeability than the glaciolacustrine clay. A permeability test was performed on a clay sample from the Alltift landfill; the permeability ranged from 1.6×10^{-4} to 1.8×10^{-4} ft/d.

² Data from LaSala (1968)

The rate of ground-water movement within the unconsolidated aquifer at the Buffalo Color Corporation (sites 120-122) was calculated and ranges from 0.02 to 0.06 ft/yr.

The direction of ground-water movement in the unconsolidated aquifer is generally toward the major surface-water bodies--Lake Erie, Niagara River, and Buffalo River (fig. 4). The ground-water flow pattern is dissected in the northern part of the area, where impermeable bedrock is less than 5 ft below land surface, as indicated in figure 4. This unsaturated zone diverts the flow northward and southward.

Ground-Water Quality

The quality of ground water in the bedrock aquifer in the Buffalo area has been documented by LaSala (1968), who included maps showing the concentration ranges for sulfate, hardness, and chloride. Sulfate concentrations given in that report ranges from 100 to 500 ppm and hardness (as CaCO₃) from 150 to 1,000 ppm; chloride concentrations range from 100 to 1,500 ppm, and specific conductance ranges from 1,000 to 9,000 μ mho/cm.

To estimate background water quality in the Buffalo area, a water sample was collected from the unconsolidated deposits in the fall of 1982 and analyzed for priority pollutants. The observation well was on Seneca Street (well SA-9, pl. 1), in the eastern part of the area just east of the Buffalo city line, and was screened above the bedrock contact. The results are given in table 14. Cadmium, lead, and zinc exceeded USEPA drinking-water criteria; minor amounts of some organic compounds were also detected. Additional sampling of the ground water in the unconsolidated aquifer would be needed to define the quality of water in this aquifer in the Buffalo area.

Three substrate samples were collected in the Buffalo area at localities not affected by waste-disposal sites to compare their concentrations of heavy metals with those in substrate samples from waste-disposal sites. Results are given in table 13.

Table 13.--Heavy-metal concentrations in samples from undisturbed soils in Buffalo, N.Y., June 1, 1983
[Locations shown in pl. 1. Concentrations in µg/kg.]

Location	Sample number	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
Forest Lawn Cemetery	SB-1	5,000	8,000	7,000	20,000	100	10,000	31,000
Martin Luther King Park	SB-2	5,000	8,000	10,000	40,000	90	20,000	42,000
Holy Cross Cemetery ¹	SB-3	9,000	30,000	40,000	290,000	280	40,000	160,000

¹ This location is downwind from a major industrial area.

Table 14.--Analyses of a ground-water sample from well SA-9 in the unconsolidated deposits along Seneca Street, West Seneca, N.Y., November 13, 1982.

[Location shown in pl. l. Concentrations are in $\mu g/L$. Dashes indicate that constituent or compound was not found, LT indicates it was found but below the quantifiable detection limit.]

Inorganic constituents				
Antimony Arsenic Beryllium Cadmium Chromium Copper	2 17 22† 1 160	Lead Mercury Nickel Selenium Zinc 5	490† 210 1 3,000†	
Organic compounds				
Priority pollutants				
Methylene chloride	3.2	Phenol	LT	
Toluene	3.9	Naphthalene	LT	
Ethylbenzene	LT	Dimethyl pht	halate LT	
DDT	0.17†	Diethyl phth Dibutyl phth		
Nonpriority pollutants				
Chlordene	0.19	1,3-Dimethylbenze	nel	LT
l-Methyl-3-phenoxybe	nzene ^l LT	2-Butoxyethanol1		LT
1-(2-butoxyethoxy)et		l-(l-isobuty1-3-m	ethv1-1-	
2-Ethylhexanoic acid		butenyl)-pyrrol		LT
Exo-2-chloro-1-methy		2,3,3,4-Tetrameth		LT
bicyclo[2.2.1]hept	ane ^l LT	Methy1-3,5-di-0-m	ethyl-alpha-	
Cis-l-bromo-2-chlore		D-xylofuranosid		550
hexane ^l	LT	N-Ethylbutanamide	1	100
Benzenepropanoic aci	d ¹ 67			

Tentative identification based on comparison with the National Bureau of Standards (NBS) library. No external standard was available. Concentration reported is semiquantitative and is based only on an internal standard. GC/MS spectra were examined and interpreted by GC/MS analysts.

[†] Exceeds USEPA criterion for maximum permissible concentration in drinking water.

REFERENCE 11

STATE OF NEW YORK

OFFICIAL COMPILATION

Of

CODES, RULES AND REGULATIONS

MARIO M. CUOMO Governor

GAIL S. SHAFFER Secretary of State

Published by
DEPARTMENT OF STATE
162 Washington Avenue
Albany, New York 12281

TABLE I (contd.)

Item No.	Waters Index Number	Name	Description	Map Ref. No.	Class	Standards
117	0-158-15 portion as described	Scajaquada Creek	From crossing of Main Street, City of Buffalo to trib. 4 which is in line with continuation of Frederick Drive, Town of Cheek- towaga.	6	D	D
118	0-158-15 portion as described	Scajaquada Creek	From trib. 4 which is in line with continuation of Frederick Drive, Town of Cheektowaga to source.	6,7	В	В
119	0-158-15-1,2,3, 4,5,6, and 7 and tribs. as shown on reference map	Tribs. of Scaja- quada Creek	Enter Scajaquada Creek from north and northeast between mouth and source.	6,7	D	D
120	Big Burnt Ship Creek	Big Burnt Ship Creek	Seperates Grand Island from Buck- horn Island.	2	В	В
121	G.I. 1	Trib. of Big Burnt Ship Creek	Enters Big Burnt Ship Creek from east opposite eastern end of Buckhorn Island.	2	В	В
122	G.I. 2 and trib. as shown on re- ference map	Gun Creek	Enters Niagara (East Channel) from Grand Island at Edgewater.	2	В	В
123	G.I. 3 and trib. as shown on reference map	Spicer Creek	Enters Niagara (East Channel) from Grand Island opposite North Tonawanda water intake light.	2	В	В

REFERENCE 12

Note 1: [Repealed]

CLASS D

Best usage of waters. These waters are suitable for secondary contact recreation, but due to such natural conditions as intermittency of flow, water conditions not conducive to propagation of game fishery or stream bed conditions, the waters will not support the propagation of fish.

Conditions related to best usage of waters. The waters must be suitable for fish survival.

Quality Standards for Class D Waters

Item: 1. pH.

Specifications: Shall be between 6.0 and 9.5.

Item: 2. Dissolved oxygen.

Specifications: Shall not be less than three milligrams per liter at any time.

Note 1: [Repealed]

701.20 Classes and standards for saline surface waters.

The following items and specifications shall be the standards applicable to all New York Saline Surfaces Waters which are assigned the classification of SA, SB, SC or SD, in addition to the specific standards which are found in this Part under the heading of each such classification.

Quality Standards for Saline Surface Waters

Items: 1. Garbage, cinders, ashes, oils, sludge or other refuse.

Specifications: None in any waters of the marine district as defined by Environmental Conservation Law (§17-0105).

Item: 2. pH.

Specifications: The normal range shall not be extended by more than 0.1 pH unit.

Item: 3. Turbidity.

Specifications: No increase except from natural sources that will cause a substantial visible contrast to natural conditions. In cases of naturally turbid waters, the contrast will be due to increased turbidity.

Item: 4. Color.

Specifications: None from man-made sources that will be detrimental to anticipated best usage of waters.

Item: 5. Suspended, colloidal or settleable solids

Specifications: None from sewage, industrial wastes or other wastes which will cause deposition or be deleterious for any best usage determined for the specific waters which are assigned to each class.

Items: 6. Oil and floating substances.

Specifications: No residue attributable to sewage, industrial wastes or other wastes, nor visible oil film nor globules of grease.

Item: 7. Thermal discharges.

Specifications: (See Part 704 of this Title.)

CLASS SA

Best usage of waters. The waters shall be suitable for shellfishing for market purposes and primary and secondary contact recreation.

Quality Standards for Class SA Waters

Item: 1. Coliform.

Specifications: The median MPN value in any series of samples representative of waters in the shellfish growing area shall not be in excess of 70 per 100 ml.

Item: 2. Dissolved oxygen.

Specifications: Shall not be less than 5.0 mg/1 at any time.

Items: 3. Toxic wastes and deleterious substances.

Specifications: None in amounts that will interfere with use for primary contact recreation or that will be injurous to edible fish or shellfish or the culture or propagation thereof, or which in any manner shall adversely affect the flavor, color, odor or sanitary condition thereof or impair the waters for any other best usage as determined for the specific waters which are assigned to this class.

CLASS SB

Best usage of waters. The waters shall be suitable for primary and secondary contact recreation and any other use except for the taking of shellfish for market purposes.

Quality Standards for Class SB Waters

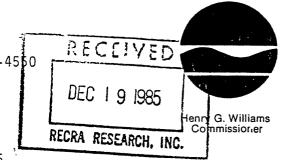
Item: 1. Coliform

Specifications: The monthly median coliform value for 100 ml of sample shall not exceed 2,400 from a minimum of five examinations and provided that not more than 20 percent of the samples shall exceed a coliform value of 5,000 for 100 ml of sample and the monthly geometric mean fecal coliform value for 100 ml of sample shall not exceed 200 from a minimum of five eximinations. This standard shall be met during all periods when disinfection is practiced.

REFERENCE 13

New York State Department of Environmental Conservation

600 Delaware Avenue, Buffalo, NY 14202-1073 716/847-45\$0



December 18, 1985

Mr. Sheldon S. Nozik RECRA Research, Inc. 4248 Ridge Lea Road Amherst, NY 14226

Dear Mr. Nozik:

Tentative Erie County and final Niagara County freshwater wetlands are shown directly on your site maps for the Superfund sites you are studying. Please be sure to examine all the maps since I did not copy all wetland boundaries if a given area was shown on another map.

Also, our maps show only those wetlands which exceed 5 ha in size. We have no information compiled for wetlands less than 5 acres in size.

To my knowledge, we have no "critical habitats" within one mile of the sites in question. Further, I am not aware of endangered or threatened species occupying these sites.

If you need some specific information on the wetlands within your study area, you will need to come to Regional Headquarters to compile those data.

Sincerely,

Gordon R. Batcheller Senior Wildlife Biologist

Region 9

GRB:1s

Enc.

cc: Mr. Pomeroy

Hazardous Waste And Toxic Substance Control

December 13, 1985

Mr. James Pomeroy Habit Protection Biologist NYSDEC Fish and Wildlife Office 128 South Street Olean, NY 14760

Dear Mr. Pomeroy:

As per our telephone conversation on December 3, 1985, enclosed are sections of the topographic maps for the NYSDEC Phase I Superfund sites we are presently working on. Below is a list of these sites:

- 1. Exolon Company
- 2. Pennwalt-Lucidal
- Mollenberg-Betz Co.
- 4. Empire Waste
- 5. Bisonite Paint Co.
- 6. Stocks Pond
- 7. Aluminum Matchplate
- 8. Otis Elevator (Stimm Assoc.)
- 9. LaSalle Reservoir
- 10. Tonawanda City Landfill
- 11. Union Road Site
- 12. Central Auto Wrecking (Diarsonal Co.)
- 13. Procknal and Katra
- 14. Consolidated Freightway
- 15. U.S. Steel (Stimm Assoc.)
- 16. Ernst Steel
- 17. American Brass (Anaconda)

- 18. Erie-Lackawanna Site
- 19. Dresser Industries
- 20. W. Seneca Transfer Station
- 21. Old Land Reclamation
- 22. Northern Demolition
- 23. Lackawanna Landfill
- 24. South Stockton Landfill*
- 25. Chadakoin River Park*
- 26. Dunkirk Landfill*
- 27. Felmont Oil Co.*
- 28. NFTA**
- 29. Walmore Road Site**
- 30. Schreck's Scrapyard**
- * Chautaugua County
- ** Niagara County

As part of the search requirements for the NYSDEC Superfund sites, each of these sites must be documented as follows:

- if there are any coastal wetlands within two (2) miles of the site
- if there are any freshwater wetlands within one (1) mile of the site (5 acre min.
- if there are any critical habitats within one (1) mile of the site (endangered species or wildlife refuges)

Continued . . .

Would you please forward information on sites 1-10 as soon as possible, as we have a January 15, 1986 deadline for submittal of these reports to Albany.

Thank you very much for your assistance and promptness in these matters. Should you have any questions or comments, please do not hesitate to call.

Sincerely,

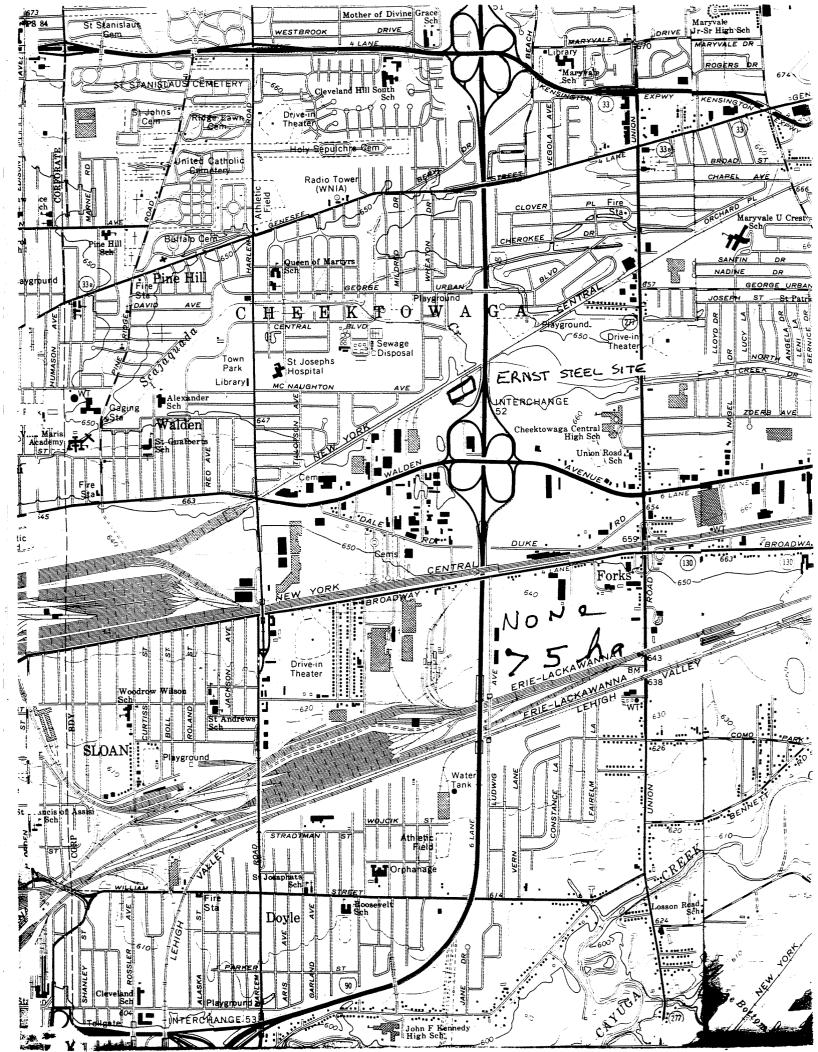
RECRA RESEARCH, INC.

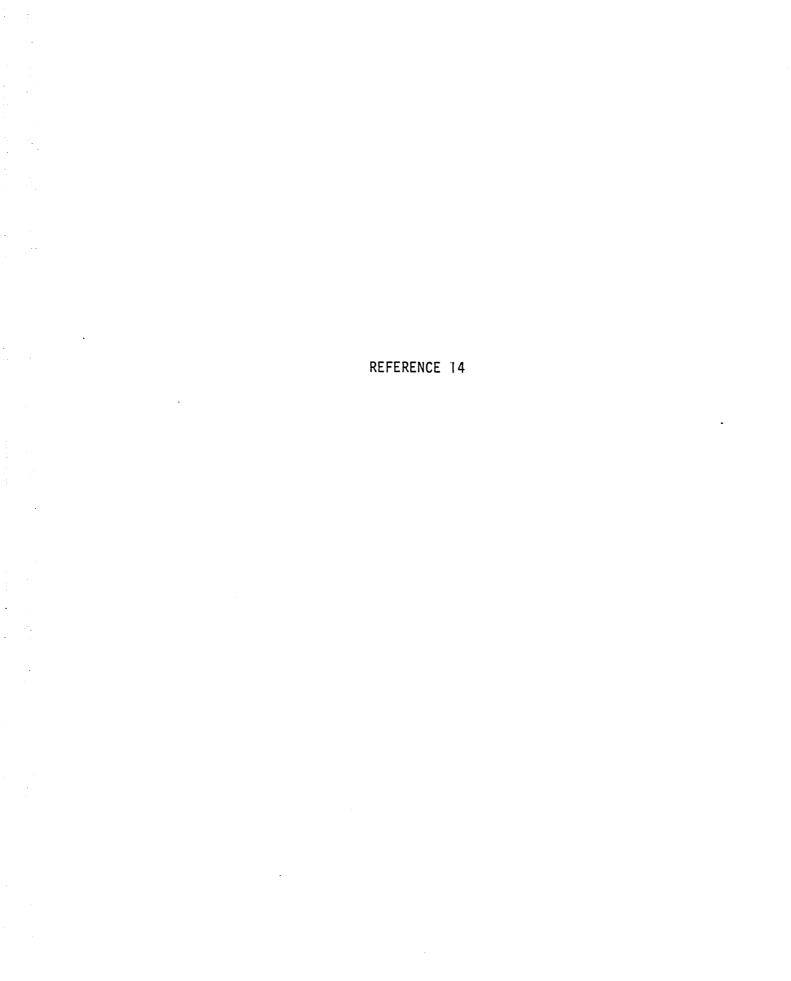
Sheldon S. Nozik

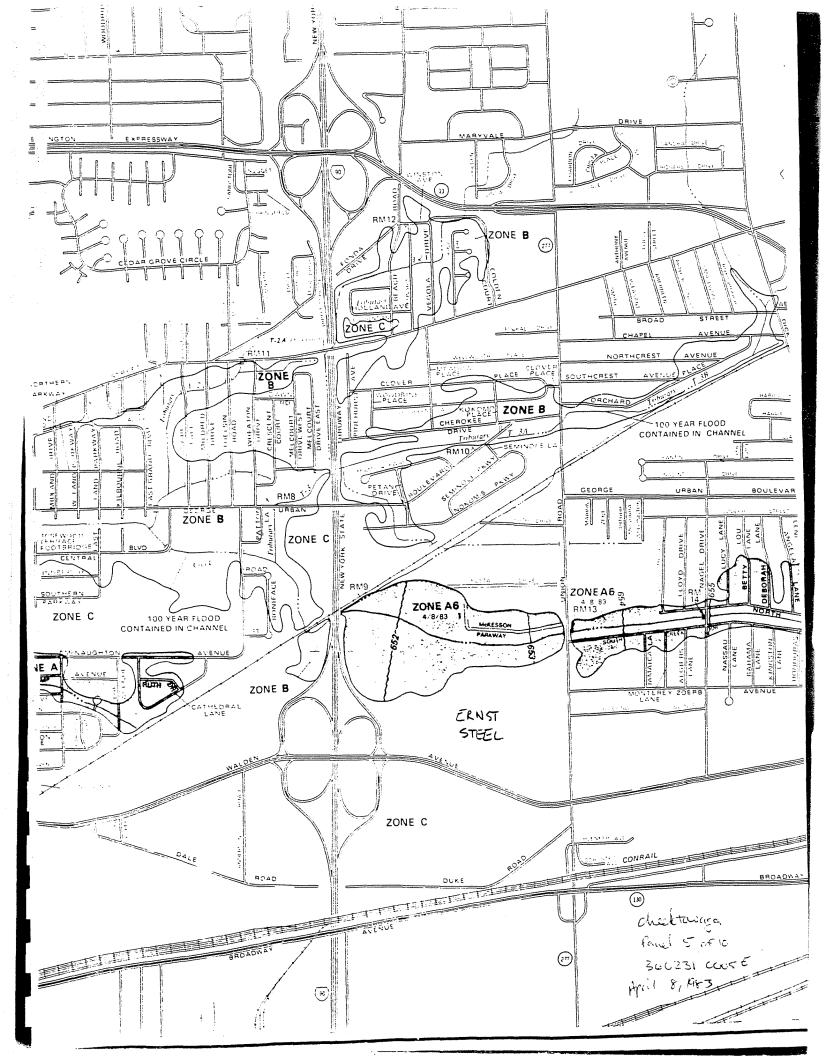
Environmental Specialist

SSN/jlo Enclosure









REFERENCE 15



Hazardous Waste And Toxic Substance Control

February 11, 1986

Mr. Frank Ernst, Vice President Ernst Steel Corporation P.O. Box 987 Buffalo, NY 14240

Dear Mr. Ernst:

Thank you for your assistance in the Phase I Superfund investigation we are currently conducting at the Ernst Steel site for the NYSDEC.

As part of the background search requirements for the NYSDEC Superfund sites, we the consultants, are required to have all of our interviews in person or by telephone, documented. Below is an account of our conversation on February 11, 1986. Would you please read the account and check the information for errors, sign at the bottom, and return the original to me. This is only to serve as documentation that the conversation took place.

- ° The site was a railroad car facility until 1933, when it went bankrupt. The area was covered by coal cinders believed to be from these operations.
 - ° The site was left vacant until 1953, when your company began operations.
 - ° Ernst Steel Corp. fabricated and erected steel bridges, etc.
- ° The company installed a wheel abrator blast cleaning machine which collected steel/iron dust, and the NYSDEC required a permit to dispose of this material on your property.
- ° Also disposed of in a low area behind the plant was floor sweepings consisting of fine steel drill shavings and old paint which had solidified into chunks called "Red Lead". Slag was also piled in this area.
- ° An incinerator was used to dispose of office paper waste and employee refuse.
 - ° The site was leased to U.S. Steel in 1983.
- $^{\circ}$ In 1982 the NYSDEC took soil samples in the area around the incinerator approximately 4 feet deep.
- $^{\circ}$ In 1985 the area around the incinerator was excavated to about 2 feet and the soil was piled up around this area.

 $\,^\circ$ To your knowledge no other material was ever landfilled or disposed of on site.

Thank you for your cooperation.

Sincerely,

RECRA RESEARCH, INC.

Sheldon S. Nozik

Environmental Scientist

SSN/jlo

Mr. Frank Ernst



REFERENCE 16

14-00-1 (7/84)

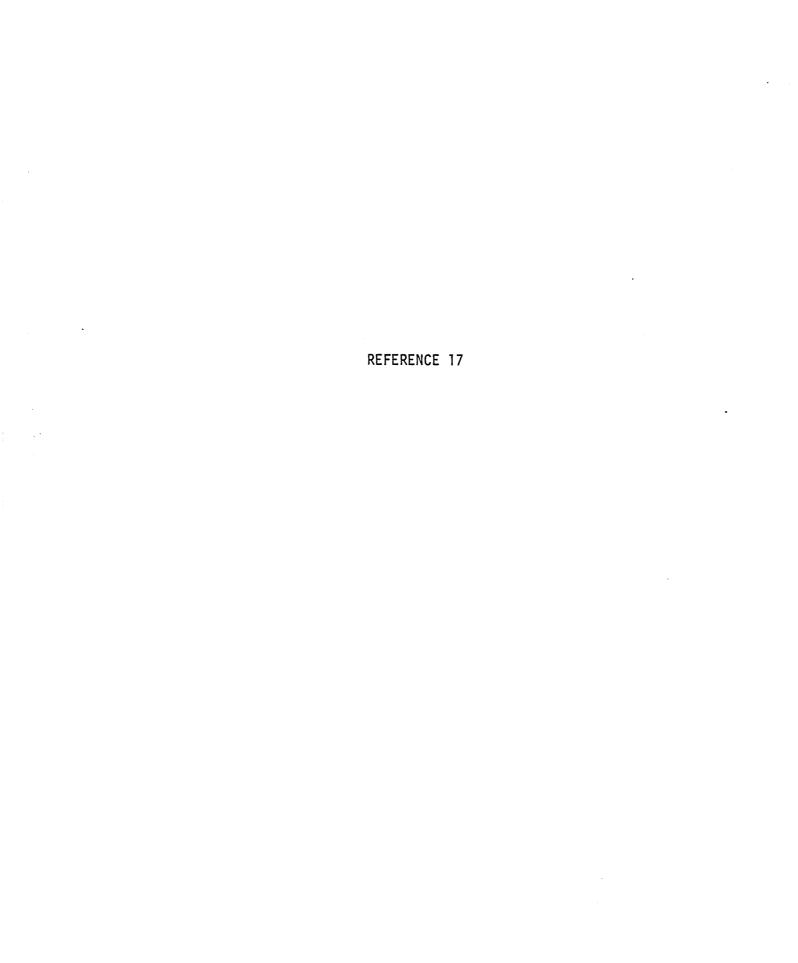
TRANKS FOR THE INFO.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGULATORY AFFAIRS

INTER-OFFICE SPEED MEMO
(USE ONLY FOR UNOFFICIAL COR-

RESPONDENCE)

Peter Buechi June 10, 1885 TO: DATE: awrence Clare FROM: REPLY REQUIRED BY: Emst Steel SUBJECT: DATE RETURNED: REPLY AT BOTTOM OF THIS FORM On June 11th I talked to Frank Ernst as a follow up to our meeting of Friday, May 24th. A review of our Sile and discussions with Tygert and Wozniah revealed 1.) Exact locations of 3 samples taken previous are not available from other memory or field notes. 2) No sample data is available other than DEC Sumpling Frank Ernst insists that nothing other than floor sweepings from his plant were deposited in one area , Prior owners of site (Penn RR) did run a car cleaning operation on site and may have disposed of additional material Ernst wants to sell a portion of this property to US Steel and develop another part. He will be writing you to inquiry he can do to delist the site, (Phase I Scheduling did not satisfy him, REPLY



CLLCE GIGC 33

MNUS

POTENTIAL HAZARDOUS WASTE SITE

EXECUTIVE SUMMARY

Ernst Steel Corporation		NYD 980508246
Site Name		EPA Site ID Number
1746 Walden Av	enue, Cheektowaga	02-8306-26
Address	NY 14240	TDD Number
Date of Site V	/isit: 9/28/83	
SITE DESCRIE	PTION	
fabricating, se practice used b	rvicing, and painting y Ernst Steel was to f	of large steel structures. The land disposal fill dispersions on the property with steel drillings and iron oxide dust from a bag-house.
in the woods. contamination w representative, steel service c	Small areas of dry pai as difficult to determ	scrap, rusty scrap drums and wood debris are scatter int sludge were observed, but the extent of the nine due to heavy vegetation. According to the site ap is to be removed for salvage. The site now serves steel Supply of Illinois. N: High Medium Low X
RECOMMEND	ATIONS	
A follow-up ins	pection is recommended ials and are properly	i to ensure that the scrap drums do not contain any removed. A determination of the extent of paint ent removal is also recommended.
Prepared by: W	illiam Neal	Date: 10/17/83
	NUS Corporation	**************************************

SEPA

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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY D980508246

PART	1 - SITE INFORMA	TION A	ND ASSESSMI	ENT	NY D	980508246	
II. SITE NAME AND LOCATION							
OT SITE NAME & opel common, or description assess of site)		02 STREE	T, MOUTE NO., OR	SPECIFIC LOCATION	CENTER		
Ernst Steel Corp.		1746	Walden Ave.				
os any		04 STATE	05 ZIP COO€	06 COUNTY		D7 COUNTY CODE	OS CO
Cheektowaga		NY	14240	Erie		029	~
	ONGITUDE						
42°5 5 01."N 7854	<u>'14" W.</u> _	İ					
10 DIRECTIONS TO SITE (Storing from reportal public road)							
New York Thruway to In	terchance !	52 W	alden At	re Take	Walde	n Ave I	West
The first driveway on	the right :	after	the thr	nway is	Ernst	Steel.	
The first driveway on Building now says U.S.	Steel Sup	ply.					
IIL RESPONSIBLE PARTIES							
01 OWNER (# Mo-m)		02 STREE	T (Business, making, re	: 4.40-cm/)			
Ernst Steel Corp.		128	0 Main S	Street			
as any			05 ZP COOE		NUMBER		
Du. 66-1-		NV	14240	716 89	E-500d		
Buffalo OF OPERATOR (Flaces and States from second)			II 4 Z 4 U T (Bueross, mains, re		<u>5-5004</u>		
		000112		;			
Same as owner							
os CITY		10 STATE	11 ZIP COOE	12 TELEPHONE	MUMBER		
				(,)			
13 TYPE OF OWNERSHIP (Check are)			:	\			
CLA PRIVATE D B. FEDERAL:	(Agency name)		_ C. STATE	E DD.COUNTY	O E. MUN	IICIPAL	
O F. OTHER:			_ DG. UNKN	юwи `			
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check of that apply)							
	<i>*</i>	ED WAST	E SITE PERSONALION	 LOL DATE RECEIVE	:n· /	, Xic	NONE
A. RCRA 3001 DATE RECEIVED:					ACH HENCH	Y YEAR	
IV. CHARACTERIZATION OF POTENTIAL HAZARD							
	Coca al Rus apply L. EPA DA B. EPA	CONTRA	CTOR []	C. STATE (ם מזאפת כ	ONTRACTOR	ł
MONTH DAY YEAR	LOCAL HEALTH OFFI	CIAL E	F. OTHER:		•		•
ביי איני ביי ביי ביי ביי ביי ביי ביי ביי ביי	TRACTOR NAME(S):	NUS (Corporation	on	(Soocey)		
02 SITE STATUS (Check see)	03 YEARS OF OPER	LTION					:
D'A. ACTIVE DB. INACTIVE DC. UNKNOWN		953	Pres	ent i	UNKNOWN		
**		EGINNING YE					
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOW	N, OR ALLEGED						
Steel Scrap, iron oxide d	lust, paint	slud	lge				
-	_						
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AN	DIOR POPULATION						
		:			a£ -11	1	
Paint sludge allegedly di					or ark	cyr res	7111
lead silica-chromate pigm	ent. Amou	nts a	ire unkn	own.			
V. PRIORITY ASSESSMENT							
01 PRIORITY FOR INSPECTION (Chuck one, if high or medium is should be	, complete Parl 2 - Waste Intern	nation and Parl	3 - Description of Maza	returns Conditions and Inc	spource)		
A. HIGH 9. MEDIUM proporting property) proportion required	CTC. LOW	redebit best	D. NONE	or oction needed, compl	10 CUTTOPE BEADOLE	en form)	
VL INFORMATION AVAILABLE FROM			-	-			
OI CONTACT	02 OF (Agency/Organiza					03 TELEPHONE	NUMBE
						201 321	
Mark Haulenbeek	USEPA Ed						00
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGA		07 TELEPHONE		08 DATE 11 /21	, 8
William Neal	USEPA	NUS	Corp.	201 22	5-616Q	HOMBI DAY	TEAR

ŞEPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

L IDENTIFICATION
O1 STATE O2 SITE NUMBER
NY D980508246

			PART 2 - WAST	E INFORMATION	4	NY D98	0508246
II. WASTES	TATES, QUANTITIES, AN	O CHARACTER					
	TATES (Check of their apply)	02 WASTE QUANT		1 03 WASTE CHARACT	ERISTICS (Check of that as		
MA. SOLID M. B. POWDE M. C. SLUDG LI D. OTHER	Q. A. SOLID		of waste quantities I independent)	# reste quantities 20 A. TOXIC L. B. CORROSIVE L. G. RADIOACTIVE L. C. RADIOAC		BLE I I HIGHL THOUS II J. EXPL MABLE II K. REAG ABLE II L. INCO	
	(Specify)	NO. OF DRUMS .					
III. WASTE T	YPE						
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE		Unknown		Dry Paint	Sludge	
OFM	OILY WASTE						
SOL	SOLVENTS				Paint is c	omprised of	alkyl -
PSD	PESTICIDES				resin, lea	d silica -	chromate
occ	OTHER ORGANIC CH	1EMICALS		<u> </u>	pigment.		
юс	INORGANIC CHEMIC	ALS					
ACD	ACIDS						
BAS	BASES						
MES	HEAVY METALS		Unknown		In the for	m of steel	scrap and
	DUS SUBSTANCES (500 Ap		ty cared CAS Mumbers)	Ţ	Iron Oxide	dust.	
01 CATEGORY	02 SUBSTANCE N	ME	03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	Unknown						
			ļ				
V. FEEDSTO	KS (See Appendix for CAS Number	l	<u> </u>				
CATEGORY	01 FEEDSTOCK		02 CAS NUMBER	CATEGORY	01 FEEDSTO	CX NAME	02 CAS NUMBER
FDS		-	02 000 110 110 11	FDS	J., 22310	CAME	OZ CAS NUMBER
FDS	Not Applicat	ole					
FDS				FDS			
FDS				FDS			
	OE INCORMATION			FDS			
TI. SOUNCES	OF INFORMATION (Cas so	echic references, e.g., s	itara Mas, sampia analysis, ra	100/18)			
New Y	York State Indu ction · 9/2	strial Was 18/83	ste Survey,	NYDEC, Alb	any, NY/NUS	FIT II Sit	е

\$EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION

O1 STATE O2 SITE NUMBER

NY D980508246

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

IL HAZARDOUS CONDITIONS AND INCIDENTS			
01 Ø A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 GBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	其 POTENTIAL	☐ ALLEGED
If large amounts of paint sludge exist	on site, there is a potential for	groundwater con	tamination.
01 € B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	D POTENTIAL	C ALLEGED
If large amounts of paint sludge	e exist on site, there is a	potential fo	r surface
water contamination through run			
01 □ C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	O POTENTIAL	☐ ALLEGED
No potential exists			
•			
01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED.	02 □ OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	C ALLEGED
No potential exists			
01 C E. DIRECT CONTACT	02 C OBSERVED (DATE:)	□ POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION	2 FOIENTIAL	_ ALLEGED
No potential exists			
01 & F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED	02 - OBSERVED (DATE 9/28/83) 04 NARRATIVE DESCRIPTION	O POTENTIAL	C ALLEGED
Dry paint sludge was found on t	he site. Due to past disp	osal practice	s, the
litter scattered over the site	and the heavy vegetation,	the extent of	the
contamination is unkown.			
01 C G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	C ALLEGED
No potential exists			
01 THE WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY-AFFECTED.	02 OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	D POTENTIAL	S ALLEGED
No potential exists			
01 I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	□ ALLEGED
No potential exists			

SFPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION 01 STATE 02 SITE NUMBER

\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PART 3 - DESCRIPTION OF HA	ZARDOUS CONDITIONS AND INCIDENTS	s NY ID9	80508246
II. HAZARDOUS CONDIT	TIONS AND INCIDENTS (Community			
01 J. DAMAGE TO FLO 04 NARRATIVE DESCRIPTI		02 🗆 OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
No Potential	. exists			
01 DK. DAMAGE TO FAU 04 NARRATIVE DESCRIPTI		02 D OBSERVED (DATE:)	☐ POTENTIAL	C ALLEGED
No potential	exists			
01 D L. CONTAMINATION 04 NARRATIVE DESCRIPTI		02 G OBSERVED (DATE)	☐ POTENTIAL	☐ ALLEGED
No potential	exists			!
01 M. UNSTABLE CONT		02 G OBSERVED (DATE)	E POTENTIAL	1 ALLEGED
03 POPULATION POTENTIA	ALLY AFFECTED 0	04 NARRATIVE DESCRIPTION		•
There is no co	ontainment			
01 ID N. DAMAGE TO OFF		02 TO OBSERVED (DATE)	E: POTENTIAL	F ALLEGED
No potential	exists			
01 0 CONTAMINATION 04 NARRATIVE DESCRIPTE		02 TOBSERVED (DATE)	☐ POTENTIAL	T ALLEGED
No potential	exists			
01 TAP ILLEGAL/UNAUTH 04 NARRATIVE DESCRIPTION		02 % OBSERVED (DATE 9/28/83)	F POTENTIAL	- : ALLEGED
		allons and smaller, were ob		
empty. One dr	um, a type 17E was not	. Most appeared to be the ted lying on its side with	open head t	type and closed. It i
- unknown it the	OTHER KNOWN, POTENTIAL, OR ALLEG	SED HAZARDS		
-				-
NONE	•			
III. TOTAL POPULATION	POTENTIALLY AFFECTED:	<u> </u>		
IV. COMMENTS				
other metal scrap		tures on the property and small areris were also noted. The large so		
	MATION (Cite specific references & g state fres si			
V. SOUNCES OF HATONA	RATIUN (Cité spécific references e.g. state mes, si	ampe analysis reports:		
Mr. Frank Ernst,	, Ernst Steel site represen	tative. NUS Fit II Site Inspection	on 9/28/83	

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT RT 1 - SITE I OCATION AND INSPECTION INCORMATION

	IFICATION
O1 STATE	02 SITE NUMBER
NY	D980508246

VEFA	PART 1 - SITE	SITE INSPECT			TION	Y	D9805082	46
II. SITE NAME AND LOC	ATION							
O1 SITE NAME (Legal, common, o	r describere name of site)		02 STRE	ET, ROUTE NO., OR SPE	CIFIC LOCATION IDENT	FIER		
Ernst Steel			174	6 Walden Ave	!•			Ì
03 CITY			04 STAT	E 05 ZIP CODE	DE COUNTY		07COUNTY	
Cheektowaga					Erie		029	DIST
09 COORDINATES LATITUDE 42 55' 01".N	78 54 14" W	10 TYPE OF OWNERSHIP OX A. PRIVATE F. OTHER	🗆 B. F	DERAL	C. STATE D. CO			AL.
III. INSPECTION INFORM	MATION							
01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION	ON					
09 / 28/ 83	CACTIVE	195	,	Present	UNKN	LOWN.		}
MONTH DAY YEAR	☐ INACTIVE		NING YE					- 1
04 AGENCY PERFORMING INS	PECTION (Check of that apply)							
C A. EPA ST B. EPA C	ONTRACTOR NUS COL	.	пск	MUNICIPAL D. MU	NICIPAL CONTRACT	OB.		- 1
☐ E. STATE ☐ F. STATE	(M	ame of firm)					(Name of firm)	
DE.STATE DE.STATE	CONTRACTOR	ame of himi	U G. C	THER	(Soecity)	***************************************		1
05 CHIEF INSPECTOR		06 TITLE			07 ORGANIZATION		08 TELEPHONE	NO
No.1		Environmen	tal	Scientist	NUS		201 ,225	-6160
William Neal		1					<u> </u>	
09 OTHER INSPECTORS		10 TITLE			11 ORGANIZATION		12 TELEPHONE	
Trudi Fanche	r	Environmen	tal	Scientist	NUS		201 1225	-6TE0
Tom Cosentin	10	Chemist			NUS		(201) 22	5-6160
~ _							()	
							()	
		•					()	
13 SITE REPRESENTATIVES IN	TERVIEWED	14 TITLE		15ADOBESS		***************************************	16 TELEPHON	E NO
	- A	Vice Presid	lant	1280 Main S			6	
Mr. Frank Err	ist	AICE FIEST		Buffalo, NY	14209		716 ⁾ 895	-5000
							()	
							()	
							()	
							()	
				,			()	
	and a second second second second second second second second second second second second second second second							
17 ACCESS GAINED BY	18 TIME OF INSPECTION	19 WEATHER CONDIT	HONS				····	
(Check one) DyPERMISSION WARRANT	1030 hrs.	Sunny 70	F					
IV. INFORMATION AVAIL	LABLE FROM	<u>, </u>						
01 CONTACT		02 OF (Agency/Organiza	tion)		······································	- 1	03 TELEPHONE	VO .
	1-	HEEDA EAS		N T			(201)321-	-6685
. Mark Haulenb		USÉPA, Edi			·			
04 PERSON RESPONSIBLE FO	R SITE INSPECTION FORM	05 AGENCY	i	GANIZATION	07 TELEPHONE NO.	- 1	OB DATE	
William Neal		USEPA	NUS	FIT	201-225-616	00	10 / 4	

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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY D980508246

ACI	7 A			E INFORMATION		NY	D9805	08246
II WASTES	TATES, QUANTITIES, AN	D CHARACTER						
	TATES (Check all that apply)	02 WASTE QUANT		03 WASTE CHARACTE	RISTICS (Check of that ag	~ 1	·····	
₩ A. SOLID ₩ B. POWDE M C. SLUDGE	☐ E. SLURRY	(Measures of must be TONS	f waste quantifies independent)	IS A. TOXIC B. CORROS C. RADIOA IS D. PERSISS	E. SOLUB	NOUS COMMENTS	I HIGHLY V J. EXPLOS I K. REACTIV I L. INCOMP I M. NOT AP	VE /E ATIBLE
LI D. OTHER	(Specify)	NO. OF DRUMS					J	
II. WASTE T	YPE							
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS			
SLU	SLUDGE		Unknown		Dry Paint S	Sludge		
OLW	OILY WASTE							
SOL	SOLVENTS				Paint is co		.a .e .	126007 -
PSD	PESTICIDES				resin, lead	-		-
осс	OTHER ORGANIC CH	IEMICALS			pigment.	4 3111	-a - C.	11 Oma ce
юс	INORGANIC CHEMIC				prometre.			
ACD	ACIDS							
BAS	BASES		 					
MES	HEAVY METALS		Unknown		In the for			
V HAZARDO	OUS SUBSTANCES (See As	nance for most frances			Iron Oxide		ceel S	Grap and
1 CATEGORY	02 SUBSTANCE N		03 CAS NUMBER	04 STORAGE/DISF		05 CONCE	NTRATION	06 MEASURE OF CONCENTRATION
	_							CONCENTRATION
٦.	Unknown							
			 					
							-	1
								-
v. FEEDSTO	CKS (See Appendix for CAS Mumb	era)	1			<u> </u>		1
CATEGORY	01 FEEDSTOC	01 FEEDSTOCK NAME		CATEGORY	01 FEEDSTO	CK NAME	1	02 CAS NUMBER
FDS	Not Applic	ahle		· FDS				
FDS	NOT APPLIC			FDS				
FDS				FDS				
FDS				FDS				
	S OF INFORMATION (Care	markt relevances	Siste Max Samon Samon	11				
New Inspe	York State Ind	ustrial Wa 28/83	aste Survey,	NYDEC, Alb	oany, NY/NUS	FIT I	I Site	!

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION 01 STATE 02 SITE NUMBER

PART 3 - DESCRIPTION OF H	AZARDOUS CONDITIONS AND INCIDENT	s <u>Ni pasosos246</u>
II. HAZARDOUS CONDITIONS AND INCIDENTS		
01 S A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED.	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL □ ALLEGED
If large amounts of paint sludge exist o	on site, there is a potential for g	roundwater contamination.
01 € B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL ☐ ALLEGED
If large amounts of paint sludge water contamination through run		potential for surface
01 © C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: No potential exists	02 OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	□ POTENTIAL □ ALLEGED
01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED. No potential exists	02 © OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	POTENTIAL ALLEGED
01 T E. DRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED No potential exists	02 C OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL ☐ ALLEGED
01 & F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED:		
contamination is unkown.		
01 C G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 □ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL ☐ ALLEGED
No potential exists		
01 H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL □ ALLEGED
No potential exists		
01 DI. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL ☐ ALLEGED
No potential exists		

\$EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY D980508246

	ON OF HAZARDOUS CONDITIONS AND INCIDENTS	NY	D980508246
II. HAZARDOUS CONDITIONS AND INCIDENTS (CA	pormued:		
01 G J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 G OBSERVED (DATE)	POTENTIAL	G ALLEGED
No Potential exists			
01 TK. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name/s) of species	02 G OBSERVED (DATE)	S POTENTIAL	. C ALLEGED
No potential exists			
01 ☐ L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 - OBSERVED (DATE: Structures)	☐ POTENTIAL	. JALLEGED
No potential exists			,
01 X M UNSTABLE CONTAINMENT OF WASTES (Spitz: Plunoff Standing voluds Leaking drums: 0 O3 POPULATION POTENTIALLY AFFECTED: 0	02 _ OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	X POTENTIAL	_ ALLEGED
There is no containment.			
01 C N DAMAGE TO OFFSITE PROPERTY Q4 NARRATIVE DESCRIPTION	02 TOBSERVED (DATE)	POTENTIAL	
No potential exists		·	
01 TO CONTAMINATION OF SEWERS, STORM DRAIN 04 NARRATIVE DESCRIPTION	IS. WWTPs 02 OBSERVED (DATE)	_ POTENTIAL	ALLEGED
No potential exists			
01 3P ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 % OBSERVED (DATE 9/28/83)	_ POTENTIAL	☐ ALLEGED
area of the site. Drums were empty. One drum, a type 17E	, 55 gallons and smaller, were obs rusty. Most appeared to be the o was noted lying on its side with i	open head	i type and
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL	. OR ÅLLEGED HAZARDS		
NONE			
III. TOTAL POPULATION POTENTIALLY AFFECTE	D: 0		
IV. COMMENTS	U		
There are large and small scrap stee	el structures on the property and small are wood debris were also noted. The large sc areat to the environment.	eas of met rap materi	al shavings and al is slowly
V. SOURCES OF INFORMATION (Cité specific references é	g state lines sample analysis reports.		
Mr. Frank Ernst, Ernst Steel site	representative. NUS Fit II Site Inspection	n 9/28/83	

.€FP∆

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION

	IFICATION
O1 STATE	02 SITE NUMBER

VLIA	PART 4 - PERMIT	T AND DE	SCRIP	TIVE INFORMATI	ION L	NY D980508246		
II. PERMIT INFORMATION								
01 TYPE OF PERMIT ISSUED (Check of that apply)	02 PERMIT NUMBER	03 DATE IS	SSUED	04 EXPIRATION DATE	05 COMMENTS			
□ A. NPDES					NONE			
□ B. UIC						· · · · · · · · · · · · · · · · · · ·		
□ C. AIR								
								
D. ACRA								
☐ E. RCRA INTERIM STATUS								
		_						
G. STATE (Specify)								
H. LOCAL (South)								
☐ I. OTHER (Specify)								
EZJ. NONE								
III. SITE DESCRIPTION			,			,		
01 STORAGE/DISPOSAL (Check all that apply) 02	AMOUNT 03 UNIT 0	F MEASURE	04 TR	EATMENT (Check all that a	poly)	05 OTHER		
□ A. SURFACE IMPOUNDMENT			GA.	NCENERATION		IX A. BUILDINGS ON SITE		
	known		□ B. t	UNDERGROUND INJE	ECTION	LAX. BUILDINGS ON SITE		
C. DRUMS, ABOVE GROUND				CHEMICAL/PHYSICA	L	1		
D. TANK, ABOVE GROUND			i e	BIOLOGICAL		06 AREA OF SITE		
	known			WASTE OIL PROCES	-	OS AREA OF SITE		
☐ G. LANDFARM			☐ F. SOLVENT RECOVERY ☐ G. OTHER RECYCLING/RECOVERY ☐ 3.0-			3.0-4.0 (Acres)		
3 H. OPEN DUMP			j	OTHER				
I. OTHER				(Soe	rcafy)			
07 COMMENTS			L	-				
Site is cluttered with	scrap steel,	piles o	of wo	ood debris	and rusty	scrap drums. Ash		
from an on-site incine	rator was not	ed on t	the s	site and ev	idence of	dried orange paint		
sludge was also found.	The inciner	ator v	was ı	used to bur	n waste pa	per generated by		
the employees. The la	nd disposal p	ractic	e use	ed by Ernst	Steel was	to fill depression		
on the property with soxide dust from a bag-	teel drilling	s and	shav:	ings, other	floor swee	epings and iron		
IV. CONTAINMENT								
01 CONTAINMENT OF WASTES (Check one)								
A. ADEQUATE, SECURE	B. MODERATE	翼 C. IN	NADEQU	ATE, POOR	D. INSECUR	E. UNSOUND, DANGEROUS		
02 DESCRIPTION OF DRUMS, DIKING, LINERS, BAR	RIERS, ETC.							
Most of the scrap drum	s found on-si	te wer	e cu	t open and	stored ups	side down. Some		
				a diacovere	d that cor	ild possibly con- i		
had holes punched in t tain liquid. More than	1 50 scrap dru	ims of	vari	ous sizes w	ere obser	ved on-site.		
Control was and the control of the c	_			•				
V. ACCESSIBILITY								
01 WASTE EASILY ACCESSIBLE: YES	(C) NO							
The site is completely fenced in. Waste is not accessible to the general public.								
VI. SOURCES OF INFORMATION ICAS EDOCA	no references, e.g. state lifes, sam	DIS BRIBLYSIS, 1900	0/18)					
we bit II cita Imana	ation 0/29/93	3						
	NUS Fit II Site Inspection 9/28/83							
NYDEC Region 9 Files						,		

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION									
-	O1 STATE	02 SITE NUMBER							
	NY	D980508246							

SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA NY D980508246								
II. DRINKING WATER SUPPLY								
01 TYPE OF DRINKING SUPPLY (Check as applicable)		02 STATUS		···········		03	DISTANCE TO SITE	
SURFACE	WELL.	ENDANGERE	D AFFE	CTED I	MONITORED			
COMMUNITY A. &	B. 🗆	A. D	8.		C. [3K	_	10.0 (m	0
NON-COMMUNITY C.	0. 🗆	- D . 🗆	Ε.	0	F. 0	8.	(m	1)
III. GROUNDWATER								
01 GROUNDWATER USE IN VICINITY (Checi	☐ 8. DRINKING (Other sources events)	DUSTRIAL, IRRIGATIO	<u>A.</u>	OMMERCIAL.	INDUSTRIAL, IRRIGAT cos averación)	NON '	🗆 d notused, unu:	SEABLE
02 POPULATION SERVED BY GROUND WA	TER 0		03 DISTANC	E TO NEARES	ST DRINKING WATER V	VELL	>25.0 _{(m}	и)
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GRO	UNDWATER FLOW	06 DEPTH TO		07 POTENTIAL YIEL OF AQUIFER	٥	08 SOLE SOURCE	AQUIFER
▶ 1.5(n)	West		N/A	(ft)	N/A	(and)	☐ YES	S NO
09 DESCRIPTION OF WELLS (Including usees)						_ (gpd)	<u> </u>	
Wells in the area a	re used for :	industrial	purpos	es onl	У			
10 RECHARGE AREA			11 DISCHAR	GE AREA				
XC YES COMMENTS Area Erie	discharges to	o Lake	☐ YES 52 NO	COMMENT	rs			
IV. SURFACE WATER						***************************************		
01 SURFACE WATER USE (Check one) A. RESERVOIR, RECREATION DRINKING WATER SOURCE		N, ECONOMICALLY TRESOURCES	□ c . c	COMMERCIA	AL, INDUSTRIAL	ם	D. NOT CURRENT!	Y USED
02 AFFECTED/POTENTIALLY AFFECTED B	ODIES OF WATER							
NAME.					AFFECTED		DISTANCE TO SI	TE
Scajaquada Cre	ek				_		Adjacent	4
Dodjagada Ore					0			(mi) (mi)
								(mi)
V. DEMOGRAPHIC AND PROPERT	Y INFORMATION			······································		· · · · · · · · ·		
01 TOTAL POPULATION WITHIN				02	DISTANCE TO NEARE	ST POP	ULATION	
	WO (2) MILES OF SITE B. 20,000 NO. OF PERSONS	c. 4	B) MILES OF S	SITE	<0.1			
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE		04 DISTANCE	E TO NEARES	T OFF-SITE BUILDING	i		
05 POPULATION WITHIN VICINITY OF SITE	Provide narrative description of r	sature of population within s	ncinty of site, e.g	rural, vidage, o	rensely populated urban ar	P&)		
Ernst Steel Corp i	s located in	a medium o	density	urban	area.			

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

SEPA SITE INSPECTION PART 5 - WATER, DEMOGRAPHIC, A				EPORT		1 1	STATE 02 SITE NUMBER NY D980508246
VI. ENVIRONMENTAL INFORMA	ATION						
01 PERMEABILITY OF UNSATURATED 2	ONE (Checa on	e)					
□ A. 10 ⁻⁶ - 10 ⁻	f cm/sec	2 8. 10 ⁻⁴ → 10 ⁻⁶ cm/sec	C. 10-4 -	- 10 ⁻³ cm	/sec 🗆 D. GRI	EATER THAN	10 ⁻³ cm/sec
02 PERMEABILITY OF BEDROCK (Check	one)						
☐ A. IMPERI (Less then	MEABLE 10 ⁻⁶ cm/sec)	2 B. RELATIVELY IMPERMEABL (10 ⁻⁴ - 10 ⁻⁶ cm/sec)	LE C.	RELATIVEL	Y PERMEABLE	D. VERY	PERMEABLE when 10 = 2 cm/sec;
03 DEPTH TO BEDROCK	04 DEPTH C	OF CONTAMINATED SOIL ZONE		05 SOIL pr	1		
25.0 (ft)		Unknown (n)		Unk	nown		
06 NET PRECIPITATION	07 ONE YEA	IR 24 HOUR RAINFALL	OB SLOPE SITE S		DIRECTION OF	SITE SI OPE	TERRAIN AVERAGE SLOPE
17.5 (in)	3.	. 0 (in)	0-1.	_	East	J. 2 020. 2	0.5
09 FLOOD POTENTIAL	1	10			L		
SITE IS IN 100 YEAR FLO		☐ SITE IS ON BARRI Not Ap	plica	ble			
11 DISTANCE TO WETLANDS 15 acre miner	um)		12 DISTAN	CE TO CRIT	CAL HABITATION	ndangered apecx	95)
ESTUARINE		OTHER			Not App	licable	<u> (mi)</u>
A Not Appliqabl	.e _{B.} _	3.0 (m)	E1	IDANGERE	D SPECIES. N	ONE	
13 LAND USE IN VICINITY							
DISTANCE TO.							
~ COMMERCIAL/INDUSTR	NAL	RESIDENTIAL AREAS; NATION FORESTS, OR WILDLIF			PRIME	AGRICULT AG LAND	URAL LANDS AG LAND
A <u>0.1</u> (mi)		B	(mi)		c. >20.	0(mi)	D. >10.0 (mi)
14 DESCRIPTION OF SITE IN RELATION							
The site is located in an area with relatively flat terrain. Railroad tracks separate the site from a large housing complex to the north. The New York thruway and exit 52 interchange lie immediately east of the site.							

VII. SOURCES OF INFORMATION (Cae specific references, e.g., state fees, semple energiss, reports)

USGS 7.5' Topographic Map NUS Fit II Site Inspection 9/28/83

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

ľ	IDENT	TIFICATION
01	STATE	02 SITE NUMBER
	NY	D980508246

II. SAMPLES TAKE	EN .	•	ACT O SAME EL ATO L'ILLO HAF ORMATION				
		01 NUMBER OF	02 SAMPLES SENT TO	03 ESTIMATED DATE			
SAMPLE TYPE		SAMPLES TAKEN		RESULTS AVAILABLE			
GROUNDWATER			No Samples Taken				
SURFACE WATER	1						
WASTE							
AR							
RUNOFF							
SPILL							
SOIL				•			
VEGETATION							
OTHER				·			
III. FIELD MEASUR	EMENTS TA	KEN					
01 TYPE		02 COMMENTS					
Air Quali	ty	No reading	s above background were obtained using the H	NU.			
`*-							
IV. PHOTOGRAPH	S AND MAPS						
01 TYPE 🕱 GROUN	ND C AERIAL		02 IN CUSTODY OF NUS CORp. USEPA. Edison, NJ				
03 MAPS	04 LOCATION						
© YES □ NO	<u> </u>	Attached as Appendix A					
V. OTHER FIELD D	ATA COLLE	CTED (Provide nerrative des	scrption;				
Field Not	es						
			•				
	-			•			
VI. SOURCES OF,II	NFORMATIO	N (Cite specific references, e	i Q . State files: sample analysis, reports)				
NUS Fit I	I Site I	Inspection 9	/28/83				

\$EPA			ECTION REPORT NER INFORMATION		980508246
I. CURRENT OWNER(S)			PARENT COMPANY (11 ADDICADO)		
1 NAME		02 D+8 NUMBER	OB NAME		09 D+8 NUMBER
Ernst Steel Corp.			Not Applicable		
3 STREET ADDRESS IP O Box. RFD #, etc 1		04 SIC CODE 3792	10 STREET ADDRESS IP O Box. RFD #. etc 1		11 SIC CODE
1280 Main Street	ha STATE	07 ZIP CODE	12 CITY	112 STATE	14 ZIP CODE
	NY	14240	120,11	1331212	14 ZIF CODE
Buffalo NAME		02 D+B NUMBER	OB NAME		09 D+8 NUMBER
· · · · · · · · · · · · · · · · · · ·					o o o nomocin
3 STREET ADORESS (P.O. Box, RFD P. etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, AFD #, etc.)		11 SIC CODE
D5 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
DI NAME		02 D+8 NUMBER	OB NAME		09 D+8 NUMBER
3 STREET ADDRESS (P.O. Box, AFD F, etc.)		104 SIC CODE	10 STREET ADDRESS (P O Box RFD #, etc.)		11SIC CODE
U STREET ROUNESSTE U. 801. REUF, 811.1		04 3/6 6006	10 STREET ADDRESS (P.O. BOX. RED.F. BEC)		I TORC CODE
5 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
1 NAME		02 D+8 NUMBER	OB NAME		09 D + 8 NUMBER
D3 STREET ADDRESS (P O Box RFD + etc.)		04 SIC CODE	10 STREET ADDRESS P 0 Box. RFD # etc 1		11 SIC CODE
5 CITY	06 STATE	07 ZIP CODE	12 CITY .	13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (List most recent to	rsti		IV. REALTY OWNER(S) IN ADDRESS HELD	ost recent hrst)	
1 NAME		02 D+8 NUMBER	Not Applicable		02 D+8 NUMBER
Not Applicable		10.00000			
3 STREET ADDRESS (P O. Box, RFD #, etc :		04 SIC CODE	03 STREET ADDRESS (P.O. Boz. RFD . etc.)		04 SIC CODE
5 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
1 NAME		02 D+8 NUMBER	01 NAME	<u> </u>	02 0+8 NUMBER
3 STREET ADDRESS (P.O. Box, RFO P. Mc.)		04 SIC CODE	03 STREET ADDRESS (P O Box RFD + etc.)	-	04 SIC CODE
5 CITY	06 STATE	07 ZIP CODE	05 CITY	OB STATE	07 ZIP CODE
1 NAME		02 D+B NUMBER	01 NAME	<u> </u>	02 D+8 NUMBER
3 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P O Box. RFD #. etc.)		04 SIC CODE
CITY	06 STATE	07 ZIP GODE	05 CITY	08 STATE	07 ZIP CODE
/. SOURCES OF INFORMATION (C40 ED			<u> </u>		
. COUNCES OF INFORMATION (CAR	www.reservices.	v.y., surre mez. sampre enerys	*2, F#***(3)		
NYDEC Region 9 Files					
NYDEC Region 9 Files					

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

1	TEICATION
01 STATE	02 SITE NUMBER D980508246
NY	D980508246

\/			PART 8 - OPERA	TOR INFORMATION	מן זא	980308246	
II. CURRENT OPERAT	OR (Provide if different from	Owner!		OPERATOR'S PARENT COMPANY (# appartages)			
01 NAME			02 D+8 NUMBER	10 NAME	r	1 D+8 NUMBER	
US Steel Su	pply			Not Applicable	1		
03 STREET ADDRESS (P.O.			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc	G. <i>1</i>	13 SIC CODE	
13535 S. Tor	rence Ave		ĺ				
05 CTY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	6 ZIP CODE	
Chi		TTT	60633				
Chicago 08 YEARS OF OPERATION	09 NAME OF OWNER	ILL	60633				
				305,404,000			
III. PREVIOUS OPERA	OH(S) (List most recent in	EL PROVIDE ON		PREVIOUS OPERATORS' PARE			
Olname Ernst Steel C	orp.		02 D+8 NUMBER	Not Applicable		1 D+B NUMBER	
			- In	• •		7	
03 STREET ADORESS (F O. 8	ax, AFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, at	c.)	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 D	URING THE	PERIOD				
	Ernst Stee	el Cor	p				
01 NAME	1		02 D+B NUMBER	10 NAME	I.	11 0+8 NUMBER	
03 STREET ADORESS (P.O. A	ns RED # etc.l		04 SIC CODE	12 STREET ADDRESS (P O Box, RFD #, etc		113 SK CODE	
				The divides produced from but, proof, the	• •	7000000	
05 CITY		OR STATE!	07 ZIP CODE	14 CITY	[
U5 C11 F		OBSIAIE	07 ZIP CODE	114 CITY	ISSIAIE	16 ZIP CODE	
					l		
08 YEARS OF OPERATION	09 NAME OF OWNER	DURING THE	SPERIOD				
01 NAME			02 D+8 NUMBER	10 NAME		11 D+8 NUMBER	
03 STREET ADDRESS (P.O. &	us, RFD F, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, en	c.)	13 SIC CODE	
OS CITY		06 STATE	07 ZIP CODE	14 CITY	115 STATE	16 ZIP CODE	
				-			
00 VEADO DE DECRAPO	Loo Marie de directe	110016 5	· orono				
08 YEARS OF OPERATION	09 NAME OF OWNER D	WHING THE	PENICO				
IV. SOURCES OF INFO	RMATION (Cre specific	references. e	g , stare files, sample analys	g. reports)			
			· · · · · · · · · · · · · · · · · · ·				

NUS Fit II Site Inspection 9/28/83

	P	OT	ENTIAL HAZAI	RDOUS WASTE SITE	I. IDENTIFI	- · · · · · · ·
\$EPA			SITE INSPEC	TION REPORT		SITE NUMBER 980508246
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PART	9 - G	ENERATOR/TRA	ANSPORTER INFORMATION	NI [D	980308246
II. ON-SITE GENERATOR						
01 NAME		02 0	+8 NUMBER	1		
Ernst Steel Corp						
03 STREET ADDRESS (P O Box, RFD P etc.)			04 SIC CODE	1		
1746 Walden Ave			3792			
OS CITY	08 STATE	07 Z		1		
Cheektowaga	NY	14	1240			
III. OFF-SITE GENERATOR(S)	!	<u> </u>				
01 NAME		02 0	+B NUMBER	01 NAME		02 D+B NUMBER
NONE	:			1		
03 STREET ADDRESS (P O Box. RFD # etc.)	······································	l	04 SIC CODE	03 STREET ADDRESS P O Box RFD # etc)		04 SIC CODE
OS CITY	06 STATE	07 Z	IP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 0	+8 NUMBER	01 NAME		02 0+8 NUMBER
						}
03 STREET ADDRESS (P O Box RFD # etc.)		L	04 SIC CODE	03 STREET ADDRESS (P O Box. RFD #, sic)		04 SIC CODE
OS CITY	06 STATE	07 Z	IP CODE	05 CITY	06 STATE	07 ZIP CODE
		ļ				
IV. TRANSPORTER(S)		·				1
01 NAME		02 0	+ B NUMBER	01 NAME		02 D+B NUMBER
Not Applicable						
03 STREET ADDRESS (P Q Bax, RFD #, etc.)		<u></u>	04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD #, etc.)		04 SIC CODE
,						
05 CITY	06 STATE	07 Z	IP CODE	05 CITY	06 STATE	07 ZIP CODE
	,					
D1 NAME	<u> </u>	02 0	+8 NUMBER	01 NAME		02 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	<u>.</u>	L	04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD #. etc :		04 SIC CODE
05 CITY	06 STATE	07 2	IP CODE	OS CITY	06 STATE	07 ZIP CODE
		1			1	
V. SOURCES OF INFORMATION (Cate specific	-/		20 (des campia servica :			
NUS Fit II Site Inspect	ion	9/2	98/83	<i>.</i>		
NUS FIT II SITE INSPECT	1011	J / Z	.0, 03			
						•
				·		
.						

EPA FORM 2070-13 (7-81)

V	7/	١

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

	TIFICATION
O1 STATE	02 SITE NUMBER
NY	D980508246

		PART 10	- PAST RESPONSE ACTIVITIES	NI D980308246
AST RESPONSE ACTIVITIES	ed)			
01 R. BARRIER WALLS CONSTRU 04 DESCRIPTION	CTED		02 DATE	03 AGENCY
	NO	PREVIOUS		
01 S. CAPPING/COVERING 04 DESCRIPTION			02 DATE	03 AGENCY
	NO	PREVIOUS	ACTION	
01 T. BULK TANKAGE REPAIRED 04 DESCRIPTION			02 DATE	03 AGENCY
		PREVIOUS	ACTION	
01 D U. GROUT CURTAIN CONSTRU 04 DESCRIPTION	JCTED		02 DATE	03 AGENCY
	NO	PREVIOUS	ACTION	
01 DV. BOTTOM SEALED 04 DESCRIPTION			O2 DATE	_ 03 AGENCY
04 DESCRIPTION	NO	PREVIOUS		
01 D W. GAS CONTROL			02 DATE	_ 03 AGENCY
04 DESCRIPTION	NO	PREVIOUS	ACTION	
. 01 TX. FIRE CONTROL 04 DESCRIPTION			02 DATE	03 AGENCY
	NO	PREVIOUS	ACTION	
01 C Y. LEACHATE TREATMENT 04 DESCRIPTION			O2 DATE	03 AGENCY
	NO	PREVIOUS	ACTION	
01 T Z. AREA EVACUATED 04 DESCRIPTION			02 DATE	03 AGENCY
	NO	PREVIOUS	ACTION	
01 [1. ACCESS TO SITE RESTRICT 04 DESCRIPTION	ED		02 DATE	03 AGENCY
	. NO	PREVIOUS	ACTION	
01 2. POPULATION RELOCATED 04 DESCRIPTION			02 DATE	O3 AGENCY
	NO	PREVIOUS	ACTION	
01 3. OTHER REMEDIAL ACTIVITY 04 DESCRIPTION	ES		02 DATE	03 AGENCY

NONE

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

NUS Fit II Site Inspection 9/28/83



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER NY D980508246

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION [] YES | XD NO

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

NONE

III. SOURCES OF INFORMATION (Cité specific reterences, e.g., state fées, sample analysis, reports)

NUS Fit II Site Inspection

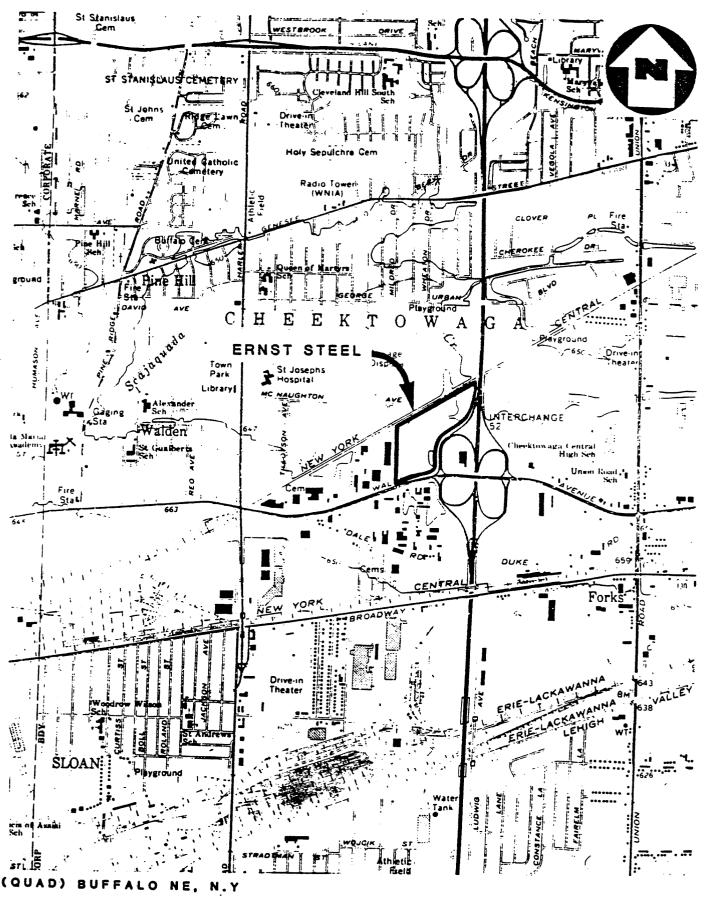
MAPS AND PHOTOS

Figure A-1 provides a Site Location Map.

Figure A-2 provides a Site Map.

Figure A-3 provides a Photo Location Map.

Exhibit A-1 provides photographs of the site.

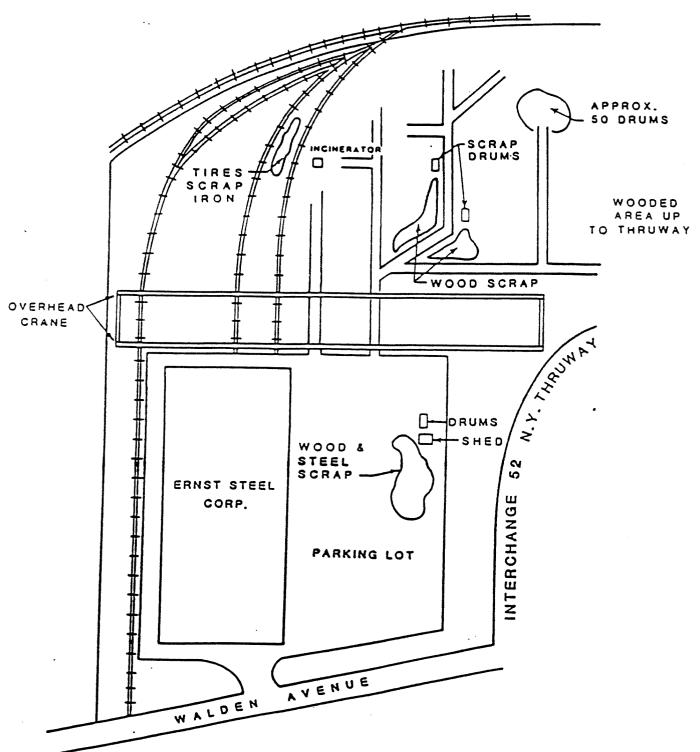


SITE LOCATION MAP ERNST STEEL CHEEKTOWAGA, N. Y

SCALE: 1"=2000"







SITE MAP ERNST STEEL CHEEKTOWAGA, N.Y

FIGURE A-2



(NOT TO SCALE)



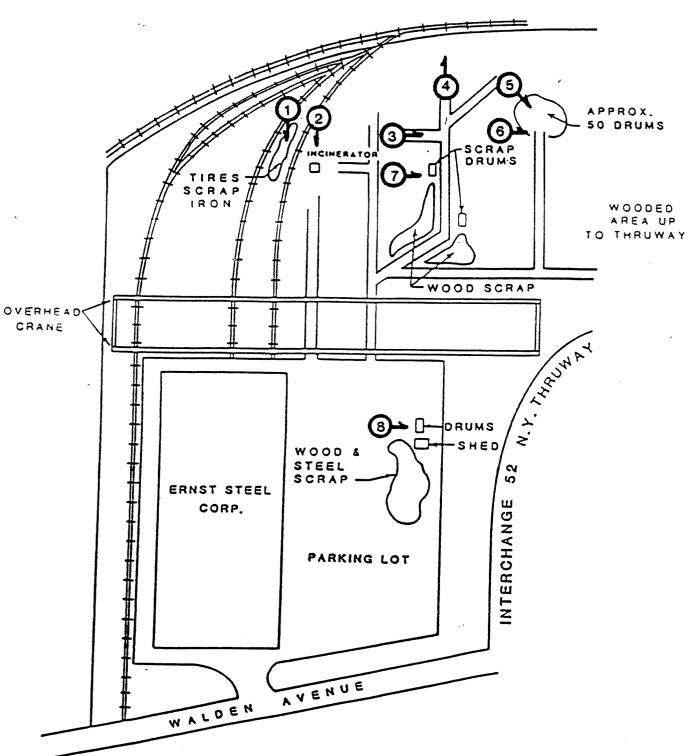


PHOTO LOCATION MAP ERNST STEEL, CHEEKTOWAGA, N.Y

FIGURE A-3



PHOTO INDEX

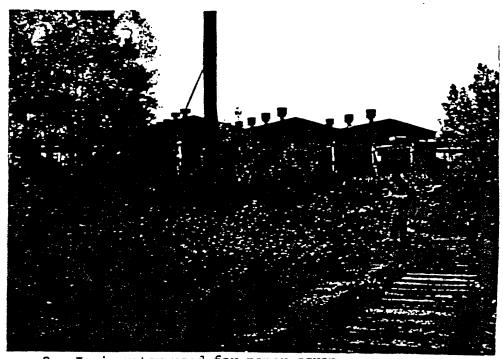
ERNST STEEL CHEEKTOWAGA, NY TDD# 02-8306-26 SEPTEMBER 28, 1983

- 1. Scrap steel and tires.
- 2. Incinerator used for paper scrap.
- 3. Partially buried drum.
- 4. Dried orange paint sludge.
- 5. Drums in woods stacked upside down. Drum in foreground is closed.
- 6. Scrap drums in woods. Approximately five similar accumulations exist in the woods.
- 7. Drums scattered in woods.
- 8. Empty drums from recent roofing work at Ernst Steel.





1. Scrap steel and tires.



2. Incinerator used for paper scrap.





3. Partially buried drum.



4. Dried orange paint sludge.

على ١٠٠ منتشب مهادي الماسية ال





5. Drums in woods stacked upside down. Drum in foreground is closed.



6. Scrap drums in woods. Approximately five similar accumulations exist in the woods.





7. Drums scattered in woods.



Empty drums from recent roofing work at Ernst Steel.

FABRICATORS

ERNST CONSTRUCTION

ERNST STEEL CORPORATION

1280 MAIN STREET

P. O. BOX 987

BUFFALO, N. Y. 14240

716/895-5000

May 1, 1979

New York State Department of Environmental Conservation 584 Delaware Ave. Buffalo, New York 14202

Attn: Mr. John Banaszak

our Company is erroneous.

Gentlemen:

We hereby inform you that the data as represented on page II-10 in the Draft Report dated March 1979 and titled "Interagency Task Force on Hazardous Wastes" concerning

The report to be correct should read as follows; Metal shavings, wood debris, and iron oxide dust 2600 gals./yr., dried paint sludge 250 gals./yr. From 1979 on 1200# of metal shavings, wood debris, and iron oxide dust, and 50 gallons total of dried paint sludge.

We respectfully request that the above corrected data be incorporated in the report prior to the presentation of the material at public hearings. We realize the survey was performed hastily in the interest of public safety and appreciate the inherent possibility of error. However, we do not want exaggerated figures to be the source of future controversy or erroneous conclusions in any further studies or actions you may contemplate.

We thank you for your cooperation in this matter.

Very truly yours,

ERNST STEEL CORPORATION

Efmer R. Ernst Elmer L. Ernst

President

ELE:js

To: File

From: Lawrence Clare

Re: Ernst Steel Corp

On May 24, 1985, a meeting was held in Region 9 with Frank and Elmer Ernst to review the file information on Ernst Steel Corp. Frank Emst was under the impression that this site had been delisted. The meeting was prompted by the NYS Health Dept. Field team's survey of the site at the request of Elmer Ernst.

Primary points covered:

- 1. Ernst Steel Corp (915021) is listed in bother the 1983 and 1984 Registry.
- 2. A Phase I investigation is sheduled for the next round (Fall, 1985)
- 3. Existing data shows metals contamination of of subsurface soil (4.5ft) and water.

 Emists' indicated that filling at that depth would have been by a previous awner.

 (Tank car fabrication by in railroad).

 The entire site is cinder fill (to 8ft)
 - 4. The Sampling data and registry were copied and given to Ernsts.
- 5. Ernst Steel is attempting to sell the steel featureation building & site to U.S. Steel.
- 6. Ernst would like more specific intermation on sampling locations (per Ahmad this is not available)
 7. Ernst may request delisting letter to Boachi.

	ment flade ///12/16 Phone Visit ///17/76	by Drucy's	Company Na Address		Constitution	me cruse sun
10110W-		by	Z	estable.	N'4. 14240	
orm Co		by Dille.	County	11 Eric	Phone 89	5-5000
ioπ ≥nt	S: 439 5 10 Re	climski /ch	/susic codes	1. 344.	/3,	
			')	<i>c</i>		
Much	ed again 10/18/76			Fatricutur	5 plant	
		Comp. 4/4/7. New York State Department of Division of Dad, Albany, N.	e Industrial Environmental Solid Waste	l Conservat Lanagenent		
I. Gene	ral Information					
1.	Company Name En	enst Ste	el Corp.			
	Mailing Address /2	80 Main S	7 /Su	ffalo	NY. State	14240 Zir
	Plant Location / / S				/ ,	. 1
	174 Street	16-1784 :	Walden City	the Che	state	N//·
2.	If Subsidiary, Name o	of Parent Compa	any			
3.	Individual Responsible for Plant Operations	e Frank Name	H Ernz	s+		
		VICE Pre	-sideat	-	7// 69 5- 17	
	-	Title			7/6 - 895 - 57 Phone	
₫.	Individual Providing Information Name	Arthur 1	1. Schu	essler	716 - 895 - 500	Sims from Mity facely)
	<u>Diafl</u> Title	snign / Envi	ton.		7/6 · 895 - 500 Phone	0 (x7 58)
5.	Department of Environ	nmental Conserv	vation Interv	iewer <u>Da</u>	a Guarkenbe	ish.
6.	Standard Industrial (Classification	(SIC) Codes : SIC Code	for Princip	al Products Approximate	° of
	Group Name		(4 Digit)	/	MProduction /	/Value Added
	a. Fabricated St.	witunal	3441	···	1000	
_	b. Nical					
	<i>C</i> •					
	d.					
7.	Processes Used at Pla	nnt.	,	8. Products		
	a. Shot blasting		•	a. 54	uctural Stee	E
	b. painting			b.	uccontinue	
	c. welling			c.		
	d. hole-punchine	<u> </u>		d.	•	
	e.			e.		
		,				

•	1. Taint - NYS' Dull Crango Pierner F.
	The crise a chief higher to go
	1
	·
J.	a. On Site Waste Water Treatment / Yes / WNO
	b. On Site Waste Water Treatment by July 1977 / Yes / No
	c. On Site Waste Water Treatment by July 1983 / Yes / No
	d. Industrial Sewer Discharge / /Yes / //No * Name of Sewage Treatment Plant
	e. SPDES No. NPDES No. NPDES No.
1.	a. Air Pollution Control Devices / Yes / THO Types (Achielahator, 4 print spun
	Inths)
	b. To Be Built / /Yes / /No by / /
	c. Air 100 Emission Point Registration Numbers 143089 1624 00001,- 5
2.	a. Number of manufacturing employees 148 b. Manufacturing Floor Space 167,000 sq.ft.
	Attach a plat or sketch of the facility showing the location of on-site process waste storage (if available).
.1	Attach flow diagrams of chemical processes including waste flow outputs (if available).
ž.	In-house waste treatment capabilities:
•	
. ر	Is there a currently used or abandoned landfill, dump or lagoon on plant property? Ves //N
7	Industrial wastes produced or expected to be produced by plant.
	1) Paint Sliedze. 2) Short Finst of 50 girls / who; mill seale, must, aust, clist 3)
	3) /
	5)
	6)
	8)
	- Comments:
Į	# 2 also goes to landfill; used on the average 4 holder, 52 da/gg.
	4 hrs Ha . T2 da /co
	2000

A SECTION OF THE PROPERTY OF T

<u>[.</u>	-	e Characterization and Management Practice separate form for each waste stream)				
	1.	Waste Stream No. / (from Form I, Number 17)				
	2.	Description of process producing waste Cleaning of water work				
		booth				
	3.	Brief characterization of waste paint Studge - hurdened frint				
: "		dit & dust				
	4.	Time period for which data are representative to				
	5.	a. Annual waste production 250 //tons/yr. / Tgal./yr.				
		b. Daily waste production/_tons/day //gal./day				
	c. Frequency of waste production: //seasonal /4occasional //continual					
		//other (specify) 2/42				
	6.	Waste Composition				
		a. Average percent solids% b. pH range to				
		c. Physical state: //liquid, //slurry, //sludge, //solid,				
•		//other (specify)				
		d. Component Average //wet weight Concentration //dry weight				
: .		1. Cilling - Hesin fraint [/wt.% //ppm				
		2. Ph Silica-Channel Sunet / Wt. % / 1000				
		3. Olivered oil vehick) North 1:45-5 [Twt. % / Topm				
		4				
		5				
		6				
		7				
	-	8				
		9				
		10				

	e.	Amalysis of composition is //theoretical //laboratory //estimate (attach copy of laboratory analysis if available)
	f.	Frojected / /increase, / /decrease in volume from base year:
	g.	Hazardous properties of waste: //flammable //toxic //reactive //explosive
		[]corrosive []other (specify) fatentially
7.	On	Site Storage
	a.	Method: /V/drum, //roll-off container, //tank, //lagoon, //other(specify)
	b.	Typical length of time waste stored 40 / /days, / weeks, / /months ?
	c.	Typical volume of waste stored 125 [tons, [gallons when grown with storage site diked? [Ves [The storage site diked?] [ves [The storage
	d.	Is storage site diked? //Yes #No is Soft
	e.	Surface drainage collection / Yes / No
8.	Tr	ansportation
	a.	Waste hauled off site by //you //others
	ь.	Name of waste hauler
		Address
		Street City
		State Zip Code Phone
9.	Tr	eatment and Disposal
	a.	Treatment or disposal: //on site //off site
	ь.	Waste is //reclaimed //treated //Iand disposed //incinerated
		//other (specify)
	c.	Off site facility receiving waste
		Name of Facility
		Facility Operator
		Facility Location
-		Street
		State Zip Code Phone

I.	'aste Characterization and Management 'Use separate form for each waste stre	
	1. Waste Stream No. 2 (from Form 1	, Number 17)
	2. Description of process producing w	easte Short blusting operation for
	polishing steel	
•	3. Brief characterization of waste	combination of steel that, dirt.
	scale, rust	
	4. Time period for which data are rep	presentative to
	5. a. Annual waste production 2600	/ /tons/yr. / fgal./yr. /dum /wk
	b. Daily waste production	//tons/day //gal./day
	c. Frequency of waste production:	//seasonal //occasional //continual
		//other (specify)
	6. Waste Composition	
	a. Average percent solids% b	p. pH range to
	c. Physical state: //liquid, //s	lurry, //sludge, //solid,
	//other (speci	fy)
	d. Component	Average //wet weight Concentration //dry weight
	1. Stack Short	/_/wt.% //ppm
	, ,	//wt.% //ppm
	3. dut	//wt.% //ppm
	4. Mist	/_/wt.% //ppm
	5	/_/wt.% / /ppm
	6	//wt.% / /ppm
	7	//wt.% //ppm
•	8	//wt.% //ppm
	9.	//wt.% / /ppm
•	10	

	e. Analysis of compos (attach copy of la				/estimate
	f. Frojected //incre	ase, //decrea	sein volume fro	om base year:	% by July 1977;
;	% by July 198	3.			
	g. Hazardous properti	es of waste: /			eactive //explosive
		_	//corrosive /		ify) profify none
7.	On Site Storage				, ,
	a. Method: //drum, /		ntainer, //tan)	k, //lagoon,	//other(specify)
	b. Typical length of	time waste sto	ored/_/da	ays, / weeks	,//months
	c. Typical volume of	waste stored_		s, //gallons	Jame on W.S.
	d. Is storage site di	ked? //Yes	Mo		the house it is not in
	e. Surface drainage c	collection //Y	ies //No		whenever they dend to bury it; not in winter, however
8.	Transportation				,
	a. Waste hauled off s	ite by //you	//others		
	b. Name of waste haul	.er			
	Address				
		Street		()	City
		State	Zip Code	Phone	
9.	Treatment and Disposa	ıI			
	a. Treatment or dispo	sal: jon sit	te //off site	e	
	b. Naste is //reclar	imed //treato	ed / Yland disp	osed //inci	nerated
	//other (specify)				
	c. Off site facility	receiving wast	te		
	Name of Facility_				
	Facility Operator_				
	Facility Location				
	5	Street		()	City
	5	State	Zip Code	· Phone	

,

.

<u>11'. Lu</u>	nd Disposal Questionnaire (for currently used or abandoned	l landfills, dumps, or lagoons)
1. a	. Are there detailed design and operational plans for the	site? //Yes //No
Ď	. Attach sketch of land disposal area showing location and soil classification, direction of groundwater flow, loca and other pertinent information.	tion of monitoring wells,.
2. a	. Does disposal site have a liner? / Yes / No	
b	. Type of liner	
С	. Thickness	
3. a	. Leachate collection? / Yes / No	
ь	. Leachate treatment? / Yes / YNO	
С	. Type of treatment	
4. a	. Shortest depth to groundwaterft.	
b	. <u>Classes</u> of soils underlying site (correlate with sketch)	Clay sand, top sail
		,
5. a	. Groundwater monitoring wells? / Yes / YNO	
	. Number of wells c. Well down gradient? / Yes	
6. N	on-industrial wastes disposed of at site? / Yes / Who	Ashes from uncenerator
	re different waste(s) disposed in specially segregated are	
8. I	s there security at disposal area (i.e. fences, signs)? / [Yes //No gll property
	re there contingency plans and equipment to handle possiblacility? / /Yes / No Attach if available.	le emergency situations at the
0. I	ndustrial wastes disposed of at site:	
	aste Stream	<i>Tolume/Year (please specify tons,</i> gallons, cubic yards)
	1 Precint residue Ph-S. Cro4 pegment	
	2 Shot blust resider - skel mill scale,	2600 930/40
	rust, Aust, Rest	
_		
-	***************************************	
-		

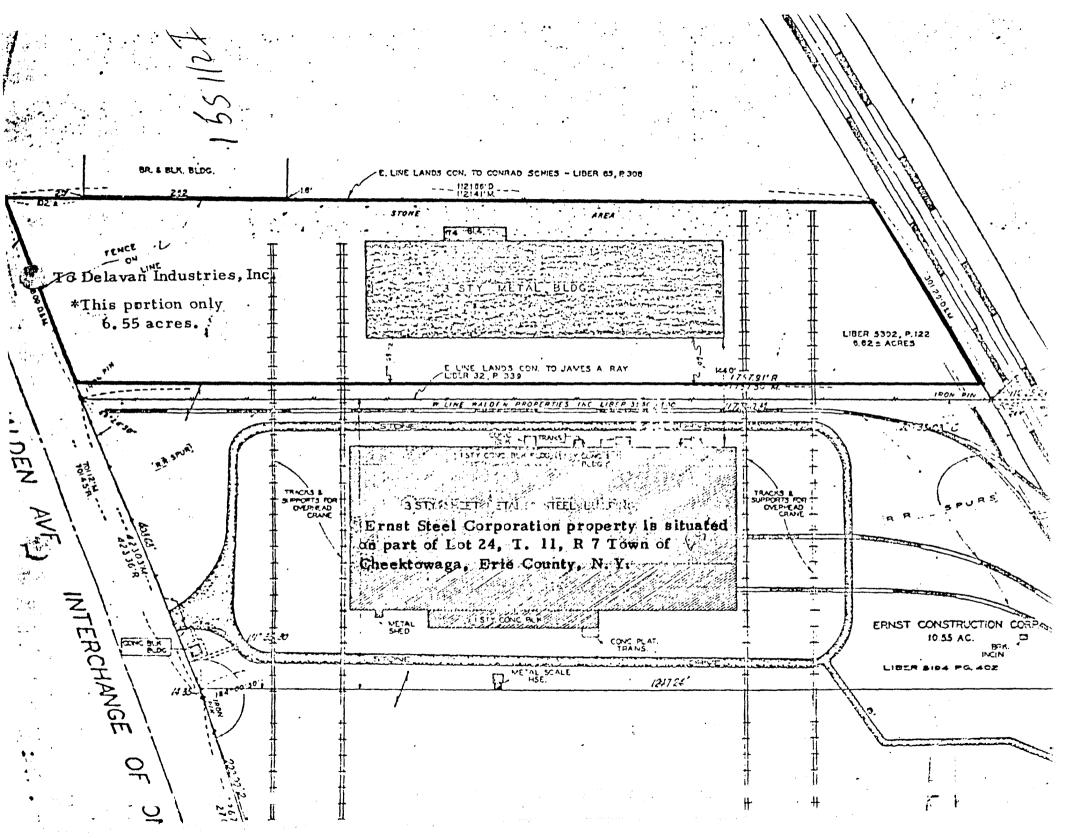
3

APPLICATION FOR APPROA SOLID WASTE MANAL		PROJECT NO.	
SEE APPLICATION INSTRUCTIONS ON REVERSE SIDE		DEPARIMENT ACTIO	= 111.5
OWNER'S NAME	2. ADDRESS (Street, City, State, Zip	1 -	3. Telephone No.
Past Real Corporation	1280 Main It., Buffall		716 395 5009
OPERATOR'S NAME	5. ADDRESS (Street, City, State, Zip		6. Telephone No.
			716 995 5000
ENGINEER'S NAME	8. ADDRESS (Street, City, State, Zip	Code)	9. Telephone No.
'mam . "pnet			1, 14224 716 373 1613
10. ON-SITE SUPERVISOR	11. ADDRESS (Street, City, State, Zip	Code)	12. Telephone No.
The same	121 Saver Til., Suite		1
HAS THE INDIVIDUAL NAMED IN ITEM 10 ATTENDE Tes Date Course Title			
DRO JECT (FACILITY NAME	Tie COUNTY IN WHICH	FACULTY IS LOCATED	THE CANADONNESS AND CONCERNATION
A PROJECT/FACILITY NAME .rnst teel Jurgoration	15. COUNTY IN WHICH	PACILITY IS LOCATED	16. ENVIRONMENTAL CONSERVATION REGION ;
	Seis	36 - 1 - 1 - 411 - 5	<u></u>
17. TYPE OF PROJECT FACILITIES: ☐ Composting ☐ Resource Recovery-Energy ☐ Resource Recovery-Energy ☐ Composting ☐ Resource Recovery-Energy ☐ Resource Recovery-Energy ☐ Resource Recovery-Energy ☐ Resource Recovery-Energy		Sanitary Landilli []	Incineration Pyrolysis
.J. HAS THIS DEPARTMENT EVER APPROVED PLANS AN AND/OR ENGINEERING REPORTS FOR THIS FACILITY		[] No	
9. LIST WASTES NOT ACCEPTED			
We intrigoa	ot wasta from our Plant	voiso ir stesi	irillia is and
	rt and dust from to a floor		
is the Villey of the		•	
O. BRIEFLY DESCRIBE OPERATION			
noion includes trilling, piani leare in very social medat eorees ne en eur inquetrini liere ure ap liquide dispesed	t if waste readentia in th property and later dove	ne ਹਨ ਹੈ ਜ਼ਿਲ੍ਹਾ ਵ	ลได้ที่ จากราช เชิงได้
	i >1•		
			-
			•
I. IF FACILITY IS A SANITARY LANDFILL, PROVIDE TH a. Total useable area: (Acres)	b. Distance to nearest offsite, down	gradient, c. No. of gro	undwater monitoring wells
Initially Currently	water supply well	Feet Upgradien	t Downgradient
2. INDICATE WHICH ATTACHMENTS, IF ANY, ARE INC Form 47-19-2 or SW-7 Operations Plan	& Report 🖈 USGS-Topographic Map 🛛	Record Forms	
☐ Construction Certificate ☐ Boring Logs	☐ Water Sample Analysis ☐] None	
 CERTIFICATION: I hereby affirm under penalty of perjury that inf and belief. False statements made herein are punish 			
the state of the s	402,		man dank
Date		ature and Title	

NEW YORK STATE DEPARTMENT ENVIRONMENTAL CONSERVATION
APPLICATION FOR APPROVAL TO CONSTRUCT

FOR STATE	USE ONLY
OJECT NO.	DATE RECEIVE
15 117 I	10/5/79
PARTMENT ACTION	DATE

	A SOLID WASTE !	MANAGEMENT FACII	LITY	1-51124	10/4/19			
				DEPARTMENT ACTION	†			
	APPLICATION INSTRUCTIONS ON REVERSE SIDE			Approved Dis				
	UWNER'S NAME	2. ADDRESS (Street, Ci		1700	3. Telephone No. 716 895 5000			
	Trans teel Corporation OPERATOR'S NAME	5. ADDRESS (Street, Ci	t., Buffals, N. V. 14	120	6. Telephone No.			
	mark test Corneration	1	St., Buffair, N.Y.	14200	716 305 5000			
	ENGINEER'S NAME	8. ADDRESS (Street, Ci			9. Telephone No.			
	Trast . Grast	754 Ta Brun	Rd., Eggartsville,	N. M. 14226	716 222 1633			
7b	NGINEER'S N.Y.S. LICENSE NO. 10. TYPE OF	PROJECT FACILITIES:						
			dding 🔲 Baling 🔲 Sanitary La Energy 🦳 Resource Recovery-Ma		adustri i			
11	riefly describe the project including the basic							
	the shavings and steel drill			un with the di	ast in the floor			
	al li posad of on our indust	,		-				
12	Describe location of facility. (Attach a USGS To	pographic Map showing the exa	ct location of the facility)					
	The state of the s	located in the Tow York State Thruwa	n of Cheektowaga a y.	djacent to Exi	it 32W			
13.	County in which facility is located:		14. Environmental Conservation	-	ty is located:			
	Trie		£4 7.12£	folg, M. T.				
15	<u>Municipalities S</u>	erved by Facility	,	County	No, of Municipalitie			
	` N/A							
1.	Describe briefly how the proposed facility relate	os to the Comprehensive Solid W	Vacto Management Plan for the Ma	micinality Evolain any	deviation from that Plan			
	If the facility is other than a sanitary landfill, dor, if recyclable, indicate markets:	lescribe the residues in terms o	f quantities and types. Also indic	cate the methods and lo	cations of residue disposal			
		and enswires that	ere swedt up from t	he flor with	omall om ont			
	•	of light are stad drillings and shavings that are swept up from the floor with small omont of our for the floor						
	Tighta Sei eata s taei.	a i y i i i qui i i qui i i qui qu		20 20010 - 10	• / , , , /			
	ျပည္သည္။ ကို မွာသည္ လူလိုမွာသည္။ ကို							
		following informations						
18.	If the facility is a sanitary landfill, provide the a. Total useable area —	- ' A	/A . Distance to nearest airport —		miles			
	b. Distance to nearest surface water —		Expected life of site -		man illics			
	c. Depth to nearest ground water —		. Is site on a flood plain? Yes		¬ No			
	d. Depth to nearest ground water =		. Predominant type of soil on site					
	d. Depth to hearest rock -	1661	(Use Unified Soil Classification					
19.	Anticipated construction starting and completion	n dates	20. Estimated Population Served Current	d Design	•			
	From N/A		N/A	Design ;				
<u> </u>	Estimated Cost		22. Estimated Daily Tonnages of	of Solid Waste				
۷,,	Initial , Annual	Using existing in-	Current	, Design				
	N/A dusti	vial property.	500# or 1 /4 ton					
2:	Operating Hours per Day		24. Are attached plans and spe	cifications in substantia	al conformance with			
	5 days a week,	l shifts.	"Content Guidelines for Pla	ans and Specifications"	? ☐ Yes ☐ No			
2.	CERTIFICATION: I hereby affirm under penalty of perjury that belief. False statements made herein are pun				it of my knowledge and			
	•	instable as a class vimounical			sident			
	10/3/78 Date			· re:	# 1 1 1 1 1 1 1 L			
	Date		Signature and Title					



Ch. Lamore

Mr. Tygert Mr. Clare Ernst Steel - Site No. 915022 June 13, 1986

On Thursday, May 29, 1986, a site inspection of the Ernst Steel site was made with Mr. Frank Ernst, Vice President of Ernst Steel Corporation at his request. Mr. Ernst requested this on-site meeting since he feels that no hazardous wastes were ever disposed of on this site as a result of Ernst Steel Operations.

The attached site sketch was prepared as a result of this inspection. The following points are relevant:

- 1. US Steel owns the structure and western half of the property.
- Waste Disposal During operation, floor drain contents including lead paint overspray, dust and grindings were disposed of on site.

Piles of red granular material is exposed throughout the northeast wooded area.

Large numbers of timbers are also exposed on the entire eastern half of the site. These are mainly untreated construction timbers -- used for crane outrigger pads, etc.

Three drums of oil were found during one previous inspection. Mr. Ernst is having this oil picked up for disposal.

- 3. Pond The pond adjacent to the abandoned incinerator was dug by
 Mr Ernst. Following DEC's 1982 sampling, the top three feet of earth
 was removed to look for any wastes which might have been buried in
 the area. None was found.
- 4. <u>US Steel</u> The current fabricating operations (similar to Ernst's previous operation) were briefly inspected. The plant is clean -- no oil on floors or obvious sources of waste liquids.

5. Surface Drainage

There is no natural surface drainage to the ditch along the railroad on the north

Floor drains from the plant are piped to a storm sewer on the west side of the plant

Roof drains are piped to the drainage ditch on Walden Avenue

Some surface drainage may leave the site through a break in the Town dike on the southeast corner of the site.

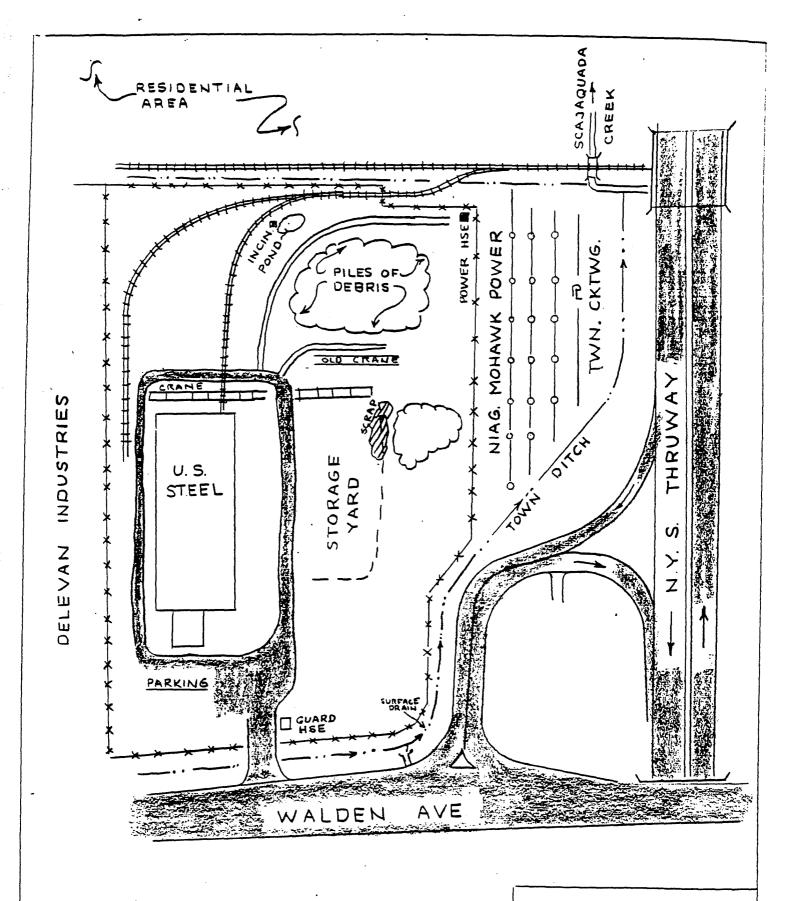
MOST surface water remains on site.

6. Exast Steel Corporation - Is no longer in the steel business. All fabricating operations in New York and Titusville, PA have been terminated. Assets are being disposed of.

Mr. Ernst is anxious to resolve the listing of this site as an Inactive Hazardous Waste Site so that the property can be sold. Since there is no record of hazardous waste being disposed of on site, there does not seem to be a sound basis for believing this site is of major significance.

It is my recommendation that an EP Toxicity test be performed on two separate composite samples of the on-site wastes to determine whether or not a Phase II Investigation is even needed.

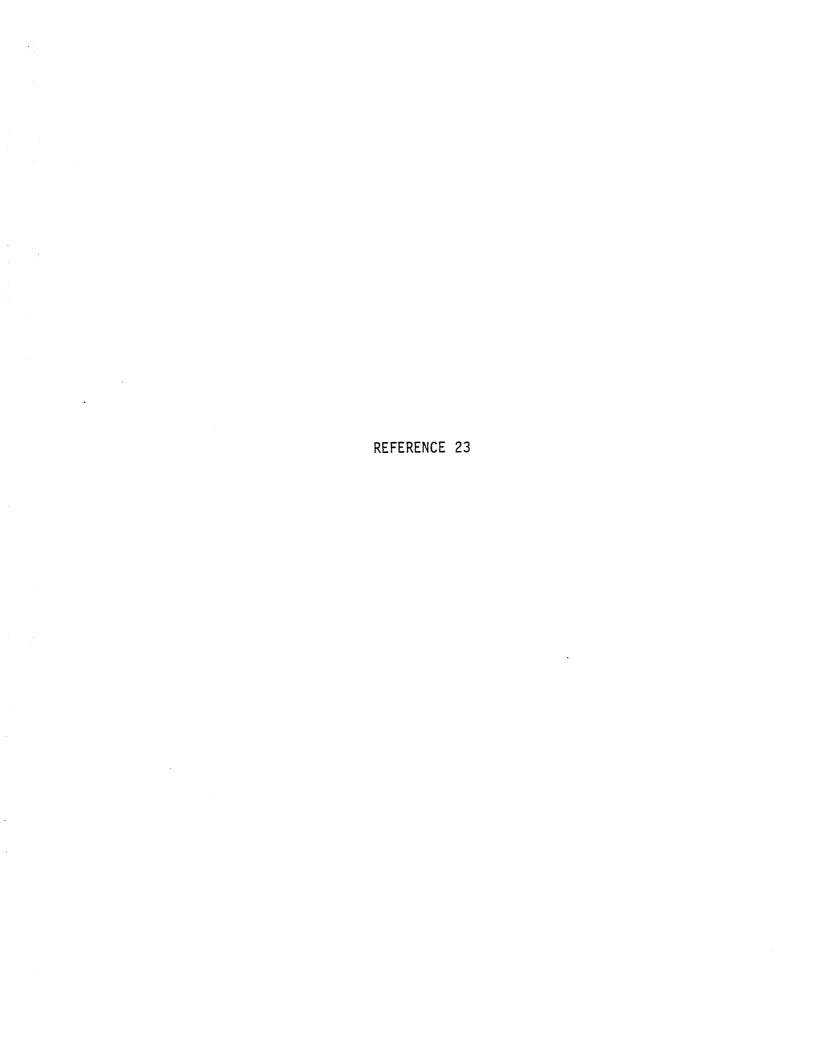
LGC:ec cc: Mr. Demick



POND - CIRCA 1984

ERNST STEEL SITE 915022

L. CLARE 6/12/86







DEPARTMENT OF ENVIRONMENT AND PLANNING

COUNTY EXECUTIVE

JOAN E. LORING

August 11, 1986

ANTHONY T. VOELL
DEPUTY COMMISSIONER
ENVIRONMENTAL CONTROL

Frank H. Ernst Ernst Steel Corporation P.O. Box 987 Buffalo, New York 14240

Dear Mr. Ernst:

Attached is a copy of our field report describing on-site conditions and our recommendations.

We have discussed this matter with Lawrence Clare of the New York State DEC and he appears to agree. However, you should call Mr. Clare to arrange for a meeting to discuss this matter further before any actual sampling occurs. We would be available to attend this meeting.

Before you arrange the meeting, we advise you prepare and bring written information that would assist you in presenting your case. The information that should be presented is the A and B portions of the information prepared by Mr. Voell (attached).

Should you have any questions, please feel free to call me at 846-6085.

Very truly yours

CAMERON O'CONNOR

Hazardous Waste Specialist

ameion HO Com

CCC:jk Enclosures



ERNST STEEL SITE NO. 915022

ON JULY 30, 1986 AN INSPECTION OF THE ERNST STEEL DISPOSAL AREA WAS PERFORMED TO BECOME FAMILIAR WITH ON-SITE CONDITIONS. IT IS FELT THAT THIS WOULD PROVIDE SPECIFIC INFORMATION THAT WOULD BE USEFUL IN ASSISTING FRANK ERNST, VICE PRESIDENT OF ERNST STEEL, DEVELOP A PROGRAM THAT WOULD RESOLVE ANY HAZARDOUS WASTE ISSUES ON THE PROPERTY. MR. ERNST IS ANXIOUS TO RESOLVE THIS ISSUE DUE TO THE ROSSIBLE SALE OF THE PROPERTY.

ON-SITE CONDITIONS

DISPOSAL ON THE PROPERTY IS EVIDENT IN THE AREA NOTED IN FIGURE 1 (LARRY CLARE 6/12/86). FIGURE 2 REPRESENTS A DETAIL OF THE DISPOSAL AREA. THIS AREA IS A MIXTURE OF FIELD VEGETATION (GRASSES, QUEEN ANN LACE) BRUSHLAND AND WOODED WETLAND. WASTE PILES WERE OBSERVED THROUGHOUT THIS DISPOSAL AREA. Types of WASTE OBSERVED ON-SITE INCLUDE INCINERATOR RESIDUE, SCRAP METAL AND PAINT/DIRT RESIDUES. IN MANY AREAS (PARTICULARLY THE CENTRAL PORTION OF THE DISPOSAL AREA), VEGETATION HAS FIRMLY ESTABLISHED ITSELF ON THE WASTE PILES. MR. ERNST ADVISED THAT HE RECENTLY REMOVED MOST OF THE TIMBER AND EMPTY 55 GALLON DRUMS THAT WERE NOTED IN PREVIOUS INSPECTION REPORTS. AREAS OF DISTURBED EARTH WERE NOTED IN THESE AREAS. ONE 55 GALLON DRUM; WAS NOTED IN A FORMER SWALE AREA THAT AT ONE TIME DIRECTED WATER AWAY FROM THE NORTHEAST ROAD. THE DRUM WAS

OPEN TOPPED, UPSIDE DOWN AND PARTIALLY COVERED WITH EARTH. A SMALL MAMMAL BURROW INDICATED A POSSIBLE DEN INSIDE THE DRUM. NO ODORS, LEACHATE OR DEAD OR STRESSED VEGETATION WERE NOTED. STAINED EARTH WAS OBSERVED IMMEDIATELY ADJACENT TO THE PAINT RESIDUE DISPOSAL AREA.

During the inspection, six subsurface soil borings were taken using a Veihmeyer Soil Sampler. The purpose of these borings was to get an idea (by visual observation) of the types of soil condition beneath the surface. Six borings were taken in the locations shown on Figure 2 (Detail). Borings 1 thru 5 were driven four feet with a potential core sample of three feet. Boring 6 waste driven to two feet with a potential core sample of two feet. Each boring was taken adjacent to a waste pile or in an area where waste timber was one disposed.

Boring 1

Approximately 20% recovery - two inches organic matter (top soil) over silty orange clay - no odor noted.

Boring 2

Approximately 10% recovery. Top soil over sand and cinders over orange silty clay. No odors.

Boring 3

Approximately 60% recovery. Organic matter very orange silty clay over blue clay (Damp). No odor.

BORING 4

APPROXIMATELY 5% RECOVERY. ORANGE SILTY CLAY, NO ODOR.

BORING 5

Approximately 40% recovery. Thin dusting of paint residue over sand/cinder over orange silty clay.

BORING 6

Approximately 40% recovery. Thin layer of paint residue over orange silty level. Odor of paint in residue layer, no odor from silty clay layer.

AERIAL PHOTOGRAPHY

AERIAL PHOTOGRAPHY WAS REEVALUATED AND ESSENTIALLY CONFIRMED INFORMATION GATHERED IN DEP'S DECEMBER 1983 SITE PROFILE (NO LARGE SCALE DISPOSAL CHANGES IN TOPOGRAPHY OR LAGOONS). THE FOLLOWING ADDITIONAL INFORMATION WAS GATHERED IN THE AERIAL REVIEW:

1. IN 1927 (NOT PREVIOUSLY REVIEWED) THE SITE WAS A RAILROAD MAINTENACE CENTER. NO DISPOSAL WAS NOTED IN THE PHOTOGRAPH. THE RAILROAD FACILITY IS IN THE

LOCATION WHERE THE ERNST FACILITY NOW EXISTS. THE RAILROAD SPURS TO THE MAIN LINE TRACKS ARE IN PLACE.

EAST OF THE FACILITY. THE UNDISTURBED LAND APPEARS TO BE WET (POOR DRAINAGE).

- 2) In 1951, the RAILROAD WAS NO LONGER IN OPERATION. THE RAILROAD BUILDINGS HAVE EITHER BEEN REMOVED OR ARE COMPLETELY OVERGROWN BY VEGETATION. THE UNDISTURED LAND TO THE EAST APPEARS DRY.
- The fill activity to the northeast noted in the DEP 1983

 Profile Report is not on the Ernst property.
- 4) DISPOSAL ON THE ERNST STEEL PROPERTY APPEARS TO BE CONFINED TO THE AREA SHOWN IN FIGURE 1.

CONCLUSIONS

- I. The evidence indicates that the type of disposal on-site was not landfilling, but rather random surface dumping. Most of what was disposed of on the property would be visible to the inspector. Evidence pointing to this fact include:
 - 1) AERIAL PHOTOGRAPHY
 - 2) Soil Borings
 - 3) FIELD INSPECTION DATA
 - 4) Mr. Ernst's 1984 subsurface investigations (test pits)

- II. THE EVIDENCE DOES NOT INDICATE A LARGE RESERVOIR OF HAZARDOUS WASTE ON-SITE.
 - A) INFORMATION FROM THE IATE QUESTIONNAIRE INDICATES ONLY PAINT SLUDGES AS A POTENTIAL HAZARDOUS WASTE HAD BEEN DISPOSED OF ON-SITE. THIS HAS BEEN CONFIRMED IN THE FIELD.
 - B) REVIEW OF THE PROCESS OPERATIONS INDICATE THAT LITTLE HAZARDOUS WASTE WAS GENERATED. THE ERNST STEEL FABRICATING OPERATION USED CARBON STEEL WHICH DOES NOT REQUIRE SOLVENTS FOR METAL PREPARATION. PAINTING OPERATIONS INVOLVED LEAD/SILICA CHROMATE PIGMENT WITH LINSEED OIL VEHICLE. PAINT THINNER USED WASTE MINERAL SPIRITS. POTENTIAL FOR HAZARDOUS WASTE APPEARS LIMITED TO THE WASTE LEAD/SILICA CHROMATE PIGMENT.
- III. THE SAMPLES TAKEN BY NEW YORK STATE DEC IN 1981 SHOULD NOT BE USED TO DETERMINE THE ENVIRONMENTAL CONDITIONS ON-SITE AND/OR THE NEED FOR A PHASE II AT THE SITE FOR THE FOLLOWING REASONS.
 - 1) LOCATION OF SAMPLE IS NOT CLEAR.
 - 2) Type of sample is not known. (i.e. was it waste or soil).
 - 3) Description of sample is not known. (i.e. did it contain paint waste residue).

- 4) Sampling method and instrument is unknown. Consequently the reported 45 foot soil sample may not represent a valid depth (i.e. our experience with a Veihmeyer soil indicates sample core never were retrieved a 100% recovery. In addition, if a soil auger was used, an undisturbed core sample is not possible.
- There is little likelihood of surface drainage off-site (see Larry Clare June 86 Report).

RECOMMENDATIONS

Composite samples should be taken of the waste piles to determine if the waste is hazardous.

One composite sample should be taken of the incinerator ash and samples analyzed for EP Toxicity for metals.

ONE COMPOSITE SAMPLES SHOULD BE TAKEN OF THE PAINT RESIDUE AND ANALYZED FOR EP TOXICITY FOR METALS.

IF THE ANALYTICAL DATA SUGGESTS NON-HAZARDOUS WASTES, THE MATERIAL SHOULD BE REMOVED AND DISPOSED IN A NON-HAZARDOUS LANDFILL AND THE SITE DROPPED FROM THE REGISTRY. IF THE RESULTS INDICATES HAZARDOUS, THEY SHOULD BE TAKEN TO A SECURED DISPOSAL AREA AND THE SITE RECODED TO REFLECT CLEANUP. AN EXTENSIVE PHASE II FOR THIS SITE DOES NOT APPEAR WARRANTED.

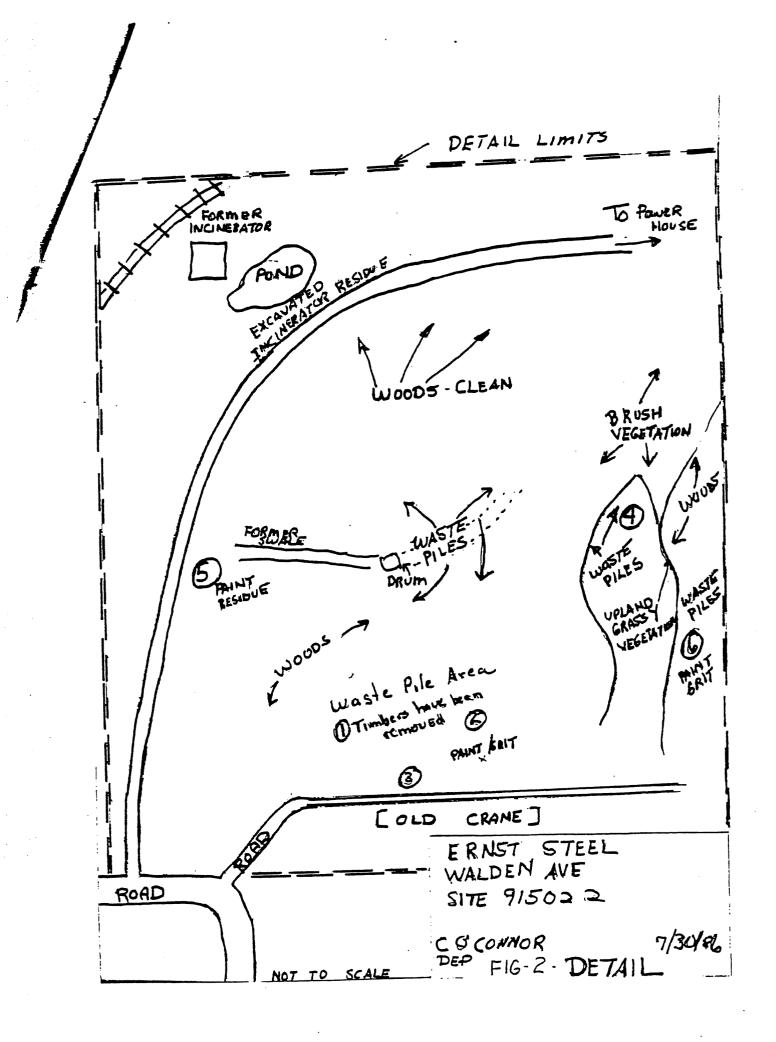
BEFORE MR. ERNST STARTS A SAMPLING PROGRAM, HE SHOULD MEET WITH DEC TO DISCUSS WHAT WOULD BE ACCEPTABLE TO THEM.

TWN. CKTWG PILES DEBRIL NIAG, MOHAWK SEE THRUW AY INDUSTRIES STORAGE U.S. YARD STEEL S DELEVAN ン フ PERKING O HSE AVE WALDEN

POND - CIRCA 1984

ERNST STEEL SITE 915022

L CLARE 6/12/86



APPENDIX B

REVISED "HAZARDOUS WASTE DISPOSAL SITE REPORT"

(47-15-11 (10/83)

PRIORITY CODE: 2a

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

INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

SITE CODE: 915022

NAME OF SITE: Ernst Steel	REGION: 9
STREET ADDRESS: 1746 Walden Avenue	
TOWN/CITY: Cheektowaga COUNTY:	Erie
NAME OF CURRENT OWNER OF SITE:Ernst Steel Cor	poration
ADDRESS OF CURRENT OWNER OF SITE: 1280 Main Stree	t, Buffalo, NY 14209
TYPE OF SITE: OPEN DUMP STRUCTURE LANDFILL TRE	LAGOON LA
ESTIMATED SIZE: 4 ACRES	
SITE DESCRIPTION:	
Plant waste from steel painting, drilling, w disposed on site. Wastes included steel shavings dust, dried paint sludge and machine cutting oil. collected from this site in 1982. The soil sampl of chromium, copper, lead, nickel, zinc and iron. elevated levels of lead, zinc and iron.	, steel drillings, iron oxide Soil and water samples were es exhibited elevated concentrations
HAZARDOUS WASTE DISPOSED: CONFIRMED X	SUSPECTED
TYPE AND QUANTITY OF HAZARDOUS WASTES DISPOSED:	3031 20125
TYPE	QUANTITY (POUNDS, DRUMS, QUANTITY)
Steel shavings, steel drillings and iron	2600 gal/yr.
oxide dust	
Dried paint sludge	250 gal/yr.
· · ·	PAGE

TIME PERIOD SITE WAS USED FOR HAZARDOUS	WASTE DISPOSAL:	
, 19 53	TO, 1983	
OWNER(S) DURING PERIOD OF USE: Ernst	Steel Corporation	
SITE OPERATOR DURING PERIOD OF USE:S		
ADDRESS OF SITE OPERATOR: 1280 Main	Street, Buffalo, NY 14209	
ANALYTICAL DATA AVAILABLE: AIR	JRFACE WATER X GROUNDWATER	
SOIL X	SEDIMENT NONE	
CONTRAVENTION OF STANDARDS: GROUNDWA	TER DRINKING WATER	
SURFACE I		
JOHN MOE		
SOIL TYPE: Urban Land - Odessa; dist	urbed and clayey soils	
DEPTH TO GROUNDWATER TABLE: Unknown		
LECAL ACTION TYPE Name	CTITE L. I. CTITE L. I.	
LEGAL ACTION: TYPE: None		
STATUS: IN PROGRESS	COMPLETED	
REMEDIAL ACTION: PROPOSED IN PROGRESS	UNDER DESIGN COMPLETED	
NATURE OF ACTION: None	COMPLETED	
MATORE OF ACTION. Notice		
ASSESSMENT OF ENVIRONMENTAL PROBLEMS:		
Extent of environmental problems unknown. Soils on site contaminated with heavy metals. Potential for surface and groundwater contamination.		
ASSESSMENT OF HEALTH PROBLEMS:		
Insufficient information		
	·	
PERSON(S) COMPLETING THIS FORM:		
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION	NEW YORK STATE DEPARTMENT OF HEALTH	
Recra Research, Inc.	NA ME	
	VAME	
	TITLEDATE:	
	77 T T T	