INACTIVE HAZARDOUS WASTE SITES

PHASE I INVESTIGATION

Dresser Industries Site No. 915064

Depew Erie County

DATE: February 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.

ERRATA SHEET - Dresser Industries, ID #915064

1. Section 7, pg. 15

A drum sampling program should be included in the proposed Phase II work plan.

2. Section 7, pg. 23, 1st paragraph

Change "..., dedicated galvanized steel bailers ..." to read "..., dedicated stainless steel or PVC bailers ..."

3. Section 7, pg. 24, 2nd paragraph

Change "..., dedicated galvanized steel bailers ..." to read "..., dedicated stainless steel or PVC bailers ..."

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

Dresser Industries Village of Depew Erie County, New York Site #915064

Prepared For:

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

Prepared By:

Recra Research, Inc. 4248 Ridge Lea Road Amherst, NY 14226

January, 1986

TABLE OF CONTENTS

		Page
1.0	EXECUTIVE SUMMARY	1
2.0	PURPOSE	5
3.0	SCOPE OF WORK	6
4.0	SITE ASSESSMENT	7
	4.1 Site History 4.2 Site Area Surface Features 4.2.1 Topography and Drainage 4.2.2 Environmental Setting 4.3 Hydrogeology 4.3.1 Geology 4.3.2 Soils 4.3.3 Groundwater 4.4 Previous Sampling and Analysis 4.4.1 Groundwater Quality Data 4.4.2 Surface Water Quality Data 4.4.3 Air Quality Data 4.4.4 Other Analytical Data	7 7 7 8 9 9 10 10 11 11 11 11
5.0	PRELIMINARY APPLICATION OF THE HAZARD RANKING SYSTEM	12
	5.1 Narrative	12
6.0	ADEQUACY OF AVAILABLE DATA	14
7.0	PROPOSED PHASE II WORK PLAN	15
	7.1 Project Objectives	15 16
	7.2.1 Waste Characterization 7.2.2 Geophysical Survey. 7.2.3 Test Borings. 7.2.4 Groundwater Monitoring Well Installation and Sampling. 7.2.5 Surface Water Sampling 7.2.6 Air Monitoring. 7.2.7 Surveying.	16 17 19 22 25 26 26
	7.3 Quality Assurance and Quality Control	27 27 27 28 29

-		LIST OF FIGURES	
-			Page
_	FIGURE 1	Vicinity Map	3
	FIGURE 2	Site Location Map	4
-	FIGURE 3	Site Phase II Work Plan Map	18
-			
-			
-			
-			
-			
-			
-			
-			
_			
_			
-			
-			

*

1.0 EXECUTIVE SUMMARY

The Dresser Industries site is approximately 15 acres, located on the west side of Transit Road directly across the street from Dresser Transportation Division, at 2 Main Street, Depew, Erie County, New York (Figure 1). Dresser manufactures car couplers and steel castings for the railroad industry. Wastes generated by Dresser include spent bentonite clay (sludge), foundry sands (some with phenolics), slag, and lubricating oil. Records of waste disposal at the landfill are for the period 1961 to May 1, 1979 (Reference 10).

A previous site profile report by the Erie County Department of Environment and Planning noted the entire area, including a section beyond the current Dresser property, had been filled in. The landfill is currently used as a staging area prior to removal for disposal elsewhere (References 6 and 13).

The Phase I Summary Report presented herein represents a compilation of available information regarding the Dresser Industries site. Information sources include NYSDEC Region 9, Erie County Department of Environment and Planning, and various other sources.

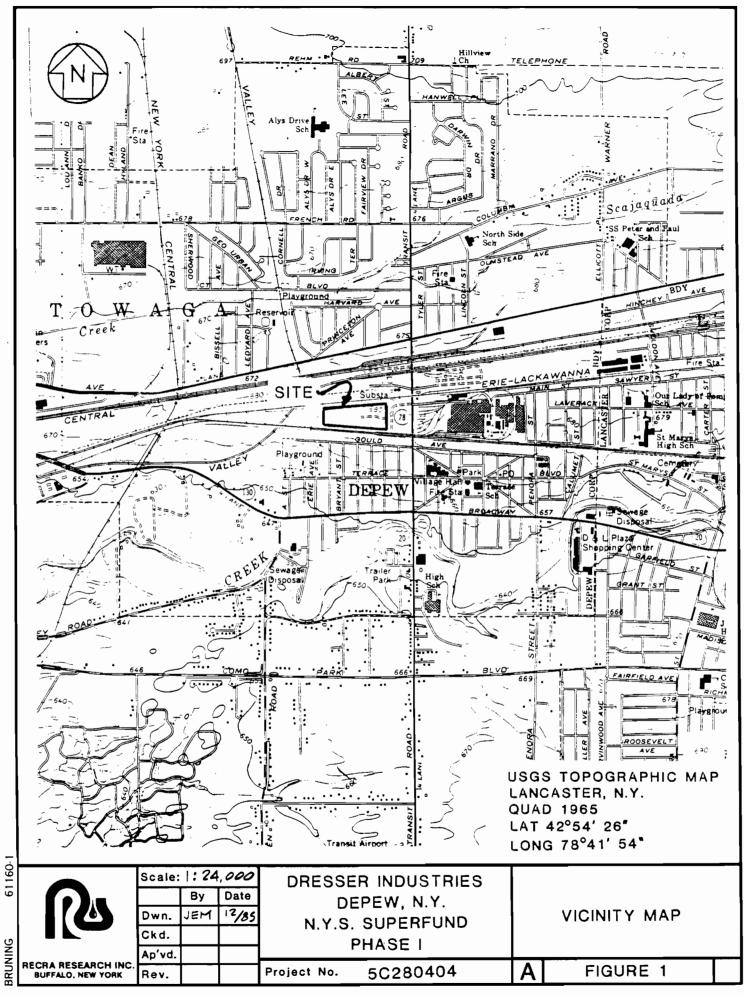
The intent of the Hazard Ranking System (HRS) is to provide a method by which uncontrolled hazardous waste sites may be systematically assessed as to the potential risk that a site may pose to human health and the environment. The HRS is designed to provide a numerical value through an assessment of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

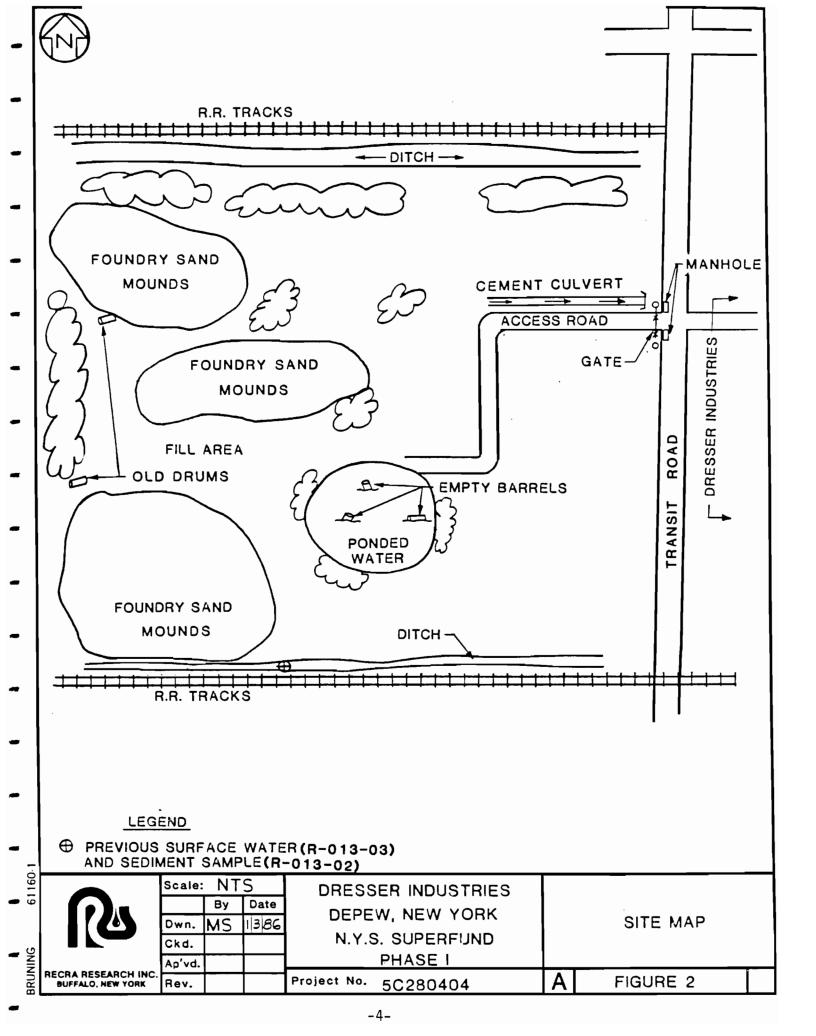
- o migration of hazardous substances from the site (Sm)
- o risk involved with direct contact (Sdc)
- o the potential for fire and explosion (Sfe).

The risks involved with direct contact (Sdc) and the potential for fire and explosion (Sfe) are evaluated according to site specific information including toxicity of wastes, waste quantities, site demographics, location with respect to sensitive habitats of wildlife, etc. Migration potential (Sm) is evaluated through the rating of factors associated with three routing modes: groundwater (Sgw), surface water (Ssw) and air (Sa). 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 (Sm).

Based on the available information, the Dresser Industries site was scored according to the Mitre Corporation Hazard Ranking System (HRS) and the following scores were obtained:

A Phase II investigation program has been proposed for the Dresser Industries site which is designed to expand the information base in order to obtain a final HRS score and facilitate the development of possible remedial alternatives.





2.0 PURPOSE

The objective of this Phase I investigation is to prepare a report for the Dresser Industries 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, relative to water supplies, of population centers and sensitive environments such as wetlands.

3.0 SCOPE OF WORK

In order to permit an accurate preliminary assessment of the Dresser Industries site, Recra Research, Inc. (Recra) personnel conducted an intensive search for literature and information regarding the site and site vicinity. This search included the review of general information available at area colleges and universities pertaining to regional geography, geology, and hydrogeology of the study area. The search also included review of state and county office files as well as personal interviews with parties associated and/or familiar with the site and site vicinity.

Information received from NYSDEC Region 9, located at 600 Delaware Avenue, Buffalo, New York 14202 (telephone 716/847-4600) and the Erie County Department of Environment and Planning located at 95 Franklin Street, Buffalo, New York (telephone 716/847-6370), comprises the majority of the data base utilized in developing this report. Review of these office files provided information related to past operations and site conditions during past inspections.

Recra personnel contacted Mr. Gus Shirelli, project engineer of Dresser Industries, 2 Main Street, Depew, New York (telephone 716/683-6000) who granted permission for Recra to perform a site inspection. Subsequently, inspection of the site was conducted on December 11, 1985 in order to become familiar with the site and identify the present condition of the facility. At the time of the site inspection, the weather was cloudy and the temperature was 35°F. There was no snow cover on the ground during the inspection. No air monitoring was conducted at this time.

4.0 SITE ASSESSMENT

4.1 Site History

The Dresser Industries landfill, approximately 15 acres in size, is located on the west side of Transit Road directly across the street from the plant. This site has been used for the disposal of foundry sands (some with phenolic binders), slag, bentonite clay sludge, and some lube oil (References 4, 7, and 10). The site is currently used as a staging area prior to removal for disposal elsewhere (References 6 and 13).

Documentation provided by Ferry Concrete Construction Co., Inc., indicates the quantity of waste materials disposed there between 1961 and 1979 (Reference 10). Before 1961, wastes were hauled by Rayburn Smith, Inc., to an unknown site (Reference 7).

4.2 <u>Site Area Surface Features</u>

4.2.1 Topography and Drainage

Topography in the vicinity of the site is flat, lying in the Lake Erie Plain (Reference 15). The landfill area is quite level with a gentle westward slope toward Conrail property. Scajaquada Creek is located approximately 2400 feet to the north and Cayuga Creek is located approximately 2400 feet to the south. Designated wetland LA-7 is located approximately one mile to the southwest, along the south bank of Cayuga Creek (Reference 8). The landfill is not within either a 100 year or 500 year floodplain (Reference 14). No major drainage ditches lead away from the site (Reference 4). Recra personnel observed ponded water in a

wooded area of the site (Figure 2). The access road is sharply sloped toward the Transit Road gate so that most run-off would flow toward the storm sewer on Transit Road (Reference 4).

4.2.2 Environmental Setting

The area surrounding the site is industrial, commercial, and residential. An earlier site inspection report by the Erie County Department of Environment and Planning (DEP), stated the entire area including a section beyond the current Dresser property line had been filled (Reference 4). Recra personnel observed mounds of foundry sand and ponded water (Figure 2). The site is overgrown with grass, weeds, and trees. Rusted, empty drums were scattered throughout the site. No markings were observed on the drums during the Recra site visit.

A locked gate across the access road of Transit Road prevents any vehicle traffic to the site. The property is not fenced, thus allowing easy access to foot traffic and motorbike use.

The nearest residences are within about 1000 feet of the southern portion of the site (Figure 1). All residents in the area of the site use municipal water (Reference 5). Surface water intakes for the Erie County Water Authority are located in Lake Erie approximately ten miles west of the site (Reference 17).

As stated in Section 4.2.1, Cayuga Creek is located approximately 2400 feet south of the site and Scajaquada Creek is located approximately 2400 feet north of the site. Cayuga Creek has been classified as a Class "C" water source and has best usage for fishing and all other uses except as

a source of water supply for drinking, culinary or food processing purposes and primary contract recreation (References 11 and 12). Scajaquada Creek has been classified as a Class B water source with best usage for primary contact recreation and any other uses except as a source of water supply for drinking, culinary, or food processing purposes (References 11 and 12). New York State regulated wetland LA-7 is located along the south bank of Cayuga Creek (Reference 8). There are no critical habitats of endangered species in the vicinity of the Dresser Industries site (Reference 8).

4.3 Site Hydrogeology

4.3.1 Geology

The site is underlain by the Marcellus Formation of the middle Devonian Hamilton Group (Reference 15). In Erie County, the Marcellus is represented by the Oatka Creek Shale member which consists of black, dense fissile shale with some beds of gray shale and several concretionary layers (Reference 15). This unit ranges in thickness from 30 to 55 feet and dips generally southward at approximately 40 feet/mile. The shale is dissected by both vertical and bedding-plane joints which extend into the shale at depth (Reference 16). These joints are thin and widely spaced. LaSala reported a discontinuous fracture zone that follows the upper surface of the shale (Reference 16). Depth to bedrock was reported to be approximately 8 feet below ground surface (Reference 13). Although this may be generally true for the region, no specific information is available as to depth to bedrock at the site.

4.3.2 Soils

Soils within the site boundaries have been classified as Urban Land-Churchvile, Nearly Level (Reference 2). The Urban portion of this unit is covered by residential, commercial, or industrial developments. In these areas the underlying soil layers have been disturbed or removed. Churchill soils are clayey, glacio-lacustrine sediments that mantle loamy glacial till deposits at depths of 20 to 40 inches. The Churchill soils are somewhat poorly drained and have a seasonal high water table perched in the upper part of the subsoil during excessive wet periods. Permeability of these soils is slow to very slow ranging from <10-5 to ≥10-7 cm/sec (Reference 3, Table 2).

4.3.3 Groundwater

The first encountered water bearing zone occurs in the unconsolidated glacial deposits overlying the shale (Reference 16). There is a seasonal perched water table less than 2.0 feet below ground surface (Reference 4). The initial water table lies within the shale only where the overburden is absent or thin. Groundwater occurrence within the bedrock at the site is unknown. However, based on the nature of the shale bedrock, groundwater would be expected to move along the joints, bedding planes, and especially fracture zones. Depth to bedrock has been estimated to be approximately eight feet below ground surface (Reference 13). There are no groundwater wells being used within a three mile radius of the site (References 5 and 16).

4.4 Previous Sampling and Analysis

4.4.1 Groundwater Quality Data

There is no groundwater quality data available for this site.

4.4.2 Surface Water Quality Data

A surface water sample (R-013-03) was collected on December 9, 1981 from a drainage ditch along the south edge of the fill area and analyzed for phenol (Figure 2). The phenol concentration in the sample was below the detection limits (Reference 13).

4.4.3 Air Quality Data

There is no air quality data available for this site.

4.4.4 Other Analytical Data

A sediment sample (R-013-02) was collected at the same location and time as the surface water sample (Figure 2). The analytical results indicated a phenol concentration of 9.3 mg/l in the sample (Reference 13).

5.0 PRELIMINARY APPLICATION OF THE HAZARD RANKING SYSTEM

5.1 Narrative

The Dresser Industries site is located on the west side of Transit Road directly across the street from Dresser Transportation Division, at 2 Main Street, Depew, Erie County, New York. The site covers an area approximately 15 acres in size. The site is owned by Dresser Industries of Dallas, Texas (References 4 and 7).

Records of waste disposal from 1961 to May 1, 1979 were provided by Ferry Concrete Construction Co., Inc. (Reference 10). The wastes include foundry sands (some with phenolics), slag, and bentonite clay sludge. The site is currently used as a staging area prior to removal for disposal elsewhere (References 6 and 13).

An investigation was conducted by the NYSDEC, Region 9 office on December 9, 1981 (Reference 13). A surface water and sediment sample were collected by the NYSDEC and analyzed for phenol by Recra Research, Inc. Phenol concentrations were below detection limits in the water sample and 9.3 ppm in the sediment sample (Reference 13). A site inspection by Recra personnel was performed on December 11, 1985. Mounds of foundry sand, rusted drums, and ponded water were observed at that time. No snow cover existed at the time of the Recra site inspection.

The site is located midway between Cayuga Creek and Scajaquada Creek. A NYS regulated wetland, which borders Cayuga Creek, is located approximately one mile southwest of the site (Reference 8). A seasonal water table is perched in the upper subsoil for the area (Reference 2).

4/3132

Groundwater may also occur at the bedrock-overburden interface (Reference 16).

The areas immediately adjoining the site are zoned industrial and commercial (Reference 4). Population within three miles of the site is greater than 20,000 (Reference 18).

5.2 HRS WORKSHEET

Faciny name: Dresser Industries, Inc.
2 Main Street, Depew, New York
Location:
EPA Region:
Person(s) in charge of the facility: Gus Shirelli, Project Engineer
Person(s) in charge of the facility:
Name of Reviewer: Recra Research, Inc. Date: January 10, 1986 General description of the facility:
(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the
facility; contamination route of major concern; types of information needed for rating; agency action, etc.)
The disposal site is 15 acres in size and located across Transit
Road from plant facilities. The site has been used for the disposal
of foundry sand, some with phenolic binders. Quantities of slaq,
bentonite clay sludge and some lube oils are reportedly present at this
site. Foundry sands were also stored on the site prior to removal
for disposal elsewhere.
Scores: $S_{M} = 0$ ($S_{GW} = 0$ $S_{sw} = 0$ $S_{a} = 0$)
•
S _{FE} = N/A
S _{DC} = 0

FIGURE 1
HRS COVER SHEET

			Ground Wa	er Route Work	Shee	1			_
Ratin	g Factor		_	led Value le One)		Multi- pher	Score	Max. Score	Ref. (Section)
1 Obse	rved Releas	e	0	45		1	0	45	3.1
,			n a score of 45. n a score of 0,						
Dep	Characteris th to Aquife		0 1 2	3		2	6	6	3.2
Net Perr	Precipitation neability of the saturated Zo	ine	0 1 (2 0 (1) 2			1	2 1	3 3	
Phys	sical State		0 1 2	<u> </u>		1	3	3	
			Total Route Ch	aracteristics Sc	ore	·]	12	15	
3 Contain	nment		0 1 2	3		1	3	3	, 3. 3
Toxi Haza	Cnaracteris city/Persisto ardous Wast antity	ence	① 3 6 ② 1 2		7 8	1 1	0	18	3.4
			Total Waste Ch	aracteristics So	core		0	26	
Dist: We	is und Water U ance to Nea II/Population ved	rest	0 1 0 4 12 16 3 24 30 3	2 3 6 8 10 8 20 32 35 40		3 1	0	9 40	3.5
				rgets Score			n	49	
6 If line	1 is 45, 1 is 0, n	multiply nultiply (1 x 4 x (2 x 3 x 4	5]] x 5] 		_	0	57,330	
7 Divide	line 6 b	y 57,330	and multiply by	100		s _{gw} =	0		

FIGURE 2
GROUND WATER ROUTE WORK SHEET

	Surface Water Route Work Sheet											
	Rating Factor				ned \	/alue ne)			Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Release		0			45			1	0	45	4.1
	If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.											
2	Route Characteristics											4.2
	Facility Slope and I	nterver	ning ()	1 2	2 3				1	0	3	
	1-yr. 24-hr. Rainfall	A Cumba	-	1 (_				1	2	3	
	Distance to Nearest Water	t Suriac		_	2) 3				2	4	6	
	Physical State			1 (2	<u> </u>				<u> </u>	2	3	
			Total Rout	e Ch	arac	terist	ics S	core		8	15	
3	Containment		0	1 2	2 3				1	3	3	4.3
4	Waste Characteristics Toxicity/Persistence Hazardous Waste Quantity 0 3 6 9 12 15 18 0 1 2 3 4 5 6 7 8						1	0 0	18	4.4		
			Fotal Wast	e Ch	narac	terist	ics S	core		0	26	
5	Targets					_						4.5
	Surface Water Use Distance to a Sensi	tive	0	1	2)	3			3 2	6 2	9 6	
	Environment Population Served/I to Water Intake Downstream	Distanc	• } (0) 12 24	4 16 30	6 18 32	8 20 35	10 40		1	0	40	
			Tota	al Ta	rget	S Sco	ore .			8 .	55	
6	If line 1 is 45, mult					3				0	64,350	
7	Divide line 6 by 64	4,350 a	nd multipl	y by	100				S _{SW} =	0		

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

	Air Route Work Sheet													
	Rating Factor		,			d V		e			Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Release		0)			4	5			1	0	45	5.1
	Date and Location:					_								
	Sampling Protocol:													
	If line 1 is 0, the	_). Enter o			_				•	_			
2	Waste Characteristic Reactivity and	:8	•	1	2	3					1	0	3	5.2
	Incompatibility Toxicity		<u></u>	1	2	3					3	0	9	
	Hazardous Waste Quantity		ŏ	i	2	3	4	5	6	7 (8)	1	8	8	
		-	Total Was	te (Cha	ract	eri	stic	s S	core		8	20	
3	Targets Population Within) 0	•	12	15	18				1	30	30	5.3
	4-Mile Radius] 21	24	27 (30								
	Distance to Sensitiv	/		_	2	_					2	2	6	
	Land Use		0	1	2	3					1	3	3	
	Γ		То	al	Targ		Sc	ore	•			35	39	
4	Multiply 1 x 2	x 3		_								0	35,100	
3	Divide line 4 by :	35,100 a	nd multip	ly 1	by 1	00			-		Sa-	n		

FIGURE 9
AIR ROUTE WORK SHEET

•	s	S 2
Groundwater Route Score (Sgw)	0	0
Surface Water Route Score (S _{Sw})	0	0
Air Route Score (Sa)	0	0
$s_{gw}^2 + s_{sw}^2 + s_a^2$		0
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		0
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 - s_M -$		0

FIGURE 10 WORKSHEET FOR COMPUTING S_M

	· 	Direct Contact Work Sheet				
	Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Incident	Ø45	1	0	45	8.1
	If line 1 is 45, proceed to				,	
2	Accessibility	0 1 2 3	1	3	3	8.2
3	Containment	0 (15)	1	15	15	8.3
4	Waste Characteristics Toxicity	0 1 2 3	5	.0	15	8.4
3	Targets Population Within a 1-Mile Radius	0 1 2 3 4 5	4	20	20	8.5
	Distance to a Critical Habitat	0 ① 2 3	4	4	12	
		Total Targets Score		24	32	
	If line 1 is 45, multiply If line 1 is 0, multiply			0	21,600	
	Divide line 6 by 21,600 a		S _{DC} -	0		

FIGURE 12
DIRECT CONTACT WORK SHEET

Fire and Explosion Work Sheet											
Rating Factor								Multi- plier	Score	Max. Score	Ref. (Section)
Containment	1					3		1		3	7.1
2 Waste Characteristics											7.2
Direct Evidence	0		_	3				1		3	
Ignitability Reactivity		1		-				1		3 3	
Incompatibility		1						ģ		3	
Hazardous Waste Quantity	_	1		-	4	5	6 7 8	. 1		8	
	Total Was	ste C	Cha	ract	teri	stics	Score	·		20	
3 Targets								L		1	7.3
Distance to Nearest	0	1	2	3	4	5		1		5	
Population											
Distance to Nearest	0	1	2	3				1		3	
Building Distance to Sensitive	. 0	1	2	2				1		3	
Environment	•	•	~	3				•		•	
Land Use	0	1	2	3				1		3	
Population Within -		1			4	5		1		5	
2-Mile Radius				_						_	
Buildings Within 2-Mile Radius	0	1	2	3	4	5		1		5	
	•										
	To	tal 1	Targ	pets	. s	core				24	
4 Multiply 1 x 2	x 3									1,440	
5 Divide line 4 by 1	,440 and multipl	y by	, 10	ю	_			SFE -	N/A		

FIGURE 11
FIRE AND EXPLOSION 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:	Dresser Industries	
LOCATION:	2 Main Street, Depew, New York	

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

Groundwater not sampled at this site

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:

Fracture zone at top of Marcellus Shale and overburden directly above bedrock

(Ref. 16)

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

8 - 10 feet

(Ref. 13)

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

Unknown

Net Precipitation

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

36 inches

(Ref. 3, Fig. 5)

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

27 inches

(Ref. 3, Fig. 4)

Net precipitation (subtract the above figures):

9.0 inches

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Urban Land - Churchville. Somewhat poorly drained, clayey soils that mantle loamy glacial till deposits at depths of 20 to 40 inches

(Ref. 2)

Permeability associated with soil type:

$$<10^{-5} \stackrel{>}{-}10^{-7}$$
 cm/sec.

(Ref. 3, Table 2)

Physical State

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

Solid (foundry sand)

(Ref. 6)

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Piles of uncovered, waste unstablized and no liner

(Fig. 2 and Ref. 4)

Method with highest score:

Method as qualified above

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Foundry sands, some with phenolic binders (ammonia and cyanide)

(Ref. 6 and 7)

Compound with highest score:

Pheno1

Cyanide

For HRS scoring purposes, the presence of hazardous wastes has not been confirmed

(Ref. 3, Table 4)

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):

47,682~cu. yds. of foundry sands; the presence of hazardous wastes in the foundry sands has not been confirmed

(Ref. 6 & 10)

Basis of estimating and/or computing waste quantity:

Ferry Concrete Const. Company Records

(Ref. 10)

•	TA	0	_	27	• •
٦.		×		P. I	

Ground Water Use

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

Not used

(Ref. 5, 16 and 17)

Distance to Nearest Well

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

N/A

Distance to above well or building:

N/A

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:

None

(Ref. 16 and 17)

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

None

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

None

SURFACE WATER ROUTE

1	0	R	C	F	Q	v	F	п) F	2	F	T.	ç	۵	S	F

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

None

(Ref. 9)

Rationale for attributing the contaminants to the facility:

N/A

* * *

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

<1.0%

(Fig. 1)

Name/description of nearest downslope surface water:

The site is located approximately 2000 feet from both Scajaquada and Cayuga Creeks.

(Ref. 4, USGS quad map)

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

<1.0%

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

No

(Recra site visit, 12/11/85)

Is the facility completely surrounded by areas of higher elevation?

No

(Ref. 4, USGS quad map)

1-Year 24-Hour Rainfall in Inches

2.1 inches

(Ref. 3, Fig. 8)

Distance to Nearest Downslope Surface Water

Distance from site to either Scajaquada Creek or Cayuga Creek is 2100 ft.

Physical State of Waste

Solid (foundry sand)

(Ref. 6)

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Landfill

Method with highest score:

Landfill not covered and no diversion system present

(Ref. 3, Table 9)

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Foundry sands, some with phenolic binders (ammonia and cyanide)

(Ref. 6 and 7)

١

Compound with highest score:

Pheno1

Cyanide

For HRS scoring purposes, the presence of hazardous wastes has not been confirmed.

(Ref. 3, Table 4)

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):

47,682 cu. yards of foundry sands; the presence of hazardous wastes in the foundry sands has not been confirmed

(Ref. 6 and 10)

Basis of estimating and/or computing waste quantity:

Ferry Concrete Construction Co. records

(Ref. 6 and 10)

* * *

5 TARGETS

Surface Water Use

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

Secondary contact recreation including casual fishing and wading

(Ref. 19)

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:

4000 feet overland to New York State regulated wetland LA-7

(Ref. 8)

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

None in area of site

(Ref. 8)

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:

N/A

(Ref. 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 0	BSERVED RELEASE
Cont	aminants detected:
	No analytical data available; HNU not used during Recra site visi (12/11/85)
Date	e and location of detection of contaminants
	N/A
Meth	nods used to detect the contaminants:
	N/A
Rat	ionale for attributing the contaminants to the site:
	N/A
	* * *
2	WASTE CHARACTERISTICS
Rea	ectivity and Incompatibility
Mo s	t reactive compound:
	None of the reported substances possess significant reactivity potential
Мо	st incompatible pair of compounds:
	None known

Toxicity

Most toxic compound:

Phenol

(Ref. 3, Table 4)

Hazardous Waste Quantity

Total quantity of hazardous waste:

47,682 cu. yards of foundry sands; presence of hazardous waste in foundry sands not confirmed

(Ref. 6 and 10)

Basis of estimating and/or computing waste quantity:

Ferry Concrete Construction Co. records

(Ref. 10)

* * *

3 TARGETS

Population Within 4-Mile Radius

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

0 to 4 mi

O to 1 mi

0 to 1/2 mi. .

0 to 1/4 mi

>10,000 people

(Ref. 18)

Distance to a Sensitive Environment

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

None in area

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

4000 feet overland to New York State regulated wetland LA-7

(Ref. 8)

Distance to critical habitat of an endangered species, if I mile or None in area (Ref. 8) Land Use Distance to commercial/industrial area, if I mile or less: Immediately adjacent to site (Ref. 4, USGS quad map) Distance to national or state park, forest, or wildlife reserve, if 2 miles or less: None in area (Ref. 4, USGS quad map) Distance to residential area, if 2 miles or less: Within 1,000 ft. (Ref. 4, USGS quad map) Distance to agricultural land in production within past 5 years, if 1 mile or less: N/A (Ref. 4, USGS quad map) Distance to prime agricultural land in production within past 5 years, if 2 miles or less: N/A (Ref. 4, USGS quad map) Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site? Unknown

FIRE AND EXPLOSION

1 CONTAINMENT	
Hazardous substances present:	
None confirmed	
Type of containment, if applicable:	
No containment	
	(Recra site visit)
* * *	
2 WASTE CHARACTERISTICS	
Direct Evidence	
Type of instrument and measurements:	
N/A	
Ignicability	
Compound used:	
N/A	
Reactivity	
Most reactive compound:	
N/A	
Incompacibility	·.
Most incompatible pair of compounds:	
N/A	

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

47,682 cubic yards of foundry sands; the presence of hazardous wastes in the foundry sands has not been confirmed

(Ref. 6 and 10)

Basis of estimating and/or computing waste quantity:

Ferry Concrete Construction Company records

(Ref. 10)

* * *

3 TARGETS

Distance to Nearest Population

Less than 1000 feet

(Ref. 4, USGS quad map)

Distance to Nearest Building

Less than 1000 feet

(Ref. 4, USGS quad map)

Distance to Sensitive Environment

Distance to wetlands:

4000 feet overland to New York State regulated wetland LA-7

(Ref. 8)

Distance to critical habitat:

N/A

(Ref. 3)

Land Use

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

Immediately adjacent to site

(Ref. 4, USGS quad map)

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

N/A

(Ref. 4, USGS quad map)

Distance to residential area, if 2 miles or less:

Less than 1000 feet

(Ref. 4, USGS quad map)

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

N/A

(Ref. 4, USGS quad map)

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

N/A

(Ref. 4, USGS quad map)

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

Unknown

Population Within 2-Mile Radius

Greater than 10,000

(Ref. 18)

Buildings Within 2-Mile Radius

Greater than 500

(Ref. 4, USGS quad map)

DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

No incidents reported

* * *

2 ACCESSIBILITY

Describe type of barrier(s):

Locked gate across access road off of Transit Road restricts vehicular entry to site. Access to the site is easily gained on foot or by recreational vehicles such as motorcycles

(Ref. 4 and Recra Site Visit (12/11/85)

* * *

3 CONTAINMENT

Type of containment, if applicable:

No containment

(Recra site visit)

* * *

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Foundry sands, some with phenolic binders (cyanide and ammonia)

(Ref. 6 and 7)

Compound with highest score:

Phenol Cyanide

For HRS scoring purposes, the presence of hazardous wastes has not been confirmed . 17

(Ref. 3, Table 4)

5 TARGETS

Population within one-mile radius

Greater than 10,000

(Ref. 18)

Distance to critical habitat (of endangered species)

N/A

(Ref. 8)

5.4 EPA PRELIMINARY ASSESSMENT (Form 2070-12)

3	E	PA
7/	L	

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENT	IFICATION
01 STATE	02 SITE NUMBER

PART 1 - SITE INFORMA	TION AND ASSESSMEN	IT LAYL	915064
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SP	ECIFIC LOCATION IDENTIFIER	
DRESSER INDUSTRIES		STREET	
DEPEW	04 STATE 05 ZIP CODE 06	ERIE	07 COUNTY 08 CONG CODE DIST
09 COORDINATES LATITUDE LONGITUDE	1		
42'54'24.0" 178'41"54."			
WALDEN AVENUE EAST FROM BUPPALITRANSIT ROAD CROSS RAILROAD TRA	CKS, bresser	RIGHT ONTO	ON RIGHT
III. RESPONSIBLE PARTIES			_
01 OWNER (# known)	02 STREET (Business, maling, resid		
DRESSER INDUSTRIES	2 MAIN S	STLEET	
03 CITY	04 STATE 05 ZIP CODE	06 TELEPHONE NUMBER	
DEPEN	141 11012	(7/6) 683-6000	
07 OPERATOR (If known and different from owner) SIME	06 STREET (Business, mailing, resid	entiel)	
09 CITY	10 STATE 11 ZIP CODE	12 TELEPHONE NUMBER	
13 TYPE OF OWNERSHIP (Check one) X A. PRIVATE B. FEDERAL: (Agency name)		D.COUNTY E. MU	NICIPAL
☐ F. OTHER:(Specify)	G. UNKNO	wn	
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check of that apply)			
□ A. RCRA 3001 DATE RECEIVED: / / □ B. UNCONTROL	LED WASTE SITE (CERCLA 103 c)	DATE RECEIVED:/	🛣 C. NONE
IV. CHARACTERIZATION OF POTENTIAL HAZARD		MONTH D	AY YEAR /\
O1 ON SITE INSPECTION BY (Check of the pook)			
YES DATE 12 10 84	A CONTRACTOR C.C.	STATE D. OTHER	CONTRACTOR L AND PLANAING
CONTRACTOR NAME(S):			
02 SITE STATUS (Check one) 03 YEARS OF OPER	ATION 1940 ~1977 BEGINNING YEAR ENDING YE	UNKNOW	N
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED	Jedinand Feren		
FOUNDRY SANDS LUBE OIL			
beolololie con	, ^ -	\sim	`
STEEL FINES (Frie	Co. Dept. of Env	hard Planning	1984)
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION			
UNKNOWN			
<u></u>			•
V. PRIORITY ASSESSMENT			
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Info	rmetion and Part 3 - Description of Hazard	lous Conditions and Incidents)	
	D. NONE (No further	action needed, complete current dispos	ution form)
VI. INFORMATION AVAILABLE FROM			``
01 CONTACT 02 OF (Agency/Organi		4	03 TELEPHONE NUMBER
	ESEARCH IN	<i>U</i> .	17161838-6260
04 PERSON RESPONSIBLE FOR ASSESSMENT 05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER (716)838-6200	08 DATE
Kermit Studiev	Rock	1116 1000-0200	MONTH DAY YEAR
EPA FORM 2070-12 (7-81)			

Ω		L
		٦

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

I. IDENTIFICATION						
O1 STATE	02 SITE NUMBER					

			PART Z-WAST	E INFORMATION			
II. WASTE ST	TATES, QUANTITIES, AN	D CHARACTER	STICS				
A. SOLID	OWDER, FINES G. F. LIQUID TONS UDGE G. GAS CUBIC YARDS 47.68		i waste quantitiez independent)	O3 WASTE CHARACTERISTICS (Check at that apply) A. TOXIC			VE
		NO OF BROWS					
III. WASTE T				,			
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE						
OLW	OILY WASTE						
SOL	SOLVENTS				_		
PSD	PESTICIDES						
occ	OTHER ORGANIC CH	IEMICALS					
IOC	INORGANIC CHEMIC	ALS				_	
ACD	ACIDS						
BAS	BASES						
MES	HEAVY METALS					<u> </u>	
V. HAZARDO	OUS SUBSTANCES (See A)	pendix for most frequent	ty cred CAS Numbers)		_		_
CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE/DISE	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	Dhennic bi	rders,					
	(NOT CONFIR			_			
		,				_	
		-	-				
			_				_
		_					_
				-			
							
	<u>_</u>						<u> </u>
, FEEDSTO	CKS (See Appendix for CAS Number	orki					
CATEGORY	01 FEEDSTOC		02 CAS NUMBER	CATEGORY	01 FEEDSTO	CK NAME	02 CAS NUMBER
	017223100	N IAME	UZ CAS NUMBER	-	31722310	ZOI. NAME	- CAG NUMBER
FDS				FDS			
FDS				FDS			
FDS				FDS			
FD\$				FDS			
	OF INFORMATION (CA)						
Fer	rry Conciet	e Cons	truction	Co. recor	d5	À	:
	,						

\$EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION							
O1 STATE	02 SITE NUMBER						

II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 A GROUNDWATER CONTAMINATION	02 OBSERVED (DATE:)	□ POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	LI FOIEIMIAL	U ALLEGED
11 12			
1 lo Known			
•			
	·		
01 DB. SURFACE WATER CONTAMINATION	02 C OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	1.1	-11 1
of fill avery Trace leve	d transadramage di	Englow	south edge
or till avec, like leve	is at phenal were as	rected)) .
(Ret 6 89)			
01 C. CONTAMINATION OF AIR	02 COBSERVED (DATE)	POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
N/14			
		•	
01 □ D. FIRE/EXPLOSIVE CONDITIONS	02	POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	a rotettine	5 ALLEGED
103/ 12	•		
10/71	•		
01 ☐ E. DIRECT CONTACT	02 □ OBSERVED (DATE:	☐ POTENTIAL	
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	E POTENTIAL	- ALLEGED
Unknown-site is easily acc	05511		
Linkwan-2115 12 GERALLY YOU	ezible		
,			
01 G F, CONTAMINATION OF SOIL	02 OBSERVED (DATE:)	C COTENTIAL	- ALL 5050
03 AREA POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	D POTENTIAL	☐ ALLEGED
Soil samples were collect	ted from a discipline a	itala alama	
edge of fill great Levels of	hend in complet noise		
cage of fill give, Levels of F	.4 +0 9.3 ppm.	gea From	
THE COUNTY			
01 ☐ G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 GBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	☐ ALLEGED
			_ \
Unknown - All water	used in area is m	nuncipal	SUPPLY
(Ref 5)		,	V V
01 TH. WORKER EXPOSURE/INJURY	02 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
None documented			
01 🗆 I. POPULATION EXPOSURE/INJURY	02 GBSERVED (DATE:)	□ POTENTIAL	E ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
None documented			
	•		

ŞEPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT RT 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENT

I. IDENT	TECATION
O1 STATE	02 SITE NUMBER

PART 3 - DESCRIPTION OF HA	ZARDOUS CONDITIONS AND INCIDENTS	NY	115064
H. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
01 □ J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
"Laknown			
•			
01 K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02 □ OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
Cokaman			
01 ☐ L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 □ OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
Clokanin	·		
01 M. UNSTABLE CONTAINMENT OF WASTES	02 - OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
opendrung, piles	uncovered		
01 □ N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 GBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
Unknasing		4 ^	
01 G O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS 04 NARRATIVE DESCRIPTION	02 □ OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
U. Kranin.			
01 TP. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 G OBSERVED (DATE:)	□ POTENTIAL	☐ ALLEGED
Presence of drive not	teco ited to the		
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEC	GED HAZARDS		
N)/F			
			
	n Kincirl		
IV. COMMENTS			
13/H			
V. SOURCES OF INFORMATION (Cite specific references, e. g., state files,	sample analysis, reports)		
NSCDEC REGION 9; ETC C	a, Deft of Ery, and Phani	M; Airlyti	C 165 (+=
Feen Research, Ire, let	ter document of municif	al witer li	E

5.5 EPA SITE INSPECTION REPORT (Form 2070-13)

	POTENTIAL HAZARDOUS WASTE SITE I. IDENTIFIC				
⇔EPA		SITE INSPECT	TION REPORT DINSPECTION INFORMAT	OI STATE	02 SITE MUMBER
II. SITE NAME AND LOCATIO	DN				
01 SITE NAME (Legal, common, or descr			02 STREET, ROUTE NO., OR SPEC		
DRESSUL IN	DUSTRUES		2 MAIN	<u> </u>	
DEPEW			NY 14643	DUE	07COUNTY 08 CONG DIST
9 COORDINATES 42 S4 Q L. D	18 41 54"_	A. PRIVATE	HP (Check one) B. FEDERAL	C. STATE D. COUNT' G. UNKNO	/ 🗆 E. MUNICIPAL WN
III. INSPECTION INFORMATI	ON 02 SITE STATUS	1 03 YEARS OF OPERA	TION		
MONTH DAY YEAR	☐ ACTIVE	~19		UNKNOWN	
04 AGENCY PERFORMING INSPECT	TON (Check all that apply)			_	
□ ALEPA □ BLEPA CONT □ ELSTATE Ø FLSTATE CO	RACTORRECTOR	Name of firm)	. 🗆 C. MUNICIPAL 🗔 D. MUN		(Name of firm)
05 CHIEF INSPECTOR	()	06 TITLE		(Specify) 07 ORGANIZATION	08 TELEPHONE NO.
Thomas Co	onnare	Environma	ental Siritit	Recia	(716)838-6-0-
09 OTHER INSPECTORS	·	10 TITLE	MINISTER STATE OF THE STATE OF	11 ORGANIZATION	12 TELEPHONE NO.
Theldon S. A	Jozik	Environn	rental Scientist	Recra	1716 1838-6200
					()
					()
					()
-					()
13 SITE REPRESENTATIVES INTERV	NEWED	14 TITLE	15ADORESS		16 TELEPHONE NO
Mr. Gus Shi	ivelli	Project En	gineer 2 Main Ct., De	epers, N.V 14043	171616836000
_		<u> </u>	J		()
					()
					()
				-	()
	_				()
					•
(Check one)	TIME OF INSPECTION	19 WEATHER CON	ottons dy, 35°F		
IV. INFORMATION AVAILAB			,,==,		
01 CONTACT	CONNARE	02 OF (Agency/Organ	PESEARCH I	uc	03 TELEPHONE NO. (7/6) 838 - 6200
04 PERSON RESPONSIBLE FOR SIT		05 AGENCY	<u> </u>	07 TELEPHONE NO.	OS DATE
Kernit St	Tidle/	US ASSITO!	Recra	(714) 838-6200	MONTH DAY YEAR
EPA FORM 2070-13 (7-81)	y		-		

	M

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION					
	O1 STATE	915004			

	PART 2 - WAST			TE INFORMATION LNY 191500		°264	
II. WASTE S	TATES, QUANTITIES, AP	D CHARACTER	ISTICS				
O1 PHYSICAL STATES (Check at their apply) A SOLID B POWDER FINES F LIQUID O2 WASTE QUANTI (Measures of must be a		TITY AT SITE of waste quantities e independent) I A TOXIC B CORROSIVE C RADIOACTIVE C RADIOACTIVE D PERSISTENT H IGNITABLE L INCOM		OSIVE TIVE			
H WASTE T	(Specify)	NO. OF DRUMS		Un	10W1		•
CATEGORY	SUBSTANCE N		01 GROSS AMOUNT	02 UNIT OF MEASURE	03.001 151/70		
SLU	SLUDGE		UT GROSS AMOUNT	OZ ONIT OF MEXIONE	US COMMENTS		-
OLW	OILY WASTE						
SOL	SOLVENTS		-				
PSD	PESTICIDES				•		
осс	OTHER ORGANIC CI	HEMICALS					
ЮС	INORGANIC CHEMIC	ALS					
ACD	ACIDS						
BAS	BASES						
MES	HEAVY METALS						
	OUS SUBSTANCES (See A		03 CAS NUMBER	04 STORAGE/DIST	OCAL METHOD	OF CONCENTRATION	06 MEASURE OF
CATEGORY	02 SUBSTANCE N		US CAS NUMBER	04 STORAGE/DISF	OSALMETHOU	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	, N	nders		-	<u>-</u>	_	
	(Not contin	m eq j		_			
_				-			
			_				
. FEEDSTO	CKS (See Appendix for CAS Numb	ers)					
CATEGORY	01 FEEDSTOO	K NAME	02 CAS NUMBER	CATEGORY	01 FEEDST	OCK NAME	02 CAS NUMBER
FDS				FDS			
FDS				FDS			
FDS				FDS			
FDS				FDS			
I. SOURCE	S OF INFORMATION (CR	specific references, e.g	, state files, sample analysis.	reports)			
F	erry Concre	te Cons	truction C	.o. recard	S		
1							

⊋FPΔ

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I.	IDENTIFICATION				
01 N	STATE	915064			

PART 3 - DESCRIPTION OF H	AZARDOUS CONDITIONS AND INCIDENTS		200-
II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 = A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 © OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	□ ALLEGED
01 = B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: Water samples were collected; edge of fill avaca. Trace (Ref. 649)	02 - OBSERVED (DATE) 04 NARRATIVE DESCRIPTION ted from a dvainage of levels of phenol we	E POTENTIAL ditch al	EALLEGED ong south tect.
01 © C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: N/A	02 TOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	□ ALLEGED
01 C D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: N/A	02 C OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	□ ALLEGED
01 0 E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: Unknown-Site is easily accessible		☐ POTENTIAL	□ ALLEGED
01 = F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: (Acres) (Acres)	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION ed from a discurring discharge di	/ L	41
01 = G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: LINKNOWN All water use (Ref. 5)			
01 = H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED: None dacumented	02 ☐ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	□ ALLEGED
01 - I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: None documented	02 □ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	(i) ALLEGED

£	FPΔ

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION					
01 }	STATE	02 31	E NUMBER		

. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)	1		
1 J. DAMAGE TO FLORA 4 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:) DOTENTIAL	□ ALLEGED
Mrkun			
I C K. DAMAGE TO FAUNA NARRATIVE DESCRIPTION (Include name(s) of species)	02 G OBSERVED (DATE.) TPOTENTIAL	□ ALLEGED
Unknown			
L. CONTAMINATION OF FOOD CHAIN NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:) □ POTENTIAL	G ALLEGED
Unknown			
M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Stending liquids, Leaking drums)	02 G OBSERVED (DATE.) C POTENTIAL	☐ ALLEGED
open dump, pil	es unavered.		
☐ N. DAMAGE TO OFFSITE PROPERTY NARRATIVE DESCRIPTION	02 C OBSERVED (DATE.) POTENTIAL	☐ ALLEGED
unkno on			
☐ O CONTAMINATION OF SEWERS, STORM DRAINS, WY	VTPs 02 C OBSERVED (DATE:) □ POTENTIAL	□ ALLEGED
Linknown			
I _ P ILLEGAL/UNAUTHORIZED DUMPING I NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:) □ POTENTIAL	□ ALLEGED
Presence of burrel	s not accounted for	•	
DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR	ALLEGED HAZARDS		
1)/A			
TOTAL POPULATION POTENTIALLY AFFECTED:	Unknowll		
COMMENTS			
NIA			
SOURCES OF INFORMATION (Cité specific references, e.g., stet			
NYSDEC Region 9: Erie Co. From Record Research Inc.; le	Dat + E. IDI	= 10.1±1.	ac. He

3	PΔ

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION

I. IDENTIFICATION						
المراج والم	OZ SITE NUMBER					
NY						

VEFA		T AND DESCRIF	TION PTIVE INFORMA	TION	NY 1915064
II. PERMIT INFORMATION					
01 TYPE OF PERMIT ISSUED Check as that apply	02 PERMIT NUMBER	DE DATE SOLED	24 EXPIRATION DATE	E 05 COMMENTS	
. A NPDES					
B UIC					
C AIR					
D RCRA					
_ E RCRA INTERIM STATUS					
F SPCC PLAN					
☐ G STATE 30					
H LOCAL Species					
_ I OTHER Specify					
+3 NONE			•	PLANT 11	· · · · · · · · · · · · · · · · · · ·
III. SITE DESCRIPTION					
01 STORAGE: DISPOSAL Check all that app. 32	AMOUNT 03 UNIT OF	F MEASURE 04 T	REATMENT One carrier	* 300 v	05 OTHER
A. SURFACE IMPOUNDMENT		A	INCENERATION		A BUILDINGS ON SITE
B PILES		- 1	UNDERGROUND IN		_ A BUILDINGS ON SITE
TIC DRUMS, ABOVE GROUND		1	CHEMICAL PHYSIC	CAL	
E. TANK BELOW GROUND			BIOLOGICAL WASTE OIL PROCE	SCING	26 AREA OF SITE
AF LANDFILL			_ F SOLVENT RECOVERY		
G LANDFARM			G OTHER RECYCLING RECOVERY		
H OPEN DUMP		— Н	OTHER	Sc 4c /v	
Seech				C 7C - F	
IV. CONTAINMENT C1 CONTAINMENT OF WASTES . Tel. (19) I A ADEQUATE, SECURE 02 DESCRIPTION OF DRUMS DIKING, LINERS BAR	☐ B MODERATE	XC INADEC	QUATE, POOR	_ D INSECU	RE UNSOUND DANGEROUS
Drums apparedem	pty and	comple	tely rust	ed.	
V. ACCESSIBILITY					
01 WASTE EASILY ACCESSIBLE \$ YES 02 COMMENTS STEEL STEEL	easily ac	cessible	<u>-</u>		
VI. SOURCES OF INFORMATION STORES					
Ferry Concrete Recra site vis	e Constr. (In. rece	rds		
Kecra site vis	, T				

7/ L.I / \	\$	El	PA
-------------------	----	----	----

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION					
OI STATE	02 SITE NUMBER				

SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA					TE 02 SITE NUMBER		
II. DRINKING WATER SU	PPLY						
01 TYPE OF DRINKING SUPPLY (Check as applicable)			02 STATUS	N/A		03	DISTANCE TO SITE
	SURFACE	WELL	ENDANGER		MONITORED		/V / AT
COMMUNITY	A. X C =	8 II 0. II	A. I D I	8 =	C Î	A .	(mi)
NON-COMMUNITY		<u> </u>		€ =	F 🖫	8	(mi)
III. GROUNDWATER							
01 GROUNDWATER USE IN VICE A ONLY SOURCE FOR D		B DRINKING Other sources available	DUSTRIAL. !RRIGATIO		CIAL, INDUSTRIAL, IRRIGA 7 sources available;	TION)	ONOT USED INUSEABLE
02 POPULATION SERVED BY GR	ROUND WATE	:P		03 DISTANCE TO NE	AREST DRINKING WATER	WELL	N/A (mi)
04 DEPTH TO GROUNDWATER		05 DIRECTION OF GRO	UNDWATER FLOW	36 DEPTH TO AQUIFE		LO	08 SOLE SOURCE AQUIFER
1:nknown	•)	Unkno	Wh	Ch Khawa	(m) Unknowl	,	□ YES □ NO
10 RECHARGE AREA I DISCHARGE AREA YES COMMENTS NO (Scrippe do Cr) or to south (cayuracr)							
IV. SURFACE WATER O1 SURFACE WATER USE Check one)							
☐ A RESERVOIR, RECRE DRINKING WATER S			N. ECONOMICALLY TRESOURCES	C COMME	RC - NDUSTRIAL		NOT CURRENTLY USED
02 AFFECTED POTENTIALLY AF	FECTED BOD	SES OF WATER				_	
NAME. AFFECTED DISTANCE TO SITE Scrigguede Creek = 2100 ft + 1000							
Cayllac	Cre	ek					100 ft to
					=	_	(mı)
V. DEMOGRAPHIC AND P	ROPERTY	INFORMATION			-		
01 TOTAL POPULATION WITHIN 02 I STANCE TO NEAREST POPULATION							
ONE (1) MILE OF SITE TWO (2) MILES OF SITE THREE (3) MILES OF SITE							
ANO OF PERSONS	B.		c. 2	2 0 0 0 0 0 OF PERSONS	~	30	+
03 NUMBER OF BUILDINGS WITH	HN TWO (2) A	AILES OF SITE		04 DISTANCE TO NE	ARESTOFF-SITE BUILDIN	-1	76)
05 POPULATION WITHIN VICINIT	Y OF SITE . Pri	ovide narrative description of r	eature of population within	VICIDITY OF SITE 9 2 TUTAL VIII	lage :- ~ y populated urban a	rea:	
_					roximately		0,000.

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

≎EPA		TION REPORT	01 STATE 02 SITE NUMBER
	RIS-WAIER, DEMUGRAPH	IC, AND ENVIRONMENTAL DATA	
VI. ENVIRONMENTAL INFORMATION			
01 PERMEABILITY OF UNSATURATED ZONE (Chec	k one)		
☐ A. 10 ⁻⁶ — 10 ⁻⁸ cm/sec	: 以 B. 10-4 - 10-6 cm/sec □	C. 10 ⁻⁴ − 10 ⁻³ cm/sec ☐ D. GREATER	THAN 10 ⁻³ cm/sec
02 PERMEABILITY OF BEDROCK (Check one)		_	
☐ A. IMPERMEABLE (Less than 10 ⁻⁶ cm/sc	B. RELATIVELY IMPERMEABI		VERY PERMEABLE (Greater than 10 ⁻² cm/sec)
03 DEPTH TO BEDROCK 04 DEP	TH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
<u>8-10</u> (m)	Unknown m	Unknown	
06 NET PRECIPITATION 07 ONE	YEAR 24 HOUR RAINFALL	08 SLOPE DIRECTION OF SITE S	NOSE TERRAIN AVERAGE SLODE
<u>9.0</u> (in)	2.\(in)	SITE SLOPE DIRECTION OF SITES	
09 FLOOD POTENTIAL	10	· · · · · · · · · · · · · · · · · · ·	
SITE IS IN NA YEAR FLOODPLAN	SITE IS ON BARRI	ER ISLAND, COASTAL HIGH HAZARD AREA.	, RIVERINE FLOODWAY
11 DISTANCE TO WETLANDS (5 acre minimum)		12 DISTANCE TO CRITICAL HABITAT (of endangers	od species)
ESTUARINE	OTHER	_N//	(mi)
A(mi)	3(mi)	ENDANGERED SPECIES:	
13 LAND USE IN VICINITY			
DISTANCE TO:			
COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATION FORESTS, OR WILDLIF		ICULTURAL LANDS ND AG LAND
A. ~500ftmi	B. <u>≤00€</u>	<u></u> c	(mi) D (mi)
14 DESCRIPTION OF SITE IN RELATION TO SURRO	DUNDING TOPOGRAPHY		
The site is the west to	nearly level Conrail prop	with agentle erty	slope to and
	V	/	

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

Erie Ch Dept. of Envisored Phinning, USGS topographic map-kincester, NY. 1965. Uncontrolled Hazardow waste Site Ranking System-User's manual, direct; NYSDEC wetlands and critical habitat documentation; floatphin information thanks Eight and FIRM MAP

Ω	

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

				ATION
0 1	STA	E	02 S	TE NUMBER

SURFACE WATER WASTE AR RUNOFF SPIL SOL VEGETATION OTHER L. FIELD MEASUREMENTS TAKEN TITE OZ COMMENTS NO MEASUREMENTS NO MEASUREMENTS TAKEN NO MEASUREMENTS TO THE GROUND NERAL NORM OF GROUND OF MAPS THEN OF OPPORTUNITY NORM OF OP	SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT	то			03 ESTIMATED DATE RESULTS AVAILABL
SURFACE WATER WASTE AR RUNOPF SPIL SOL VEGETATION OTHER IL FIELD MEASUREMENTS TAKEN TITE O2 COMMENTS MEASUREMENTS TAKEN NO MEASUREMENTS TAKEN O2 HOUSTODY OF FELE COUNTY DEST SWULK MAD PLYNMIN. NAME OF SUPERIELD OF HOUSE O	GBOLINOWATER		4/2	51.12/15	touril		
WASTE AR RUNOFF SPLL SOIL VEGETATION OTHER I. FIELD MEASUREMENTS TAKEN TYPE O2 COMMENTS NO MEASUREMENTS TAKEN I. PHOTOGRAPHS AND MAPS II TYPE OROUND ARRAL O2 N CUSTODY OF ERIE OWN TY DEPT SWILK MAD PLYNNIN THERE I ON TY DEPT SWILL M			No	SHMPCES	TAKEN		
RUNOFF SPLL SOL VEGETATION OTHER I. FIELD MEASUREMENTS TAKEN TYPE O2 COMMENTS NO MEASUREMENTS TAKEN TAKEN O2 NO OSTOOY OF FRIE COUNTY DEFT GNUIL MID PLEAMING. NAME OF THE GROUND ALERAL O2 NO OSTOOY OF FRIE COUNTY DEFT GNUIL MID PLEAMING. NAME OF THE OSTOOY OF THE COUNTY DEFT GNUIL MID PLEAMING. TAKEN OA LOCATION OF MAPS SANO OTHER FIELD DATA COLLECTED (Provide nemerice describant) II. SOURCES OF INFORMATION ICEs appeals infrances & 6g. 1868 files, sample analysis, records	SUMPACE WATER						
RUNOFF SPIL SOIL VEGETATION OTHER I. FIELD MEASUREMENTS TAKEN TYPE 102 COMMENTS NO MENSUREMENTS TAKEN TYPE 102 COMMENTS NO MENSUREMENTS TAKEN TAKEN 10 TYPE 104 COUNTY DEPT GROUN MAPS 101 TYPE 104 COUNTY DEPT GROUN MAPS 105 TYPE 105 CALCOCATION OF MAPS 105 YES 105 OAL COCATION OF MAPS 105 YES 105 OAL COCATION OF MAPS 105 YES 106 OAL COCATION OF MAPS 107 YES 108 OAL COCATION OF MAPS 108 OAL COCATION OF MAPS 109 OAL COCATION OF MAPS 100 OAL COCATION OF MAP	WASTE						
SPIL SOL VEGETATION OTHER I. FIELD MEASUREMENTS TAKEN TYPE O2 COMMENTS No MEASUREMENTS TAKEN TYPE O2 COMMENTS NO MEASUREMENTS TAKEN NAME OF THE COUNTY DEPT SOUTH MED PLINNING NAME OF THE COUNTY DEPT SOUTH MED PLINNING NAME OF THE COUNTY DEPT SOUTH MED PLINNING NAME OF THE OFFICE OF THE COUNTY DEPT SOUTH MED PLINNING NAME OF THE OFFICE OFFICE OF THE OFFICE OF THE	AIR						
SOIL VEGETATION OTHER I. FIELD MEASUREMENTS TAKEN TYPE O2 COMMENTS NO MEASUREMENTS TAKEN O2 NOUSTOOY OF ERIE COUNTY DEFT GUUIK IND PLANNINI NAME of Organization of indimension NAME OF COUNTY DEFT GUUIK IND PLANNINI NAME of Organization of indimension OTHER FIELD DATA COLLECTED (Provide namenor operiodon) I. SOURCES OF INFORMATION (Cite specific inferences, e.g., 1988 1988, 1889) # 1899-18. (1900)	RUNOFF						
VEGETATION OTHER I. FIELD MEASUREMENTS TAKEN TYPE O2 COMMENTS I. PHOTOGRAPHS AND MAPS II TYPE O3 LOCATION OF MAPS YES YES YES O4 LOCATION OF MAPS O5 LOCATION OF MAPS O5 LOCATION OF MAPS O5 LOCATION OF MAPS O6 LOCATION OF MAPS O7 LOCATION OF MAPS O6 LOCATION OF MAPS O7 LOCATION OF MAPS	SPILL						
OTHER FIELD MEASUREMENTS TAKEN TYPE 02 COMMENTS PHOTOGRAPHS AND MAPS TYPE GROUND AERIAL 02 N OUSTODY OF ERIE COUNTY DEPT SWUIR MAD PRINTING WARMS OF ORGANISMON OF MAPS YES NO. OTHER FIELD DATA COLLECTED (Provide nemative creatropoin)	SOIL					_	
I. SOURCES OF INFORMATION (Cre specific references, s.g., size fies, semple energies, reports) NERS UND MEASUREMENTS TAKEN NAME AS URE MENTS TAKEN	VEGETATION						
NO MEASUREMENTS TAKEN OLITTIPE GROUND ARRIAL OLITTOPY OF ERIE COUNTY DEPT GNUIK MAD PLANMIN Name of organization or individual) NAME OF ORGANIZATION OF MAPS NO OLITTOPY OF THE COUNTY DEPT GNUIK MAD PLANMIN NAME OF ORGANIZATION OF MAPS NAME OF ORGANIZATION ORGANIZATION OF ORGANIZATION ORGANIZATION ORGANIZATION ORGANIZATION ORGANI	OTHER						
MEDSUREMENTS TAKEN MAPS O4 LOCATION OF MAPS VES VINO OTHER FIELD DATA COLLECTED (Provide nerserve description) II. SOURCES OF INFORMATION (Cre specific references, e.g., state files, semple energies, reports)	L FIELD MEASUREMENTS T	AKEN					
I. PHOTOGRAPHS AND MAPS 11 TYPE GROUND AERIAL 12 N CUSTODY OF ERIE COUNTY DEPT GNUIR. MAD PLINNIN. 13 Name of organization or individual) 14 LOCATION OF MAPS 15 YES 16 NO 16 LOCATION OF MAPS 17 TYPE GNUIR. MAD PLINNIN. 18 Name of organization or individual) 18 NO 19 OF THE FIELD DATA COLLECTED (Provide nerrative describbin) 19 SOURCES OF INFORMATION (Cire associtic references, e.g., state fiess, sample analysis, reports)	TYPE	02 COMMENTS					
I. PHOTOGRAPHS AND MAPS 11 TYPE GROUND AERIAL O2 IN CUSTODY OF ERIE COUNTY DEPT GVUIK. MAD PLINNIN MAPS YES AND O4 LOCATION OF MAPS OTHER FIELD DATA COLLECTED (Provide nerrative describbin) I. SOURCES OF INFORMATION (Cre specific references, e.g., state tiese, sample energies, reports)			1/ 45	ar ar ar		TAVEN	
AAPS S O4 LOCATION OF MAPS S YNO OTHER FIELD DATA COLLECTED (Prowde nerretive description) I. SOURCES OF INFORMATION (Cite specific references, e.g., state fles, sample energies, recorts)			NO ME	A) UKE ME	N/1	17 KEP	
O2 IN CUSTODY OF ERIE COUNTY DEPT GNUIK AND PLINNIN Name of organization or individual) Name of organization or individual) O 1 TYPE GNUIK AND PLINNIN Name of organization or individual) O 2 IN CUSTODY OF ERIE COUNTY DEPT GNUIK AND PLINNIN Name of organization or individual) Name of organization or individual) O 2 IN CUSTODY OF ERIE COUNTY DEPT GNUIK AND PLINNIN Name of organization or individual) Name of organization or individual) O 2 IN CUSTODY OF ERIE COUNTY DEPT GNUIK AND PLINNIN NAME of Organization or individual)							
O2 IN CUSTODY OF ERIE COUNTY DEPT GNUIK AND PLYNNING Name of organization or individual) NAME of Organization or individual) NOTHER FIELD DATA COLLECTED (Provide narrative description) NOTHER FIELD DATA COLLECTED (Provide narrative description)							
O2 IN CUSTODY OF ERIE COUNTY DEPT GNUIK AND PLYNNING Name of organization or individual) NAME of Organization or individual) NOTHER FIELD DATA COLLECTED (Provide narrative description) NOTHER FIELD DATA COLLECTED (Provide narrative description)							
O2 IN CUSTODY OF ERIE COUNTY DEPT GNUIK AND PLYNNING Name of organization or individual) NAME of Organization or individual) NOTHER FIELD DATA COLLECTED (Provide narrative description) NOTHER FIELD DATA COLLECTED (Provide narrative description)							
O2 IN CUSTODY OF ERIE COUNTY DEPT GNUIK AND PLYNNING NAME OF ORGANIZATION OF MAPS VIES NO OTHER FIELD DATA COLLECTED (Provide narrative description) O1. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyse, recorts)							
O2 IN CUSTODY OF ERIE COUNTY DEPT GNUIK AND PLYNNING NAME OF ORGANIZATION OF MAPS VIES NO OTHER FIELD DATA COLLECTED (Provide narrative description) O1. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyse, recorts)							
MAPS VES NO VOTHER FIELD DATA COLLECTED (Provide nerrative description) VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample energyse, reports)				FO.F Co.14	TV NEDT	FALLUR ALL	Pl sia latinu
. OTHER FIELD DATA COLLECTED (Provide nerretive description) 1. SOURCES OF INFORMATION (Cite specific references, e.g., state (lines, sample energy))	1 TYPE GROUND AERIA	L	02 IN CUSTODY OF	ERIE COUN	ne of organization or individual)	OVOIR. AND	CANANIAS
7. OTHER FIELD DATA COLLECTED (Provide nerrative description) 1. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)		ON OF MAPS	_				
. OTHER FIELD DATA COLLECTED (Provide nerretive description) I. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample snelysis, reports)							
I. SOURCES OF INFORMATION (Cite apecific references, e.g., state files, sample analysis, reports)		ECTED (Provide nerrative de	acretion)				
					, Inc. Jan	. 28, 1982	

\$EPA Po		SITE INSPI	ARDOUS WASTE SITE ECTION REPORT NER INFORMATION		I. IDENTIFICATION 01 STATE 02 SITE NUMBER	
II. CURRENT OWNER(S)			PARENT COMPANY (If applicable)	-		
Dresser Industria	ec	02 D+B NUMBER	OB NAME Dresser Indus	١ 1	09 D+B NUMBER	
03 STREET ADDRESS (P O Box. RFD # Mc.)		04 SIC CODE	10 STREET ADDRESS (P O Box, RFD P. MC.)	1116	11 SIC CODE	
2 Main ST,	DA STATE	07 ZIP COO€	POBOX 718	112 07475	14 ZiP COO€	
DeDew	NY	14043	Dallas	TX	75771	
O1 NAME	<u> </u>	02 D+B NUMBER	08 NAME		09 D+B NUMBER	
D3 STREET ADDRESS (P O Box, RFD #. etc.)		04 SIC CODE	10 STREET ADDRESS (P O Box. RFD #. etc.)	!	11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
01 NAME		02 D+B NUMBER	08 NAME		09 D+8 NUMBER	
D3 STREET ADDRESS (P.O. Box. RFD # erc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11SIC CODE	
DS CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
DI NAME		02 D+8 NUMBER	08 NAME		09D+B NUMBER	
03 STREET ADDRESS (P O. Box, AFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P O Box, RFD P. orc.)		11 SIC CODE	
D5 CITY	06 STATE	O7 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
III. PREVIOUS OWNER(S)-(Liet most recent	firet)		IV. REALTY OWNER(S) (If applicable: 8	let most recent first)		
Simme to Literas C		02 D+B NUMBER	01 NAME	_	02 D+B NUMBER	
Syminaton-Ukyne C D3 STREET ADDRESS (P O. BOX, AFD P. HC.)	JU,	04 SIC CODE	03 STREET ADDRESS (P O. Box. RFD P. etc.	,	04 SIC CODE	
DS CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE	
Syminaton-Gould		02 D+B NUMBER	01 NAME		02 D+8 NUMBER	
03 STREET ADDRESS (P O. Box, RFD P, etc.)		04 SIC CODE	03 STREET ADDRESS (P O BOX. RFD P. etc.)		04 SIC CODE	
SCITY SCITY	06 STATE	07 ZIP CODE	os city	06 STATE	07 ZIP CODE	
DI NAME		02 D+B NUMBER	01 NAME		02 D+8 NUMBER	
OS STREET ADDRESS (P O. BOX, AFO P. OC.)	benx	04 SIC CODE	03 STREET ADORESS (P O Box, RFD #), etc.)		04 SIC CODE	
Same	OGSTATE	07 ZIP CODE	05 CITY	OG STATE	07 ZIP CODE	
· · · · · · · · · · · · · · · · · · ·	Journal					
V. SOURCES OF INFORMATION (CAO	specific references,	e.g., state /liee, sample analys	is, reports)			

⊕EPA	PC	SITE INSPE	ARDOUS WASTE SITE ECTION REPORT ATOR INFORMATION	I. IDENTIF	CATION SITE NUMBER
H. CURRENT OPERATOR (Provide	le if different from owner)		OPERATOR'S PARENT COMPA	NY (Mappicable)	
01 NAME		02 D+8 NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD # et	rc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box. RFD #, etc.	.,	13 SIC COD
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 09 NAME	OF OWNER		-		
III. PREVIOUS OPERATOR(S) (La	at most recent first; provide on	ly if different from owner)	PREVIOUS OPERATORS' PARE	ENT COMPANIES (#	applicable)
01 NAME		02 D+8 NUMBER	10 NAME		11 D+B NUMBE
03 STREET ADDRESS (P.O. Box, RFD 8, etc.	c.)	04 SIC CODE	12 STREET ADORESS (P.O. Box, RFD #, etc.	c.)	13 SIC COD
05 CITY	O6 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 09 NAME	OF OWNER DURING THE	S PERIOD			
01 NAME		02 D+B NUMBER	10 NAME		11 0+8 NUMBE
03 STREET ADDRESS (P.O. Box, RFD #. etc	;.)	04 SIC CODE	12 STREET ADDRESS (P O Box. RFD P, and	:.)	13 SIC COC
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP COO€
08 YEARS OF OPERATION 09 NAME	OF OWNER DURING TH	IS PERIOD			_
01 NAME		02 D+B NUMBER	10 NAME		11 D+8 NUMBE
03 STREET ADDRESS (P.O. Box, RFD #, etc.	-	04 SIC CODE	12 STREET ADDRESS (P.O. Box. RFD P. etc.	E.)	13 SIC COD
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 09 NAME	OF OWNER DURING TH	IS PERIOD			L
IV. SOURCES OF INFORMATIO	N (Cite specific references.	e.g., state files, sample ener	yas, reports)		

3	EF	A
7/	اطا	

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

[I. IDI	ENTIFIC	ATION
O1 ST	ATE 02 9	ATION ITE NUMBER

~ — · ·	PART 10 - PAST RESPONSE ACTIVITIES	111111111111111111111111111111111111111
H. PAST RESPONSE ACTIVITIES		
01 A. WATER SUPPLY CLOSED	02 DATE	03 AGENCY
04 DESCRIPTION N/A		
[/ ^V / F	•	
01 B. TEMPORARY WATER SUPPLY PROVIDED	02 DATE	03 AGENCY
O4 DESCRIPTION	VE UNIE	
V/A		
01 C. PERMANENT WATER SUPPLY PROVIDED	02 DATE	03 AGENCY
OA DESCRIPTION	02 DATE	US AGENCY
N/A		
01 □ D. SPILLED MATERIAL REMOVED	02 DATE	03 AGENCY
04 DESCRIPTION	<u></u>	OS AGENOT
12/ F:		
01 C E. CONTAMINATED SOIL REMOVED	02 DATE	03 AGENCY
AA DESCRIPTION	02 DATE	US AGENCY
11.7		
01 G F. WASTE REPACKAGED	02 DATE	03 AGENCY
04 DESCRIPTION ///	V2 DATE	
17/7		,
01 G. WASTE DISPOSED ELSEWHERE	02 DATE	03 AGENCY
04 DESCRIPTION	02 DATE	OU NOBITO I
NIA		
01 C H. ON SITE BURIAL	02 DATE	03 AGENCY
04 DESCRIPTION	02 DATE	- Tighting I
/// /:	•	
01 🗆 I. IN SITU CHEMICAL TREATMENT	02 DATE	03 AGENCY
A DECARROTION	02 DATE	OUNGERO!
04 DESCRIPTION		
01 G J. IN SITU BIOLOGICAL TREATMENT	02 DATE	03 AGENCY
OA DESCRIPTION	V2 DATE	JO AGENO!
04 DESCRIPTION		
01 C K. IN SITU PHYSICAL TREATMENT	02 DATE	03 AGENCY
04 DESCRIPTION	VE DATE	
// /:		
01 C L ENCAPSULATION	02 DATE	03 AGENCY
04 DESCRIPTION		
(C_i, V_i)		
01 C M. EMERGENCY WASTE TREATMENT	02 DATE	03 AGENCY
04 DESCRIPTION		
/		
01 D N. CUTOFF WALLS	02 DATE	03 AGENCY
04 DESCRIPTION		
17/4		
01 G. O. EMERGENCY DIKING/SURFACE WATER I	DIVERSION 02 DATE	03 AGENCY
04 DESCRIPTION		
[// N		
01 ☐ P. CUTOFF TRENCHES/SUMP	02 DATE	03 AGENCY
OA DEPORIETION		
11/7	`	
01 G Q. SUBSURFACE CUTOFF WALL	02 DATE	03 AGENCY
OA DESCRIPTION	V2 UNIE	O mairo i
////		

PART9		CTION REPORT	NY °	SITE NUMBER
	SITE INSPECTION REPORT PART 9 - GENERATOR/TRANSPORTER INFORMATION			
	22 D+B NUMBER			
ies				
•	04 SIC CODE			
N STATE	7			
		<u> </u>		
	32 D + 8 NUMBER	31 NAME		D2 D+8 NUMBER
	34 SIC CODE	DB STREET ADDRESS PUBLICATOR AT	,	04 SIC CODE
06 STATE	07 ZIP CODE	05 CiTY	06 STATE	07 ZIP DODE
_	G2 D+B NUMBER	O' NAME		02 D+B NUMBER
	24.8:0.0005	01 STREET ACRESCS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		D4 SIC CODE
	04 SIC CODE	03.5 REET ADDRESS 9 3 90, 445 # 9/5		34 310 0000
COSTATE	J72PCODE	05 CiT ¥	106 STATE	ST ZIP CODE
				•
$\overline{}$	D2 D+B NUMBER	C' NAME		02 D+B NUMBER
1.00.	C4 SIC CODE	G3 STREET ADDRES HOL REG # 410		04 SIC CODE
			TOP STATE	27 7ID CODE
, J. 1	, , ,	US CITY	JUG STATES	UT ZIF COUE
LNY				
	02 0 + B NUMBER	01 NAME		02 D+B NUMBER
inc				
	04 SIC CODE	03 STREET ADDRESS 314 FF2 # 817		04 SIC CODE
D6 STATE	07.219.CODE	05 CiT :	06 STATE	37 ZIP CODE
3.2.5	U. ZIF CODE	35011		
	C6 STATE C6 STATE C6 STATE C7 C6 STATE	25 STATE 37 ZIP CODE 22 D+B NUMBER 24 SIC CODE 25 D+B NUMBER 25 D+B NUMBER 26 STATE 37 ZIP CODE 26 D+B NUMBER 26 STATE 37 ZIP CODE 26 D+B NUMBER 26 D+B NUMBER 26 D+B NUMBER 27 D+B NUMBER	DB STATE D7 Z P CODE	14 STATE 27 2 P CODE

NYCDEC files , Interregency Task Force on Hazaidaic Whates, Draft, Erie and Nicepara Cois, N.Y.

&EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	I. IDENTIFICATION 01 STATE 02 SITE NUMBER 9 5064
II PAST RESPONSE ACTIVITIES (Continued)		
01 DR. BARRIER WALLS CONSTRUCTE 04 DESCRIPTION		03 AGENCY
01 T. S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY
01 T BULK TANKAGE REPAIRED 04 DESCRIPTION		03 AGENCY
01 © U GROUT CURTAIN CONSTRUCT 04 DESCRIPTION	<u>.</u>	03 AGENCY
01 © V BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY
01 TW. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 □ X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 TY LEACHATE TREATMENT 04 DESCRIPTION		03 AGENCY
01 Z Z. AREA EVACUATED 04 DESCRIPTION		03 AGENCY
01 = 1 ACCESS TO SITE RESTRICTED 04 DESCRIPTION		03 AGENCY
01 = 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY
01 = 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION		03 AGENCY

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



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

I. IDENT	IFICATION
OI STATE	02 SITE NUMBER

VEPA	PART 11 - ENFORCEMENT INFORMATION	NY 95004
II. ENFORCEMENT INFORMATION		
01 PAST REGULATORY/ENFORCEMENT ACTION T YES	¥ NO	
02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATO	DRY-ENFORCEMENT ACTION	
	·	
III. SOURCES OF INFORMATION (Cité specific refere	nces, e.g., state fries, sample analysis, reports)	

6.0 ADEQUACY OF AVAILABLE DATA

Based on the available information, the Dresser Industries site was found to have a migration potential (Sm) score of O. This Sm score was based on the information acquired through a review of available literature. During the completion of the HRS, several data inadequacies were encountered. These inadequacies include:

- o waste characterization.
- o amounts and types of waste disposed before 1961.
- o presence or absence of buried drums.
- o subsurface information including depth to the water table and/or aquifer of concern, permeability, groundwater quality and groundwater flow direction.
- o additional sampling of site soils and surface water.
- o lack of air quality information.

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 environmental and potential health 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 waste characterization
- o waste record review
- 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 Hazardous Ranking System
- o reporting.

7.2 Scope of Work

The presence of hazardous wastes at the Dresser Industries site has not been confirmed through existing historical documentation. Although foundry sands have been disposed of on site, there has been no documentation of contaminants in the sands. Prior to the implementation of a Phase II work plan that would include test borings, monitoring well installation, and groundwater sampling, waste characterization of the foundry sands at the site should be performed. In addition, a geophysical survey should be conducted to indicate the possible presence of buried drums, to identify the limits of the fill area, and to define stratigraphy beneath the site.

If warranted by the results of the waste characterization and/or the geophysical survey, consideration should be given to implementation of the Phase II work plan described in Sections 7.2.3 through 7.2.5 of this report.

7.2.1 Waste Characterization

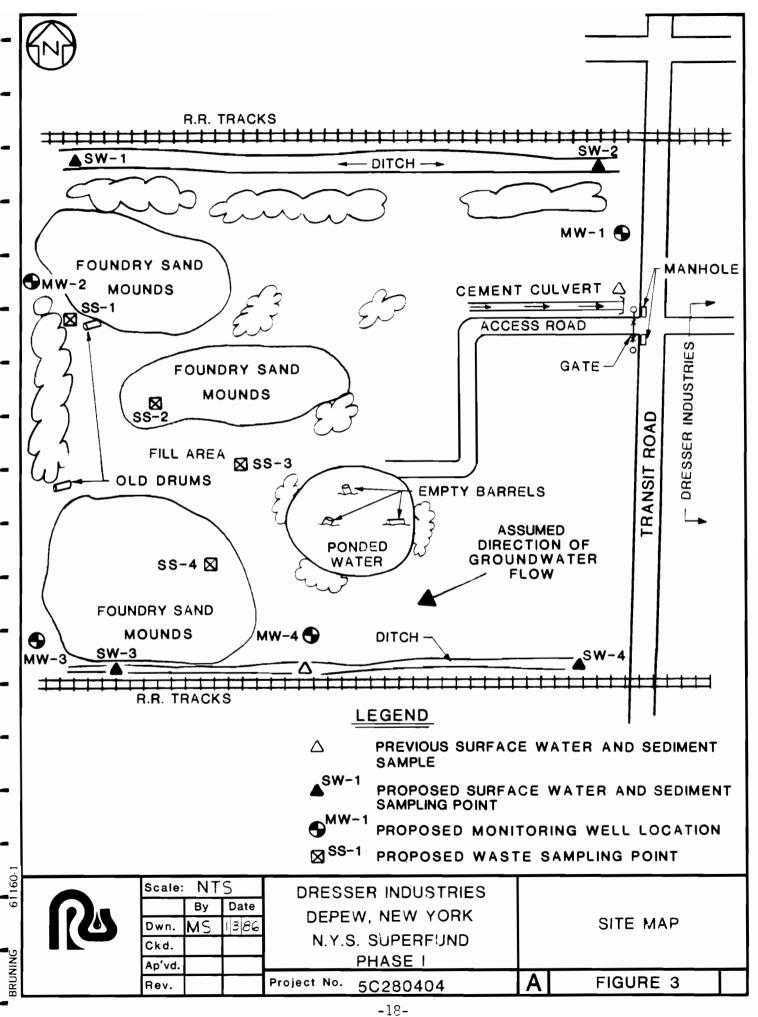
Four waste samples will be collected by hand auger from the upper six inches of the fill area at the locations shown on Figure 3. Samples will be placed in pre-cleaned, teflon-lined, screw cap glass jars and delivered under chain of custody to the Recra Environmental Laboratories in

Tonawanda, New York. Each sample will be analyzed for priority pollutant metals (Contract Laboratory Protocol), cyanide, ammonia and total recoverable phenolics. A composite of the four waste samples will be analyzed for priority pollutant organics (Contract Laboratory Protocol). GC/MS procedures will include the identification and quantification of all peaks ten percent or greater than the nearest calibrating standard. If any of the analyses indicate a high metals content, an EP toxicity test will be run on the sample with the highest metal concentration.

7.2.2 Geophysical Survey

The purpose of the geophysical survey at the Dresser Industries site is to identify buried drums, if present, define the stratigraphy beneath the site, and establish the lateral limits of the fill area. The geophysical techniques that will be employed during the investigation will include terrain conductivity, magnetometer and seismic refraction.

Terrain conductivity will be used to determine the lateral extent of the fill area and to detect metallic objects such as buried drums and tanks, if present. Readings will be obtained using a Geonics Model EM-31 conductivity meter. A twenty-meter grid system will be established over the site using a Brunton compass and tape. The size of the grid system may change depending on the actual conditions encountered at the site.



The magnetometer survey will be used to more clearly define the presence or absence of buried metallic objects such as drums. The survey will be performed using a proton magnetometer, an instrument that measures changes in the shallow subsurface magnetic field.

Seismic refraction will be employed to develop a preliminary delineation of stratigraphy beneath the site. This technique will be used to map depths to specific horizons such as bedrock, clay layers, and possibly the water table.

7.2.3 Test Borings

If warranted by the results of the waste characterization and/or geophysical survey, four test borings will be advanced at the site, one upgradient and three downgradient of the former landfill area (Figure 3). 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, 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 cleaning area. Throughout the cleaning processes, direct contact between equipment and the ground surface will be avoided. Plastic sheeting and/or 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 and removed off-site only if readings from the HNU photoionizer are recorded at 5 ppm or above. Soil samples will be collected uisng a two inch outside diameter split-barrel sampler advanced in accordance with the standard pentration test procedures (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 organically pre-cleaned, 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)
- o rinse 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), cyanide, ammonia, and total recoverable phenolics. 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 Recra geologist.

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, one upgradient and three downgradient, will be installed (Figure 3). 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 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 develop-

ment.

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), cyanide, ammonia, total recoverable phenolics, and specific conductance. GC/MS procedures will include the identification and quantification of all peaks ten 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 <u>Seepage</u>, <u>Drainage and Flow Nets</u>, 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 <u>Surface Water and Sediment Sampling</u>

Surface water and sediment samples will be collected in site drainage ditches. Locations of sampling points are indicated in Figure 3 and assume the presence of site run-off in the ditches at the time of sampling. Samples will be analyzed for priority pollutant metals (Contract Laboratory Protocol), cyanide, ammonia and total recoverable phenolics.

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

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 monitor well installation 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 Research, Inc., the reader is referred to a document previously submitted by Recra Research, Inc., to NYSDEC, entitled, "Operation Manual - Field and Analytical Services."

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), the New York State Department of Environmental Conservation (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 Phase II Work Plan is described below. This estimate is based on the placement of four monitoring wells at 30 feet below ground surface.

o Waste Characterization

-	Sampling	\$	100.00
-	Analyses	_	3,458.00

Total \$ 3,558.00

- o Geophysics 6,000.00
- o Subsurface Investigation

- Survey 2,000.00

- Test borings and well installation 16,500.00

- Analyses <u>11,480.00</u>*
Total \$ 29,980.00

o Surface Water and Sediment Sampling

- Sampling 100.00

- Analyses <u>1,628.00</u>
Total \$ 1,728.00

o Preliminary Engineering Evaluation,

Final HRS Scoring and Report 8,000.00

TOTAL PHASE II \$49,266.00

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

APPENDIX A

DATA SOURCES AND REFERENCES

REFERENCES

- 1. Preliminary Evaluation of Chemical Migration to Groundwater and the Niagara River from selected Waste Disposal Sites. EPA 905/4-85-001 March, 1985.
- 2. General Soil map and Interpretations. Erie County, New York. USDA Soil Conservation Service.
- Uncontrolled Hazardous Waste Site Ranking System, Users Manual, Draft. June 10, 1982.
- 4. Hazardous Waste Site Profile; Dresser Industries. Prepared by the Erie County Department of Environment and Planning. December, 1984.
- 5. Letter to Robert Pitman, Water Commissioner, from Sheldon S. Nozik, Environmental Specialist, Recra Research, Inc., regarding water supply.
- 6. New York State Department of Environmental Conservation, Division of Solid and Hazardous Waste, Inactive Hazardous Waste Disposal Site Report; Dresser Industries.
- 7. Interagency Task Force on Hazardous Wastes, Draft Report on Hazardous Wastes in Erie and Niagara Counties, New York, March, 1979.
- 8. Documentation of freshwater wetlands and critical habitats from NYSDEC, Region 9. December 18, 1985.
- 9. Analytical Results from Recra Research, Inc., January 28, 1982.
- Letter from John Ferry, Ferry Concrete Construction Co., Inc., to Peter J. Millock, Director, Interagency Task Force on hazardous wastes. Map 10, 1979.
- 11. State of New York Official Compilation of Codes, Rules, and Regulations, 1983. Article 8, Part 837.
- 12. New York Water Classifications and Quality Standards. Bureau of National Affairs, Inc., Part 701.
- NYSDEC Region 9, Dresser Industries Site Profile.
- 14. Flood Insurance Rate Map, Village of Depew, New York, Erie County, Panel 3 of 5, 360236 003B, August 3, 1981.

REFERENCES (Continued)

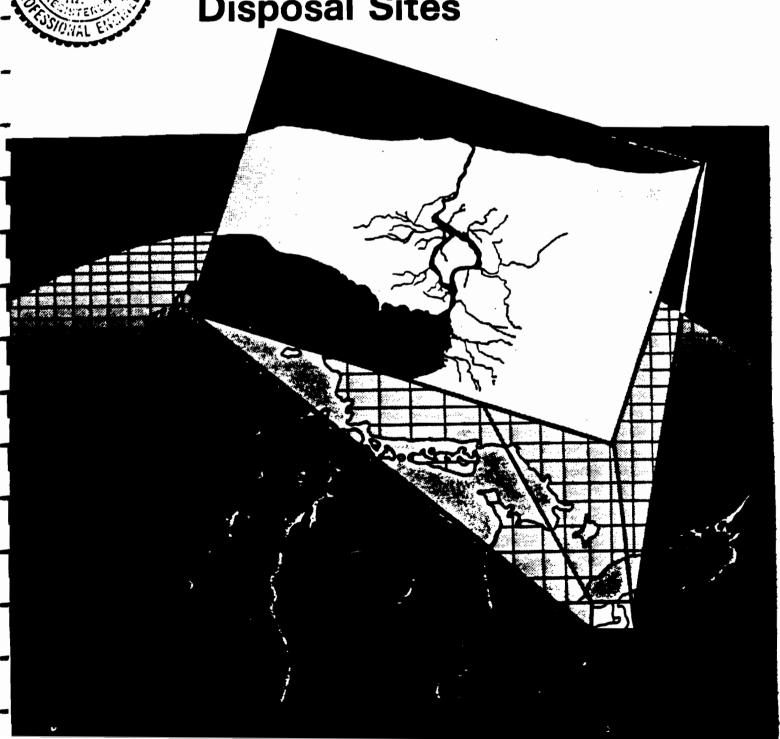
- Buehler, E. J., and I. H. Tesmer, 1963. Geology of Erie County, New York. Buffalo Society of Natural Sciences Bulletin, Vol. 21, No. 3.
- 16. LaSala, A. M., Jr., 1968. Groundwater Resources of the Erie-Niagara Basin, New York. Prepared for the Erie-Niagara Basin Regional Water Resources Planning Board. Basin Planning Report, ENB-3.
- 17. New York State Atlas of Community Water System Sources, 1982. New York State Department of Health.
- 18. Bureau of the Census, 1980.Census of Population and Housing, Buffalo, New York, U.S. Department of Commerce. July, 1983.
- 19. Letter of Documentation to Lawrence Clare, NYSDEC Region 9 from Thomas P. Connare, Recra Environmental, Inc. June 19, 1986.

-		
_		
-		
-		
-		
-	·	
_		
-	REFERENCE 1	
-		
-		
-		
-		
-		
• ·		
-		
-		
_		



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





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		cific capacity ² T (gal/min)/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		

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.

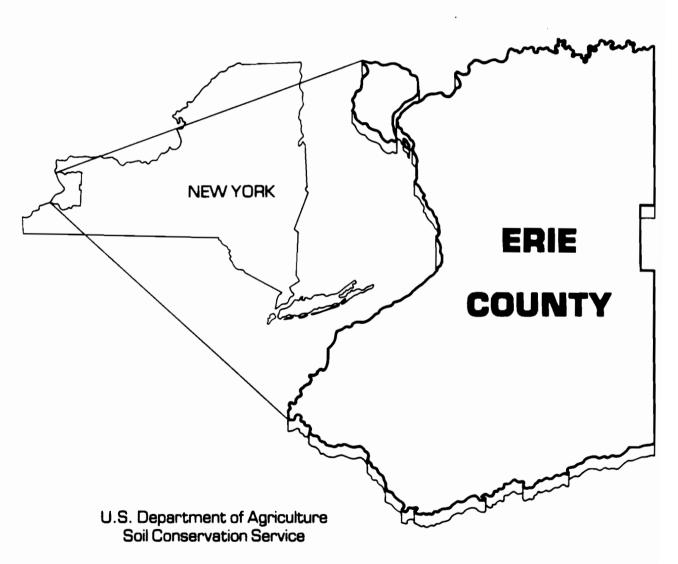
The hydrologic properties of the unconsolidated aquifer within the Buffalo area are also described in consultants' reports for Buffalo Color Corporation (sites 120-122), Bethlehem Steel Corporation (site 118), and the Alltift Landfill (site 162).

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 x 10^{-4} to 1.8 x 10^{-4} ft/d.

² Data from LaSala (1968)

-	
-	
-	
_	
_	
·	
-	REFERENCE 2
-	·
_	
_ _	
-	
-	
-	
• · · · · · · · · · · · · · · · · · · ·	
-	

GENERAL SOIL MAP and INTERPRETATIONS



in cooperation with

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

Conservation Didn of 21 S. Grove Strust East Aurora, N. Y. 1 322

39. URBAN LAND-CHURCHVILLE, NEARLY LEVEL

Nonsoil areas, and deep, somewhat poorly drained, clayey soils, on low land plains

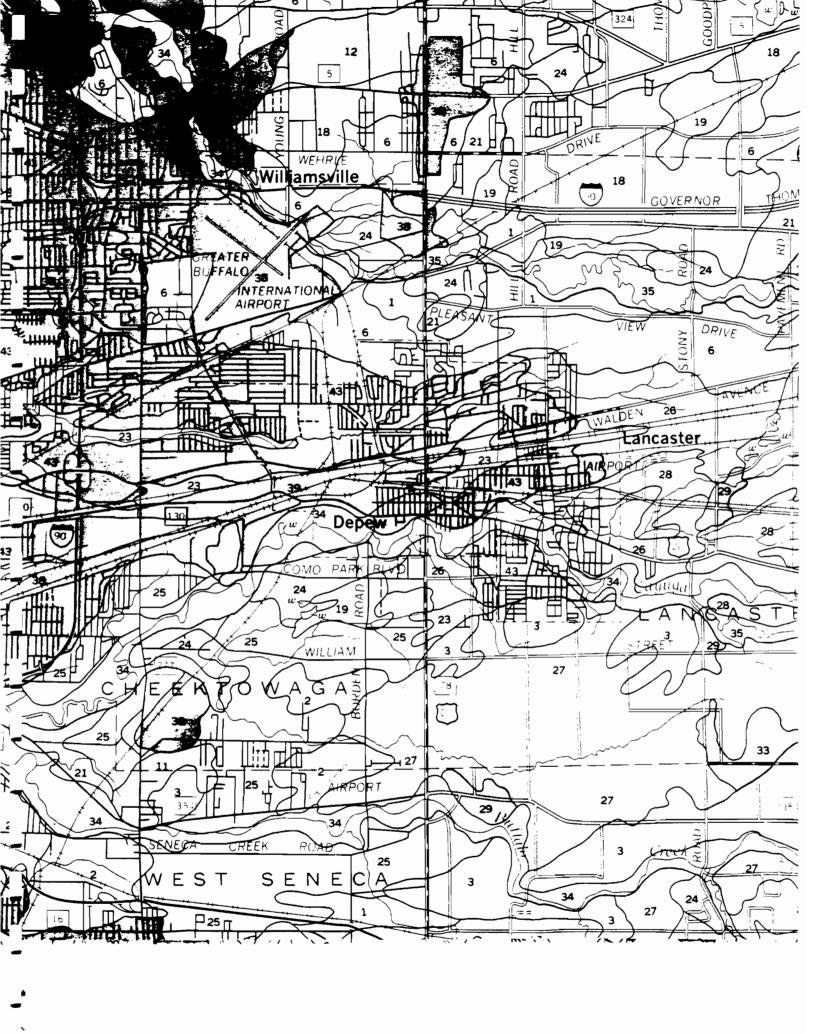
This general soil unit is in nearly level or gently sloping areas that are partially covered by residential, commercial, or industrial developments. The undisturbed soil areas are dominated by clayey sediments that overlie glacial till deposits. Slope ranges from 0 to 8 percent but is dominatly 0 to 3 percent.

This unit covers about 4,600 acres or 0.7 percent of the county. Urban land accounts for 60 percent of the unit, Church-ville soils about 30 percent, and soils of minor extent the remaining 10 percent.

The urban portion of this unit is covered by houses, industrial buildings, streets, sidewalks, playgrounds, and small shopping plazas. In these areas the underlying soil layers have been disturbed or removed. Churchville soils formed in clayey, lakelaid sediments that mantle loamy glacial till deposits at depths of 20 to 40 inches. The Churchville soils are somewhat poorly drained, and have a seasonal high water table perched in the upper part of the subsoil for brief periods during the spring, and other excessively wet periods. Rate of water movement (permeability) through these soils is slow or very slow.

Soils of minor extent are those of the Ovid and Lakemont series. Ovid soils are similar to Churchville soils, but occur in areas where glacial action has mixed the clayey sediments with the underlying glacial till creating a more loamy soil. Poorly drained and very poorly drained Lakemont soils occur in depressions and along drainageways within this unit.

Most of this unit is in residential housing. A few areas are in small commercial or industrial developments. The undisturbed soil areas are mostly in lawns, gardens, and undeveloped lots. Seasonal wetness and stickiness of the clayey texture are the main features to consider for further development on these soils. Storm drains are often essential to remove the excess water that does not infiltrate into the soils readily.



	(25°	Manlius-Rock outcrop, very steep
1	17	Orpark, gently sloping
1	8	Wassaic, nearly level
		DEEP SOILS FORMED IN GLACIO-LACUSTRINE DEPOSITS
1	9	Canandaigua, level
2	20	Collamer, gently sloping
	21	Galen-Elnora, gently sloping
2	22	Hudson, steep
2	23	Lakemont-Canadice, level
2	24	Minoa-Cosad, nearly level
2	25	Niagara, nearly level
2	26	Odessa, nearly level
2	27	Rhinebeck, nearly level
2	28	Schoharie, nearly level
		DEEP SOILS FORMED IN GLACIO-FLUVIAL DEPOSITS
2	9	Alton-Palmyra-Phelps, gently sloping
3	30	Blasdell-Farnham, gently sloping
3	31	Chenango-Castile, gently sloping
3	32	Chenango-Varysburg-Blasdell, moderately steep
[3	33	Red Hook, nearly level
		DEEP SOILS FORMED IN RECENT ALLUVIAL DEPOSITS
3	34	Teel-Middlebury, nearly level
3	35	Wayland, level
3	36	Vayland-Farnham, nearly level
		DEEP SOILS FORMED IN ORGANIC DEPOSITS
	37	Palms, level
L		MIXED URBAN LAND AND SOIL AREAS
[3	38	Urban land
	39.	Urban land-Churchville, nearly level
_	40-4	Urban land-Collamer, gently sloping
<u> </u>	41	Urban land-Lima, gently sloping
	42	Urban land-Niagara, nearly level
<u> </u>	42	Urban land-Odessa, nearly level
	44	Urban land-Schoharie, nearly level
=	45	Urban land-Schonarie, nearly level Urban land-Wassaic, nearly level
1	··	
		Compiled 1979
		2 11 _
		25
		24
		The instantiant of the second

40'

45

1.000 000 FEET

-		
-		
-		
-		
-		
-		
-		
-	REFERENCE 3	
-		
→		
-		
-		
-		
-		
-		
-		
-		
-		
_		

DRAFT

UNCONTROLLED HAZARDOUS WASTE
SITE RANKING SYSTEM A USERS MANUAL

DRAFT

10 June 1982 (errata included)

TABLE 2

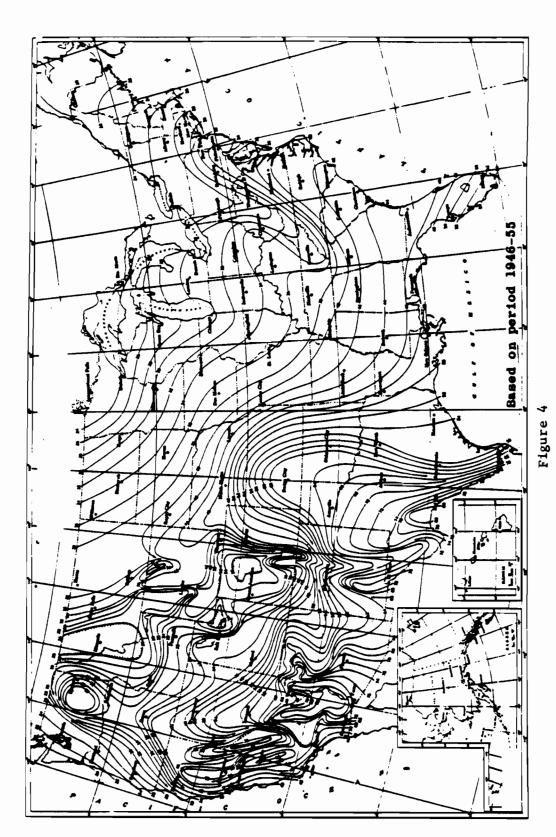
PERMEABILITY OF GEOLOGIC MATERIALS*

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 ≥ 10 ⁻⁷ cm/sec	1 '
Fine sand and silty sand; sandy loams; loamy sands; moderately permeable limestone, dolomitas, and sandstone (no karst); moderately fractured igneous and metamorphic rocks, some coarse till	<10 ⁻³ ≥ 10 ⁻⁵ 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



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:

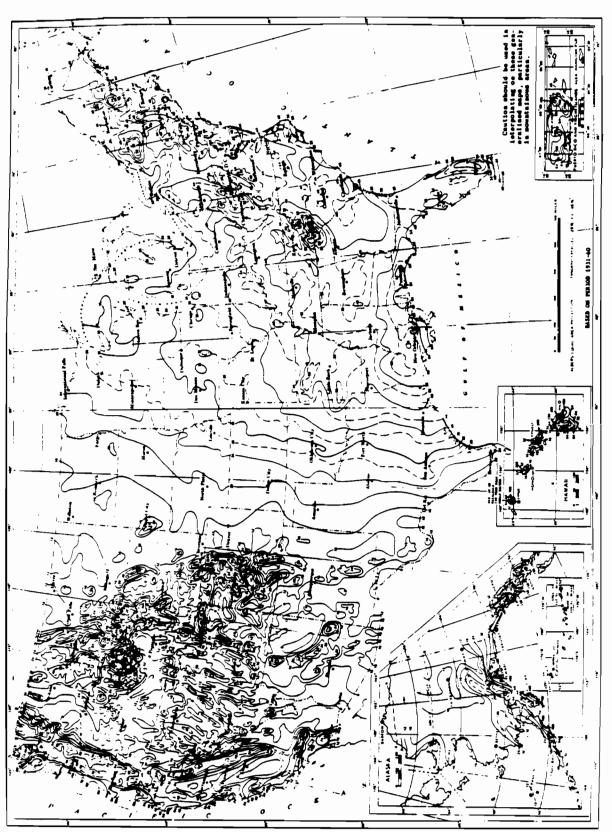


Figure 5

Normal Annual Total Precipitation (inches)

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

TABLE 4

WASTE CHARACTERISTICS VALUES FOR SOME COMMON CHEMICALS

	<u> </u>	<u> </u>	/ \$	/ 3
CREMICAL/COMPOUND				
Acetaldehyde	3	0	3	2
Acetic Acid	3	0	2	1
Acetone	2	0	3	0
Aldria	3	3	1	0
Assonia, Anhydrous	3	0	1	0
Aniline	3	1	2	0
Benzene	3	1	3	0
Carbon Tetrachloride	3	3	0	0
Chlordane	3	3	04	0*
Chlorobensene	2	2	3	0
Calorefora	3	3	0	0
Creso1-0	3	1	2	0
Cresol-H&P	3	1	1	0
Cyclohezzne	2	2	3	0
Endria	3	3	1	.0
Ethyl Benzene	2	1	3	Ō
Tornaldehyda	3	0	2	0
Formis Acid	3	0	2	0
Bydrochlorie Acid	3	0	0	0
Isopropyl Ether	3	1	3	1
Lindane	3	3	1	0
Nethene	1	1	3	0
Hethyl Ethyl Ketone	2	0	3	0
Methyl Parathion in Xylene Solution	3	6 4	3	2
Maphthelene	2	1	2	0
Mitrie Acid	3	0	0	0
Parathion	3	04	1 0≜	2 0 ^Δ
PCS .	3	3	-	l
Petroleum, Kerosene (Puel Oil No. 1)	3	1	2	0
Phonol	3	1	2	0
Sulfuria Acid	3	٥	٥	2
Toluene	2	1	3	0
Trichlorobenzone	2	3	ı	0
ex-Trichlorostheme	2	2	ı	٥
Xylene	2	ı	3	0

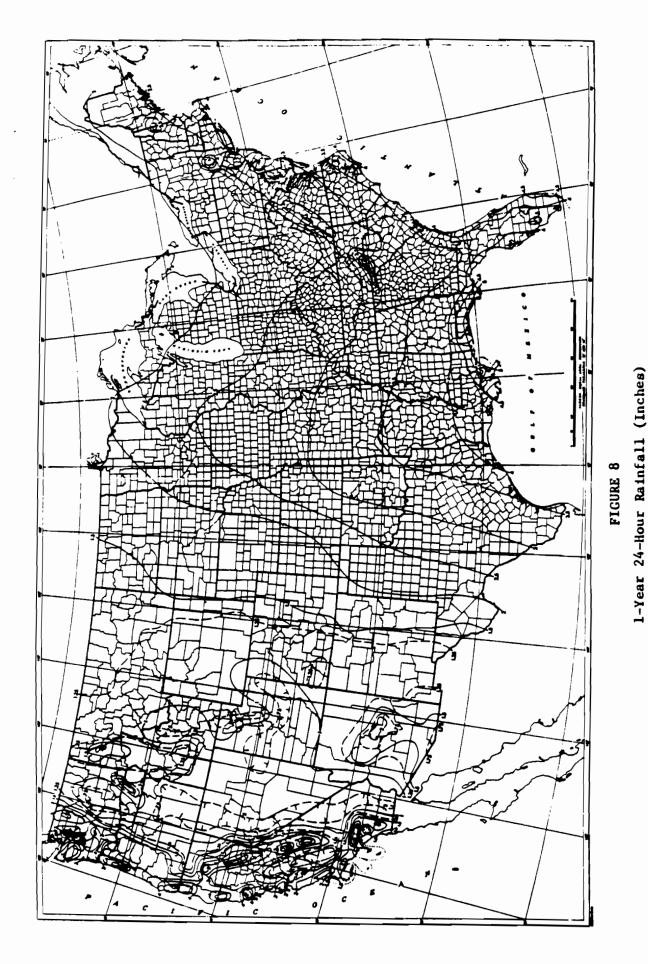
¹Sax, W. I., <u>Dangerous Properties of Industrial Materials</u>, Van Hostrand Eheinhold Co., New York, 4th ed., 1975. The highest rating listed under each chemical is used.

²JRS Associates, Inc., Methodology for Rating the Maxard <u>Potential of Wasta Disposal Sites</u>, May 5, 1980.

Metional Fire Protection Association, Mational Fire Codes, Vol. 13, No. 49, 1977.

Professional judgment based on information contained in the U.S. Coast Guard CHRIS Hazardous Chemical Data, 1978.

A Professional judgment based on emisting literature.



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:

_	
-	
-	
-	
-	
-	
-	
_	REFERENCE 4
-	
-	
-	
-	
-	
-	
_	
·	
-	
-	
-	
_	

DRESSER INDUSTRIES

2 MAIN STREET

DEPEW, NEW YORK

STTE #915064

PREPARED BY:

Erie County Department of Environment and Planning

December 1984

DISCLAIMER

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

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

DRESSER INDUSTRIES

BACKGROUND

The Dresser Transportation Division, at 2 Main Street,
Depew, manufactures car couplers and steel castings for the railroad industry. The company originally called the Gould Coupler
Corporation was in business prior to 1940. At peak employment during the early 1950's, the company employed more than 2000 people.

As the railroad industry declined so did employment at Dresser, so that in 1980 employment had dropped to about 1200. In 1981, a drastic cutback reduced employment to about 200. The current labor force is down to 75 people. The company has stopped production and is now finishing up castings to complete remaining orders. A complete shutdown will occur early in 1985.

Waste material sent to the landfill consisted mainly of used foundry sand, bentonite clay, and a small amount of steel fines and iron oxides. The company also uses a sand reclaimer in the plant. The water used to wash the sand runs into a series of lagoons and then to a storm sewer on Transit Road. These lagoons are dredged periodically. The sand fines and bentonite clay removed are dried and also landfilled.

LOCATION

The site is located on the west side of Transit Road directly across the street from the plant. Village of Depew tax records show the parcel owned by the company to be 697 feet of frontage on Transit Road with a depth of 933 feet (approximately 15 acres). The area is bounded on the north and south by Conrail tracks and on the west by an open parcel of land owned by Conrail.

AERTAL PHOTOGRAPHY

A 1951 photo shows a disturbed area along the north Conrail tracks beyond the current Dresser property line. A 1968 photo shows the entire area to a point about 1800 feet west of transit road had been used for landfill. The photos do not show any evidence of any barrels being buried at this site.

SITE SURVEY

Site inspections were conducted on December 4, 1984 and December 10, 1984. The entire area including a section beyond the current Dresser property line has been filled in. It is overgrown with grass, weeds and fair sized trees. There were a few small ponds

observed that were overgrown with cattails. The top cover appears to be mainly dark gray to black foundry sand. There were three 55-gallon drums and two other small drums scattered throughout the landfill. All drums were empty and completely rusted. The large drums had the tops cut out. The rusted remains of a baghouse was also in evidence.

The landfill area is quite level with a gentle slope toward the west to Conrail property. There are no streams or major drainage ditches leading away from the site. The access road is sharply sloped toward the Transit Road gate so that most runoff would flow toward the storm sewer on Transit.

Company correspondence and records and information from company personnel indicate that use of site ceased sometime in 1976.

After 1976, material was hauled to Lancaster Reclamation landfill

ENVIRONMENTAL DATA

Soil

Silty and clayey, with 18-35% clay. Permeability is very slow.

Bedrock

Fissile shale at a depth of greater than 10 feet.

Water

The natural water table is perched 0.5 ft. to 2 ft. below the surface.

There is a minimal potential of overland flow of surface water to nearby drainage ways. Flooding potential is slight.

Potential for pollution of regional internal water table is minimal. There are no known water supply wells near the site area.

Land Use

The areas immediately adjoining the site to the north and south are zoned industrial and commercial. The area to the west is undeveloped Conrail property. The possibility of the landfill having any adverse effects on the nearest residential area is minimal.

SAMPLING

There are no records of soil sampling at this site, however, the company provided the New York State DEC with analysis of effluent from the settling lagoons until mid 1984. The effluent subsequently discharged into the Transit Road storm sewer.

Typical analysis of weekly composite samples as required by under DEC permit reported in PPM were as follows:

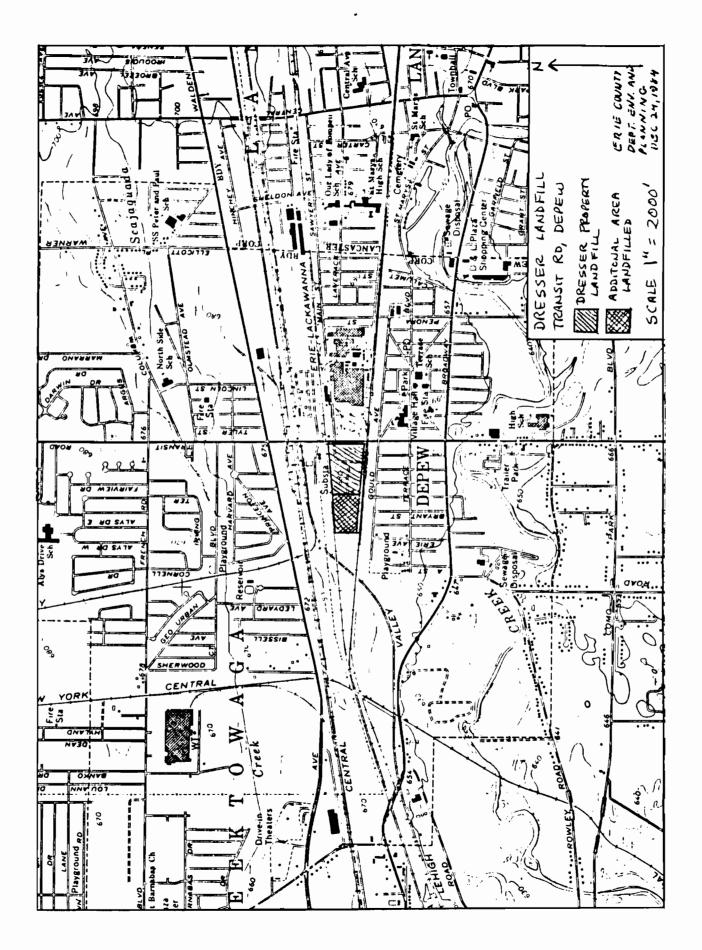
Oil & Grease	0.49
Total Suspended Solids	2.0
Total Cyanide	0.02
Pheno!s	0.048
Total Iron	0.162
Cadmium	0.001
Chromium	0.066
Lead	0.025
Mercury	0.004

DIRECT CONTACT

A locked gate across the access road off of Transit Road prevents any vehicle traffic to the site. There are no fences around the property thus allowing easy access to foot traffic.

CONCLUSIONS

There is no evidence that any toxic or hazardous materials were buried at this site. The nature of the landfill material should pose no current or future problems for the area.



-		
-		
•		
_		
-		
-	·	
- ′	REFERENCE 5	
•		
_		
-		
-		
-		
•		
-		

Hazardous Waste And Toxic Substance Control

December 20, 1985

Mr. Robert Pitman Water Commissioner Municipal Building 85 Manitai St. Depew, NY 14043

Dear Mr. Pitman:

Thank you for your assistance in the Phase I Superfund investigation we are conducting presently.

As part of the background search requirements for the NYSDEC Superfund investigations, we the consultants are required to have all of our interviews, personal or by telephone, documented. Below is an account of our conversation on December 19, 1985. Would you please read the account, sign at the bottom, and return the original to me. This is only to serve as documentation that the conversation took place.

- ° There are no wells in use in the Village of Depew.
- ° The water supply for the village is divided between the Erie County Water Authority 70% and the Village of Depew 30%.
- ° The village buys water from the authority and resells this to the village.

Thank you for your cooperation.

Sincerely,

RECRA RESEARCH, INC.

Sheldon S. Nozik

Environmental Specialist

Shelde J. Nozile

SSN/jlo

cc: T. Connare

K. Studley

Mr. Robert Pitman

-	
•	
-	
•	
•	
-	
•	REFERENCE 6
-	
-	
-	
-	
-	
•	
-	
-	

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

CLASSIFICATION CODE: 2a REGION: 9 SITE CODE: 915064

NAME OF SITE : Dresser Industries

STREET ADDRESS: Transit Road

TOWN/CITY: COUNTY: ZIP:

Repew Erie 14207

SITE TYPE: Open Dump-X Structure- Lagoon- Landfill- Treatment Pond-

ESTIMATED SIZE: 16 Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME....: Dresser Industries

CURRENT OWNER ADDRESS.: 2 Main St., Depew, NY 14207

OWNER(S) DURING USE...: Dresser Industries

OPERATOR DURING USE...: Same

OPERATOR ADDRESS.....: Same as above

FERIOD ASSOCIATED WITH HAZARDOUS WASTE: From Unknown To Present

SITE DESCRIPTION:

Foundry sand used to fill over 10 acres. The site is currently used as foundry sand storage prior to removal for disposal elsewhere. Filled areas are grassed. Soil and water samples were taken from the site in 1981.

HAZARDOUS WASTE DISPOSED: Confirmed-X Suspected -

Foundry sand, some with phenolics 47,682 cu. yards

Slag
Bentonite clay sludge
3730 cu. yards
35,824 cu. yards

Lube oil Unknown

SITE CODE: 915064

ANALYTICAL DATA AVAILABLE:

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

CONTRAVENTION OF STANDARDS:

Groundwater- Iminking Water- Surface Water- Air-

LEGAL ACTION:

TYPE . .: None State- Federal-

STATUS: In Progress- Completed-

REMEDIAL ACTION:

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

GEOTECHNICAL INFORMATION:

SOIL TYPE: Not known GROUNDWATER DEPTH: Not known

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

No evidence of any environmental problem as water samples did not indicate presence of phenotics. Soit samples, however, contained phenolics in low levels.

ASSESSMENT OF HEALTH PROBLEMS:

Insufficient information,

FERSON(S) COMPLETING THIS FORM:

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

NAME.: Abul Barkat NAME .: R. Tramontano

TITLE: Sr. Sanitary Engr. TITLE: Bur. Tox. Subst. Assess.

NAME:: Peter Buechi NAME .:

TITLE: Assoc. Sanitary Engr. TITLE

DATE+: 01/24/85 DATE:: 01/24/85

-	
-	
-	
-	
-	
-	
-	REFERENCE 7
_	
_	
-	
-	
-	
-	
-	
•	
-	
-	

Cfs

INTERAGENCY TASK FORCE ON HAZARDOUS WASTES

DRAFT REPORT

ON

HAZARDOUS WASTE DISPOSAL

IN

ERIE AND NIAGARA COUNTIES, NEW YORK

ERRATA

- 1. The Village of Depew, Ed Ball, Eden Sanitation and Empire Waste sites on page II-38 of the Draft Report should all be in the Priority III category.
- 2. The two Shanco Plastics disposal sites identified on pages II-15 and II-16 of the Draft Report are located at 2716 Kenmore Avenue, Tonawanda, and not at 111 Wales Avenue, Tonawanda.
- 3. Hooker's V-80 Area site identified on page II-29 of the Draft Report should be in the Priority I category.

March 1979

"Donner-Hanna employs no waste haulers or disposer other than Downing Container Service, which provides and exchanges containers for garbage such as paper, wood, etc. which was previously burned. Products which Donner-Hanna make that might be candidates for waste disposal operations are now and have been recycled with raw material coal, so as to be reconstituted as saleable products. The sludge from our waste water pathway is principally insoluable calcium carbonate. It is not hazardous and has not warranted analysis.

"Once each year, we have dug calcium carbonate and earthen sediment from our waste water pathway to the Buffalo River and deployed it on the surface (of filled property which we use for coke storage) as is appropriate for non-hazardous material not requiring burial."

Erie County records indicate that ammonia still waste containing phenol was at one time discharged to the "black" water stratum some 145 feet below ground level at the Donner-Hanna facility until, after four years of use, the wells plugged and the project was abandoned. This discharge took place before 1953.

DRESSER INDUSTRIES, INC.

Dresser Transportation Equipment Division
Two Main Street
Depew

Dresser Industries began operations in Erie County in 1892. The company has been known since 1930 under the names Gould Coupler Company, Symington-Gould Corporation, Symington-Wayne Corporation and, since 1968, as the Dresser Transportation Equipment Division of Dresser Industries of Dallas, Texas.

The company produces steel castings by the foundry process. It generates spent bentonite clay (since 1938), Manley sand (since 1938), slag (since 1930), lubricating oil and small amounts of brick and phenolic binders (ammonia and cyanide) as waste products.

In 1976, the company estimated that it was generating 8800 tons per year of the wastes identified above. Since 1976, 15,000 cubic yards of such wastes have been generated each year.

From 1961 to 1976, all wastes were disposed of at Stocks Pond at the southeast corner of Broadway and Transit Road in Depew. Since 1976, all such wastes have been disposed of at the Lancaster Reclamation site by the Ferry Construction Company. Wastes are also dumped at a staging area on Dresser's own property west of Transit Road.

presser Industries, Ire

Before 1961, sand and clay wastes were hauled by Rayburn Smith, Inc. to an unknown site.

From 1942 until after World War II, the company operated an Army owned facility in Depew for the production of steel armor castings for tanks. The wastes generated at this facility, silica and bentonite clay casting cores and scrap metals from chipping and grinding operations, were probably hauled by Rayburn Smith.

DUNLOP TIRE AND RUBBER CORPORATION Sheridan and River Roads Tonawanda

Dunlop Tire and Rubber Corporation began operations in Buffalo in 1920. Dunlop has manufactured a wide variety of products including foam rubber (1942 to 1960), duthane (1959 to 1968), urethane foam (1959 to 1960), nylon (1962 to 1963), tire tubes (1938 to 1960), tennis balls, tennis rackets and golf balls (1940 to 1960), tires (since 1923), balata (since 1940), and blimps (1942 to 1945) using milling, mixing, extruding, calendering, tire building, curing and finishing processes.

Waste products generated include carbon black and powders, scrap wood, fly ash, scrap tires, wire tire beads, golf balls, scrap rubber, latex rubber, foam rubber, sulphur, plastics, oils, grease, oily sludge and tank residue, general refuse, chemical wastes (amines and nitrogen-containing compounds) and waste organic solvents (toluene and xylene).

All of these wastes have been disposed of at three sites on plant premises since 1921. In addition, (a) some solvents and degreasers (110 gallons/yr.) have been hauled by Downing Container and Elmwood Tank Cleaning to unknown sites, (b) carbon black, scrap wood, general refuse, oily sludge and tank residues were disposed of at Seaway Industrial Park in Tonawanda in 1976 and (c) some wastes have been hauled since 1930 by at least 20 haulers identified by the company.

The company does not know how much wastes it has generated. However, in 1976 the company indicated that it was generating the following amounts of wastes per year:

Waste oil and sludge	32,000	gallons
Oil skimmings		gallons
Solvent	13,750	gallons
Tank residue	2,750	gallons
Carbon black dust	40	tons
Scrap tires	660	tons

-	
-	
-	
-	
-	
-	
•	
-	REFERENCE 8
•	
•	
_	
-	
-	
-	
-	
-	
-	
-	

RECEIVED New York State Department of Environmental Conservation 600 Delaware Avenue, Buffalo, NY 14202-1073 716/847-45\$0 DEC 1 9 1985 tenn G. Williams Commissioner RECRA RESEARCH, INC. 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

ndn Barcheller

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 Pennwalt-Lucidal Mollenberg-Betz Co. 4. Empire Waste Bisonite Paint Co.
- 6. Stocks Pond 7. Aluminum Matchplate
- Otis Elevator (Stimm Assoc.)
- 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. 01d 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,

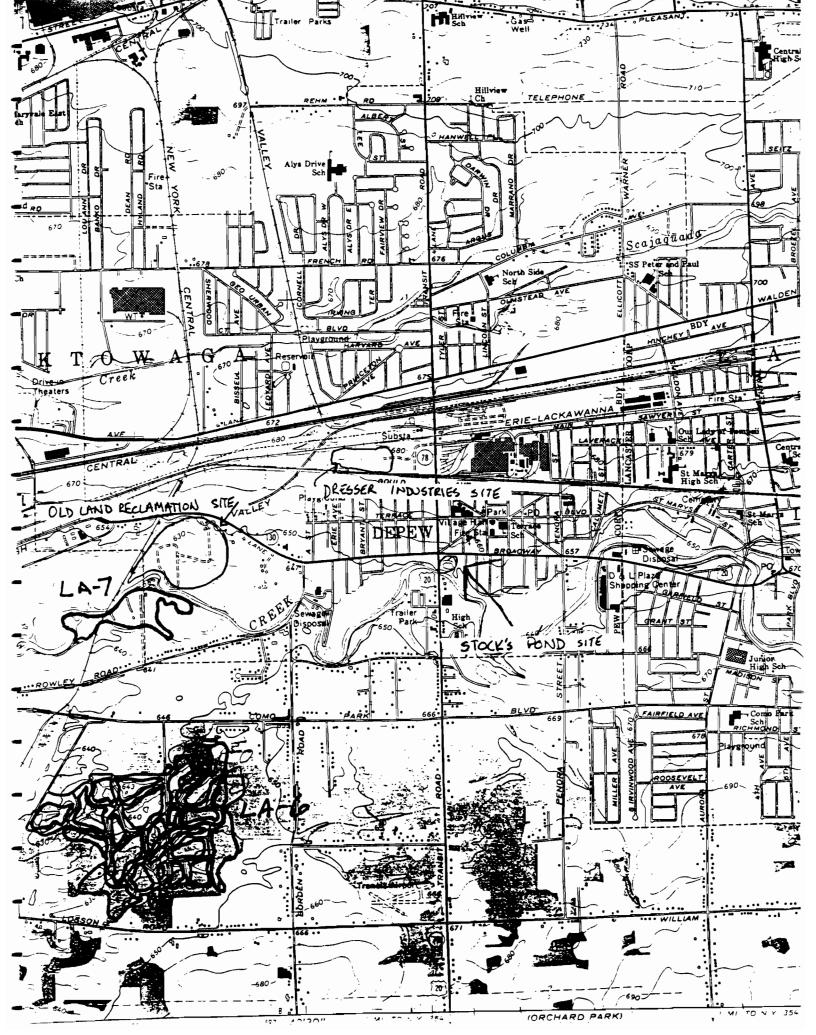
RECRA RESEARCH, INC.

Sheldon S. Nozik

Environmental Specialist

SSN/jlo Enclosure





- REFERENCE 9 - REFERENCE 9 - REFERENCE 9		
- REFERENCE 9	-	
- REFERENCE 9	-	
- REFERENCE 9		
- REFERENCE 9		
- REFERENCE 9	-	
- REFERENCE 9	_	
- REFERENCE 9	-	
- REFERENCE 9	-	
	_	
	_	
	-	REFERENCE 9
	_	
	-	
	-	
	-	
	-	
	-	
	-	
- -		
	-	
	_	
	_	
	-	

March 12, 1984

Mr. Brnest J. Norman Gibraltar Steel 2545 Walden Avenue Buffalo, New York 14225

Dear Mr. Norman:

In response to our discussion on Friday, March 9, 1984 regarding disposal sites utilized by Dresser Industries, I have enclosed analytical data from a sampling program undertaken by this office at the following sites:

- Dresser Industries, west of Transit Road, Site #915064
- Stocks Pond, southeast corner of Broadway and Transit Road intersection, Site #915082.

A soil sample and a surface water sample were collected and analyzed from the Dresser Industries site, while soil and leachate samples were collected and analyzed from the Stocks Pond site.

Feel free to contact this office at 847-4590 should you have any questions on the enclosed material.

Yours truly,

Peter J. Buechi, P.E.

Associate Sanitary Engineer

PJB:cag Enc.

cc: Ahmad Tayyebi

ANALYTICAL RESULTS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Report Date: 1/28/82 Date Received: 12/9/81

WATER ANALYSES

		PARAMETER (UNITS OF MEASURE)
SAMPLE IDENTIFICATION	SAMPLE DATE	TOTAL RECOVERABLE PHENOLICS (mg/1)
R-013-03	12/9/81	<0.01
R-014-03	12/9/81	0.020
R-014-07	12/9/81	<0.01

COMMENTS: Values reported as "less than" (<) indicate the working detection limit for the particular sample or parameter.

FOR RECRA RESEARCH, INC. UL. V. 7 mm

DATE

1/29182

ANALYTICAL RESULTS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Report Date: 1/28/82 Date Received: 12/9/81

SOIL ANALYSES

			<u></u>	
			PARAMETER (UNITS OF MEASURE)	
	SAMPLE IDENTIFICATION	SAMPLE DATE	TOTAL RECOVERABLE PHENOLICS (µg/g DRY)	DRY WEIGHT
>	R-013-02	12/9/81	9.3	14
- [R-014-01	12/9/81	9.0	50
	R-014-05	12/9/81	8.4	57

COMMENTS: Analyses were performed according to U.S. Environmental Protection Agency methodologies where applicable.

FOR RECRA RESEARCH, INC.

DATE

129/82

-	
-	
-	
_	
_ _	
• ·	
-	REFERENCE 10
-	
-	
_	
_	
-	
-	
-	
-	
-	

3179 Walden Avenue

Depew, New York 14043

Phone: 684-1703

May 10, 1979

Peter J. Millock, Director Interagency Task Force on Hazardous Wastes 50 Wolf Road Albany, New York 12233 518-457-6695

Dear Sir,

I am writing this letter in reference to your agency's Draft Report on Hazardous Waste Disposal in Erie and Niagara Counties, dated March 1979.

As removal Contractor for Dresser Industries, Inc. Depew, New York, since 1961, we were involved with two of the sites listed in your report and are currently involved with a third site (Lancaster Reclamation). I will address these sites individually in the following order:

- Lancaster Reclamation Company 403 Pavement Road Lancaster, New York
- 2.) Stock's Pond
 Broadway and Transit
 Depew. New York
- Dresser Industries, Inc. West End Transit Road Depew, New York

1.) LANCASTER RECLAMATION:

As discussed in our telephone conversation of 4/18/79, we are questioning the priority rating of this site. The report contains some misinformation regarding industries using this site; specifically Allied Chemical Dye Plant and Buffalo Color.

I am confirming the fact that no wastes from either of these industries have been disposed here.

We have accepted wastes from the following companies:

- 1.) Dresser Industries, Inc.
- 2.) Chevrolet
- 3.) Fabritron
- 4.) Pohlman Foundry

3179 Walden Avenue . . :-: . . Depew, New York 14043

Phone: 684-1703

1.) LANCASTER RECLAMATION (con't)

Waste stream reports have been filed with the N.Y.S.D.E.C. office in Buffalo regarding all waste disposed of here with the exception of foundry sand from Pohlman Foundry. This material was accepted on a temporary basis with approval from John Beecher of the Buffalo Office.

As per your request, I am hereby listing the information regarding quantities of materal disposed of at this site from the different industries serviced.

Dresser Industries, Inc.	1977 1978 as of 5/1 1979 6-1-79 Core Sand - 1976 1977	
	as of 5/1 1979	165 cu yds
Chevrolet	Sludge - 1976 1977 1978 1979	-0- -0- 1,736,000 gals -0-
Fabritron	Sludge - 1976 1977 1978 1979	-0- -0- -0- 6,800 gals
Pohlman Foundry	Sand - 1979	15 cu yds

#2) STOCK'S POND

Concerning the report on this location, we would like to clarify the description of wastes which were disposed of here. First of all, we did no disposing of lubricating oil at this location. Secondly, phenolic binders were not disposed of at this site. However, sand which had been mixed with phenolic binders in the core making process was used for fill in this area. It is my understanding that the phenols, due to high temperature baking and exposure of this sand to molten metal, are generally dissipated. Therefore, the amounts of phenolic binders present in this location would be infinitesimal. Sand, Slag & Bentonite clay sludge were disposed at this location.

3179 Walden Avenue

. . Depew, New York 14043

Phone: 684-1703

2.) STOCK'S POND (con't)

I am including time periods and quantities of materials as you requested. The following are wastes from Dresser Industries.

	Sand	Slag	Sludge
1967	5,545 cu yds	-0	3,994 cu yds
1968	892 cu yds	17 cu yds	2,198 cu yds
1969	3,499 cu yds	2,465 cu yds	4,935 cu yds
1970	2,759 cu yds	1,894 cu yds	1,699 cu yds
1971	1,358 cu yds	890 cu yds	1,165 cu yds
1972	1,138 cu yds	558 cu yds	1,205 cu yds
1973	, 2,494 cu yds	80 cu yds	3,420 cu yds
1974	3,690 cu yds	966 cu yds	4,335 cu yds
1975	2,625 cu yds	8 cu yds	6,780 cu yds
1976	4,899 cu yds	225 cu yds	4,680 cu yds
1977	1,208 cu yds	210 cu yds	-0-
1978	-O -	-0-	-0-

We have not done any disposing at this site since 1977.

3.) DRESSER INDUSTRIES, INC. WEST END PROPERTY

This area was used for disposing of Dresser Industries waste material as described in site #2. Time periods and amounts disposed there are as follows.

	Sand	Slag	Sludge
1961	-0-	-0-	3,008 cu yds
1962	4,219 cu yds	-0-	1,724 cu yds
1963	1,479 cu yds	476 cu yds	1,561 cu yds

3179 Walden Avenue . . :-: . Depew, New York 14043

Phone: 684-1703

3.) DRESSER INDUSTRIES, INC. WEST END PROPERTY (con't)

	Sand	Slag	Sludge
1964	283 cu yds	140 cu yds	5,467 cu yda
1965	606 cu yds	699 cu ýds	6,137 cu yds
1966	2,207 cu yds	-0-	4,737 cu yds
1967	3,479 cu yds	152 cu yds	2,811 cu yds
1968	9,760 cu yds	169 cu yds	-Ö-
1969	5,891 cu yds	318 cu yds	-0-
1970	-0-	-0-	-0-
1971	1,812 cu yds	-0-	1,707 cu yds
1972	6,752 cu yds	-0-	1,823 cu yds
1973	-0-	-0-	-0-
1974	4,060 cu yds	1,460 cu yds	-0-
1975	2,279 cu yds	261 cu yds	2,154 cu yds
1976	-0-	15 cu yds	4,695 cu yds
1977	3,430 cu yds	40 cu yds	-0-
1978	825 cu yds	-0-	-0-
1979 (as of	600 cu yds 5/1)	-0-	-0-

We hope that this information will be beneficial to your endeavor and instrumental in acquiring priority III ratings for these sites.

If we can be of any further help, feel free to contact this office at (716) 684-1703.

Sincerely,

John Ferry

-	
_	
• ·	
•	
-	
-	
-	·
-	
-	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 12231

ARTICLE 8

Lake Erie - Niagara River Drainage Basin Series

PART

- 835 Big Sister Creek Drainage Basin
- 836 Silver Creek Drainage Basin
- 837 Lake Erie (East End)—Niagara River Drainage Basin
- 838 Cattaraugus Creek Drainage Basin
- 839 Lake Eric (West End) and Tributary Drainage Basins

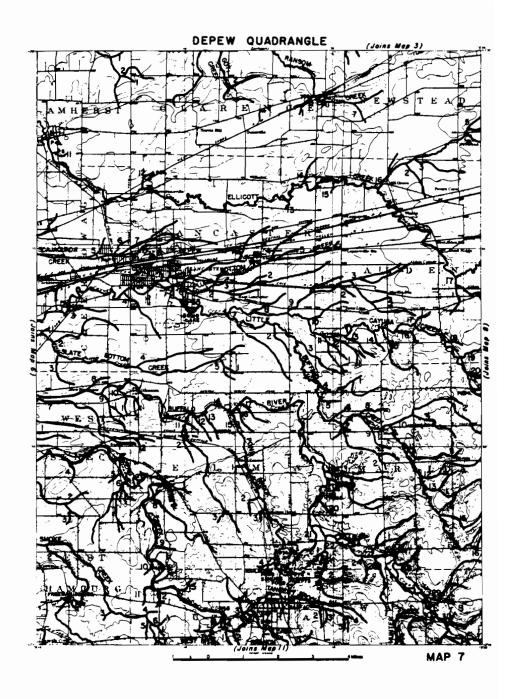
TABLE I (contd.)

Item No.	Waters Index Number	Name	Description	Map Ref. No.	Class	Standards
171	E-1-4-15-22 and tribs. as shown on reference map	Spencer Brook	Enters West Branch Cazenovia Greek from east approximately 2.5 miles above Colden-Concord town line.	=	æ	es es
172	172 E-1-4-15-23	Graff Brook	Enters West Branch Cazenovia Creek from east approximately 4.0 miles above Colden-Concord town line.	11	æ	æ
173	173 E-1-6 portion as described	Cayuga Creek	Enters Buffalo River from east approximately 1.0 mile east of City of Buffalo-Cheektowaga town line. Mouth to Plumb Bottom Creek, item no. 178.	6,7	υ	U .
174	E-1-6 portion as described including P 65 (Como Lake)	Cayuga Creek	From Plumb Bottom Creek, 1tem no. 178, to source.	7,8,12	æ	m
175	. E-1-6-1	Tributary of Cayuga Creek	Enters Cayuga Creek from west approximately 0.5 mile above mouth.	9	Q	۵
1633	E-1-6-2 and tribs. as shown on reference map	Slate Bottom Greek	Enters Cayuga Creek from east approximately 2.0 miles above mouth.	6,7	۵	۵
CN 10-15-66	E-1-6-3,4 and 5	Tributaries of Gayuga Greek	Enter Cayuga Creek between Slate Bottom Creek, item no. 176, and western boundary of Village of Lancaster.	,	۵	۵

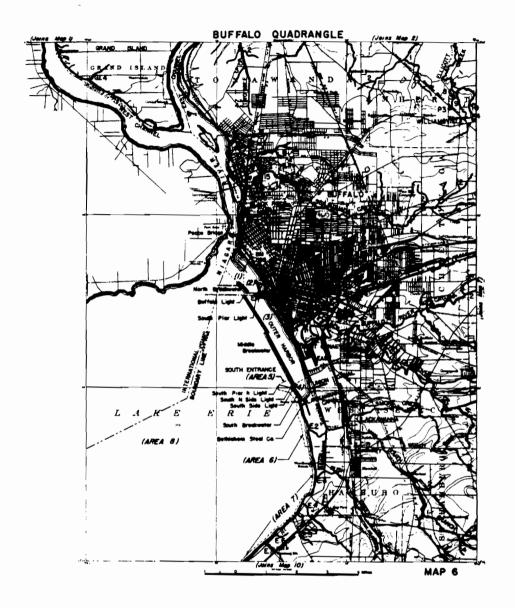
CHAPTER X DIVISION OF WATER RESOURCES

§ **837.4**

		TABL	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.	9	۵	Q
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	æ	æ
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	Ð	۵
120	Big Burnt Ship Creek	Big Burnt Ship Creek	Seperates Grand Island from Buck-horn Island.	7	£	æ
121	G.I. 1	Trib. of Big Burnt Ship Creek	Enters Big Burnt Ship Creek from east opposite eastern end of Buckhorn Island.	2	£	£
122	G.I. 2 and trib. as shown on re- ference map	Gun Creek	Enters Niagara (East Channel) from Grand Island at Edgewater.	2	£	£ C
123	<pre>G.I. 3 and trib. as shown on reference map</pre>	Spicer Creek	Enters Niagara (East Channel) from Grand Island opposite North Tonawanda water intake light.	2	£	æ



1655 CN 10-15-66



1654 CN 10-15-66

-	
-	
-	
-	
•	
-	
-	REFERENCE 12
•	
-	
-	
-	
-	
-	
-	
-	
-	
-	



ENVIRONMENT REPORTER

TAB SECTION CONTENTS - 844-866

The state water laws of New Hampshire, New Jersey, New Mexico, New York, and North Carolina should be filed in this tab section. The page numbers will begin with prefixes from 844 to 866.

	Page
New Hampshire Water Pollution Control Law	846:0101
New Hampshire Oil Pollution Law	846:0141
New Hampshire Oil Spillage Regulations	846:0541
New Hampshire Wastewater Discharge Permit Rules	846:0581
New Hampshire Pretreatment Standards	846:0601
New Hampshire Water Quality Standards	846:1001
New Jersey Department of Environmental Protection Act of 1970	851:0081
New Jersey Water Pollution Control Laws	851:0101
New Jersey Water Quality Planning Act	851:0141
New Jersey Wetlands Act of 1970	851:0201
New Jersey Environmental Rights Act	851:0301
New Jersey Water Pollution Control Regulations	851:0501
New Jersey Point Source Discharge Regulations	851:0581
New Jersey Pollutant Discharge Elimination System Regulations	851:0601
New Jersey Surface Water Quality Standards	851:1001
New Mexico Water Quality Act	856:0101
New Mexico Water Quality Regulations	856:0501
New Mexico Water Quality Standards	856:1001
New York Environmental Conservation Law	861:0101
New York Water Pollution Control Regulations	861:0501
New York Rules on SPDES Program Fees	861:0601
New York Regulations on State Pollutant Discharge Elimination System	861:0841
New York Regulations on Oil Spill Prevention and Control	861:0881
New York Water Classifications and Quality Standards	861:1001
North Carolina Water and Air Resources Acts	866:0101
North Carolina Oil Pollution Control Act of 1973	866:0301
North Carolina Water Pollution Control Regulations	866:0501
North Carolina Water Quality Standards	866:1001

NEW YORK WATER CLASSIFICATIONS AND QUALITY STANDARDS

(Official Codes, Rules, and Regulations of the State of New York, Chapter X—Division of Water Resources, Article 2, Parts 700 through 704; Adopted April 28, 1972; Amended February 21, 1974; September 20, 1974; Part 703 Amended August 2, 1978; Effective September 1, 1978)

CONTENTS

700 Tests or Analytical Determinations

701 Classifications and Standards of Quality and Purity

702 Special Classifications and Standards

703 Ground Water Classifications, Quality Standards and Effluent Standards and/or Limitations

704 Criteria Governing Thermal Discharges

PART 700

TESTS OR ANALYTICAL DETERMINATIONS

Section 700.1 Collection of samples. In making any tests or analytical determinations to determine compliance or noncompliance of sewage, industrial wastes or other waste discharges with established standards, samples shall be collected in such manner and at such locations as are approved by the commissioner. In approving such locations the commissioner shall be guided by the fact that (a) there must be prompt mixing of the discharge with the receiving waters; (b) that the mixing will not interfere with biological communities to a degree which is damaging to the ecosystem; (c) that the mixing will not diminish other beneficial uses disproportionately.

700.2 Tests or analytical determinations. Tests or analytical determinations to determine compliance or noncompliance with standards shall be made in accordance with the latest edition of (a) Standard Methods for the Examination of Water and Wastewater prepared by American Public Health Association (APHA), American Water Works Association (AWWA) and Water Pollution Control Federation (WPCF); (b) Methods for Chemical Analysis of Water and Wastes prepared by Environmental Protection Agency (EPA); (c) Water Standards of the American Society for Testing and Materials (ASTM); or (d) by other methods approved by the commissioner and the administrator as giving results equal to or superior to methods listed in any of the other documents.

PART 701

CLASSIFICATIONS AND STANDARDS OF QUALITY AND PURITY

(April 28, 1972; Amended February 21, 1974; September 20, 1974)

Section 701.1 Definitions. The terms, words or phrases used in Parts 700, 701, 702 and 704 shall have the following meaning:

- (a) Commissioner shall mean the Commissioner of the Department of Environmental Conservation.
- (b) Administrator shall mean the Administrator of the United States Environmental Protection Agency.
- (c) Best usage of waters as specified for each glass shall be those uses as determined by the commissioner and the administrator in accordance with the considerations prescribed by the Environmental Conservation Law and Public Law 92-500.
- (d) Approved treatment as applied to water supplies shall mean treatment accepted as satisfactory by the authorities responsible for exercising supervision over the sanitary quality of water supplies.
- (e) Source of water supply for drinking, culinary or food processing purposes shall mean any source, either public or private, the waters from which are used for domestic consumption or used in connection with the processing of milk, beverages or foods. (When water is taken for public drinking, culinary or food processing purposes, refer to New York State Department of Health regulations 10 NYCRR 170.)
- (f) Primary contact recreation shall mean recreational activities where the human body may come in direct contact with raw water to the point of complete body submergence. Such uses include swimming, diving, water skiing, skin diving and surfing.
- (g) Secondary contact recreation shall mean recreational activities where contact with the water is minimal and where ingestion of the water is not probable. Such uses include but are not limited to fishing and boating.
- (h) Saline surface waters shall mean all waters which are so designated by the commissioner.
- (i) International boundary waters shall mean those waters to which the water quality standards developed and adopted pursuant to the Boundary Water Treaty of 1909 and the Great Lakes Quality Agreement of 1972 apply.
- (j) Sewage, industrial waste and other wastes shall have the meanings given in section 17-0105 of the Environmental Conservation Law.
- (k) Estuary shall mean the tidal portion of a river or stream.
- (1) A thermal discharge is one which results or would result in a temperature change of the receiving water.
- (m) Heat of artificial origin shall mean all heat from other than natural sources including but not limited to, cumulative effects of multiple and proximate thermal discharges.

CLASS C

Best usage of waters. Suitable for fishing and all other uses except as a source of water supply for drinking, culinary or food processing purposes and primary contact recreation.

Quality Standards for Class C Waters

Item: 1. Coliform.

Specifications: The monthly geometric mean total coliform value for 100 ml of sample shall not exceed 10,000 and the monthly geometric mean fecal coliform value for 100 ml of sample shall not exceed 2,000 from a minimum of five examinations. This standard shall be met during all periods when disinfection is practiced.

Item: 2. pH.

Specifications: Shall be between 6.5 and 8.5.

Item: 3. Total dissolved solids.

Specifications: None at concentrations which will be detrimental to the growth and propagation of aquatic life. Waters having present levels less than 500 milligrams per liter shall be kept below this limit.

Item: 4. Dissolved oxygen.

Specifications: For cold waters suitable for trout spawning, the DO concentration shall not be less than 7.0 mg/l from other than natural conditions. For trout waters, the minimum daily average shall not be less than 6.0 mg/l. At no time shall the DO concentration be less than 5.0 mg/l. For nontrout waters, the minimum daily average shall not be less than 5.0 mg/l. At no time shall the DO concentration be less than 4.0 mg/l.

Note 1: Refer to note 1 under Class AA which is also applicable to Class C standards.

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: Refer to note I under Class AA which is also applicable to Class D standards.

701.5 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/l 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 sampi shall not exceed 200 from a minimum of five eximinations. This standard shall be met during all periods when disinfection is practiced.

Item: 6. Radioactivity.

a. Gross beta.

Specifications: Shall not exceed 1,000 picocuries per liter in the absence of Sr^{**} and alpha emitters.

b. Radium 226.

Specifications: Shall not exceed three picocuries per liter.

c. Strontium 90.

Specifications: Shall not exceed 10 picocuries per liter. Note 1: With reference to certain toxic substances affecting fish life, the establishment of any single numerical standard for waters of New York State would be too restrictive. There are many waters, which because of poor buffering capacity and composition will require special study to determine safe concentrations of toxic substances. However, most of the nontrout waters near industrial areas in this State will have an alkalinity of 80 milligrams per liter or above. Without considering increased or decreased toxicity from possible combinations, the following may be considered as safe stream concentrations for certain substances to comply with the above standard for this type of water. Waters of lower alkalinity must be specifically considered since the toxic effect of most pollutants will be greatly increased.

Ammonia or ammonium compounds — Not greater than 2.0 milligrams per liter expressed as NH₃ at pH of 8.0 or above.

Cyanide — Not greater than 0.1 milligrams per liter expressed as CN.

Ferro- or ferricyanide — Not greater than 0.4 milligrams per liter expressed as Fe(CN)6.

Copper — Not greater than 0.2 milligrams per liter expressed as Cu.

Zinc — Not greater than 0.3 milligrams per liter expressed as Zn.

Cadmium — Not greater than 0.3 milligrams per liter expressed as Cd.

CLASS A

Best usage of waters. Source of water supply for drinking, culinary or food processing purposes and any other usages.

Conditions related to best usage of waters. The waters, if subjected to approved treatment equal to coagulation, sedimentation, filtration and disinfection, with additional treatment if necessary to reduce naturally present impurities will meet New York State Department of Health drinking water standards and will be considered safe and satisfactory for drinking water purposes.

Quality Standards for Class A Waters

Item: 1. Coliform.

Specifications: The monthly median coliform value for 100 ml of sample shall not exceed 5,000 from a minimum of five examinations and provided that not more than 20 percent of the samples shall exceed a coliform value of 20,000 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 examinations.

Item: 2. pH.

Specifications: Shall be between 6.5 and 8.5.

Item: 3. Total dissolved solids.

Specifications: Shall be kept as low as practicable to maintain the best usage of waters, but in no case shall it exceed 500 milligrams per liter.

Item: 4. Dissolved oxygen.

Specifications: For cold waers suitable for trout spawning, the DO concentration shall not less than 7.0 mg/l from other than natural conditions. For trout waters, the minimum daily average shall not be less than 6.0 mg/l. At no time shall the DO concentration be less than 5.0 mg/l. For nontrout waters, the minimum daily average shall not be less than 5.0 mg/l. At no time shall the DO concentration be less than 4.0 mg/l.

Item: 5. Phenolic compounds.

Specifications: Shall not be greater than 0.005 milligrams per liter (phenol).

Item: 6. Radioactivity.

a. Gross beta.

Specifications: Shall not exceed 1,000 picocuries per liter in the absence of Sr* and alpha emitters.

b. Radium 226.

Specifications: Shall not exceed three picocuries per liter.

c. Strontium 90.

Specifications: Shall not exceed 10 picocuries per liter.

Note 1: Refer to note 1 under Class AA which is also applicable to Class A standards.

CLASS B

Best usage of waters. Primary contact recreation and any other uses except as a source of water supply for drinking, culinary or food processing purposes.

Quality Standards for Class B 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 examinations. This standard shall be met during all periods when disinfection is practiced.

Item: 2. pH.

Specifications: Shall be between 6.5 and 8.5.

Item: 3. Total dissolved solids.

Specifications: None at concentrations which will be detrimental to the growth and propagation of aquatic life. Waters having present levels less than 500 milligrams per liter shall be kept below this limit.

Item: 4. Dissolved oxygen.

Specifications: For cold waters suitable for trout spawning, the DO concentration shall not be less than 7.0 mg/l from other than natural conditions. For trout waters, the minimum daily average shall not be less than 6.0 mg/l. At no time shall the DO concentration be less than 5.0 mg/l. For nontrout waters, the minimum daily average shall not be less than 5.0 mg/l. At no time shall the DO concentration be less than 4.0 mg/l.

Note 1: Refer to note 1 under Class AA which is also applicable to Class B standards.

- (n) Coastal waters shall mean those marine waters within the territorial limits of the State other than estuaries and enclosed bays. Long Island Sound is designated as coastal waters for the purposes of thermal discharges.
- (o) Enclosed bays shall mean those marine waters within the territorial limits of New York State, other than coastal waters or estuaries, in which exchange of sea water is severely limited by barrier beaches. For the purposes of thermal discharges, the following are designated as enclosed bays: Jamaica Bay, Hempstead Bay, Great South Bay, Moriches Bay, Shinnecock Bay and Mecox Bay.
- 701.2 Conditions applying to all classifications and standards. (a) In any case where the waters into which sewage, industrial wastes or other wastes effluents discharge are assigned a different classification than the waters into which such receiving waters flow, the standards applicable to the waters which receive such sewage or wastes effluents shall be supplemented by the following: "The quality of any waters receiving sewage, industrial wastes or other wastes discharges shall be such that no impairment to the best usage of waters in any other class shall occur by reason of such sewage, industrial wastes or other wastes discharges."
- (b) Natural waters may on occasion have characteristics outside of the limits established by the standards. The standards adopted herein relate to the condition of waters as affected by the discharge of sewage, industrial wastes or other wastes.
- 701.3 Class N. Best usage of waters. Enjoyment of water in its natural condition and, where compatible, as source of water for drinking or culinary purposes, bathing, fishing and fish propagation, recreation and any other usages except for the discharge of sewage, industrial wastes or other wastes or any sewage or waste effluent.

Quality Standards for Class N Waters

Items: 1. Sewage, industrial wastes, or other wastes, waste effluents or any sewage effluents not having had filtration resulting from at least 200 feet* of lateral travel through unconsolidated earth.

Specifications: None.

Items: 2. Deleterious substances, hydrocarbons, substances which would contribute to eutrophication or surface runoff containing any of such substances.

Specifications: None.

*A greater distance may be required if an inspection shows that due to peculiar geological conditions this distance is inadequate to protect the water from pollution.

701.4 Classes and standards for fresh surface waters. The following items and specifications shall be the standards applicable to all New York fresh waters which are assigned the classification of AA, A, B, C, or D, in addition to the specific standards which are found in this Part under the heading of each such classification.

Quality Standards for Fresh Surface Waters

Item: 1. 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: 2. Color.

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

Item: 3. 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: 4. Oil and floating substances.

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

Items: 5. Taste and odor-producing substances, toxic wastes and deleterious substances.

Specifications: None in amounts that will be injurious to fishlife or which in any manner shall adversely affect the flavor, color or odor thereof, or impair the waters for any best usage as determined for the specific waters which are assigned to each class.

Item: 6. Thermal discharges.

Specifications: (See Part 704 of this Title.)

Class AA

Best usage of waters. Source of water supply for drinking, culinary or food processing purposes and any other usages.

Conditions related to best usage of waters. The waters, if subjected to approved disinfection treatment, with at ditional treatment if necessary to remove naturally present impurities, will meet New York State Department of Health drinking water standards and will be considered safe and satisfactory for drinking water purposes.

Quality Standards for Class AA Waters

Item: 1. Coliform.

Specifications: The monthly median coliform value for 100 ml of sample shall not exceed 50 from a minimum of five examinations and provided that not more than 20 percent of the samples shall exceed a coliform value of 240 for 100 ml of sample.

Item: 2. pH.

Specifications: Shall be between 6.5 and 8.5.

Item: 3. Total dissolved solids.

Specifications: Shall be kept as low as practicable to maintain the best usage of waters, but in no case shall it exceed 500 milligrams per liter.

Item: 4. Dissolved oxygen.

Specifications: For cold waters suitable for trout spawning, the DO concentration shall not be less than 7.0 mg/l from other than natural conditions. For trout waters, the minimum daily average shall not be less than 6.0 mg/l. At no time shall the DO concentration be less than 5.0 mg/l. For nontrout waters, the minimum daily average shall not be less than 5.0 mg/l. At no time shall the DO concentration be less than 4.0 mg/l.

Item: 5. Phenolic compounds.

Specifications: Shall not be greater than 0.001 milligrams per liter (phenol).

-	
-	
-	
-	
-	
-	·
-	REFERENCE 13
-	
-	
~	
-	
-	
-	
-	
-	
-	
-	

NAME OF LANDFILL: Dresser Industries

LOCATION: Transit Road, Depew, Erie County

CURRENT OWNER: Dresser Industries

HISTORY

This site has been used for the disposal of foundry sand, some with phenolic binders. It is currently used as a foundry sand storage area prior to removal for disposal elsewhere. There are also quantities of slag, bentonite clay sludge, and some lube oil present at this site.

INVESTIGATION

An investigation was conducted at this site on December 9, 1981 by Messrs. Christoffel, Tygert, and Wozniak of DEC-Region 9. Water and silt samples were collected from a drainage ditch along the south edge of the fill area. Augering a hole in the fill area was unsuccessful because the drill bit broke. No leachate breakouts were observed along the perimeter of the site.

SOILS AND GEOLOGICAL INFORMATION

This site is located on a Hudson-Rhineback soil association. It is an association of moderately well to somewhat poorly drained, moderately fine textured, medium lime, grayish brown soils developed in lake laid sediments.

The material of the dominant soils of the association are high in silt and clay, and too dense to have much pore space to hold water. The underlying rock is a tightly packed shale with no solution chambers or open joint planes.

The site is located on a Marcellus formation bedrock. In Western New York the Marcellus consists of black, fissile shale. The approximate depth to bedrock is 8 feet.

SAMPLE ANALYSIS

The soil analysis showed a small concentration of phenol. The concentration in the water sample was below the detection limit.

DISCUSSION OF RESULTS

From the analyses, it appears that phenol is present at the site, but probably is not contaminating the runoff.

This site has been classified "F" meaning no further action is required; subsequent investigation has shown that no in-place toxics are present in dangerous amounts and the sites do not present a toxics hazard.

The site is 16 acres in size and is above the 100 year flood level.

RECOMMENDATION_

Because of the low concentrations of phenol in both the soil and the runoff no further action appears to be necessary at this site.

PARAMETER	SOIL	WATER
Phenol	9.3 ug/g dry	<0.01 mg/1
Dry Weight	14%	

Schedule I

Applicability. The following effluent standards and/or limitations shall apply to all Class GA waters in New York State.

Biological organisms. Coliform and/or pathogenic organisms shall not be discharged in amounts sufficient to render fresh ground waters detrimental to public health, safety or welfare.

Chemical Characteristics

cyclohexane

	Chemical Characteristics	
•	1	Maximum Allowable Concentration
-	Substanc e	in mg/l (unless otherwise noted)
(1)	Aluminum	(1) 2.0
- /(2)	Arsenic	(2) 0.05
/(2)	Barium	
. √/, ∄ {	Cadm1um	(3) 2.0 (4) 0.02
3(4)		(5)500
- (5)	Chloride (C.) (Name of land)	(6) 0.10
(6)	Chromium (Cr) (Hexavalent)	
(7)	Copper	• • •
- (8)	Cyanide	(8) 0.40
(9)	Fluoride	(9) 3.0
(10)	Foaming Agents 1	(10) 1.0
_(11)	Iron ²	(11) 0.6
(12)	Lead	(12) 0.05
(13)	Manganese ²	(13) 0.6
(14)	Mercury	(14) 0.004
- (15)	Nickel	(15) 2.0
(16)	Nitrate (as N)	(16) 20
(17)	Oil and Grease	(17) 15
	Phenols.	(18) 0.002
(18)	Thehols	
(10)	Colonium	(19) 0.04
(19)	Selenium Stland	(20) 0.1
(20)	Silver	
(21)	Sulfate	(21)500_
(22)	Sulfide	(22) 1.0
_(23)	Zinc	(23) 5.0
(24)	pH Range	(24)6.5-8.5
(25)	Aldrin, or 1,2,3,4,10,10-nexachioro-	(25) not detectable 4
	1,4,4a,5,8,8a-hexahydro- <u>endo-1,4</u> -	
-	exc-5,8-dimethanonaphthalene	
(26)	Chlordane, or 1,2,4,5,6,7,8,8-	(26) 0.1 ug/1
	octachloro-2,3,3a,4,7,7a-hexahydro-	
_	4,7-methanoindene	
(27)	DDT, or 2,2-bis-(p-chlorophenyl)-1,1,1-	(27) not detectable 4
(-1)	trichloroethane and metabolites	,
_(28)	Dieldrin, or 6,7-epoxy aldrin	(28) not detectable 4
(29)	Endrin, or 1,2,3,4,10,10-hexachloro-	(29) not detectable 4
(49)	6,7-epoxy-1,4,4a,5,6,7,8,8a-	\- <i>\-</i>
	octahydro-endo-1,4-endo-5,8-	
-	dimethanonaphthalene	
(20)	Heptachlor, or 1,4,5,6,7,8,8-	(30) not detectable ⁴
(30)		(30) 1100 0000000000
	heptachloro-3a,4,7,7a-tetrahydro-	
-/233	4,7-methanoindene and metabolites	(31) not detectable 4
(31)	Lindane and other Hexachlorocyclohexanes	()1/ NOT defectable
	or mixed isomers of 1,2,3,3,5,6-hexachloro-	

EFFLUENT LIMITATIONS AND HONITORING REQUIREMENTS

the period beginning and lasting until discharges from the permitted facility shall be limited and monitored by the raittee as specified below:

Discharge Limitations

Kfall Effluent

kg/day (lbs/day)

Other Units (Specify)

Monitoring Reqmts.

Monitoring Reqmts.

Monitoring Reqmts.

Monitoring Reqmts.

Daily Effluent

Ag/day (lbs/day)

Daily Avg. Daily Avg. Daily Max. Frequency Type

Surface Waters

				•				
Flow (1,5)	•				Cont	inuou	ıs	Meter
− BOD ₅		•	ų	5 mg/1			batch	
Total Kjeldahl Nitrogen	Monitoring	Required	only - 1	limits		P	~~~	"
UOD (1)			,			Ħ		**
 Total Settleable Residue 			0	,2 ml/l		11		**
Total Suspended Residue		•		5 mg/l	•	**		**
Total Dissolved Residue						**	-	11
- Chromium - VI (Heravaliat)		· n	1 mg/l		11		11
Chromium - Total	/			0 mg/1				**
Cadmium - Total			ñ.	2 mg/1		11		11
Copper - Total				4 mg/1		11		11
Iron - Total		•		0 mg/l		11		**
Lead - Total			'n	2 mg/l		**		**
_ Zinc - Total			1	0 mg/l		**		**
Phenols				0 mg/1		**		
√Fluoride				0 ოკ/ <u>1</u>		**		11
[Oil and Grease			15.	0 ng/1		**		
Parium						**		11
Sulfide	•		1. (0 mg/l		11		11
Coliform Bacteria	•	•	3,00) mg/l	1	11		11
Total Halogenated Hydrocar	rhne			per 100 025 mg/l	in L	**		11
Arsenic - Total	. 20113					10		**
Aluminum - Total				. mg/l		11		
- Nickel - Total			3.0) ng/l		11		
Mercury - Total			2.0	Ing/1		11		
Manganese - Total			0.1	mu/1				11
shall not be less than 6 of	n standard o	inite nor	crostor d	mg/l	ctanda	 d	nits a	

shall not be less than 6.0 standard units nor greater than 9.0 standard units and i be monitored as follows: once per batch, before discharge; outfall 001.

- taken in compliance with the monitoring requirements specified above shall be taken a following location(s): once per hatch, before discharge; outfall 001.

aily average discharge is the total discharge by weight or in other appropriate units of field herein, during a calendar month divided by the number of days in the month to production or commercial facility was operating. Where less than daily sampling uited by this permit, the daily average discharge shall be determined by the summation the measured daily discharges in appropriate units as specified herein divided by the fidays during the calendar month when the measurements were made.

dly miximum discharge means the total discharge by weight or in other appropriate units a field berein, during any calendar day.

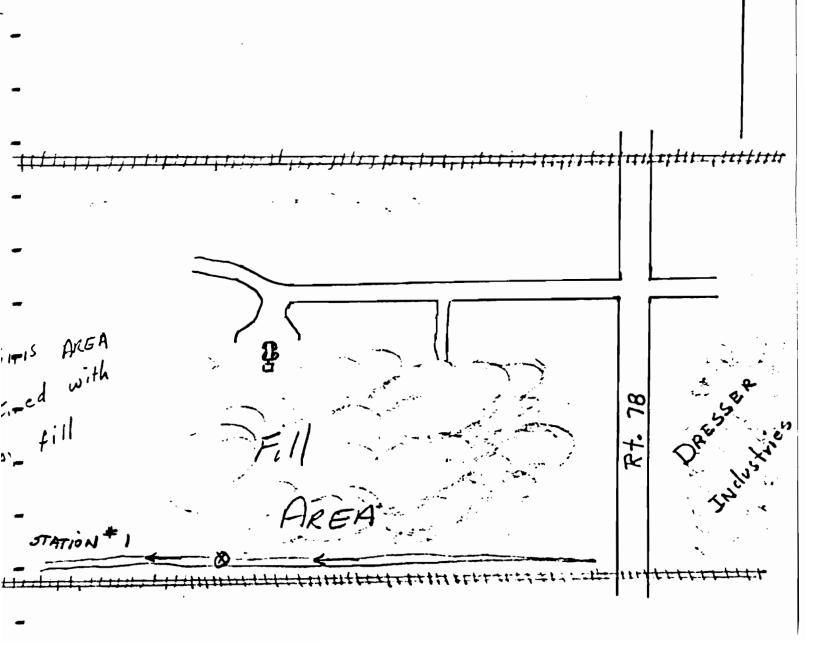
J Page 4

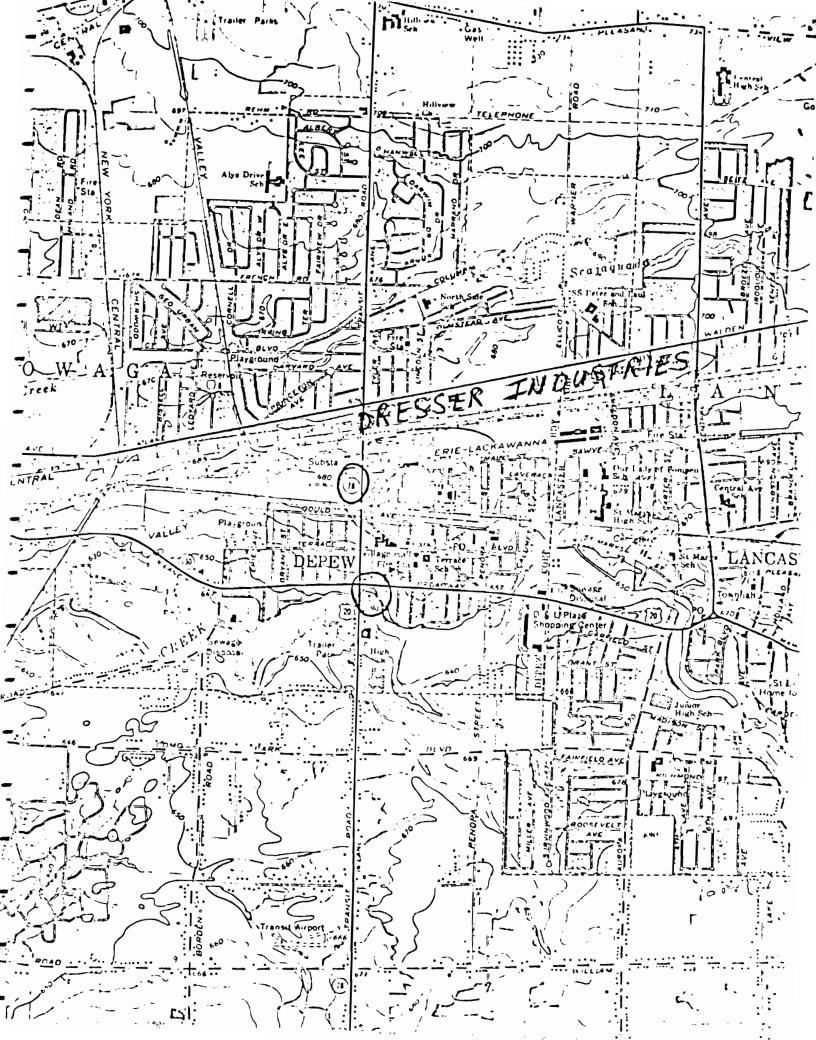
DESSER Industries

STATION# 1 - WATER & SILT SAMPLE AT SOUTH WEET From ditch draining

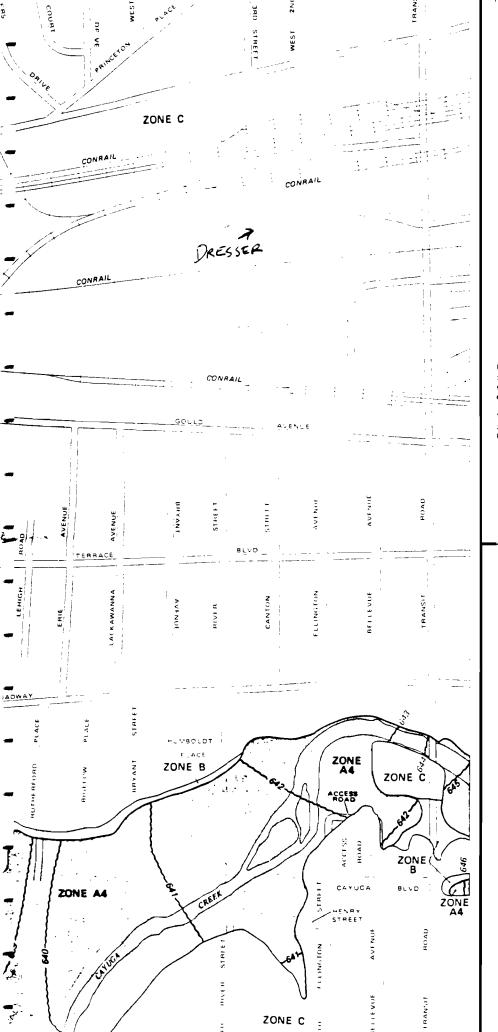
South Edge of I'll AREA - ditch parrallels RAIL ROAD TRACKS

flowing west





-	
-	
-	
-	
•	
-	·
-	
_	REFERENCE 14
_	
-	
-	
-	
-	
-	
~	
•	
•	
-	
-	
_	
_	



INITIAL IDENTIFICATION FEBRUARY 22, 1974

FLOOD HAZARD BOUNDARY MAP REVISIONS.

JULY 30, 1976

FLOOD INSURANCE RATE MAP EFFECTIVE AUGLIST 3 1981

FLOOD INSURANCE RATE MAPREVISIONS

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program at (800) 638-6620,





FIRM

FLOOD INSURANCE RATE MAP

VILLAGE OF DEPEW, NEW YORK ERIE COUNTY

PANEL 3 OF 5
(SEE MAP INDEX FOR PANELS NOT PRINTED)

34401111

COMMUNITY-PANEL NUMBER 360236 0003 B

EFFECTIVE DATE:

-		
-		
-		
- .		
		
-		
-	REFERENCE 15	
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		

GEOLOGY

OF

ERIE COUNTY

New York

Вч

EDWARD J. BUEHLER

Professor of Geology State University of New York at Buffalo

AND

IRVING H. TESMER

Professor of Geology State University College at Buffalo



BUFFALO SOCIETY OF NATURAL SCIENCES BULLETIN

Vol. 21. No. 3

Buffalo, 1963

Surficial Geology

PHYSIOGRAPHY

Both the altitude and relief of the land surface tend to increase from north to south. The lowest elevation is 565 feet above sea level at the northern tip of Grand Island and the highest, 1,945 feet above sea level, is in Sardinia township, southeastern Erie County. On the basis of physiography the county may be divided into three parts: the flat Lake Tonawanda plain in the north, followed by the Lake Erie plain, and the Allegheny plateau in the south.

The Onondaga escarpment is a conspicuous topographic feature. This north-facing cliff, formed by the outcropping northern edge of the resistant Onondaga Limestone and Upper Silurian dolostone, can be traced from Buffalo eastward through Akron. In Erie County it seldom exceeds 40 feet in height. Some of the streams which cross the escarpment form waterfalls, but many of the smaller streams disappear in fissures and caves and reappear on the plain to the north.

Between the Onondaga escarpment and the parallel Niagara escarpment to the north is the Lake Tonawanda plain, so named because in late Pleistocene time it was occupied by now extinct Lake Tonawanda. This plain actually is a shallow east-west trending trough, 10 to 15 miles in width, which is drained along its axis by Tonawanda Creek.

The Lake Erie plain, so called because it was covered by glacial lakes ancestral to the present Lake Erie, is an area 6 to 12 miles in width between the Onondaga escarpment and the hilly region to the south. This plain is smooth or gently rolling and rises in elevation toward its southern border where much of it is 900 to 1,000 feet above sea level.

The southern third of the county lies within the maturely dissected Allegheny plateau, the northern border of which is sometimes referred to as the Lake Erie or Portage escarpment. The hilly topography of this region appears to be largely the result of stream erosion for there are no appreciable folds or faults. Glacial erosion has modified the shape of some of the larger valleys and has produced a general rounding of the topography. The amount of glacial drift is commonly so great as to obscure the topography of the underlying bedrock.

BUFFALO SOCIETY OF NATURAL SCIENCES

Pleurotomana planidorsalis Hall Nephriticeras magister (Hall) P. itys var. tennispira Hall Nautihus barrandi Hall Promatis patulus Hall Cephalopods MOLLUSKS Gastropods Platyostoma lineata var. sinuosa Hall Loxonema breviculum Hall Euryzone rugulata (Hall)

Michelinoceras (?) emaceratum (Hall) M. (?) eriense (Hall) M. (?) uniconstrictum (Miller) Cyrtogomphus hinatus (Hall) Geisonoceras aulax (Hall)

Conocardum crassifrons (Conrad) Aviculopecten insignis Hall Elymella nuculoides Hall Gosselettia retusa Hall

Probeloceras luthers (Charke) Spyroceras nuntium (Hall) Leiopteria conradi Hall Orthoceras sp. Pelecypods

Schizodus appressus (Conrad) Panenka hero Hall L. laevis Hall

Aechmina marginata Ulrich (Ludlowville) Ctenobolbina minima Ulrich (Ludlowville) Primitiella Sabacea (Jones) Strepula plantaris Jones ARTHROPODS Bairdia leguminoides Ulrich (Ludlowville) Barychilina rhomboidea (Jones) (Ludlowville)

Clathrocoelia eborica Hall (now recognized Platycrinus eriensis Hall INCERTAR SEDIS ECHINODERMS as wing of Actmopteria decussata (Treatise, W: 139)

Coleolus crenatocinctus Hall Otarion hall Trilobites Cordania gemmaea Hall and Clarke Clathrocoeha eborica Hall

MARCELLUS FORMATION

O. ornata (Hall)

TYPE REFERENCE: Hall (1839, pp. 295-296)

TYPE LXCALITY: Slate Hill, one mile south of Marcellus, Onondaga County, New York; Skaneateles quadrangle.

(1930). Early students included much of the overlying Skaneateles Formation Тевміноцязт: See Vanuxem (1840, pp. 379-380), Wood (1901) and Cooper in the Marcellus. Luther (1914) and others excluded the Marcellus from the Hamilton Group. In Erie County, the Marcellus is represented by a single member, the Oatka Creek Shale Member.

AGE: Middle Devonian (Erian).

THICKNESS: 30-55 feet.

LITHOLOGY: In western New York, the Marcellus consists of black, fissile shale. PROMINENT OUTCROPS: Cayuga Creek in and near Lancaster (pl. 7, lower), and at the entrance to Como Lake Park.

BUEHLER AND TESMER: GEOLOGY OF ERIE COUNTY, NEW YORK

CONTACTS: The lower contact of the Marcellus Formation with the Onondaga Limestone cannot be seen in Erie County. The upper contact is transitional into the Stafford Limestone Member of the Skaneateles Formation. PALEON TOLOGY: The faunal content of the Marcellus is varied, consisting of brachiopods, bryozoans, pelecypods, gastropods, cephalopods, and arthropods.

Oatka Creek Shale Member

TYPE REFERENCE: Cooper (1930, pp. 130-131).

TYPE LICALITY: Near the Main Street bridge over Oatka Creck, Leroy, Genesee County, New York; Caledonia quadrangle.

ТЕКМІНОСССУ: See Cooper (1930, pp. 130-131).

Correlates in part with AGE AND CORRELATION: Middle Devonian (Erian). the Cardiff Shale Member of the Finger Lakes region.

THICKNESS: 30-55 feet. Clarke (1901, p. 121) gives 49.6 feet and Luther (1906, p. 14) lists 55 feet. LITHOLOGY: A dense black, fissile shale with a petroliferous odor. There are some beds of gray shale and several concretionary layers. Nodules of pyrite occur in the black shale near the base. Prominent Outcrops: Cayuga Creek in and near Lancaster (pl. 7, lower), and at the entrance to Como Lake Park.

CONTACTS: The lower contact of the Oatka Creek with the Onondaga Lime The contact between the Oatka Creek Shale Member and the overlying Stafford Limestone Member of the stone cannot be observed in Erie County. Skaneateles Formation is often transitional. PALEONTOLOGY: Beds with abundant Leiorhynchus limitare can be observed near the top of the member in Como Lake Park. The following faunal list was modified from Wood (1901):

BRYOZOANS

Reptaria stolonifera Rolle Onychocheilus (?) mtidulus Conrad

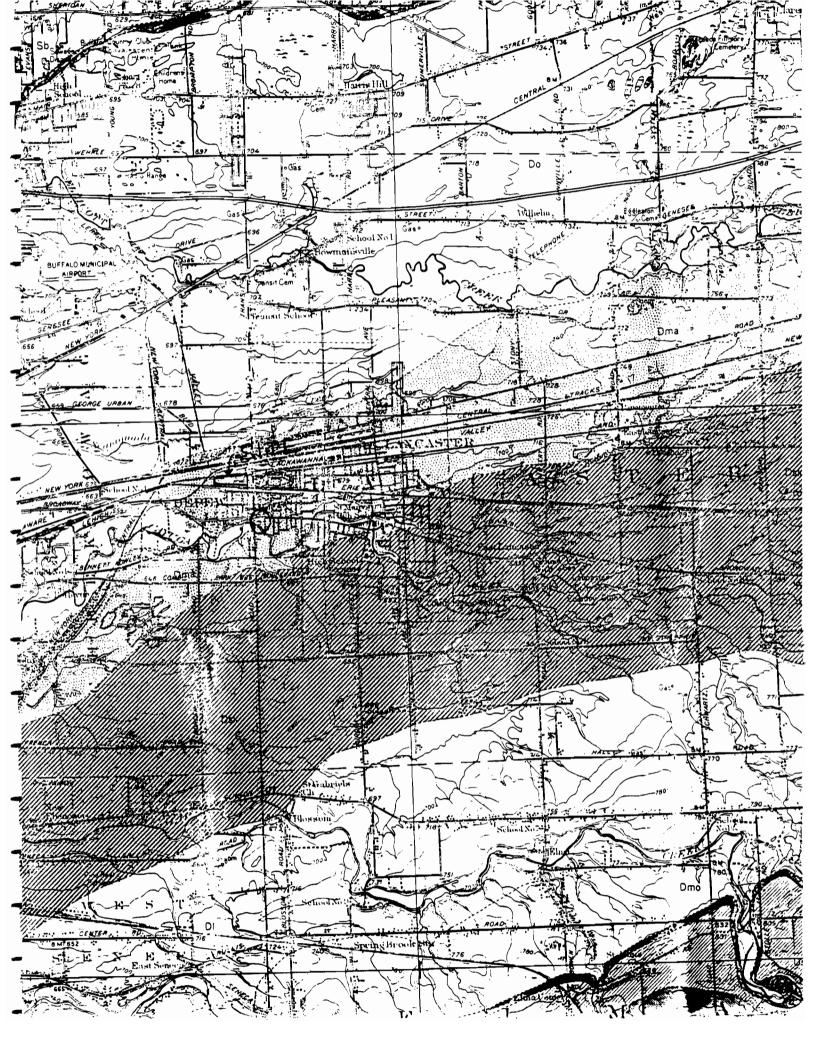
A. praeumbona Hall Chonetes mucronatus Hall Ambocoelia nana Grabau C. scitulus Hall

Tropidoleptus carinatus (Conrad) Truncalosia truncata (Hall) Mollusks

Leiorhynchus limitare (Vanuxem)

BRACHIOPODS

Pleurotomana regulata Hall Gastropod



eve	H (m)	
Middle Devoni	Skancateles Formation Levanna Shale Member, dark-gray calcarcous shale. Stafford Limestone Member, massive, fossiliferous limestone at base.	
W	Margallus Eurmation	
	Oatka Creek Shale Member, black calcarrous shale with some calcareous concretions.	
	Dc	
	Onondaga Limestone Moorehouse Limestone Member, light-gray limestone containing numerous corals and considerable dark-gray chert nodules; Nedrow Member, intermixed light-gray limestone and dark-gray chert; Edgecliff Member, light-gray limestone with some light-gray chert nodules, locally represented by a coral bioherm.	
	UNCONFORMITY	
	. Sa	
	Akron Dolostone Light-gray dolostone	
Upper Silurian	Sb + +	SILURIAN
Upper S	Bertie Formation Williamsville Member, light-gray argillaceous limestone; Scajaquada Member, interbedded dark- gray shale and argillaceous limestone; Falkirk Member, light-gray dolostone; Oatka Member, dark-gray shale with argillaceous limestone at base containing eurypterids.	SILI
	Sc .	
	Camillus Snale Gray shale containing large amounts of gypsum	
	Contact	,
	Inferred Contact	
	GEOLOGIC MAP OF ERIE COUNTY	,
	NEW YORK BEDROCK GEOLOGY	
	by Edward J. Buehler and Irving H. Tesmer	
	1963	
	Scale 628000	Miles
	CONTOUR INTERVAL 20 FEET	

L

E

-	
_	
-	
-	
•	
-	
-	
-	REFERENCE 16
-	
•	
_	
_	
•	
-	
-	
-	
-	

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

SHALE.

Bedding and lithology

The Marcellus Shale and all overlying formations are distributed through the southern half of the Erie-Niagara basin. They are predominantly shale but include a few thin limestone members at various stratigraphic positions (fig. 2). Thin beds of fine-grained sandstone are also interbedded with the shale in the upper part of the section. The rocks dip southward at about 40 feet per mile. They underlie the upland part of the basin and also a broad plain along Lake Erie in the southern part of the basin. Streams eroded deep valleys in the uplands prior to glaciation. The rocks were further eroded during glaciation and later these valleys were partly filled with stratified glacial deposits and the hills were veneered with till. The rocks on the lake plain are thinly covered with till and clay. In postglacial time Cattaraugus and Eighteenmile Creeks, where they cross the lake plain, cut spectacular gorges in the shale.

Water-bearing openings

The shale formations are cut by both vertical and bedding-plane joints along which are hairline openings. Locally, openings along thin limestone beds may be widened by solution. An important feature of the shale is a discontinuous zone of fracturing that follows the upper surface of the rock. In places, this zone consists only of shallow tension cracks caused by the movement of glacial ice over the rock. At other places, the zone is as much as 10 feet thick and consists of crumpled and broken rock. Some exposures show convoluted beds interfolded with glacial deposits.

Hydrologic characteristics

Water enters the shale almost exclusively by percolation from the overlying glacial deposits in interstream areas. Generally, the water table or top of the saturated zone lies in the glacial deposits above the shale. The water table lies within the shale only where the glacial deposits are absent or thin. The fracture zone at the top of the rock is directly connected to the glacial deposits and, therefore, is most advantageously positioned to receive water. At places, the fracture zone is overlain by a thin section of coarse-grained till which is, in turn, overlain by clayey till of much lower permeability. The coarse-grained till and fracture zone then act as a single water-bearing zone. The vertical and bedding joints, which extend into the shale at depth, receive water where they intersect the fracture zone along the top of the rock or intersect the overlying glacial deposits. The joints are thin and widely spaced. The shale at depth, therefore, has a much lower permeability than the fracture zone at the top of the shale.

Yields of wells

The shale formations generally yield only small supplies of water to wells. Individual wells provide adequate and dependable supplies for numerous homes and farms in the area. Yields of as much as 40 gpm are obtained from the Hamilton Group, probably because it contains limestone with openings that have been enlarged by solution. Elsewhere, the maximum yields of wells are generally 10 to 15 gpm from the fracture zone. If the fracture zone is absent, water is obtained from joints deeper in the rock and the yields of wells are much smaller. The small number of applicable data in table 6 indicate that the yields of wells drawing from the deeper fractures range from 1 to 7 gpm. However, dry holes or wells with inadequate yields are not uncommon and are not restricted to any stratigraphic unit or geographic area. The data are sparse by which to study the relationship of topography to yields. It does appear that the wells drilled in valleys, particularly if the shale is overlain by thick unconsolidated deposits, have somewhat larger yields than those wells on

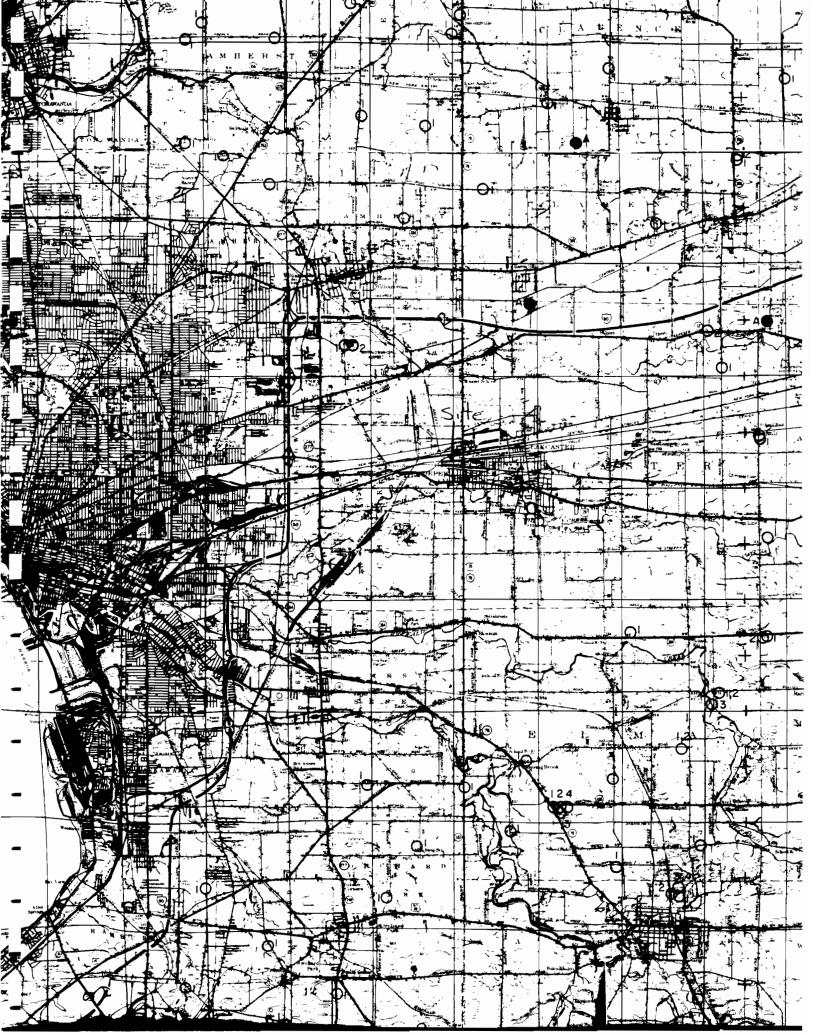


Table 6. -- Records of selected wells in the Erie-Niagara hasin

Method of lift: At - arr lift Our - deep well ry inder pump Let - deep well let pump Suh - submersible pump Suh - submersible pump Tur - ruthing pump Tur - ruthing pump	Type of power is indicated as I - Internal combustion engine H - manual all others are electrically powered fortimated pumpage: Average daily pumpage supplied by owner, tenant, or operator, or computed	on basis of per capita consumption of 50 apd per person or 20 apd per milk com. Use: A = abandoned in = institutional An = apricultural in = inrigation only		Remarks: anal - chemical analysis in this report dd - drawdown est - estimated qas - lammable qas issues from well ydd - qallons per day opn - qallons per minute H25 - hydrogan sulfide qas present in ground water iron - water has noticeable iron content L5 - land surface	Out - observation well, series of water-level measurements available r r - static water level sur a sure of the su
Well number: See "Well-Numbering and Location System" in text for explanation. Year completed: a - about h - before Type of well: Dr! - drilled	Depth of well: All depths below land surface. a - about a - reports measured	Diameter of well: Diameters of duq wells are approximate. Where two or more sizes of casings were used, they are shown in descending order.	Depth to bedrock: All depths below land surface a - about m - measured all others reported	Water-hearing material; Gravel, sand, silt, and till - qlacial deposits of Pleistocene age. Camillus Shale - Camillus Shale of Silurian age. Limestone - limestone unit convisiting of the Onnudaga Limestone of Devopian age and the Bertie Limestone and Akron Dolomite of Silurian age. Lockport Dolomite - Lockport Dolomite of Silurian age. Cachport Dolomite - Lockport Dolomite of Silurian age. Shale - Hamilton Group and Conneaut Group of Chadwick (1934) and intervening units, all of Devonian age.	Aliiude above sea level: fstimated from topographic maps to mearest 5 feet. Water level: All water levels are below land surface except those proceded by a (+) sign, which are above land surface, a - about p - pumping affect is probable flow - water flows above land surface but static head could not be measured. r - reported all others measured by U.S.G.S. personnel

- 87 -

Column C										4	Later.	-				
Particle						Depth		Depth		•bove	Below	2	Hethod	pumpere		
Company	Cou					(jeg.)	Diameter (Inches)	bedrock (feet)	nater bearing	level (feet)	surface (feet)	0.te	li ft	(gellons per day)	Use	Remarks
6. 1. Since of the control of the co	r i e	Donner	-Hanna Coke	1928	I	-119	9	:	Limestone	585	:	:	¥	35,000	-	H35; yield 30 qpm (F); in use about 150 days per year during summer and early fall; a test borling nearby penetrated 62.5 ft of silty clay, refusal at 62.5 ft.
consisted A, ball et 185 61 2 64 2 Sand and strated 1,115 ph.63 61-86-6 120 67 30 53-6 30 53-6 30 53-6 30 53-6 30 53-6 30 53-6 30 11-80 37 12-80 37 12-80 30 12-80 30 12-80 30 11-80 30 11-80 30 11-80 30 11-80 30 12-80 3	ф.			1928		1116	9	;	do.	585	;	;	₹	35,000	-	Anal; also see remarks for well 251-850-1.
F. Stetzert 1951	Genes		2	1963	Dr1	66	9	:	Sand and grave!	1,125	p46.3	49-81-9	ř	200	Ŀ	Bailed 5 qpm (r),
New York Telephone Co. 955 01 125 6 419 60. 120 120 130	8		vens	1961	Drl	88	8/5 5	80	Shale	975	23.8	49-81-9	Jet	;	q	
Antic Lee Co. 1950 61 190 Librations: Castillus 590 720 1951 10r 9 Mew York Telephone Co. 1955 1.0 10 112 53 Limestone 655 30 7-10-65 10r 9 40. 30 7-10-65 10r 9 40. 50 7-10-65 10r 9 40. 50 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 40. 50 40. 50 10	ф.		der	1959	Dri	13.5	9	618	9	0,040	82	;	3	200	a	Anal; iron; H ₂ S; yleld 5 gpm (r).
New York Litephone Co. 1955 61 780 12 63 10 10 10 10 10 10 10 1	Frie	Artic		91900		1180	9	₽50	Limestone; Camillus Shale	650	r20	1961	Ţ.	:	n	Anal; yield 300 gpm (r); supplied 300,000 gpd.
Note	8	New You		1955	2.0	180	12	53	Limestone	909	30	3-20-63	Ť	1	∍	ž
Fairmont Foods Co., 1935 Dr. 1717 S. 2 2 2 2 2 2 2 2 2	ક			1461		101	œ	œ	do.	830	r,p37	1961	Tur	:	-	H25; water-bearing zones from 89 to 101 ft depth, underlying cherty beds in Omondaga Limestone; pumping data, 30 gpm, dd 17 ft (r).
6. Lapp 071 65.3 6 do. 10.06 19.0 19.1 61.7 6 do. 10.06 19.0 19.1 61.7 6 do. 10.06 19.0 7.10-64 5.4 25.0 0 A. Baginaki 1960 0.1 41.1 6 do. 995 5.7 8-8-6.5 3et 15.0 0 do. 1961 0.1 12.0 6 do. 900 9.18 7.3 8-8-6.5 3et 15.0 0 VIIIage of Aiden 1961 0.1 12.0 6 do. 900 9.18 7.3 1.2 1.2 1.2 4.0 5 1.2 4.0 5 1.2 4.0 5 1.1 1.2 1.2 5.0 6.0 1.2 5.0 6.0 1.2 5.0 1.2 5.0 1.2 5.0 1.2 5.0 1.2 <	ф.	Falrmor Inc.		1925		1127	œ	30	do.	580	rF10w	1961	Tur	000.04	-	Anal; H ₂ S.
ch. F. Firet 1963 071 63.7 6 do. 1,060 19.3 7-10-64 53.7 6 do. 1995 5.7 8-8-63 5.7 8-8-63 5.7 8-8-63 5.7 8-8-63 5.7 8-8-63 5.7 8-8-63 5.7 9.8 7 9.8 5.7 8-8-63 5.7 9.9 9.7 8-8-63 5.7 9.9 9.7 9.1 9.7	Genes		p.	:	Dr1	65.3	9	ł	Sand and gravel	96.6	14.1	49-11-9	Jet	250	0	
A, Baginski 1960 0r1 4,1 6 do. 995 5.7 6-8-63 jet 150 0 J. Hurray 1961 0r1 26.1 8 do. 900 p11.3 7-31-63 5rg 7-9 0 do. 1961 0r1 27.0 60, 18 27 Sand and gravel 900 9-18 7-31-63 5rg 90 VIIIage of Alden 1961 0r1 7.2 60, 18 27 Sand and gravel 80 11.3 7-31-63 5rg 0 J. Gilbridge 1962 0r1 47.8 6 60. 7.3 7.3 1.3 7.3 8.0 60. 7.3 7.3 8.0 90 11.3 7-31-63 3ref 7.3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	ę,		τ	1963	110	63.7	9	;	do.	090'1	19.3	7-30-64	3	250	G	
co. J. Murray 1961 Dr.1 25.0 6 shale 90 pl.1.3 7-31-63 5m 7-31-63 5m 7-31-63 5m 7-31-63 5m 7-31-63 5m 7-31-63 5m 7-31-63 7-31-63 5m 7-31-63 7-31-63 5m 7-31-63	8		inski	1960	Dri	1.	9	;	8.	366	5.7	8- 8-63	Jet	150	a	Anel; yield 3 gpm (r).
do. do. do. do. do. do. 918 7-31-63 54 do. 918 7-31-63 54 do. 90 9.18 7-31-63 54 10 90 9.18 7-31-63 54 10 7-31-63 54 10 7-31-63 54	Frie	J. Murr	۲.	1961		1.92	80	:	Shale	900	p11.3	7-31-63	3	250	0	Anal; from; water level occasionally is pumped down to bottom of suction pipe at 24 ft.
Ulliage of Alden 1961 0r.1 727 60, 18 27 Sand and gravel 840 10r 75,000 PS D. Klinkman 1952 Dr.1 47.8 6 abo shale 376 11.3 7-31-63 Jet 250 0 D. Klock 0.1 61.7 6 do. 660 9.3 6-27-63 Jet 250 0 B. Klock 0.1 24.3 5 m8 do. 660 9.3 6-27-63 Sw 9 0	8			1961	Dri	22.0	9	;	do.	900	9.18	7-31-63	£	1	n	Iron.
D. Kilnkman 1957 Dr. I 47.8 6 abo Shele 830 11.3 7-31-63 Jet 250 D J. Gilbride 1962 0r1 61.7 6 do. 775 28.8 7-31-63 Jet 250 D D. Klock 0r. I 24.3 5 m8 do. 660 9.3 6-27-63 Sm 0 Rivoli Theater 1941 0r. I 710 8 20 Limestone 605 r.p30 1951 Tur 50.000 C Rivoles 1950 0r. I 50.3 6 5 and and gravel 985 13.0 6-16-64 Jet 1,250 F F. Kacemarek 1950 0r. I 57.5 6 850 Shale 1940 17.1 1-15-58 1r. 10,000 F F. Kacemarek 1957 0r. I 57.5 16.8 34 Sand and gravel 89.0 </td <td>8</td> <td></td> <td>e of Alden</td> <td>1961</td> <td>1.0</td> <td>127</td> <td>60, 18</td> <td>27</td> <td>Sand and grave?</td> <td>840</td> <td>:</td> <td>:</td> <td>Ę</td> <td>75,000</td> <td>5</td> <td>Concrete tile from 0-16 ft installed 1947; 18-inch diameter screen, gravel packed, from 16-27 ft installed 1961.</td>	8		e of Alden	1961	1.0	127	60, 18	27	Sand and grave?	840	:	:	Ę	75,000	5	Concrete tile from 0-16 ft installed 1947; 18-inch diameter screen, gravel packed, from 16-27 ft installed 1961.
J. Gilbride 1962 0r1 61,7 6 do. 65 9.3 6-27-63 Jet 250 D D. Klock 0r. I 24,3 5 m8 do. 660 9.3 6-27-63 5w 0 Rivoli Theater 1941 0r. I 110 8 20 Limestone 605 r.p40 1951 Tur 50.000 C E. Rhodes 1956 0r. I 50.0 8 20 do. 605 r.p30 1951 Tur 60.000 C F. Kaczmarck 1950 0r. I 57.5 6 850 Shale 940 11.8 8-9-63 Jet 1,250 F VIIlage of Alden 1957 0r. I 15.8 34 Sand and gravel 830 r7.1 1-31-58 Tur 100.000 FS	8		nkman	1957	Drl	47.8	9	048	Shale	830	11.3	7-31-63	Jet	250	0	Anal; iron; yield 10 gpm (r).
do. D. Klock 0-1 14, 3 5 m8 do. 660 9.3 6-27-63 Sw 0 do. Rivoli Theater 1941 0-1 ril 0 8 20 Limestone 605 r,p40 1951 Tur 50,000 C do. Roosewelt Theater 1936 0-1 r60 8 20 do. r,p30 1951 Tur 60,000 C do. F. Raczmarek 1950 0-1 53,3 6 Sand and gravel 986 13.0 6-16-64 Jet 1,250 F Erle VIIIage of Alden 1957 0-1 r35,7 16,8 34 Sand and gravel 830 r7.1 1-31-58 Tur 10,000 F	€.		bride	1961	Dri	61.7	9	;	do.	3115	28.8	7-31-63	Jet	250	0	Anel; iron; H ₂ S; yleld 10 gpm (r).
Rhooli Theater 1941 0r1 rill 8 20 Linestone 605 r,p40 1951 Tur 50,000 C Roosevelt Theater 1936 0r1 r60 8 20 do. do. 605 r,p40 1951 Tur 60,000 C F. Macmarek 1950 0r1 67.5 6 80 Shale 940 11.8 8-9-63 Jet 1,250 F VIIIage of Alden 1957 0r1 r35.7 16,8 34 Sand and gravel 830 r7.1 1-31-58 Tur 100,000 P5 do. do. do.	ę,		ck	ŀ	Dr.1	24.3	5	æ	do.	099	9.3	6-27-63	3	ŀ	>	
do. Roosevelt Theater 1936 Dr.I r60 8 20 do. 605 r,p30 1951 Tur 60,000 C Genesee E. Rhodes 1950 Dr.I 33.3 6 Sand and gravel 985 13.0 6-16-64 Jet 1,250 F do. F. Kazmarek 1950 Dr.I 67.5 6 s50 Shale 940 11.8 8-9-63 Jet 1,250 F Erle VIIIage of Alden 1957 Dr.I 135.7 16,8 34 Sand and gravel 830 r7.1 1-31-58 Tur 100,000 PS do. do. do. do.	ê.		Theater	1941		110	&	20	Limestone	909	074.	1961	Ť.	20,000	u	Air-conditioning use; water is returned to ground through a disposal well 150 fr away; pumping data 150 gpm, dd 4 ft (r),
Genesee E. Rhodes 1959 Dr1 33.3 6 Sand and gravel 985 13.0 6-16-64 Jet 1,250 F do. F. Kazzmarek 1950 Dr1 67.5 6 850 Shale 940 11.8 8-9-63 Jet 1,250 F Erle VIIIage of Alden 1957 Dr1 735.7 16, 8 34 Sand and gravel 830 77.1 1-31-58 Tur 100,000 PS do. do. do. do. 5w 9,000 PS	÷		elt Theater	1936	1-0	160	∞	70	ð.	909	r,p30	1961	Ĭ.	000'09	٠.	
F. Kaczmerek 1950 Drl 67.5 6 a50 Shale 940 11.8 8-9-63 Jet 1.250 F VIIIage of Alden 1957 Drl 735.7 16, 8 34 Sand and gravel 830 r7.1 1-31-58 Tur 100,000 PS do, do, 825 Sw 9,000 PS	Genes		des	6561	Dri	33.3	9	:	Sand and gravel	985	13.0	1 9-91-9	Jet	1,250	u.	Iron; yield 15 gpm (r).
Village of Alden 1957 Drl r35.7 16, 8 34 Sand and gravel 830 r7.1 1-31-58 Tur 100,000 PS do, bug r14 140 do. 825 5w 9,000 PS	-8;		zmarek	1950	DrJ	67.5	9	950	Shale	940	1.8	8- 9-63	Jet	1,250	u.	Anal; Iron; H ₂ S; yleld B gpm (r).
do, bug rll4 140 do, 825 5w 9,000 P5			e of Alden	1957	Drl	135.7	16, 8	34	Sand and gravel	830	17.1	1-31-58	Tur	100,000	2	Iron; M25; screen, 8-inch diameter, 125-slot from 22-34 ft; gravel packed from 22-34 ft; pumping test, 220 gam, swl 8.6 ft; dd II.1 ft after 8 hours pumping.
				!	6ng	1	07.1	;		825	:	:	3	000'6	£	One of a group of three dug wells at Alden No. I pumping plant; total pumpage from these three wells is about 27,000 gpd.

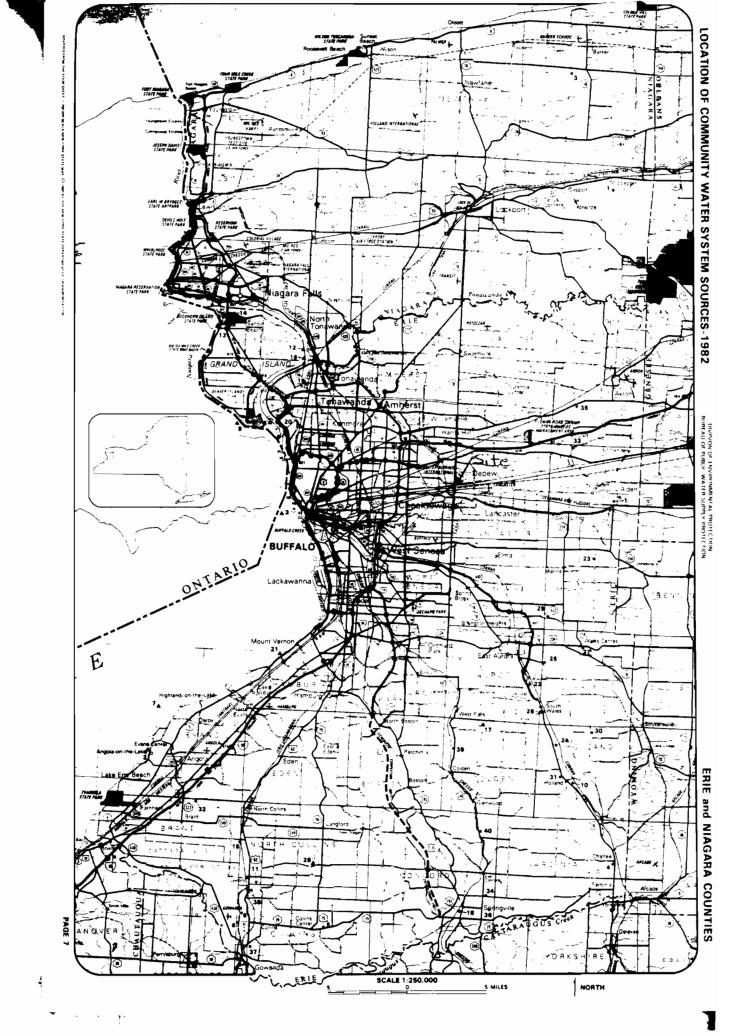
_	
-	
•	
-	
-	
-	
-	
-	REFERENCE 17
-	
_	
-	
-	
	
-	
-	
-	
-	

1982 Community Water System Sources

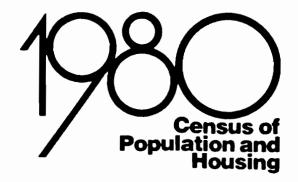
NEW YORK STATE DEPARTMENT OF HEALTH DIVISION OF ENVIRONMENTAL PROTECTION BUREAU OF PUBLIC WATER SUPPLY PROTECTION

ERIE COUNTY

ID NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE
Munic	cipal Community		
		0-	
	Akron Village (See No 1 Wyoming	3640	
1	Page 10)	3460	. Wells
ģ	Angola Village	8500.	Lake Erie
3	Buffalo City Division of Water.	357870.	Lake Erie
ŭ	Caffee Water Company	210.	Wells
5	Collins Water District #3	704	Welis
6	Collins Water Districts #1 and	#2 1384. .	Wells
7	Erie County Water Authority		
	(Sturgeon Point Intake)	375000	Lake Erie
8	Erie County Water Authority		Miles and Miles
•	(Van Dewater Intake) Grand Island Water District #2.	NA	Niagara River - East Branch
.9	Holland Water District #2.	1670	, Niagara Kiver
10 11	Lawtons Water Company		
12	Lockport City (Niagara Co)		Niagara River - Fast Branch
13	Niagara County Water District (Niagara Co).	. Niagara River - West Branch
14	Niagara Falls City (Niagara Co)	• • • • • • •	Niagara River - West Branch
15	North Collins Village		
16	North Tonawanda City (Niagara Co	0)	. Niagara River - West Branch
17	Orchard Park Village	3671	. Pipe Creek Reservoir
18	Springville Village	4169	Wells
19	Tonawanda City	18538	Niagara River - East Branch
20 21	Tonawanda Water District #1 Wanakah Water Company	91269	, Niagara Kiver
21	wallakali water company	10750	. Lake the
Mon.N	lunicipal Community		
	•		14-11-
22	Aurora Mobile Park	125	Weils
23 24	Circle B Trailer Court		
25	Circle Court Mobile Park	125	WALLS
26	Creekside Mobile Home Park	120.	Wells
27	Donnelly's Mobile Home Court		Wells
28	Gowanda State Hospital	NA	.Clear Lake
29	Hillside Estates	160	Wells
30	Hunters Creek Mobile Home Park.		
31	Knox Apartments	<u>N</u> A	Wells
32	Maple Grove Trailer Court		
33	Militarove Mobile Park	100	Wells
34 35	Perkins Trailer Park	100	Wells
36	Springville Mobile Park		WALLS
37	Springwood Mobile Village,		
38	Taylors Grove Trailer Park		
39	Valley View Mobile Court	42	Wells
40	Villager Apartments		



-	
-	
-	
-	
-	•
-	•
-	REFERENCE 18
-	
-	
-	
-	
-	
-	
-	
-	
-	
-	



Census Tracts

BUFFALO, N.Y.

STANDARD METROPOLITAN STATISTICAL AREA

PHC80-2-106

Issued July 1983



U.S. Department of Commerce
Malcolm Baldrige, Secretary
Robert G. Dederick,
Under Secretary for
Economic Af'

BUREAU OF THE CF Bruce Chapman, F



- ble 5. Population of Places: 1960 to 1980—Con.

			[For changes in boundaries of incorporated places since 1970, see table 4. For meaning of symbols, see Introduction]							
	Incorporated Places					Incorporated Places				
	Census Designated	Counties	1980	1970	1960	Census Designated Places	Counties	1980	1970	1960
		•								
	Contry Knoils (CDP)		1 380 2 497	2 082		Forestville village	. Chautauqua	804 509	908 562	905
	Cove Neck village	Nassau	331	344	299	Fort Edward village	Washington	3 561	3 733	453 3 737
	TACKE WHOOF	Greene	2 786 703	2 399	2 849 821	Fort Johnson village	Montgomery	646	711	876
	ighan village	Maranharan	6 889	765 7 523	6 812	Fort Montgomery (CDP)	Montgomery	1 396 2 555	2 809	2 809
	Houghts (CDP)	Dutrhess	3 225	3 292		Fort Salanga (CDP)	Suffolk	9 550	,	
	Cuba village	AMEGONY	1 739 2 788	1 735	1 949	Franktort village Franklin village	Delmanre	2 995 440	3 305 552	3 872 525
	Dannemora village	Clinton	3 770	3 735	4 835	Franklin Square (CDP)	Nassau	29 051	32 156	32 483
	insville village	Lovingston	4 979	5 436	5 460	Franklinville village	Cottorovous	1 887	1 948	2 124
	Prorts (CDP)	Suffolk	30 394	'32 274	16 726	Fredonia village	Chautauaua	11 126	10 326	8 477
•	Delanson village	Jefferson	326 448	347 508	470 398	Freeport village	Nossau	38 272 449	40 374	34 419 471
	Delevan village	Cattaraugus	1 113	994	777	Frewsburg (CDP)	Chautougua	1 908	1 772	1 623
	Pimor (CDP)	Albany	3 374 R 423	3 017	2 307	Friendship (CDP)	Allegany	1 461	1 285	1 231
X	SDEM Algade	Ene	19 819	22 158	13 580	Fultonville village	Montgomery	13 312	14 003 812	14 261 815
/ `			1 897	2 061	2 025	Gainesville village	Wyorking	334	385	369
•	mepoput village	Broome (pt in)	1 017	1 119	1 187	Galway village	. Soratogo	245	270	309
		Delgware (pt in)	880	942	838	Gang Mills (CDP)	Steuben	2 300	1 258	
	Dening Harbor village	Madison	16 542	24 643	627	Garden City village Garden City Park (CDP)	Nossou	22 927 7 712	25 373 7 488	23 948
	w Wift (CDP)	Onondaga	9 024	10 032		Gardnertown (CDP)	Orange	4 238	4 614	:
)exter village	Suffolk	1 053 26 693	1 061	1 009	Gasport (CDP)	Nigogra	1 339		
	Dobbs Ferry village	Westchester	10 053	10 353	9 260	Geneseo village	Livingston	6 746	5 714	3 284
			2 602	2 872	3 058	Geneva city	-	15 133	16 793	}
	Dolgeville village	fulton (pt in)	162	175	185	WE-TE WIT	Ontono (pt in)	15 133	16 793	17 286 17 286
	over Plans (CDP)		2 440 1 753	2 697	2 873	Gilbertsville villene	Seneca (pt in)	455	·- (-
-	Dresden village	Yates	378	450	437	Gilbertsville village Glasco (CDP)	. Ulster	1 179	1 169	522
	Dryden village	Tompkins	1 761	1 490	1 263	Glen Cove city	Nassau	24 618	25 770	23 817
	Dunkerk City	Chautauqua	1 556 15 310	1 539 16 855	1 468 18 205	Glenham (CDP) Glen Park village	Jefferson	2 832 504	2 720 587	561
			201			Giens falls ary	Warren	15 897	17 222	18 580
	Earlyille village	Chenanao (pt sh)	985 363	1 050	1 004 370	Glens falls North (CDP)		6 956 17 836	19 677	21 741
_			622	673	634	Golden s Bridge (CDP)	Westchester	1 367	1 101	-,
	Fast Bloomfield village	Ontano	6 803 587	7 033 643	6 791 488	Gashen village	Orange	4 874	4 342	3 906
	Fast Cavuga Heights (CDP)	Tompkins	2 630	2 611		Gouverneur village		4 285	4 574	4 946
	East chester (CDP) Fast Farmingdale (CDP)	Westchester	20 305 5 5 522	23 750	:::	Gawanda village	. Total	2 713	3 110	3 352
-	Frist Glenville (CDP)	Schenectody	6 537	5 898			Cattoraugus (pt in)	1 864	2 098	2 273
	East Hampton village	Notegu	1 886 7 160	1 753 18 624	1 772 7 184	Grand View-on-Hudson village	Ene (pt in)	849 312	1 012 325	330
	Fast Islan (CDP)	Suffolk	13 852	6 861		Granville village	. Washington	2 696	2 784	2 715
	East Massapequa (CDP)	Notton	13 987	15 926	14 779	Great Neck village	Nassau	9 168 2 936	'10 798 3 131	3 262
	Fast Meadow (CDP)	Nassau	39 317	46 290	46 036	Great Neck Plaza village	Nassau	5 604	6 043	4 948
•	Fast Middletown (CDP)	Orange	4 330 20 187	2 640 12 392	1 752 8 381	Greece (CDP)	. Monroe	16 177	1 874	ا مُغَنَّا
	East Patchague (CDP)	Suffolk	18 139	8 092	0 301	Green Island village		2 696	3 297	2 051 3 533
	Fast Quague (CDP)	Suffolk	3 668	1 143	:::	Greenlawn (CDP)	. Suffolk	13 869	18 493	5 422
	East Rochester village		655 7 596	636 8 347	594 8 152	Greenport village	Suffalk	2 273	2 481	2 608
-	Fast Rockoway village	Nossau	10 917	11 795	10 721	Greenport West (CDP)	Suffolk	1 571		
	East Syracuse village		3 412	4 333	4 708	Greenville (CDP)	Washington	8 706 1 955	2 092	2 263
	East Williston village	Nossou	2 708 1 574	2 808	2 940	Greenwood Lake village	Orange	2 809	2 262	1 236
	Eden (CDP)	Ene	3 000	2 962	2 366	Groton village		2 313	2 112 1 410	2 123
	Edwards village		561	576	658	Hamburg village	. frie	10 582	10 215	9 145
_	Ebridge village	Onondago	750 1 099	752 1 040	739 828	Hamilton village	St. Lawrence	3 725 271	3 636 273	3 348
	Elzobethtown village	Essex	659	607	779	-				
	Elicottville village	Cattaraugus	4 405 713	4 482 955	5 003 1 150	Hammondsport village Hampton Bays (CDP)		1 065 7 256	1 066 1 862	1 176
	Elisburg village	Jefferson	307	337	328	Hampton Park (CDP)	. Suffolk	1 331		}
-	Elma Center (CDP)	Erie	2 459	2 784		Hancock village		1 526 680	686	1 830
	Elmira city	Chemung	35 327	39 945	46 517	Harriman village	Orange	796	955	752
	Birmira Herahts North (CDP)	Chemung	4 279 2 659	4 906 2 906	5 157 2 528	Harriman South (CDP)		1 254 5 087	:	::: [
	Elmont (CDP)	Nassau	27 592	29 363	30 138	Harrison village	Westchester	23 046	[
_	Emsford village	Suffolk	3 361 11 84 7	3 911 15 031	3 795	Horrisville village	. urws	937	836	842
_	Endicott village	Broome	14 457	16 556	18 775	Hartsdale (CDP)		10 216	12 226	
	Endwell (CDP) Esperance village	Schohone	13 745 374	15 999 408	314	Hastings-on-Hudson village	Westchester	8 573 20 960	9 479 13 957	8 979
	Evons Milts village	1-44				Haverstraw village	Rockland	8 800	8 198	5 771
	fabius village		651 367	714 374	618 378	Haviland (CDP) Hawthome (CDP)		3 578 5 010	3 447	:::\
•	For Hoven village		976	859	764	Head of the Harbor village	Suffolk	1 023	943	524
	Fairmount (CDP)	Monroe	13 415 5 970	15 317 6 474	5 507	Hempstead village Herkmer village		40 404 8 383	39 411 8 960	34 641 9 396
	Fairview (CDP)	Dutchess	5 852 2 778	8 517 2 983	8 626 3 343	Hermon village	St Lowrence	490	521	612
	formingdale village	Nassau	7 946	9 297	6 128	Hernoks (CDP)		8 123	9 112	
	Farmingville (CDP) Farmham village	Suffolk	13 398 404	211		Herrings village	Jefferson	170 777	137 770	171
				546	422	Heuvelton village	. Nassau	6 986	6 796	810
	Formwood (CDP)	Onondage	4 709	4 996	4 311	Hewlett Bay Park village	Nassau	489	586	520
	hamore village	Allegany	3 640 563	3 659 537	2 106 522	Hewlett Harbor village Hewlett Neck village		1 331 472	1 512 529	1 610
	hrthcitte (CDP)	Oronge	4 430	4 025	2 824	Hicksville (CDP)	Nassau	43 245	'49 820	50 405
•	Fishkill village Fleischmanns village	Delmann	. 1 555 . 346	913 434	1 033	Highland (CDP) Highland Falls village	Orange	3 967 4 187	2 184 4 638	2 931 4 469
	Floral Park village Florada village	Nassau	16 805	18 466	17 499	_				
	Hower Hill village	Nassau	1 947 4 558	1 674 4 486	1 550 4 594	Highland Mills (CDP)	Rockland	2 034 926	1 058	1 114
	Fanda village	Montgomery	1 006	1 120	1 004	Hillcrest (CDP)		5 733	5 357	1

-	
-	
.	
-	
•	
-	
	,
_	
-	REFERENCE 19
•	
-	
-	
-	
-	
•	
•	
•	
-	



RECRA ENVIRONMENTAL, INC.

Hazardous Waste And Toxic Substance Control

June 19, 1986

Mr. Lawrence Clare, P.E.
New York State Department of
Environmental Conservation
Region 9
Bureau of Solid and Hazardous Waste
600 Delaware Avenue
Buffalo, NY 14202

Dear Mr. Clare:

As part of the background information search requirements for the NYSDEC Superfund sites, we, the consultants, are required to have all our interviews, personal or telephone, documented.

Below is a synopsis of our telephone conversation which took place on June 19, 1986. I would like to request that you read the account, sign at the bottom of the page, and return it to the undersigned. This request is only to serve as documentation that our conversation took place.

o To the best of your knowledge, the only usages of Cayuga Creek and Scajaquada Creek within three miles downstream of Transit Road in Depew is for secondary contact recreation such as occasional fishing and wading.

Should you have any further comments, please feel free to contact the undersigned. Thank you for your time and effort.

Sincerely,

RECRA ENVIRONMENTAL, INC.

Thomas P. Connare Environmental Analyst

TPC:pal

Lawrence Clare

-	1/A3132								
-									
-									
-					APPENDIX	В			
-		REVISED	NYSDEC	INACTIVE	HAZARDOUS	WASTE	DISPOSAL	SITE	REPORT
-									
-									
-									
-									
-									
-									
-									
•									
_									
-									
-									
•									

(47-15-11 (10/83)

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

INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

PRIORITY CODE:		SITE	CODE:	915064	
NAME OF SITE:	Dresser Industries		_	REGION:	9
STREET ADDRESS:					
TOWN/CITY: Dep	Dew	_ COUNTY: _	Erie	. <u> </u>	
NAME OF CURRENT	OWNER OF SITE: Dresse	er Industri	es		
ADDRESS OF CURRE	NT OWNER OF SITE: 2 Ma	ain Street.	Depew. NY	14207	
TYPE OF SITE:	OPEN DUMP X	STRUCTURE TREA	TMENT POND	LAGOON	Ħ
ESTIMATED SIZE:	16 ACRES			•	
SITE DESCRIPTION	l :				
foundry sand stora	used to fill over 10 acr uge area prior to removal and water samples were	l for dispos	sal elsewhe	re. Filled	as a I areas
	TY OF HAZARDOUS WASTES DE TYPE some Phenolics	ISPOSED:	3,730	-	DRUMS GALLONS)
Lube Oil	y studge		Unknown		

PAGE

TIME PERIOD SITE WAS USED FOR HAZARDO	DUS WASTE DISPOSAL:
Unknown , 19	
OWNER(S) DURING PERIOD OF USE: Same	
SITE OPERATOR DURING PERIOD OF USE: _	Same
ADDRESS OF SITE OPERATOR:Same	
ANALYTICAL DATA AVAILABLE: AIR SOIL X	SURFACE WATER GROUNDWATER NONE NONE
CONTRAVENTION OF STANDARDS: GROUND SURFAC	DRINKING WATER AIR
SOIL TYPE: <u>Urban Land - Churchville</u> DEPTH TO GROUNDWATER TABLE: <u>Natural</u>	e, Nearly Level water table perched in upper subsoil
LEGAL ACTION: TYPE: None STATUS: IN PROGRESS	STATE FEDERAL COMPLETED COMPLETED COMPLETED
ASSESSMENT OF ENVIRONMENTAL PROBLEMS:	
One of three water samples contain contained phenols in low levels.	ned phenol in low levels. Soil samples
ASSESSMENT OF HEALTH PROBLEMS:	
Insufficient Information	
	·
PERSON(S) COMPLETING THIS FORM:	
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Recra Research, Inc.	NEW YORK STATE DEPARTMENT OF HEALTH
NAME Kermit Studley	NAME
TITLE Staff Geologist	TITLE
NAME	NAME
TITLE	TITLE
DATE: <u>January 14, 1986</u>	DATE:

PAGE